

# CDX-GT450U/GT454US

## SERVICE MANUAL

Ver. 1.0 2010.10

US Model  
Canadian Model  
CDX-GT450U  
Russian Model  
CDX-GT454US



Photo: CDX-GT450U

- The tuner and CD sections have no adjustments.

### AUDIO POWER SPECIFICATIONS (US model)

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

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-101N-188
Optical Pick-up Name	DAX-25A

### SPECIFICATIONS

#### Tuner section FM

**Tuning range:**  
US, CND model: 87.5 – 107.9 MHz  
RU model: 87.5 – 108.0 MHz  
**Antenna (aerial) terminal:**  
External antenna (aerial) connector  
**Intermediate frequency:** 150 kHz  
**Usable sensitivity:** 10 dBf  
**Selectivity:** 75 dB at 400 kHz  
**Signal-to-noise ratio:** 70 dB (mono)  
**Separation:** 40 dB at 1 kHz  
**Frequency response:** 20 – 15,000 Hz

#### AM (US, CND model)

**Tuning range:** 530 – 1,710 kHz  
**Antenna (aerial) terminal:**  
External antenna (aerial) connector  
**Intermediate frequency:** 25 kHz  
**Sensitivity:** 26  $\mu$ V

#### MW/LW (RU model)

**Tuning range:**  
MW: 531 – 1,602 kHz  
LW: 153 – 279 kHz  
**Antenna (aerial) terminal:**  
External antenna (aerial) connector  
**Intermediate frequency:** 25 kHz  
**Sensitivity:** MW: 26  $\mu$ V, LW: 45  $\mu$ V

#### 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:** 500 mA

#### Power amplifier section

**Outputs:** Speaker outputs  
**Speaker impedance:** 4 – 8 ohms  
**Maximum power output:**  
52 W × 4 (at 4 ohms)

– Continued on next page –

US, Canadian model  
FM/AM COMPACT DISC PLAYER  
Russian model  
FM/MW/LW COMPACT DISC PLAYER

## General

### Outputs:

- Audio outputs terminal (front, rear/sub switchable) (US, CND model)
- Audio outputs terminal (rear/sub switchable) (RU model)
- Power antenna (aerial) relay control terminal
- Power amplifier control terminal

### Inputs:

- Telephone ATT control terminal (RU model)
- Remote controller input terminal
- Antenna (aerial) input terminal
- AUX input jack (stereo mini jack)
- USB signal input connector

**Power requirements:** 12 V DC car battery (negative ground (earth))

**Dimensions:** Approx. 178 × 50 × 179 mm (7 1/8 × 2 × 7 1/8 in.) (w/h/d)

### Mounting dimensions:

- Approx. 182 × 53 × 162 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)

**Mass:** Approx. 1.2 kg (2 lb. 11 oz.)

### Supplied accessories:

- Card remote commander: RM-X151 (US, CND model)
- Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

### • Abbreviation

- CND : Canadian model
- RU : Russian model

## 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

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

## NOTES ON CHIP COMPONENT REPLACEMENT

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

## TEST DISCS

Please use the following test discs for the check on the CD section.

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

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

## CAUTION

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

If the optical pick-up block is defective, please replace the whole optical pick-up block.

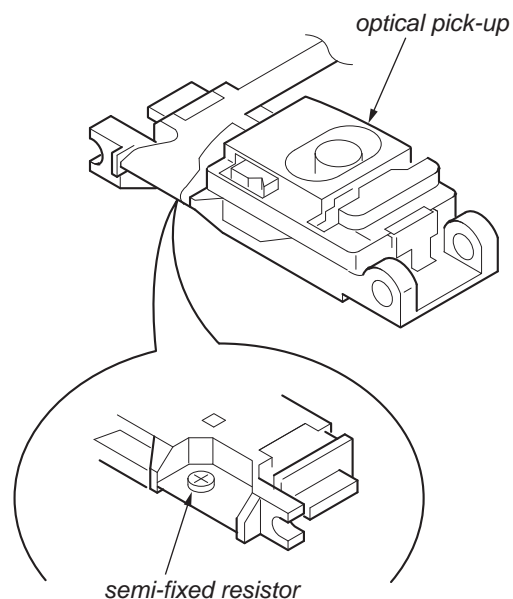
Never turn the semi-fixed resistor located at the side of optical pick-up block.

## SAFETY-RELATED COMPONENT WARNING!

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

## ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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



Russian model:



This label is located on the bottom of the chassis.

**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.

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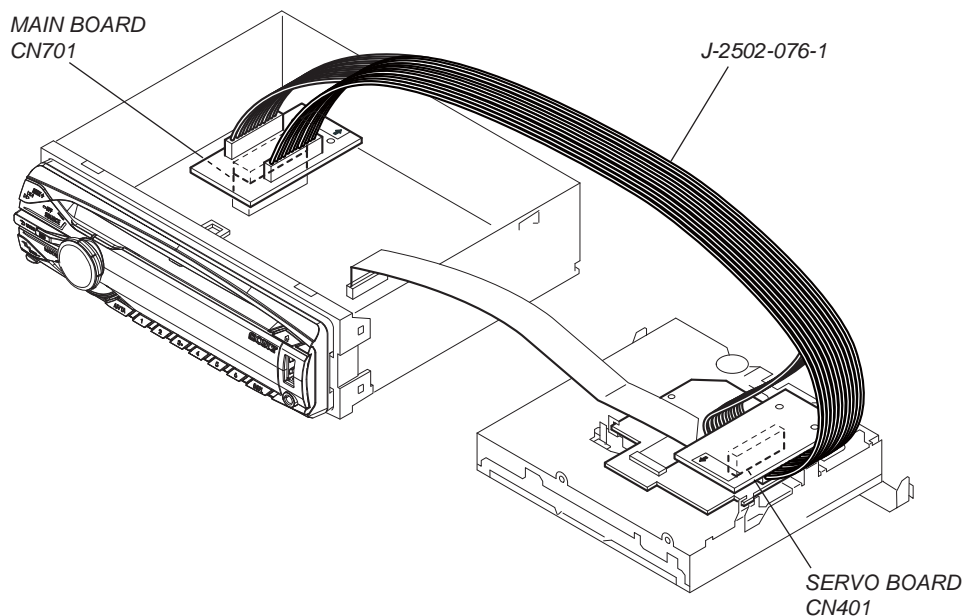
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## SECTION 1 SERVICE NOTE

### EXTENSION CABLE AND SERVICE POSITION

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

- Connect the MAIN board (CN701) and the SERVO board (CN401) with the extension cable (Part No. J-2502-076-1).



### NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN902)

To replace the USB connector requires alignment.

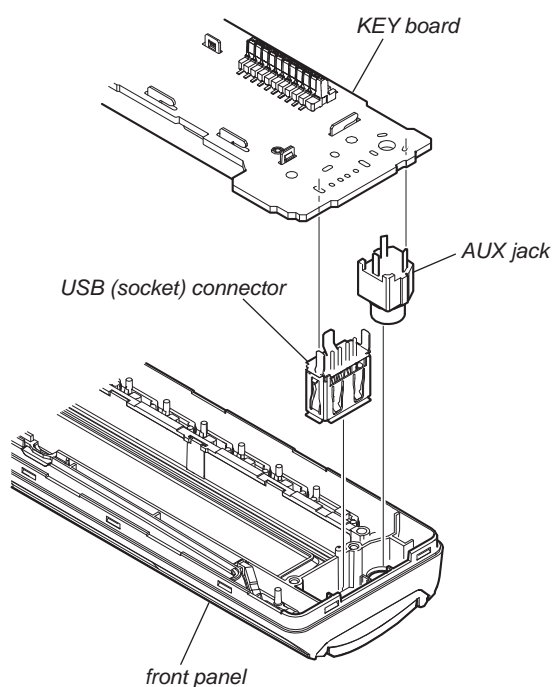
1. Insert the USB connector into the front panel.
2. Place the KEY board on the front panel and align the terminals of the USB connector with the holes in the KEY board.
3. Solder the four terminals of the connector.

### NOTE FOR REPLACEMENT OF THE SERVO BOARD

When repairing, the complete SERVO board (Part No. A-1768-002-A) should be replaced since any parts in the SERVO board cannot be repaired.

### NOTE FOR THE 20-PIN CONNECTOR (CN901)

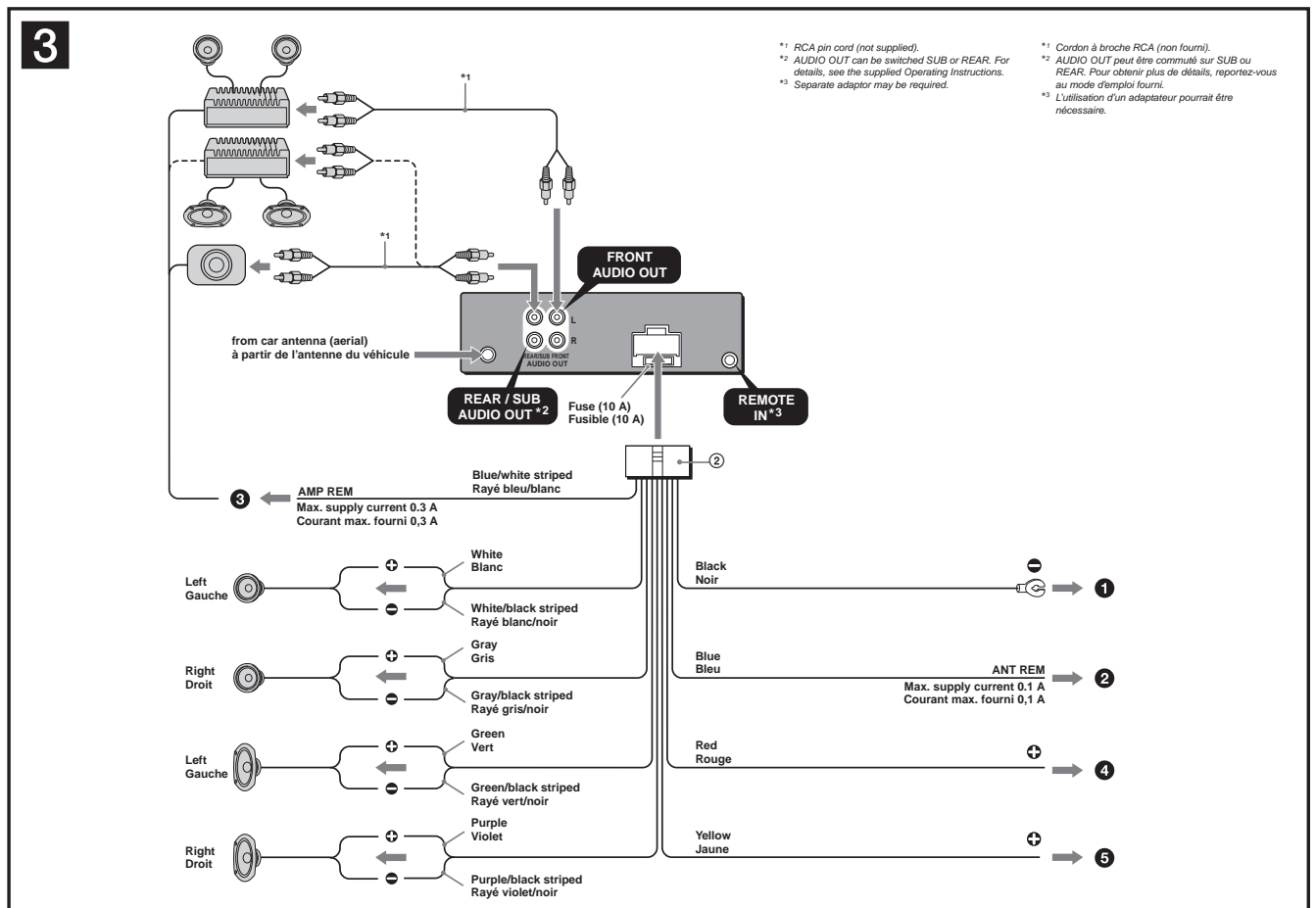
Do not use alcohol to clean the 20-pin connector (CN901) connecting the front panel with the main body. Do not touch the connector directly with your bare hand. Poor contact may be caused.



SECTION 2  
GENERAL

This section is extracted from instruction manual.

- CONNECTIONS
- US, Canadian model



Connection diagram 3

- To a metal surface of the car**  
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.
- To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster**  
Notes  
• It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).  
• When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."
- To AMP REMOTE IN of an optional power amplifier**  
This connection is only for amplifiers. Connecting any other system may damage the unit.
- To the +12 V power terminal which is energized in the accessory position of the ignition switch**  
Notes  
• If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.  
Be sure to connect the black ground (earth) lead to a metal surface of the car first.  
• When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."
- To the +12 V power terminal which is energized at all times**  
Be sure to connect the black ground (earth) lead to a metal surface of the car first.

**Notes on the control and power supply leads**

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

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

**Notes on speaker connection**

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the ground (earth) lead of this unit to the negative (-) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

**Note on connection**  
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Schéma de raccordement 3

- À un point métallique de la voiture**  
Branchez d'abord le câble de mise à la masse noir et, ensuite, les câbles d'alimentation jaune et rouge.
- Au câble de commande d'antenne électrique ou au câble d'alimentation de l'amplificateur d'antenne**  
Remarques  
• Il n'est pas nécessaire de raccorder ce câble s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.  
• Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière latérale, voir « Remarques sur les câbles de commande et d'alimentation ».
- Au niveau de AMP REMOTE IN de l'amplificateur de puissance en option**  
Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.
- À la borne d'alimentation +12 V qui est alimentée quand la clé de contact est sur la position accessoires**  
Remarques  
• Si il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence. Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.  
• Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière latérale, voir « Remarques sur les câbles de commande et d'alimentation ».
- À la borne d'alimentation +12 V qui est alimentée en permanence**  
Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.

**Remarques sur les câbles de commande et d'alimentation**

- Le câble de commande d'antenne électrique (bleu) fournit une alimentation de +12 V CC lorsque vous mettez la radio en marche.
- Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière latérale, raccordez le câble de commande d'antenne électrique (bleu) ou le câble d'alimentation des accessoires (rouge) à la borne d'alimentation de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre détaillant.
- Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.

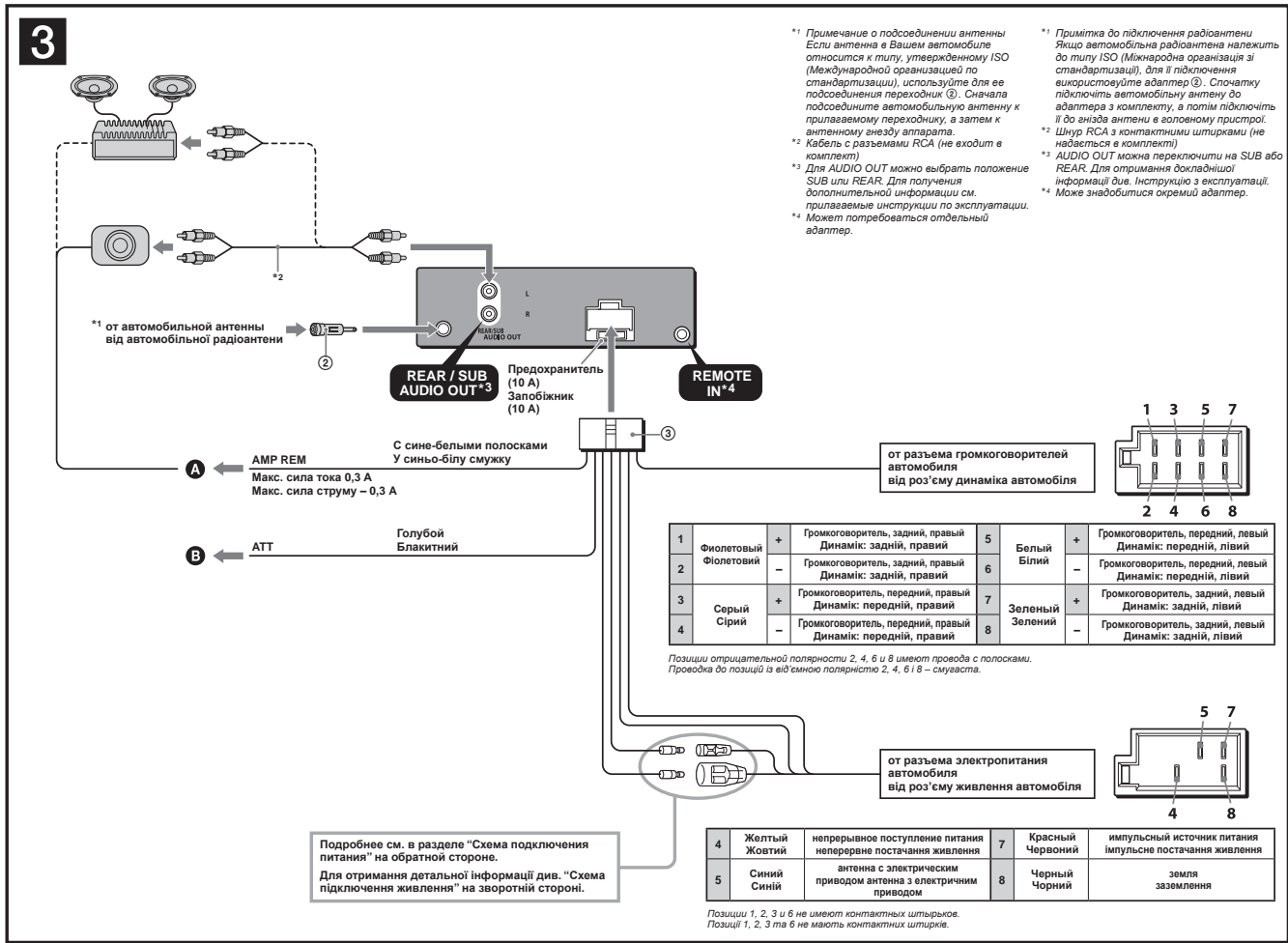
**Raccordement pour la conservation de la mémoire**  
Lorsque le câble d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

**Remarques sur le raccordement des haut-parleurs**

- Avant de raccorder les haut-parleurs, éteignez l'appareil.
- Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité électrique adéquate pour éviter de les endommager.
- Ne raccordez pas les bornes du système de haut-parleurs au châssis de la voiture et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.
- Ne raccordez pas le câble de mise à la masse de cet appareil à la borne négative (-) du haut-parleur.
- N'essayez pas de raccorder les haut-parleurs en parallèle.
- Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.
- Pour éviter tout problème de fonctionnement, n'utilisez pas les câbles des haut-parleurs intégrés installés dans votre voiture si l'appareil possède un câble négatif commun (-) pour les haut-parleurs droit et gauche.
- Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.

**Remarque sur le raccordement**  
Si le haut-parleur et l'amplificateur ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les haut-parleurs et l'amplificateur sont bien raccordés.

## • CONNECTIONS • Russian model



### Схема подсоединения 3

- A** Подключение к входу AMP REMOTE IN дополнительного усилителя мощности  
Этот вариант подключения используется только для усилителей. Подключение любой другой системы может привести к повреждению аппарата.
- B** К интерфейсному кабелю автомобильного телефона

#### Предостережение

Если Вы используете антенну с электрическим приводом без релеиной блоки, подсоединение этого аппарата посредством прилагаемого провода питания (3) может привести к повреждению антенны.

- О проводах управления и питания**
- При включении тюнера, а также использовании функций AF (Альтернативные частоты) или TA (Сообщения о текущей ситуации на дорогах) по проводу питания приемной антенны (синий) подается +12 В постоянного тока.
  - Если на заднем/боксовом стекле автомобиля установлена встроенная антенна диапазона FM/MW/LW, подсоедините провод управления антенной с электрическим приводом (синий) или провод питания аппарата (красный) к клемме питания существующего усилителя антенны. Чтобы получить дополнительные сведения, обратитесь к своему дилеру.
  - Антенна с электрическим приводом, не снабженная релеиной блоки, с этим аппаратом использоваться не может.

**Подсоединение для поддержки памяти**  
Если в аппарате подсоединен желтый электрический провод, блок памяти будет постоянно получать питание даже при выключенном зажигании.

- Примечания относительно подсоединения громкоговорителей**
- Прежде чем подсоединять громкоговорители, выключите аппарат.
  - Используйте громкоговорители с полным сопротивлением 4 - 8 Ом, обладающие способностью принимать достаточно мощный сигнал. В противном случае они могут быть повреждены.
  - Не подсоединяйте контактные гнезда громкоговорителей к шасси автомобиля и не соединяйте гнезда правого громкоговорителя с гнездами левого.
  - Не подсоединяйте провод заземления аппарата к отрицательному (-) контакту громкоговорителя.
  - Не пытайтесь подсоединить громкоговорители параллельно.
  - Подсоединять можно только пассивные громкоговорители. Подсоединение активных громкоговорителей (со встроенным усилителем) к гнездам для громкоговорителей может привести к повреждению аппарата.
  - Во избежание неправильной работы аппарата не используйте встроенные в автомобиль провода громкоговорителей, если используется общий отрицательный провод (-) для правого и левого громкоговорителей.
  - Не подсоединяйте друг к другу провода громкоговорителей аппарата.

**Примечание относительно подсоединения**  
Если громкоговоритель и усилитель подсоединены неправильно, на дисплее отобразится надпись "FAILURE". В этом случае проверьте правильность подсоединения громкоговорителя и усилителя.

### Схема підключення 3

- A** Для AMP REMOTE IN додаткового підсилювач потужності  
Цей варіант підключення використовується лише для підсилювачів. Підключення будь-якої іншої системи може пошкодити пристрій.
- B** Для інтерфейсного кабелю телефону в автомобілі

#### Увага!

Якщо антена з електроприводом не має релеиної стійки, підключення цього пристрою за допомогою кабелю живлення з комплекту (3) може пошкодити антену.

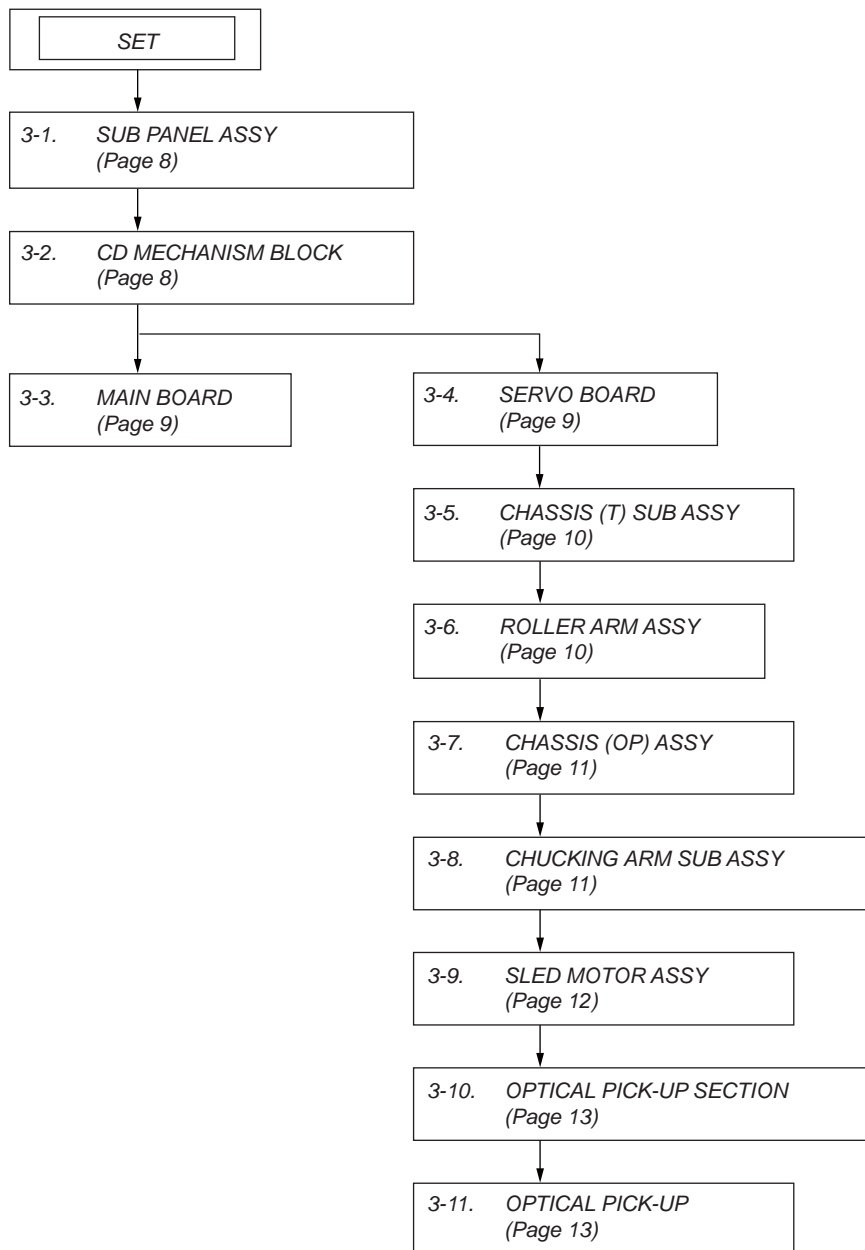
- Примітка щодо кабелю керування та кабелю постачання живлення**
- Кабель керування антеною з електроприводом (синій) постачає +12 В постійної напруги за виконання тюнера або під час активації функції AF (Alternative Frequency) (альтернативна частота) або TA (Traffic Announcement) (повідомлення про ситуацію на дорогах).
  - Якщо ваш автомобіль оснащено вбудованою антеною FM/MW/LW на задньому/боксовому склі, підключіть кабель керування антеною (синій) або додатковий кабель підключення живлення (червоний) до роз'єму живлення наявної антенної підсилювача. Для отримання детальної інформації зверніться до свого дилера з продажу.
  - Антену з електроприводом без релеиної стійки не можна використовувати з цим пристроєм.

**Підключення запам'ятовувальної системи**  
Якщо підключено жовтий кабель постачання живлення, живлення завжди постачатиметься до запам'ятовувальної схеми навіть за виконаного запалення.

- Примітка щодо підключення динаміка**
- Перед підключенням динаміка вимкніть пристрій.
  - Використовуйте динаміки з повним опором від 4 до 8 Ом і з відповідною припустимою вхідною потужністю, щоб уникнути їх пошкодження.
  - Не підключайте роз'єми динаміка до корпусу автомобіля і не з'єднуйте роз'єми правого і левого динаміка.
  - Не підключайте заземлений кабель цього пристрою до від'ємного (-) роз'єму динаміка.
  - Не намагайтеся підключити динаміки паралельно.
  - Підключайте лише пасивні динаміки. Підключення активних динаміків (з вбудованим підсилювачем) до роз'єму динаміка може пошкодити пристрій.
  - Щоб уникнути несправної роботи пристрою, не використовуйте вбудований кабель динаміка, встановлений в автомобілі, якщо пристрій використовує спільно неавтогенний (-) кабель для правого та левого динаміків.
  - Не підключайте кабелі динаміка пристрою один до одного.
- Примітка щодо підключення**  
Якщо динамік і підсилювач не підключено належним чином, на дисплеї відобразиться «FAILURE» (помилка). У такому випадку переконайтеся, що динамік і підсилювач підключено належним чином.

## SECTION 3 DISASSEMBLY

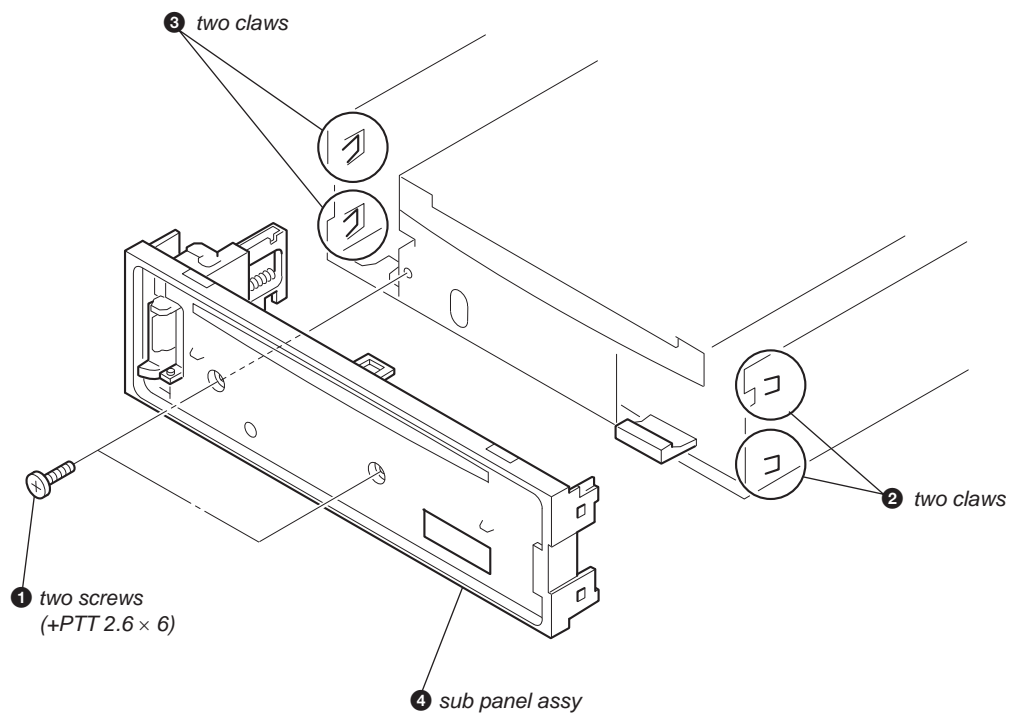
- This set can be disassembled in the order shown below.



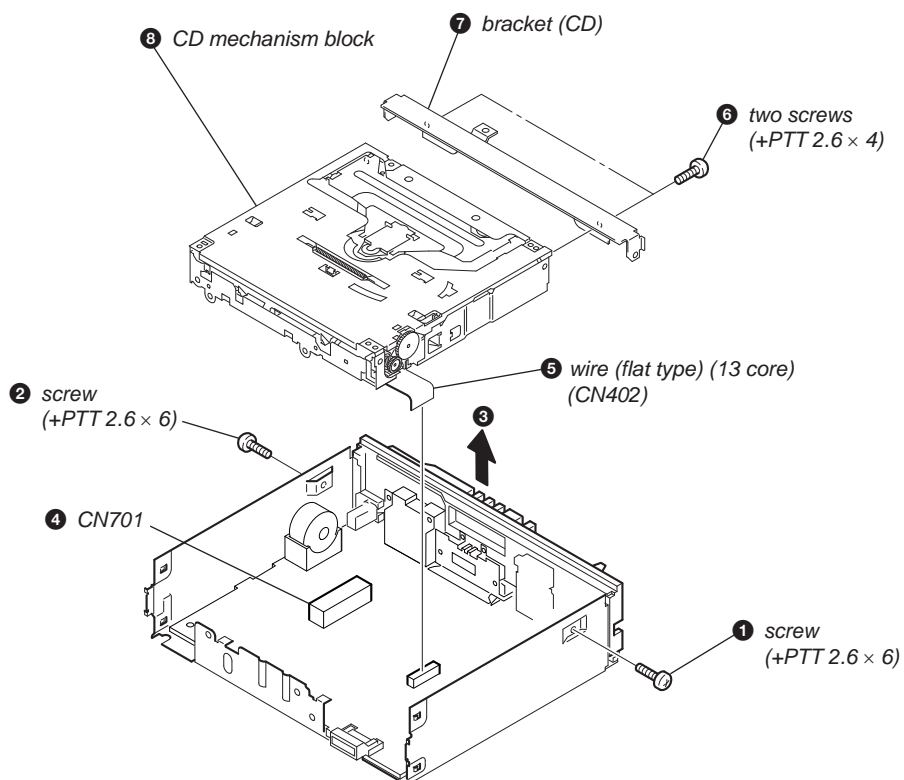
# CDX-GT450U/GT454US

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

## 3-1. SUB PANEL ASSY

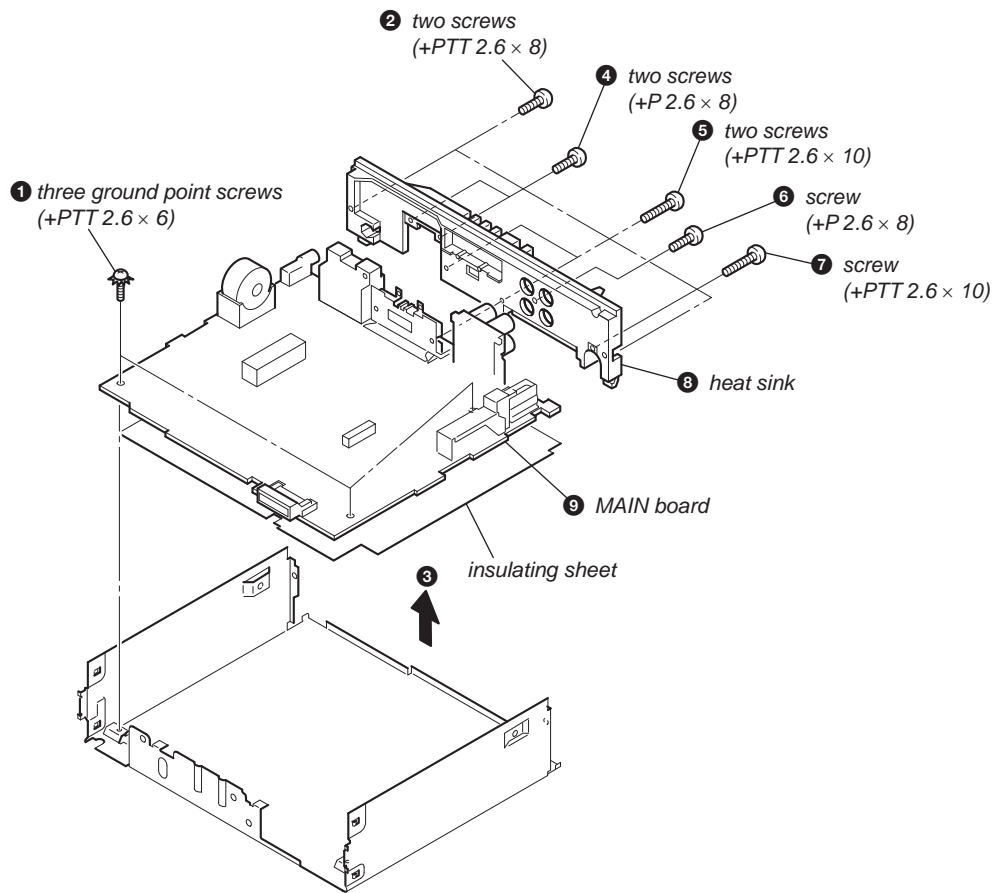


## 3-2. CD MECHANISM BLOCK

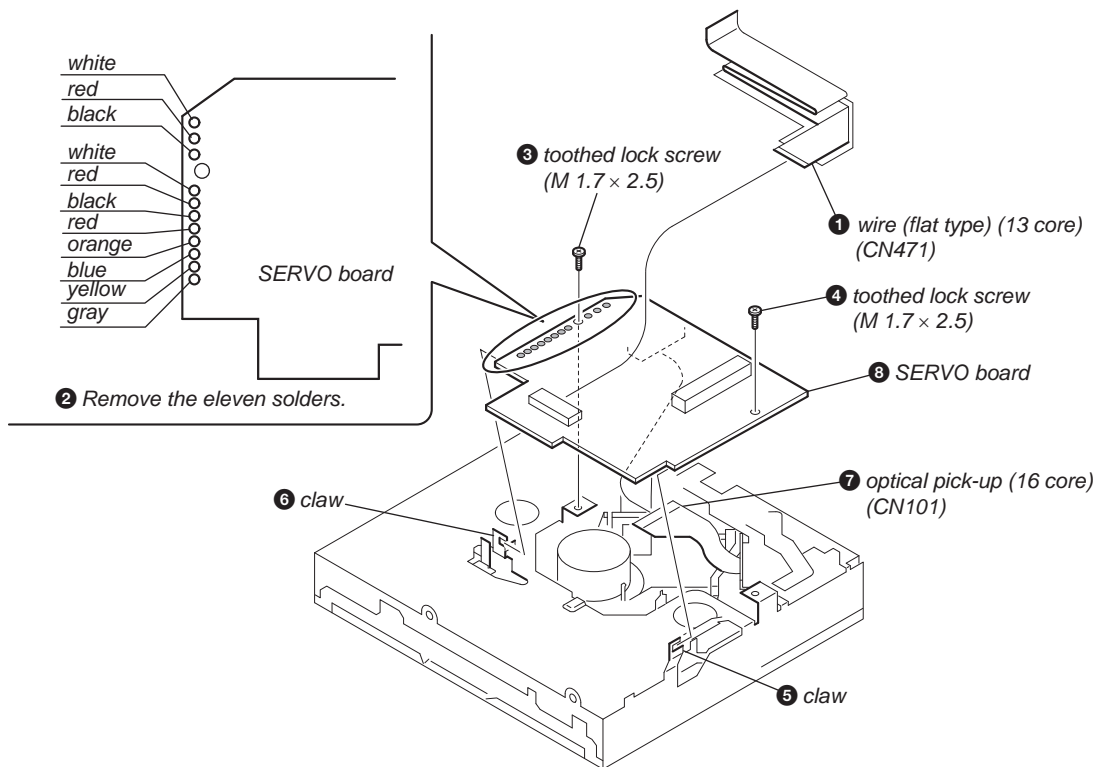




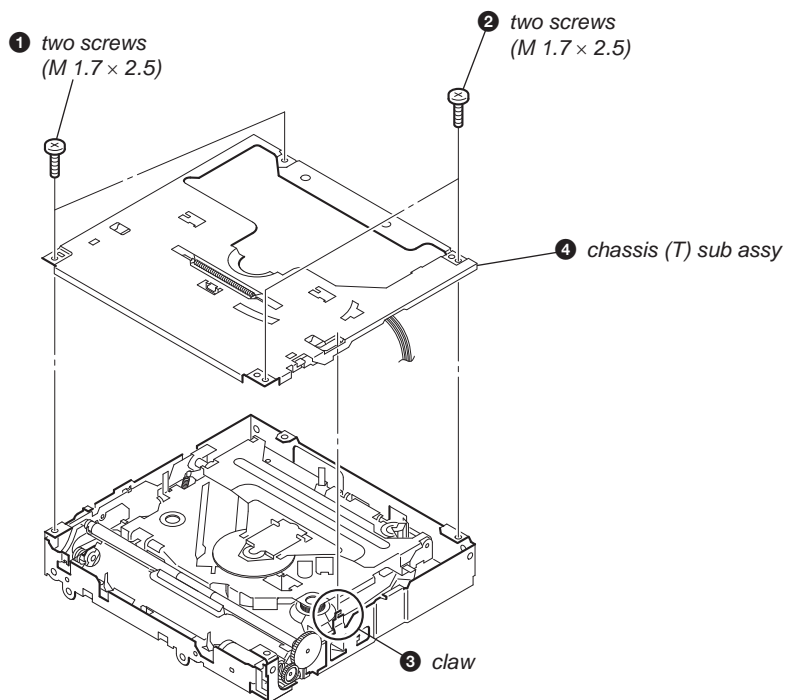
3-3. MAIN BOARD



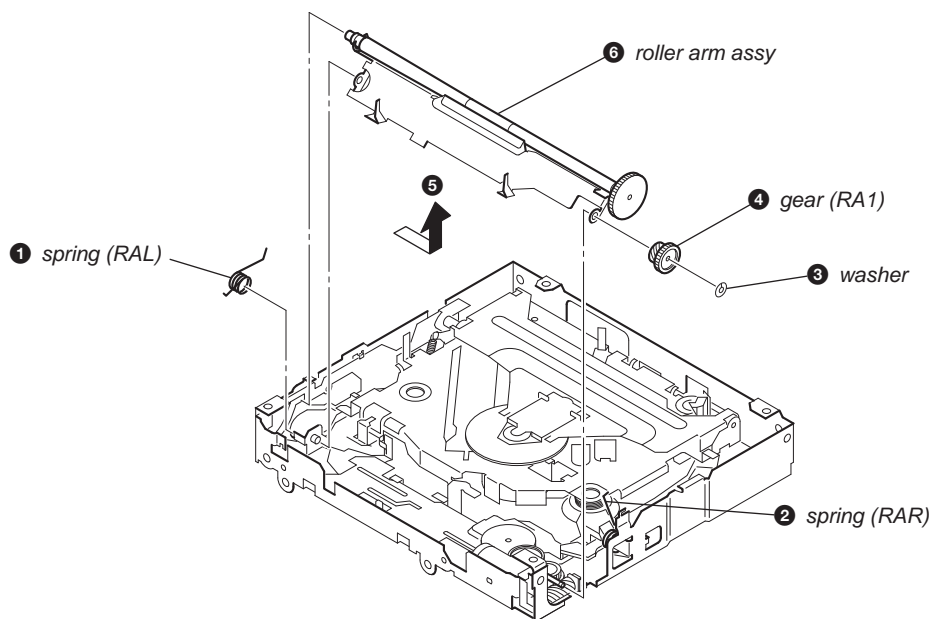
3-4. SERVO BOARD



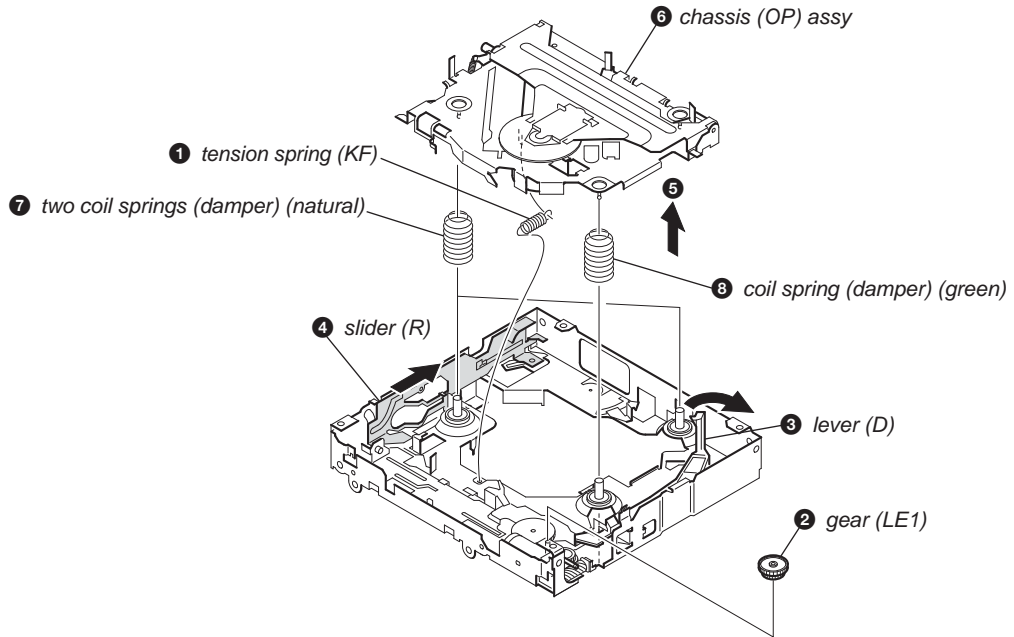
## 3-5. CHASSIS (T) SUB ASSY



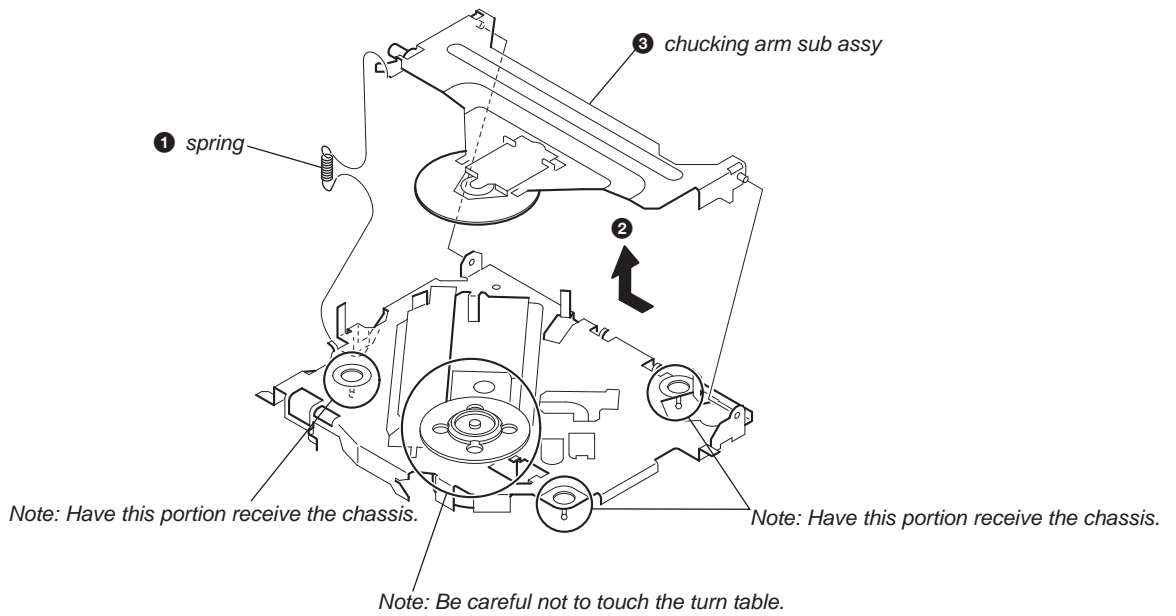
## 3-6. ROLLER ARM ASSY



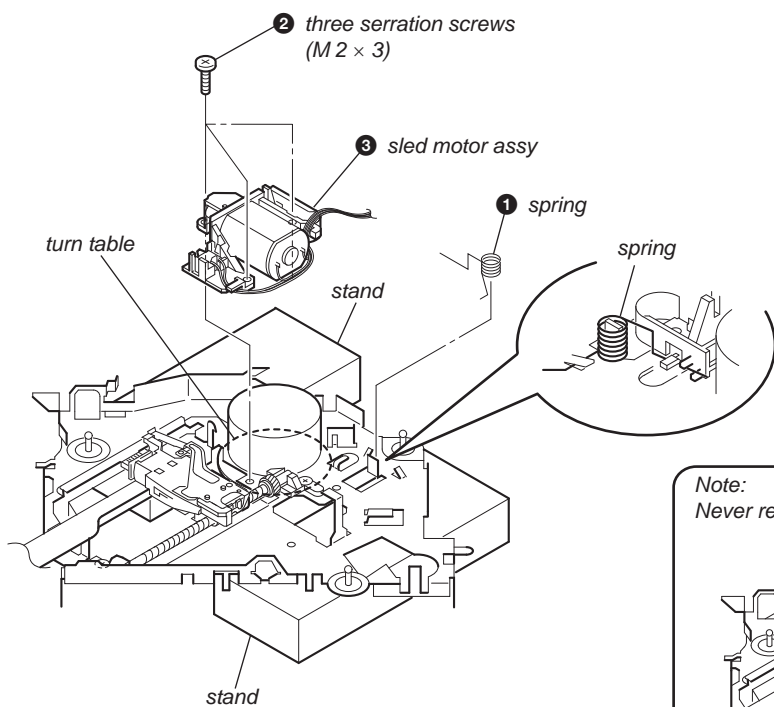
3-7. CHASSIS (OP) ASSY



3-8. CHUCKING ARM SUB ASSY

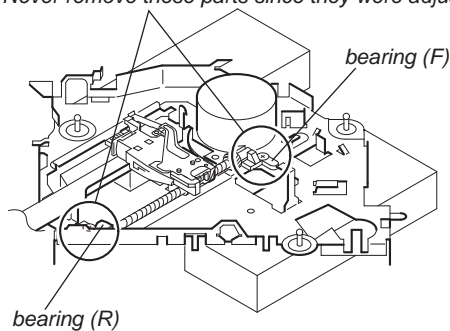


3-9. SLED MOTOR ASSY

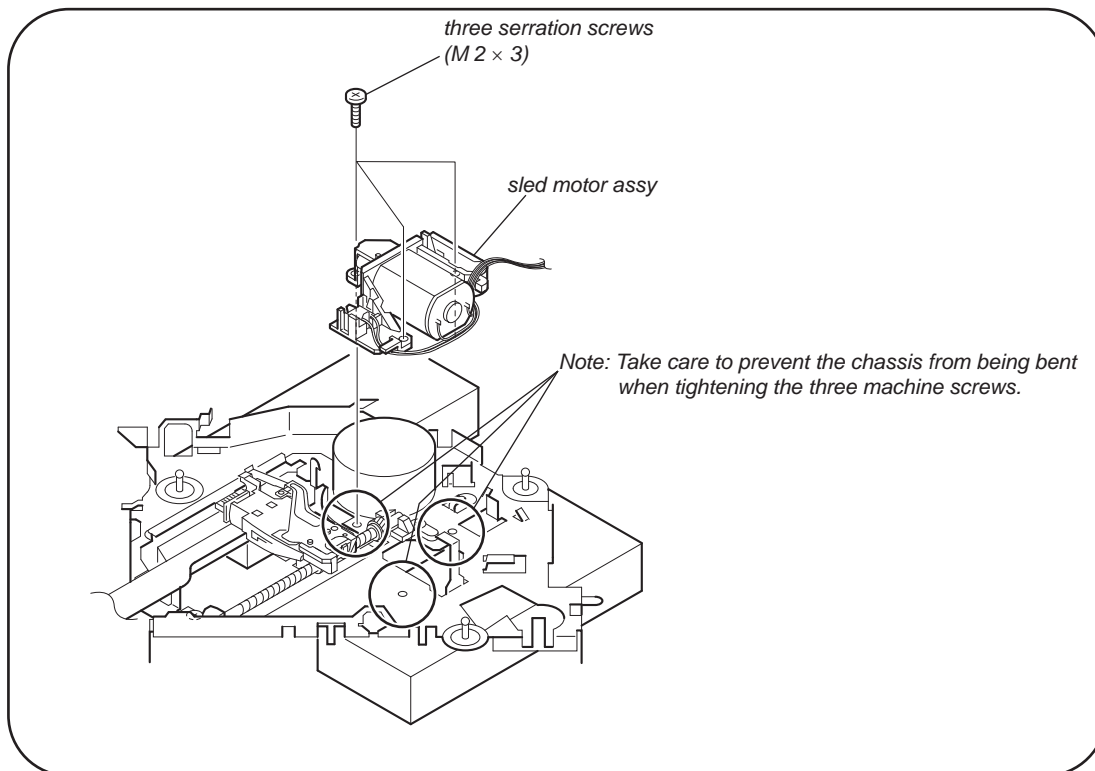


Note: Place the stand with care not to touch the turn table.

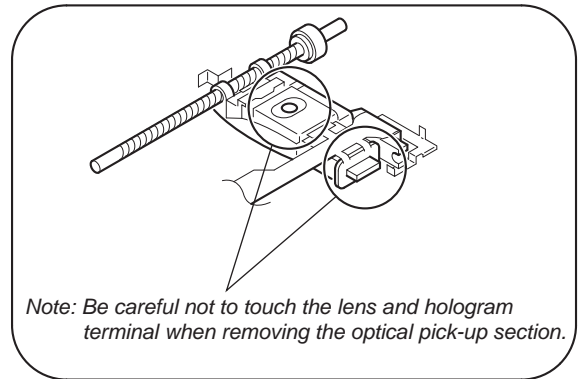
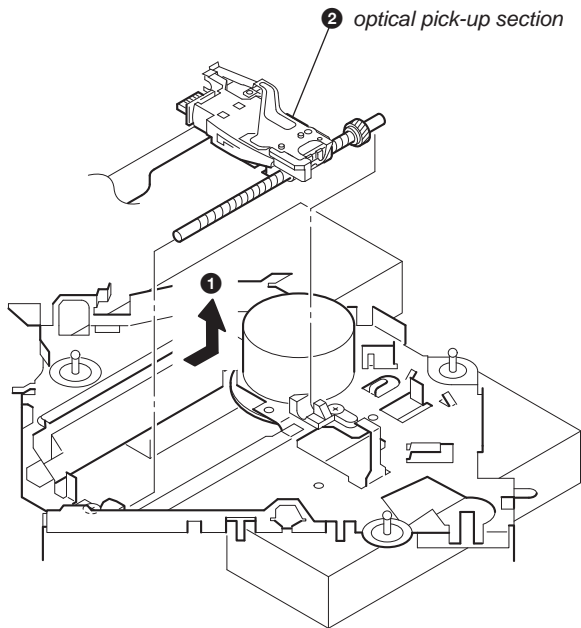
Note:  
Never remove these parts since they were adjusted.



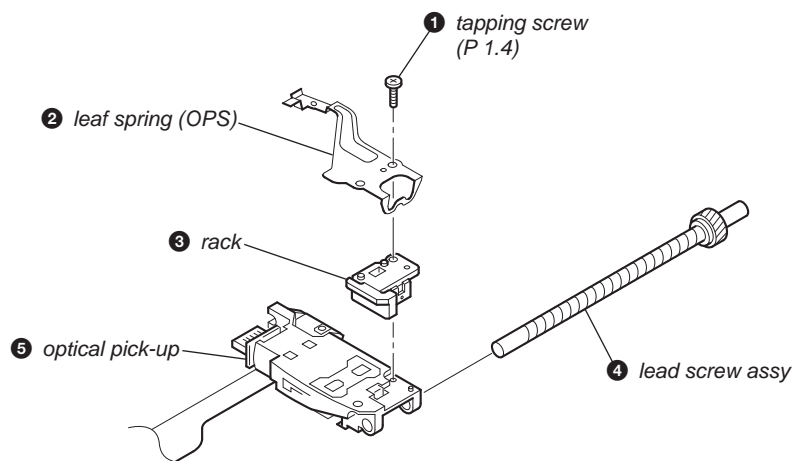
Note for Assembly



3-10. OPTICAL PICK-UP SECTION



3-11. OPTICAL PICK-UP



SECTION 4  
DIAGRAMS

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

**For Printed Wiring Boards.**

**Note:**

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

**Caution:**

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

**For Schematic Diagrams.**

**Note:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and 1/4 W or less unless otherwise specified.
- $\Delta$  : Internal component.
- : Panel designation.

**Note:**

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

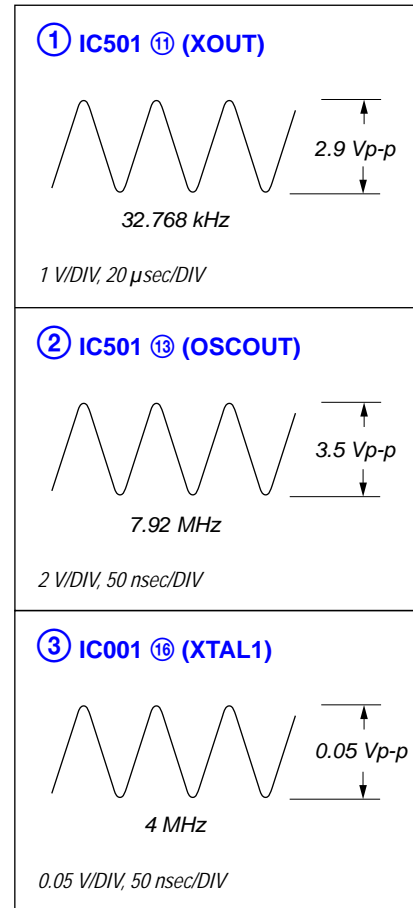
**Note:**

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

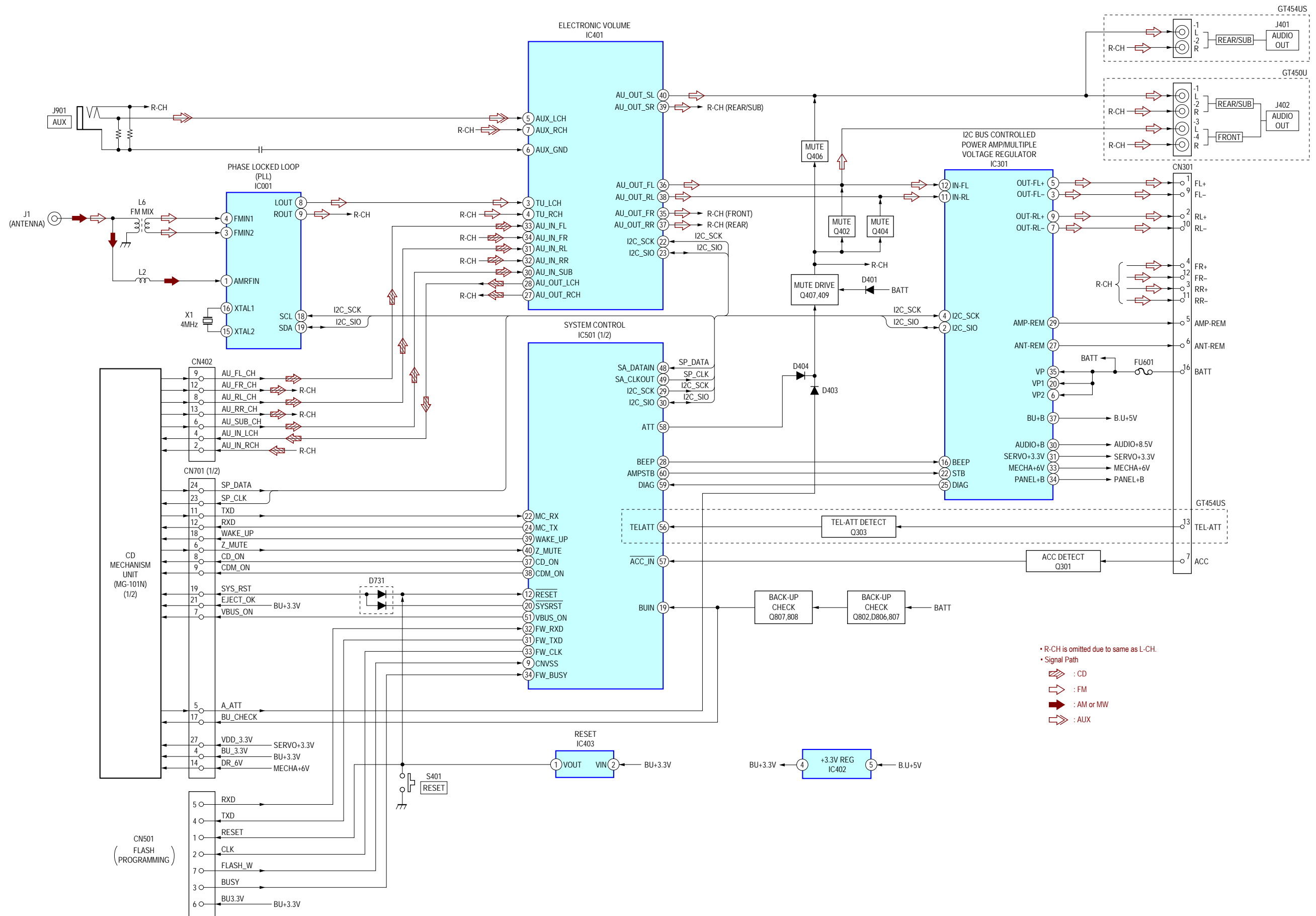
- : B+ Line.
- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.  
no mark : FM  
( ) : AM or MW  
< > : CD PLAY  
\* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.  
⇒ : CD  
⇒ : FM  
⇒ : AM or MW  
⇒ : AUX  
⇒ : USB

• Waveforms

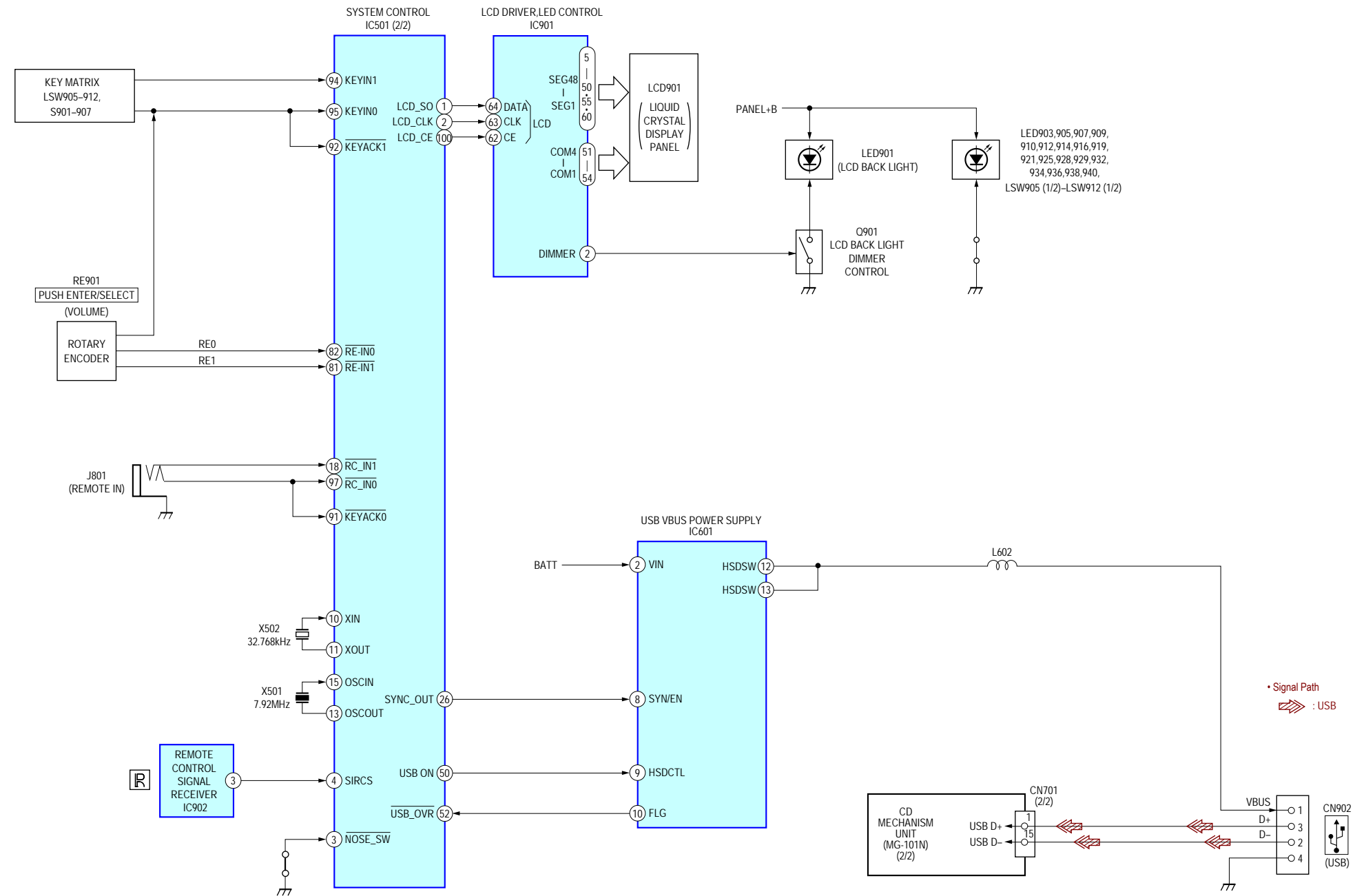
– MAIN Board –



4-1. BLOCK DIAGRAM – MAIN Section –

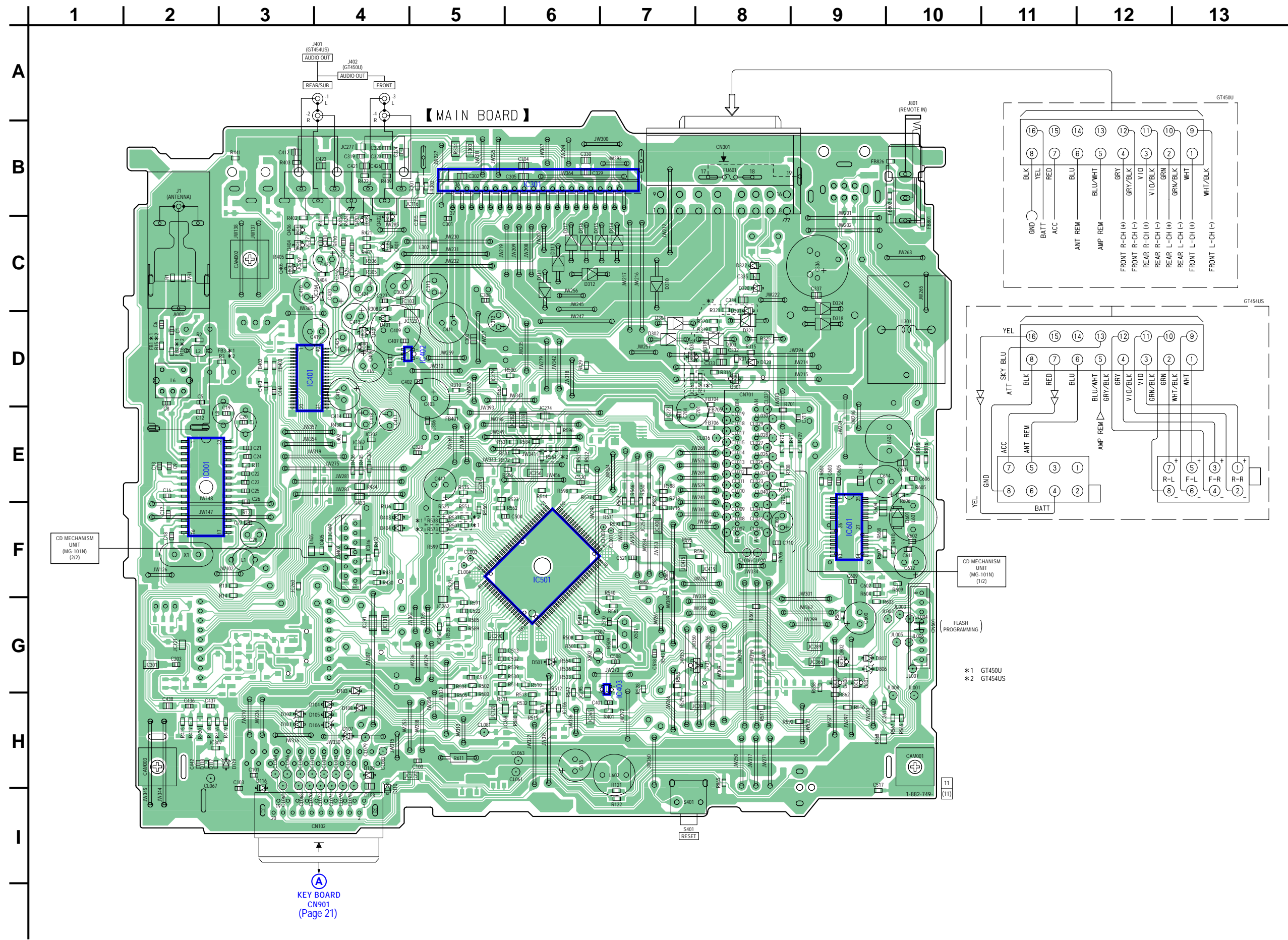


4-2. BLOCK DIAGRAM – DISPLAY Section –

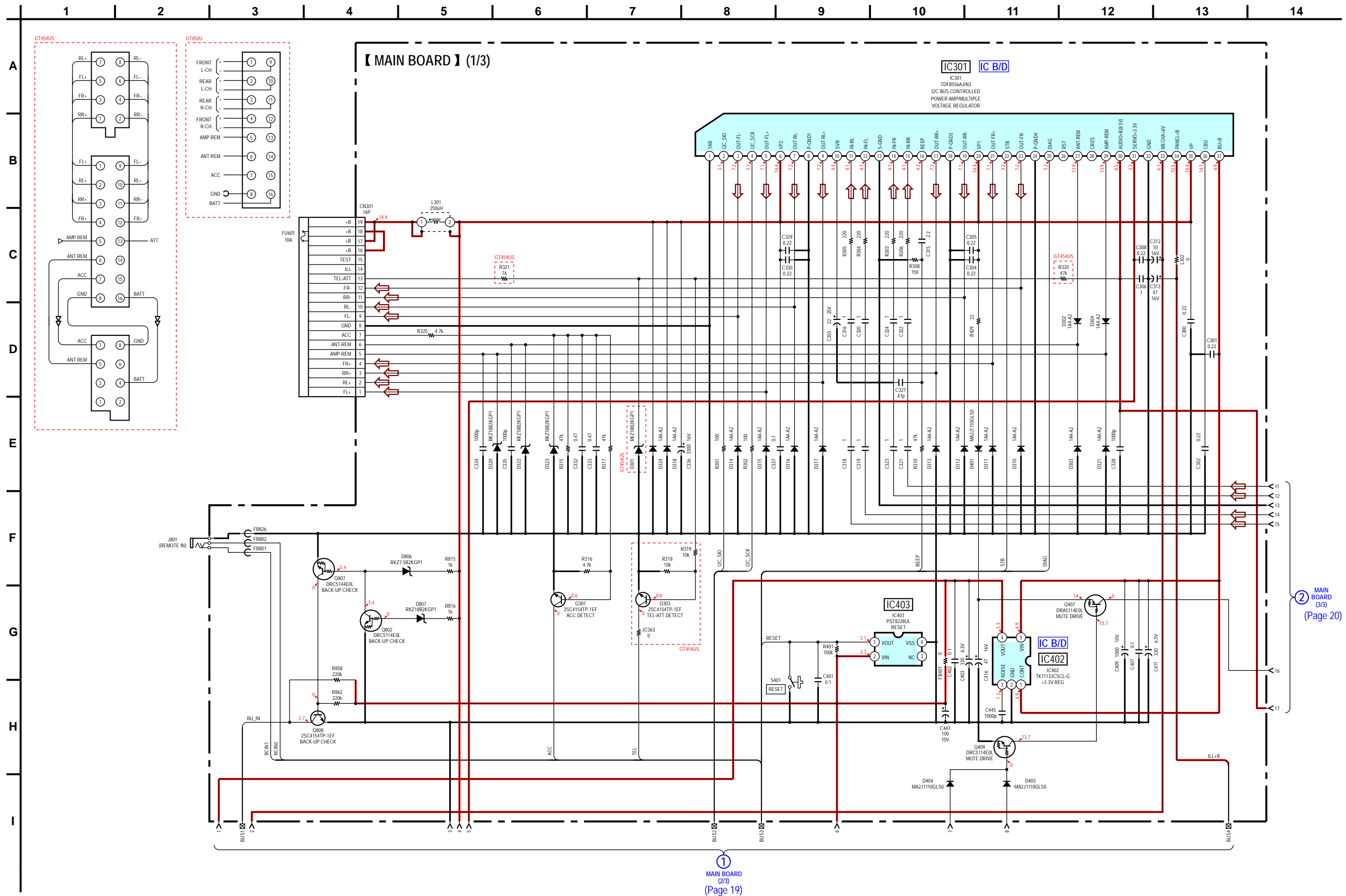




4-3. PRINTED WIRING BOARD – MAIN Section –  : Uses unleaded solder.



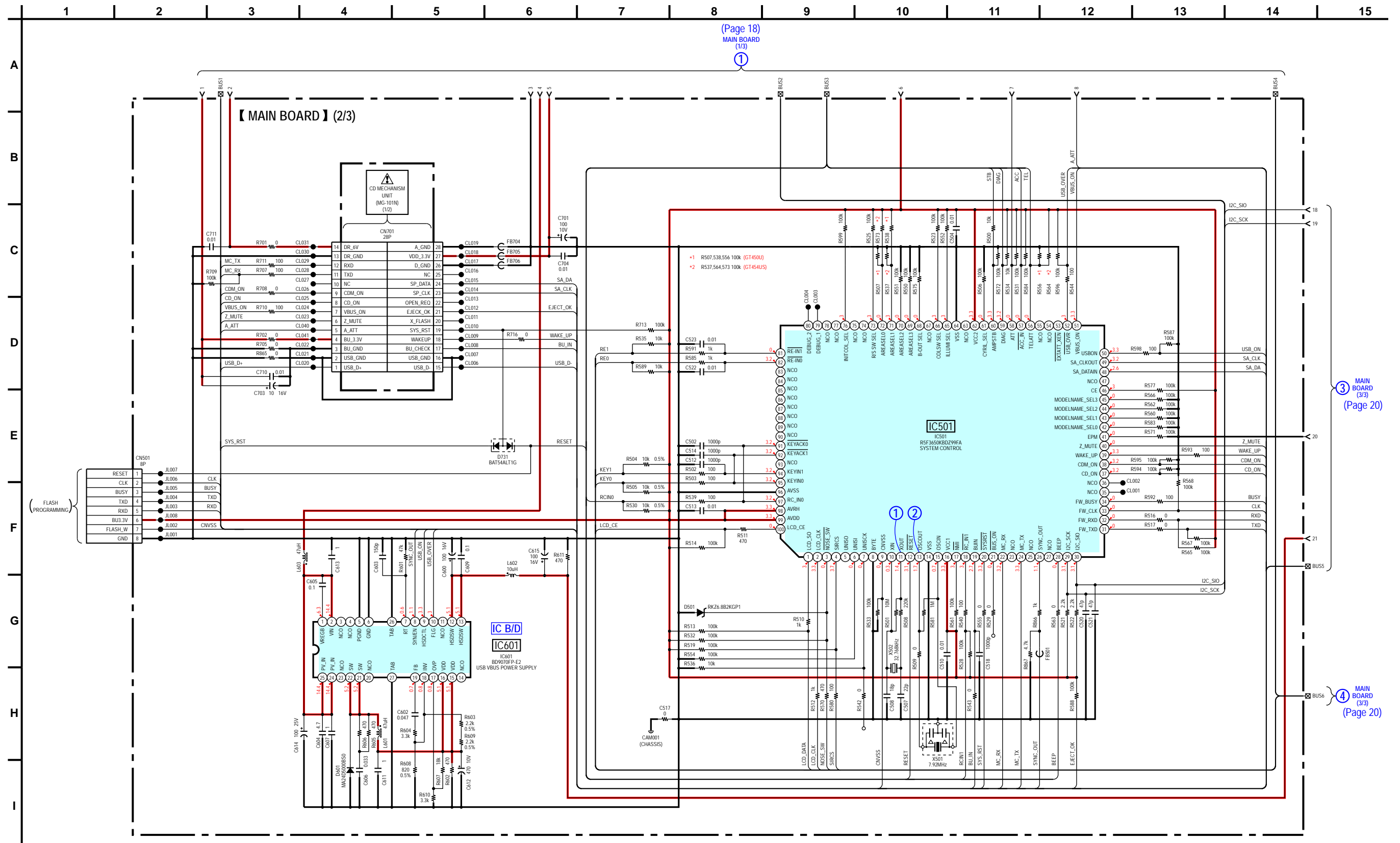
4-4. SCHEMATIC DIAGRAM – MAIN Section (1/3) – • See page 23 for IC Block Diagrams.



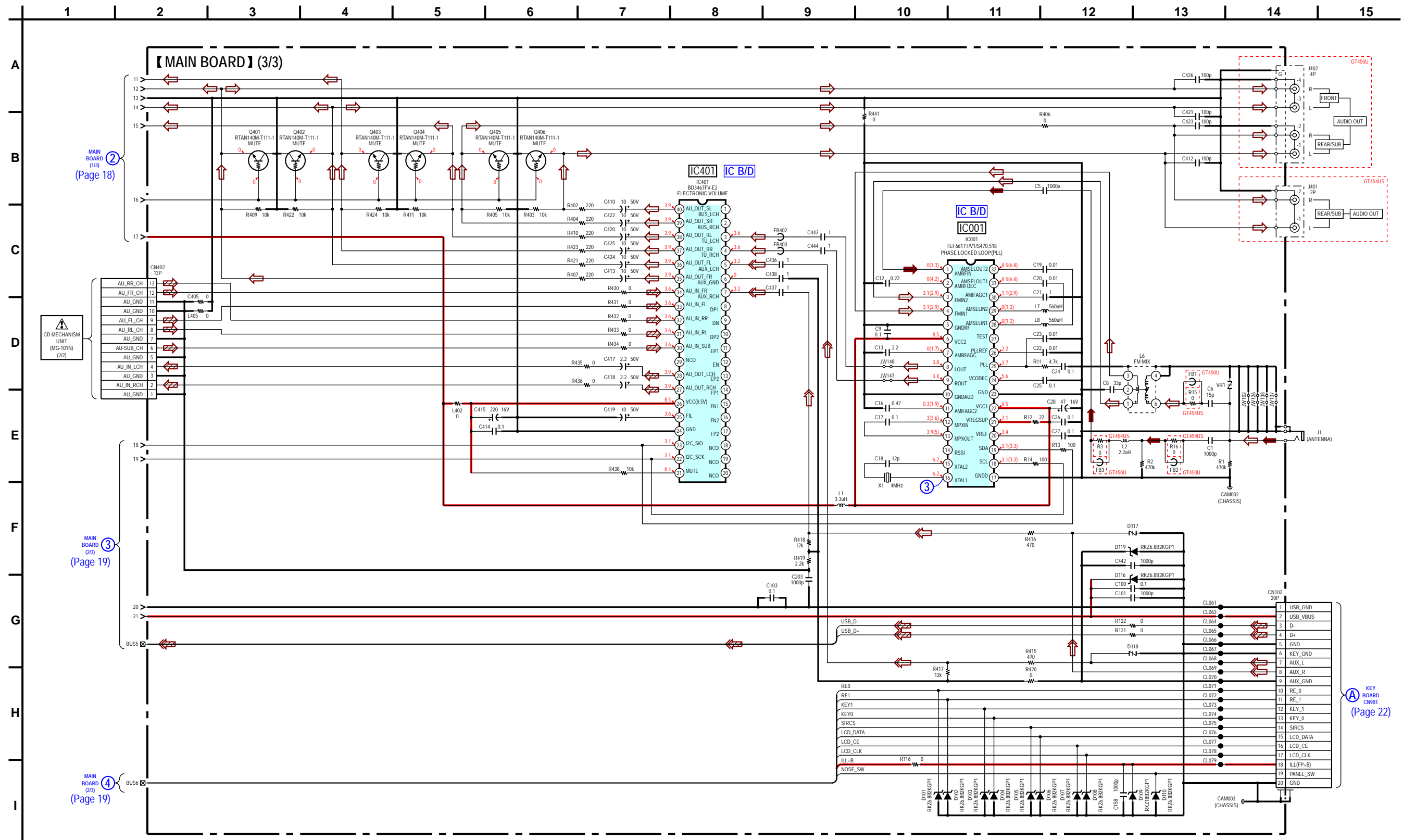
2 MAIN BOARD (3/3) (Page 20)

1 MAIN BOARD (2/3) (Page 19)

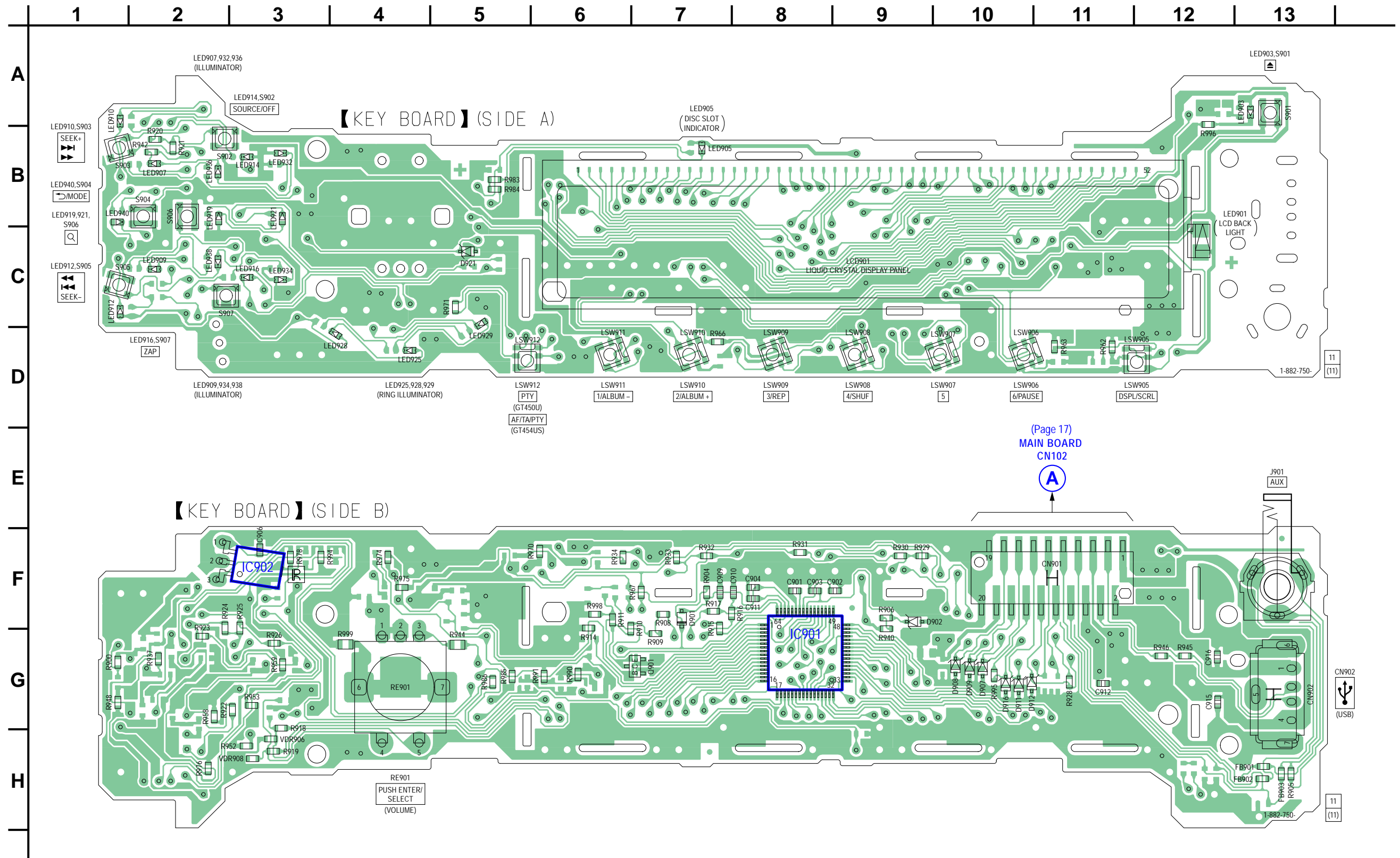
4-5. SCHEMATIC DIAGRAM – MAIN Section (2/3) – • See page 14 for Waveforms. • See page 24 for IC Block Diagrams. • See page 26 for IC Pin Function Description of IC501.



4-6. SCHEMATIC DIAGRAM – MAIN Section (3/3) – • See page 14 for Waveforms. • See page 24 for IC Block Diagrams.



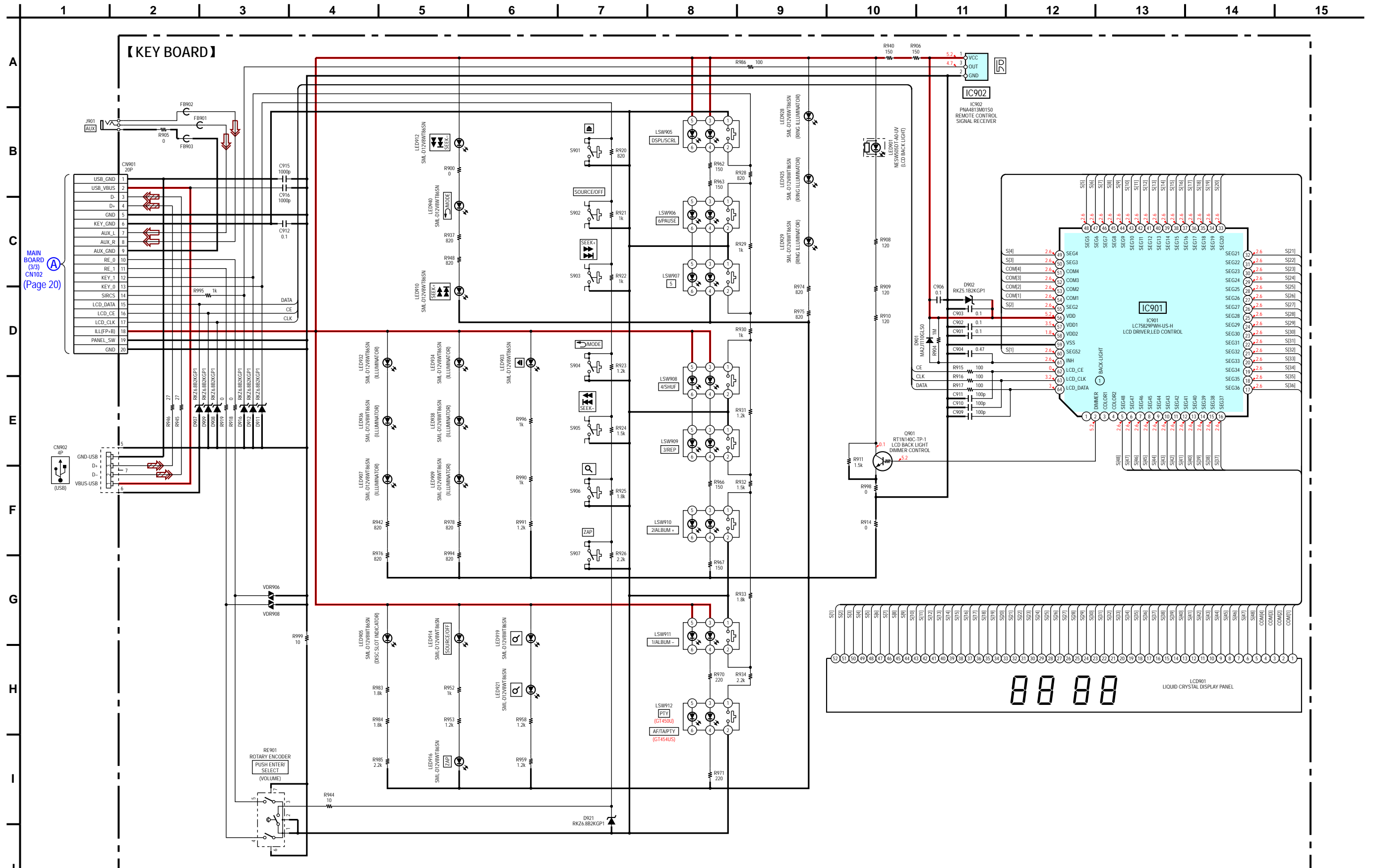
4-7. PRINTED WIRING BOARD – KEY Section –  : Uses unleaded solder.



(Page 17)  
MAIN BOARD  
CN102

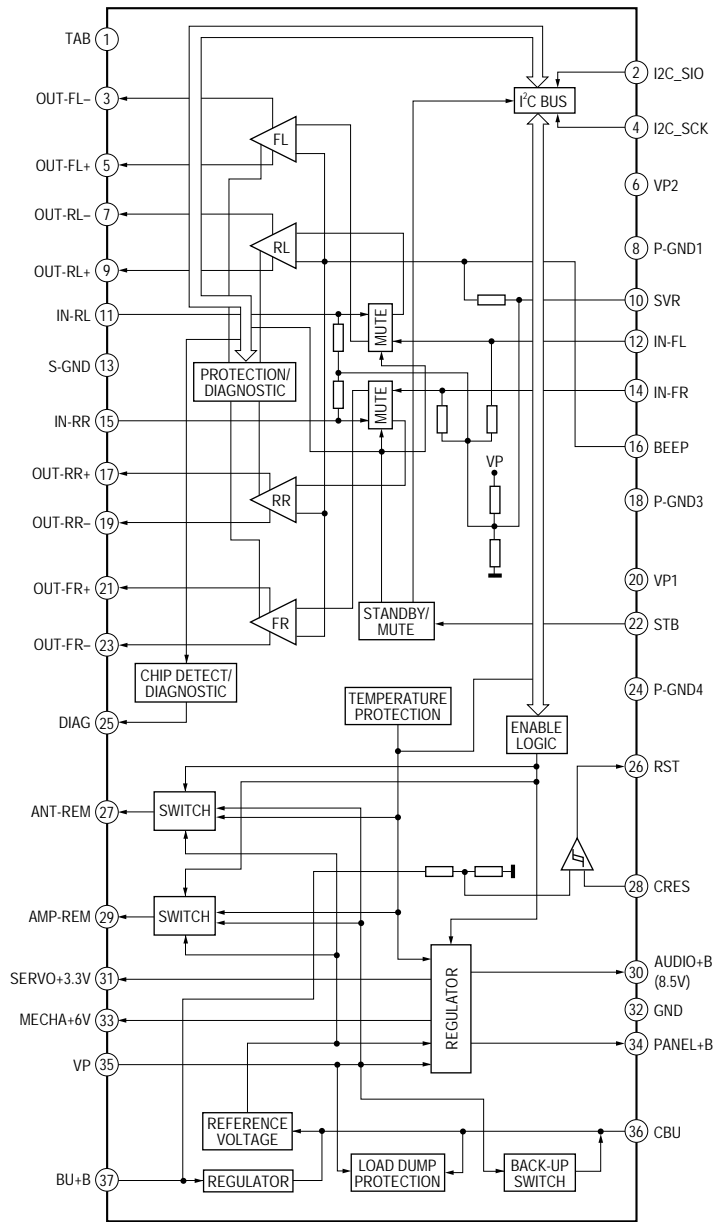
A

4-8. SCHEMATIC DIAGRAM – KEY Section –

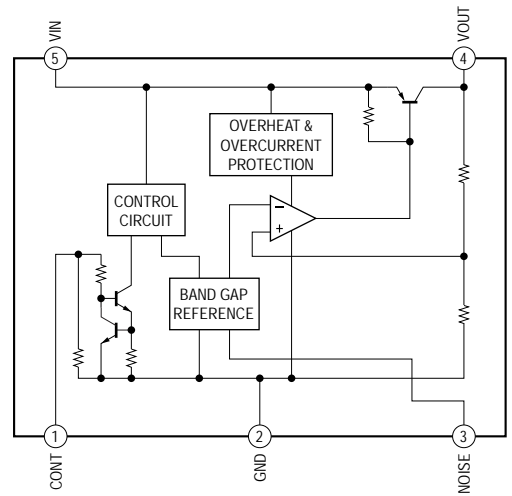


• IC Block Diagrams

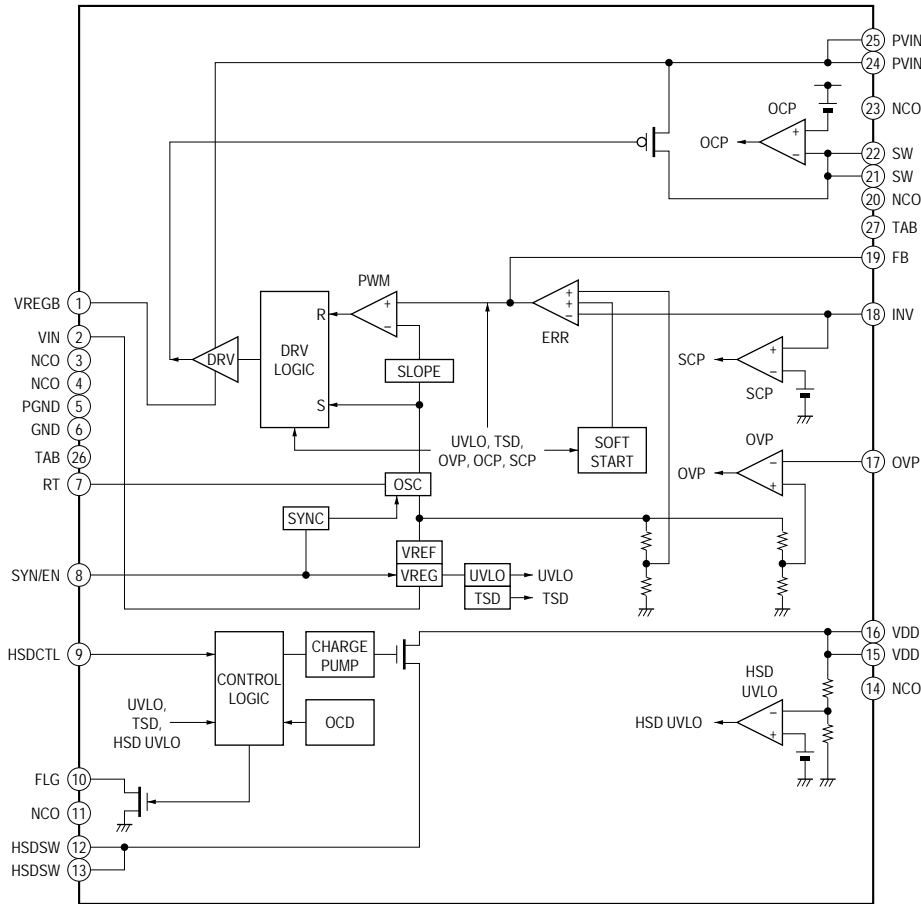
IC301 TDF8556AJ/N3 (MAIN Board (1/3))



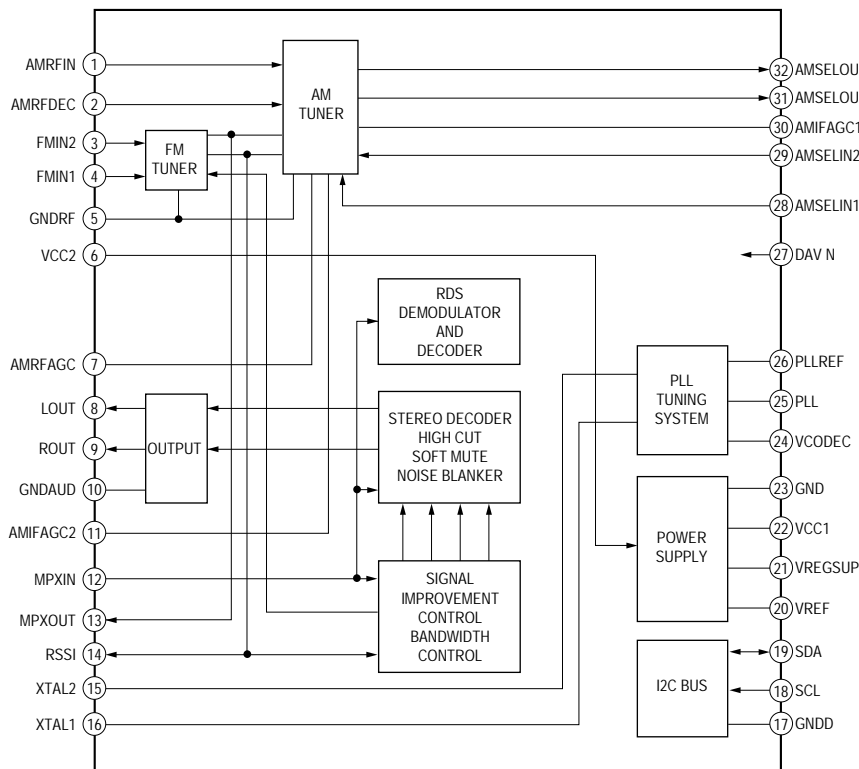
IC402 TK11133CSCL-G (MAIN Board (1/3))



IC601 BD9070FP-E2 (MAIN Board (2/3))

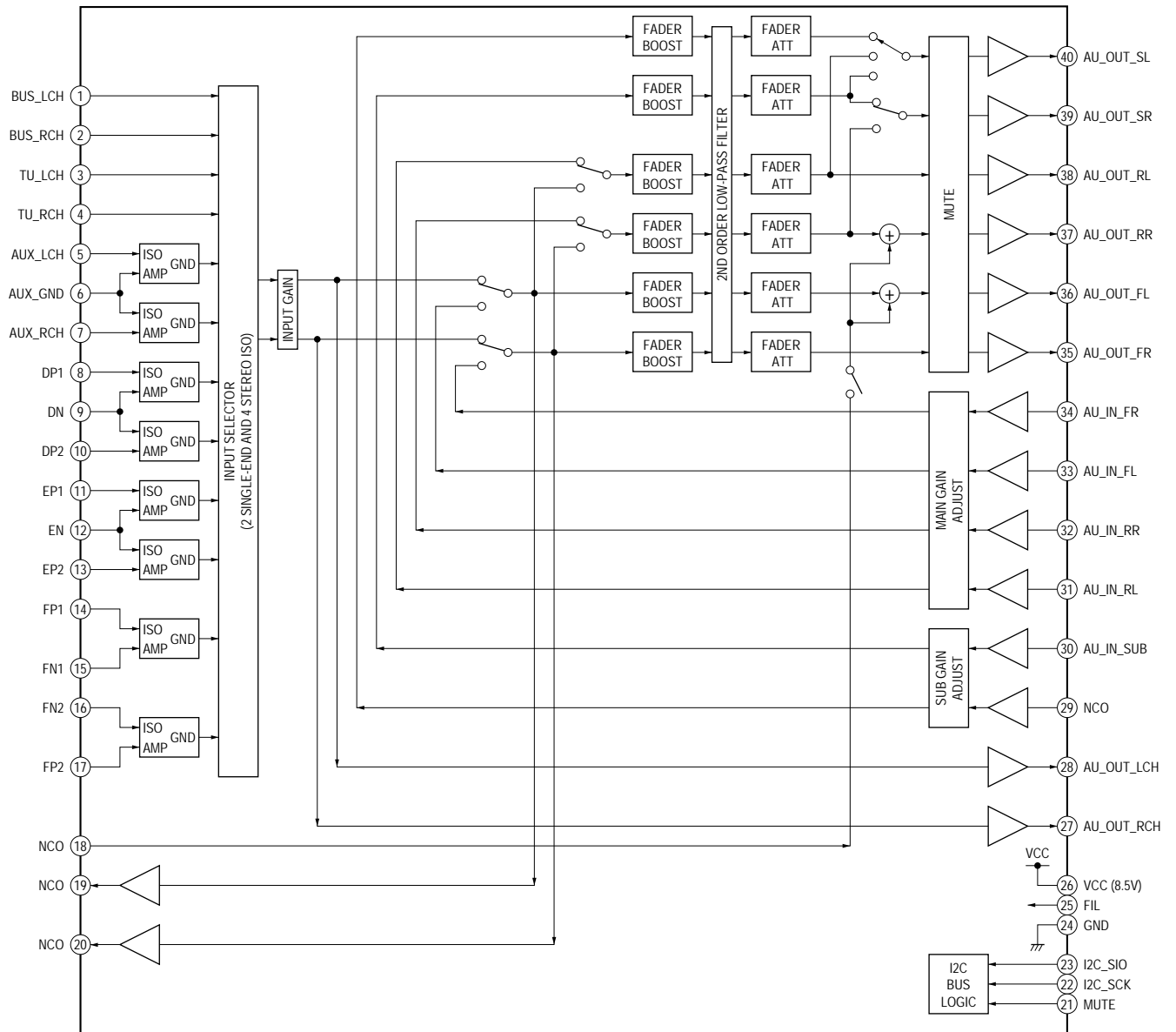


IC001 TEF6617T/V1/S470,518 (MAIN Board (3/3))





IC401 BD3467FV-E2 (MAIN Board (3/3))



# CDX-GT450U/GT454US

## • IC Pin Function Description

### MAIN BOARD (2/3) IC501 R5F3650KBDZ99FA (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1	LCD_SO	O	Serial data output for LCD driver
2	LCD_CLK	O	Serial clock signal output for LCD driver
3	NOSE_SW	I	Front panel detach detect signal input (Fixed at L in this set)
4	SIRCS	I	SIRCS signal input
5	UNISO	O	SONY BUS serial data output (Not used in this set)
6	UNISI	I	SONY BUS serial data input (Fixed at L in this set)
7	UNISCK	O	SONY BUS serial clock signal output (Fixed at L in this set)
8	BYTE	I	External data bus width select signal input (Connect to VSS in this set)
9	CNVSS	I	Flash writer IF (CNVSS) signal input (L: normally operation, H: flash write)
10	XIN	I	Low speed operation clock signal input (32.768 kHz)
11	XOUT	O	Low speed operation clock signal output (32.768 kHz)
12	RESET	I	System reset signal input
13	OSCOOUT	O	High speed operation clock signal output (7.92 MHz)
14	VSS	—	Ground
15	OSCIIN	I	High speed operation clock signal input (7.92 MHz)
16	VCC1	—	Power supply pin (+3.3 V)
17	NMI	I	Non-maskable interrupt signal input (Fixed at H in this set)
18	RC_IN1	I	Rotary commander shift key signal input
19	BUIN	I	Backup power supply detect signal input
20	SYSRST	O	System reset signal output
21	BUS_ON	O	VBUS power control signal output (Not used in this set)
22	MC_RX	I	MC-BUS communication MECHA (CMX-101N) TX signal input
23	NCO	O	Not used. (Open)
24	MC_TX	O	MC-BUS communication MECHA (CMX-101N) RX signal output
25	NCO	O	Not used. (Open)
26	SYNC_OUT	O	DD converter frequency control signal output
27	NCO	O	Not used. (Open)
28	BEEP	O	Beep signal output for the power amplifier IC
29	I2C_SCK	O	IIC communication serial clock signal output
30	I2C_SIO	I/O	IIC communication serial data input/output
31	FW_TXD	O	Flash writer IF (serial data) output
32	FW_RXD	I	Flash writer IF (serial data) input
33	FW_CLK	I	Flash writer IF (serial clock) signal input
34	FW_BUSY	O	Flash writer IF (busy) signal output
35, 36	NCO	O	Not used. (Open)
37	CD_ON	I	CD mechanism servo power supply control request signal input
38	CDM_ON	I	CD mechanism deck power supply control request signal input
39	WAKE_UP	O	CD mechanism deck micon wake up signal output
40	Z_MUTE	I	Z mute signal input
41	EPM	O	EPM signal output (Fixed at L in this set)
42	MODELNAME_SEL0	I	Model name select signal input 0 (Fixed at L in this set)
43	MODELNAME_SEL1	I	Model name select signal input 1 (Fixed at L in this set)
44	MODELNAME_SEL2	I	Model name select signal input 2 (Fixed at L in this set)
45	MODELNAME_SEL3	I	Model name select signal input 3 (Fixed at L in this set)
46	CE	O	CE signal output (Fixed at H in this set)
47	NCO	O	Not used. (Open)
48	SA_DATAIN	I	Paradisso spectrum analyzer serial data input
49	SA_CLKOUT	O	Paradisso spectrum analyzer serial clock signal output
50	USBON	O	USB over current detect IC control signal output
51	VBUS_ON	I	VBUS power supply control signal input (L: VBUS OFF, H: VBUS ON)
52	USB_OVR	I	USB over current detect signal input
53	EXTATT_XEN	O	L is sent when electronic volume IC has the status of CD/USB (H is sent when it has the status of other source) (Not used in this set)
54, 55	NCO	O	Not used. (Open)
56	TELATT	I	Telephone attenuator detect signal input (Russian model)
57	ACC_IN	I	Accessory power supply detect signal input
58	ATT	O	Audio mute control signal output

Pin No.	Pin Name	I/O	Description
59	DIAG	I	Condition signal input from power amp IC
60	AMPSTB	O	Standby signal output for power regulator IC
61	CYRIL_SEL	I	Cyril correspondance discrimination signal input (L: No correspondance) (Fixed at L in this set)
62	VCC2	—	Power supply pin (+3.3 V)
63	NCO	O	Not used. (Open)
64	VSS	—	Ground
65	ILLUMI_SEL	I	Key illumination voltage setting signal input (Fixed at H in this set)
66	COLSW_SEL	I	Key illumination color change function signal input (Fixed at H in this set)
67	NCO	O	Not used. (Open)
68	B-OUT_SEL	I	Black out function setting signal input (L: without black out function)
69	AREASEL3	I	Destination setting pin 3 (Fixed at L in this set)
70	AREASEL2	I	Destination setting pin 2 (Fixed at L in this set)
71	AREASEL1	I	Destination setting pin 1
72	AREASEL0	I	Destination setting pin 0
73	R/S SW_SEL	I	REAR/SUB select setting signal input (L: No switched) (Fixed at H in this set)
74, 75	NCO	O	Not used. (Open)
76	INITCOL_SEL	I	Key illumination initial color setting signal input (Fixed at H in this set)
77, 78	NCO	O	Not used. (Open)
79, 80	DEBUG_1, DEBUG_2	O	Not used. (Open)
81	RE-IN1	I	Rotary encoder signal input 1
82	RE-IN0	I	Rotary encoder signal input 0
83 to 90	NCO	O	Not used. (Open)
91	KEYACK0	I	Key acknowledge detect signal input (Rotary commander)
92	KEYACK1	I	Key acknowledge detect signal input (Front panel)
93	NCO	O	Not used. (Open)
94	KEYIN1	I	Key signal input 1
95	KEYIN0	I	Key signal input 0
96	AVSS	—	Ground for A/D converter
97	RC_IN0	I	Rotary commander key signal input
98	AVRH	—	A/D converter external reference power supply pin (+3.3 V)
99	AVDD	—	A/D converter power supply pin (+3.3 V)
100	LCD_CE	O	Chip enable signal output for LCD driver

**SECTION 5  
EXPLODED VIEWS**

**Note:**

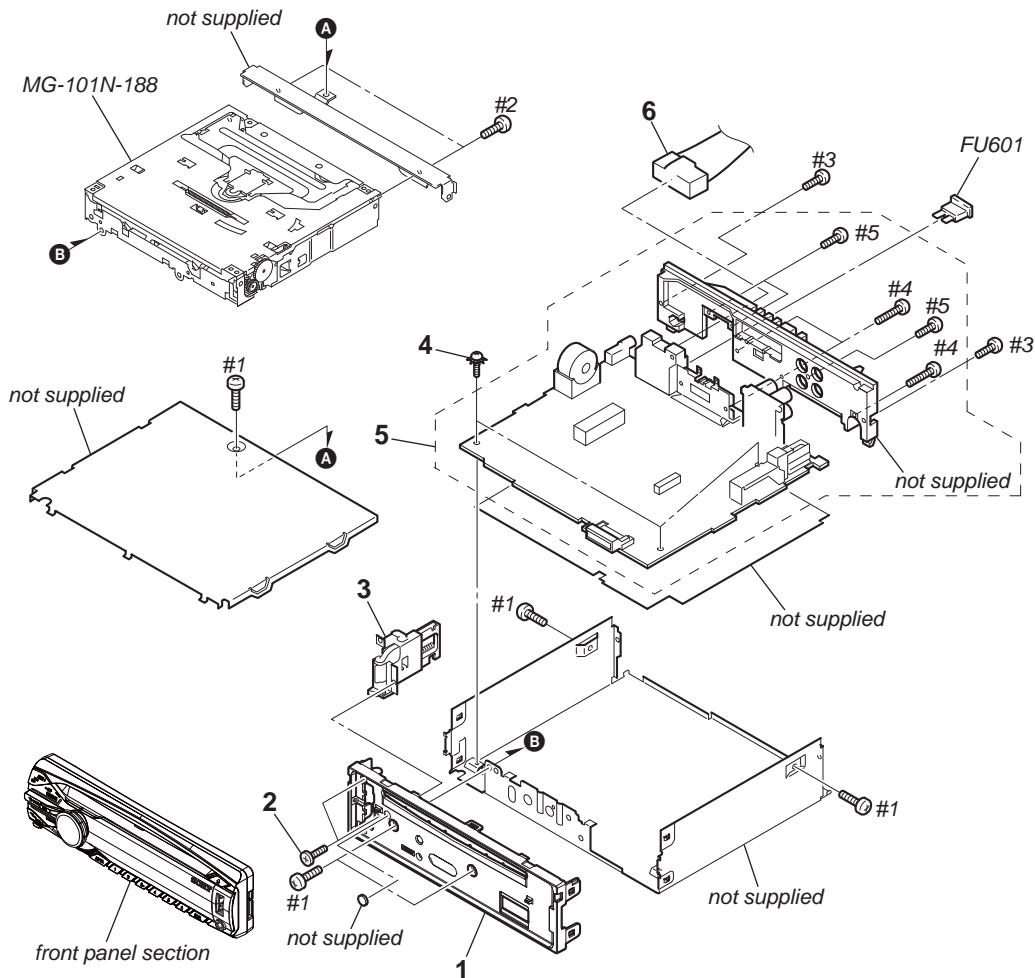
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded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

- Color Indication of Appearance Parts Example:  
KNOB, BALANCE (WHITE) . . . (RED)  
↑ ↑  
Parts Color Cabinet's Color
- Accessories are given in the last of the electrical parts list.

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

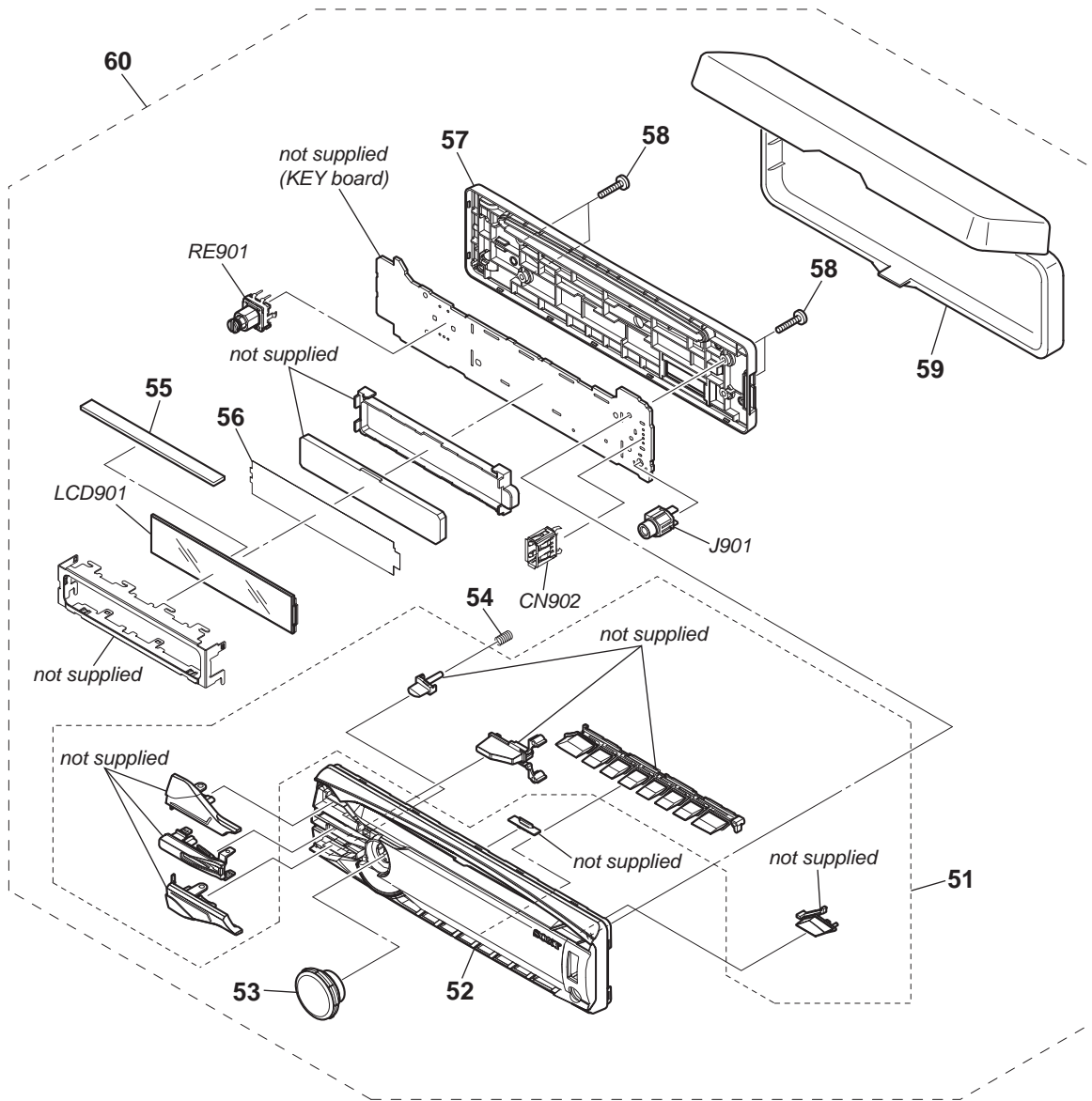
Les composants identifiés par une marque △ sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

**5-1. MAIN SECTION**



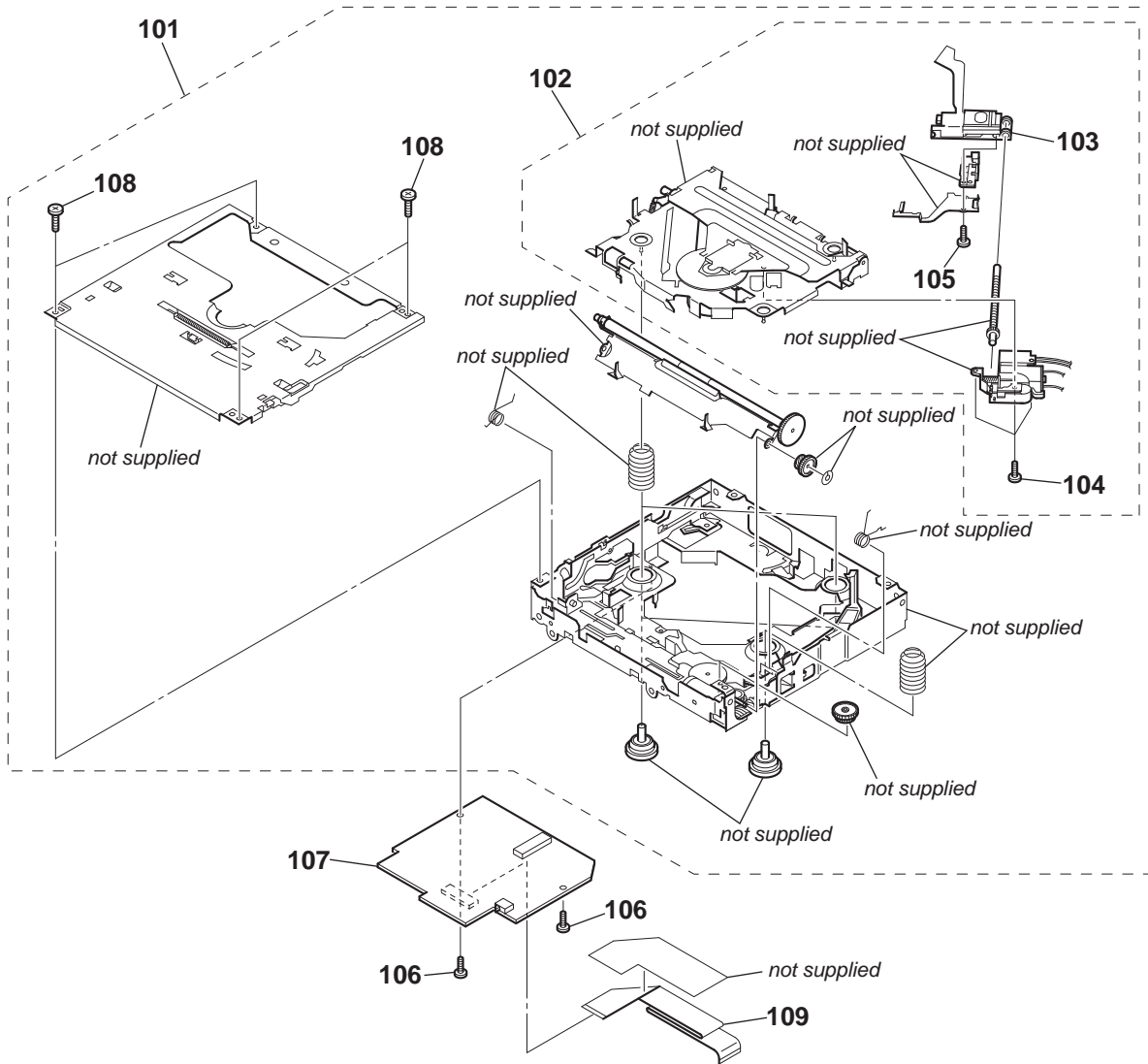
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-2547-883-1	PANEL ASSY, SUB		6	1-833-974-21	CONNECTION CORD FOR AUTOMOBILE (POWER) (GT450U)	
2	3-042-244-11	SCREW (T)		FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
3	X-2547-583-1	LOCK ASSY (T)		#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
4	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT		#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
5	A-1785-264-A	MAIN BOARD, COMPLETE (GT450U)		#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
5	A-1785-580-A	MAIN BOARD, COMPLETE (GT454US)		#4	7-685-794-09	SCREW +PTT 2.6X10 (S)	
6	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER) (GT454US)		#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	

5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-2548-936-1	BUTTON ASSY (S) (GT450U)		58	3-250-543-21	SCREW (+B P-TITE M2)	
51	X-2560-617-1	BUTTON ASSY (S) (GT454US)		59	X-2187-544-3	CASE ASSY (for FRONT PANEL) (GT454US)	
52	X-2548-942-1	PANEL (SV) ASSY, FRONT (GT450U)		60	A-1785-301-A	PANEL OVERALL ASSY, FRONT (GT450U)	
52	X-2560-618-1	PANEL (SV) ASSY, FRONT (GT454US)		60	A-1799-232-A	PANEL OVERALL ASSY, FRONT (GT454US)	
53	X-2560-642-1	KNOB (VOL) (SV) ASSY		CN902	1-822-798-11	CONNECTOR, USB 4P (USB)	
54	2-639-881-01	SPRING (RELEASE)		J901	1-822-148-11	SMALL TYPE JACK (VERTICAL) (AUX)	
55	1-780-789-12	CONDUCTIVE BOARD, CONNECTION		LCD901	1-811-224-11	DISPLAY PANEL, LIQUID CRYSTAL	
56	4-183-279-01	ILLUMINATOR (LCD)		RE901	1-479-902-41	ENCODER, ROTARY	
57	4-183-529-01	PANEL, BACK				(PUSH ENTER/SELECT (VOLUME))	

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



**Note:** If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-1795-756-A	MECHANICAL BLOCK ASSY (N)		106	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
102	A-1284-705-A	DAXEV08/Q		107	A-1768-002-A	SERVO BOARD, COMPLETE	
△ 103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)		108	2-134-636-71	SCREW (M1.7X2.5)	
104	2-626-869-31	SCREW (M2X3), SERRATION		109	1-838-286-11	CABLE, FLEXIBLE FLAT (13 CORE)	
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.
- CAPACITORS  
uF: µF

- COILS  
uH: µH
- RESISTORS  
All resistors are in ohms.  
METAL: Metal-film resistor.  
METAL OXIDE: Metal oxide-film resistor.  
F: nonflammable
- SEMICONDUCTORS  
In each case, u: µ, for example:  
uA. . . : µA. . . , uPA. . . , µPA. . . ,  
uPB. . . : µPB. . . , uPC. . . , µPC. . . ,  
uPD. . . : µPD. . .

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		KEY BOARD *****				< LIQUID CRYSTAL DISPLAY >	
	1-780-789-12	CONDUCTIVE BOARD, CONNECTION		LCD901	1-811-224-11	DISPLAY PANEL, LIQUID CRYSTAL	
	4-183-279-01	ILLUMINATOR (LCD)				< DIODE >	
		< CAPACITOR >		LED901	6-503-227-01	LED NESW505DT-A0-UV (LCD BACK LIGHT)	
C901	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	LED903	6-502-193-01	LED SML-D12V8WT86SN ( $\triangle$ )	
C902	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	LED905	6-502-193-01	LED SML-D12V8WT86SN	(DISC SLOT INDICATOR)
C903	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	LED907	6-502-193-01	LED SML-D12V8WT86SN (ILLUMINATOR)	
C904	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V	LED909	6-502-193-01	LED SML-D12V8WT86SN (ILLUMINATOR)	
C906	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	LED910	6-502-193-01	LED SML-D12V8WT86SN (SEEK+ $\blacktriangleright\blacktriangleright\blacktriangleright$ )	
C909	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	LED912	6-502-193-01	LED SML-D12V8WT86SN ( $\blacktriangleleft\blacktriangleleft$ SEEK-)	
C910	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	LED914	6-502-193-01	LED SML-D12V8WT86SN (SOURCE/OFF)	
C911	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	LED916	6-502-193-01	LED SML-D12V8WT86SN (ZAP)	
C912	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	LED919	6-502-193-01	LED SML-D12V8WT86SN (Q)	
C915	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	LED921	6-502-193-01	LED SML-D12V8WT86SN (Q)	
C916	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	LED925	6-502-193-01	LED SML-D12V8WT86SN (RING ILLUMINATOR)	
		< CONNECTOR >		LED928	6-502-193-01	LED SML-D12V8WT86SN (RING ILLUMINATOR)	
CN901	1-842-265-11	PLUG, CONNECTOR 20P		LED929	6-502-193-01	LED SML-D12V8WT86SN (RING ILLUMINATOR)	
CN902	1-822-798-11	CONNECTOR, USB 4P (USB)		LED932	6-502-193-01	LED SML-D12V8WT86SN (ILLUMINATOR)	
		< DIODE >		LED934	6-502-193-01	LED SML-D12V8WT86SN (ILLUMINATOR)	
D901	6-501-817-01	DIODE MA2J1110GLSO		LED936	6-502-193-01	LED SML-D12V8WT86SN (ILLUMINATOR)	
D902	6-503-202-01	DIODE RKZ5.1B2KGP1		LED938	6-502-193-01	LED SML-D12V8WT86SN (ILLUMINATOR)	
D907	6-503-205-01	DIODE RKZ6.8B2KGP1		LED940	6-502-193-01	LED SML-D12V8WT86SN ( $\rightarrow$ /MODE)	
D908	6-503-205-01	DIODE RKZ6.8B2KGP1				< SWITCH >	
D909	6-503-205-01	DIODE RKZ6.8B2KGP1		LSW905	1-798-287-11	SWITCH, TACTILE (WITH LED) (DSPL/SCRL)	
D911	6-503-205-01	DIODE RKZ6.8B2KGP1		LSW906	1-798-287-11	SWITCH, TACTILE (WITH LED) (6/PAUSE)	
D912	6-503-205-01	DIODE RKZ6.8B2KGP1		LSW907	1-798-287-11	SWITCH, TACTILE (WITH LED) (5)	
D916	6-503-205-01	DIODE RKZ6.8B2KGP1		LSW908	1-798-287-11	SWITCH, TACTILE (WITH LED) (4/SHUF)	
D921	6-503-205-01	DIODE RKZ6.8B2KGP1		LSW909	1-798-287-11	SWITCH, TACTILE (WITH LED) (3/REP)	
		< FERRITE BEAD >		LSW910	1-798-287-11	SWITCH, TACTILE (WITH LED) (2/ALBUM +)	
FB901	1-414-385-21	INDUCTOR, FERRITE BEAD		LSW911	1-798-287-11	SWITCH, TACTILE (WITH LED) (1/ALBUM -)	
FB902	1-414-385-21	INDUCTOR, FERRITE BEAD		LSW912	1-798-287-11	SWITCH, TACTILE (WITH LED) (PTY) (GT450U)	
FB903	1-414-385-21	INDUCTOR, FERRITE BEAD		LSW912	1-798-287-11	SWITCH, TACTILE (WITH LED) (AF/TA/PTY)	(G T454US)
		< IC >				< TRANSISTOR >	
IC901	6-714-396-01	IC LC75829PWH-US-H		Q901	8-729-038-22	TRANSISTOR RT1N140C-TP-1	
IC902	6-600-764-01	IC PNA4813M01S0 (IR)				< RESISTOR >	
		< JACK >		R900	1-216-864-11	SHORT CHIP 0	
J901	1-822-148-11	SMALL TYPE JACK (VERTICAL) (AUX)		R904	1-216-857-11	METAL CHIP 1M 5%	1/10W
				R905	1-216-864-11	SHORT CHIP 0	
				R906	1-216-811-11	METAL CHIP 150 5%	1/10W

# CDX-GT450U/GT454US

**KEY** **MAIN**

Ref. No.	Part No.	Description	Remark
R908	1-216-810-11	METAL CHIP 120 5%	1/10W
R909	1-216-810-11	METAL CHIP 120 5%	1/10W
R910	1-216-810-11	METAL CHIP 120 5%	1/10W
R911	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R914	1-216-864-11	SHORT CHIP 0	
R915	1-216-809-11	METAL CHIP 100 5%	1/10W
R916	1-216-809-11	METAL CHIP 100 5%	1/10W
R917	1-216-809-11	METAL CHIP 100 5%	1/10W
R918	1-216-864-11	SHORT CHIP 0	
R919	1-216-864-11	SHORT CHIP 0	
R920	1-216-820-11	METAL CHIP 820 5%	1/10W
R921	1-216-821-11	METAL CHIP 1K 5%	1/10W
R922	1-216-821-11	METAL CHIP 1K 5%	1/10W
R923	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
R924	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R925	1-216-824-11	METAL CHIP 1.8K 5%	1/10W
R926	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R928	1-216-820-11	METAL CHIP 820 5%	1/10W
R929	1-216-821-11	METAL CHIP 1K 5%	1/10W
R930	1-216-821-11	METAL CHIP 1K 5%	1/10W
R931	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
R932	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R933	1-216-824-11	METAL CHIP 1.8K 5%	1/10W
R934	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R937	1-216-820-11	METAL CHIP 820 5%	1/10W
R940	1-216-811-11	METAL CHIP 150 5%	1/10W
R942	1-216-820-11	METAL CHIP 820 5%	1/10W
R944	1-216-001-00	METAL CHIP 10 5%	1/10W
R945	1-216-802-11	METAL CHIP 27 5%	1/10W
R946	1-216-802-11	METAL CHIP 27 5%	1/10W
R948	1-216-820-11	METAL CHIP 820 5%	1/10W
R952	1-216-821-11	METAL CHIP 1K 5%	1/10W
R953	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
R958	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
R959	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
R962	1-216-811-11	METAL CHIP 150 5%	1/10W
R963	1-216-811-11	METAL CHIP 150 5%	1/10W
R966	1-216-811-11	METAL CHIP 150 5%	1/10W
R967	1-216-811-11	METAL CHIP 150 5%	1/10W
R970	1-216-813-11	METAL CHIP 220 5%	1/10W
R971	1-216-813-11	METAL CHIP 220 5%	1/10W
R974	1-216-820-11	METAL CHIP 820 5%	1/10W
R975	1-216-820-11	METAL CHIP 820 5%	1/10W
R976	1-216-820-11	METAL CHIP 820 5%	1/10W
R978	1-216-820-11	METAL CHIP 820 5%	1/10W
R983	1-216-824-11	METAL CHIP 1.8K 5%	1/10W
R984	1-216-824-11	METAL CHIP 1.8K 5%	1/10W
R985	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R986	1-216-809-11	METAL CHIP 100 5%	1/10W
R990	1-216-821-11	METAL CHIP 1K 5%	1/10W
R991	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
R994	1-216-820-11	METAL CHIP 820 5%	1/10W
R995	1-216-821-11	METAL CHIP 1K 5%	1/10W
R996	1-216-821-11	METAL CHIP 1K 5%	1/10W
R998	1-216-864-11	SHORT CHIP 0	
R999	1-216-001-00	METAL CHIP 10 5%	1/10W
< ROTARY ENCODER >			
RE901	1-479-902-41	ENCODER, ROTARY (PUSH ENTER/SELECT (VOLUME))	

Ref. No.	Part No.	Description	Remark
< SWITCH >			
S901	1-798-284-11	SWITCH, TACTILE (▲)	
S902	1-798-284-11	SWITCH, TACTILE (SOURCE/OFF)	
S903	1-798-284-11	SWITCH, TACTILE (SEEK+ ▶▶▶▶▶)	
S904	1-798-284-11	SWITCH, TACTILE (◀/MODE)	
S905	1-798-284-11	SWITCH, TACTILE (◀◀◀◀◀ SEEK-)	
S906	1-798-284-11	SWITCH, TACTILE (Q)	
S907	1-798-284-11	SWITCH, TACTILE (ZAP)	
< VARISTOR >			
VDR906	1-804-988-21	VARISTOR, CHIP (1608)	
VDR908	1-804-988-21	VARISTOR, CHIP (1608)	
*****			
A-1785-264-A	MAIN BOARD, COMPLETE (GT450U)		
A-1785-580-A	MAIN BOARD, COMPLETE (GT454US)		
*****			
7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT		
7-685-794-09	SCREW +PTT 2.6X10 (S)		
< CAPACITOR >			
C1	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C5	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C6	1-162-917-11	CERAMIC CHIP 15PF 5%	50V
C8	1-162-921-11	CERAMIC CHIP 33PF 5%	50V
C9	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C12	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V
C13	1-100-742-91	CERAMIC CHIP 2.2uF 20%	10V
C16	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V
C17	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C18	1-162-916-11	CERAMIC CHIP 12PF 5%	50V
C19	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C20	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C21	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C22	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C23	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C24	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C25	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C26	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C27	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C28	1-126-947-11	ELECT 47uF 20%	35V
C100	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C101	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C103	1-115-339-11	CERAMIC CHIP 0.1uF 10%	50V
C158	1-163-009-91	CERAMIC CHIP 0.001uF 10%	50V
C203	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C300	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C301	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V
C302	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C303	1-128-551-11	ELECT 22uF 20%	63V
C304	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C305	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C306	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C308	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V
C312	1-124-233-11	ELECT 10uF 20%	16V
C313	1-126-947-11	ELECT 47uF 20%	35V
C315	1-125-889-11	CERAMIC CHIP 2.2uF 10%	10V
C316	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C318	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C319	1-165-908-11	CERAMIC CHIP 1uF 10%	10V



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C320	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C600	1-125-972-61	ELECT 100uF 20%	16V
C321	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C602	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V
C322	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C603	1-164-217-11	CERAMIC CHIP 150PF 5%	50V
C323	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C604	1-100-671-11	CERAMIC CHIP 4.7uF 20%	25V
C324	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C605	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C327	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	C606	1-164-677-11	CERAMIC CHIP 0.033uF 10%	16V
C328	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C607	1-100-591-91	CERAMIC CHIP 1uF 10%	25V
C329	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V	C609	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C330	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V	C611	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C332	1-107-823-11	CERAMIC CHIP 0.47uF 10%	16V	C612	1-126-935-11	ELECT 470uF 20%	16V
C333	1-107-823-11	CERAMIC CHIP 0.47uF 10%	16V	C613	1-100-591-91	CERAMIC CHIP 1uF 10%	25V
C334	1-163-009-91	CERAMIC CHIP 0.001uF 10%	50V	C614	1-165-733-91	ELECT 100uF 20%	25V
C335	1-163-009-91	CERAMIC CHIP 0.001uF 10%	50V	C615	1-125-972-61	ELECT 100uF 20%	16V
C336	1-112-302-11	ELECT 3300uF 20%	16V	C701	1-124-584-00	ELECT 100uF 20%	10V
C337	1-165-319-11	CERAMIC CHIP 0.1uF 50V		C703	1-124-233-11	ELECT 10uF 20%	16V
C401	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C704	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C402	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C710	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C403	1-128-057-11	ELECT 330uF 20%	6.3V	C711	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C405	1-216-864-11	SHORT CHIP 0				< CONNECTOR >	
C407	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	CN102	1-842-266-11	SOCKET, CONNECTOR 20P	
C409	1-126-926-11	ELECT 1000uF 20%	10V	CN301	1-774-701-21	PIN, CONNECTOR 16P	
C410	1-126-964-11	ELECT 10uF 20%	50V	CN402	1-818-174-11	CONNECTOR, FPC/FFC 13P	
C411	1-128-057-11	ELECT 330uF 20%	6.3V	* CN501	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P	
C412	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	CN701	1-820-611-11	CONNECTOR, BOARD TO BOARD 28P	
C413	1-126-964-11	ELECT 10uF 20%	50V			< DIODE >	
C414	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	D101	6-503-205-01	DIODE RKZ6.8B2KGP1	
C415	1-126-934-11	ELECT 220uF 20%	16V	D102	6-503-205-01	DIODE RKZ6.8B2KGP1	
C416	1-124-589-11	ELECT 47uF 20%	16V	D103	6-503-205-01	DIODE RKZ6.8B2KGP1	
C417	1-104-943-11	ELECT 2.2uF 20%	50V	D104	6-503-205-01	DIODE RKZ6.8B2KGP1	
C418	1-104-943-11	ELECT 2.2uF 20%	50V	D105	6-503-205-01	DIODE RKZ6.8B2KGP1	
C419	1-126-964-11	ELECT 10uF 20%	50V	D106	6-503-205-01	DIODE RKZ6.8B2KGP1	
C420	1-126-964-11	ELECT 10uF 20%	50V	D107	6-503-205-01	DIODE RKZ6.8B2KGP1	
C421	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	D108	6-503-205-01	DIODE RKZ6.8B2KGP1	
C422	1-126-964-11	ELECT 10uF 20%	50V	D109	6-503-213-01	DIODE RKZ18B2KGP1	
C423	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	D110	6-503-205-01	DIODE RKZ6.8B2KGP1	
C424	1-126-964-11	ELECT 10uF 20%	50V	D116	6-503-205-01	DIODE RKZ6.8B2KGP1	
C425	1-126-964-11	ELECT 10uF 20%	50V	D117	1-805-043-11	ABSORBER, CHIP SURGE	
C426	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	D118	1-805-043-11	ABSORBER, CHIP SURGE	
C436	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	D119	6-503-205-01	DIODE RKZ6.8B2KGP1	
C437	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	D301	6-503-213-01	DIODE RKZ18B2KGP1 (GT454US)	
C438	1-100-591-91	CERAMIC CHIP 1uF 10%	25V	D302	6-502-643-01	DIODE 1A4-A2	
C442	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	D303	6-502-643-01	DIODE 1A4-A2	
C443	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	D304	6-502-643-01	DIODE 1A4-A2	
C444	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	D310	6-502-643-01	DIODE 1A4-A2	
C445	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	D311	6-502-643-01	DIODE 1A4-A2	
C447	1-124-584-00	ELECT 100uF 20%	10V	D312	6-502-643-01	DIODE 1A4-A2	
C502	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	D313	6-502-643-01	DIODE 1A4-A2	
C504	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	D314	6-502-643-01	DIODE 1A4-A2	
C507	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	D315	6-502-643-01	DIODE 1A4-A2	
C508	1-162-918-11	CERAMIC CHIP 18PF 5%	50V	D316	6-502-643-01	DIODE 1A4-A2	
C510	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	D317	6-502-643-01	DIODE 1A4-A2	
C512	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	D318	6-502-643-01	DIODE 1A4-A2	
C513	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	D320	6-503-213-01	DIODE RKZ18B2KGP1	
C514	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	D321	6-502-643-01	DIODE 1A4-A2	
C517	1-216-864-11	SHORT CHIP 0		D322	6-503-213-01	DIODE RKZ18B2KGP1	
C518	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	D323	6-503-213-01	DIODE RKZ18B2KGP1	
C520	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	D324	6-502-643-01	DIODE 1A4-A2	
C521	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	D401	6-501-817-01	DIODE MA2J1110GLS0	
C522	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	D403	6-501-817-01	DIODE MA2J1110GLS0	
C523	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V				

# CDX-GT450U/GT454US

## MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D404	6-501-817-01	DIODE MA2J1110GLS0		JC275	1-216-296-11	SHORT CHIP	0
D501	6-503-205-01	DIODE RKZ6.8B2KGP1		JC277	1-216-295-91	SHORT CHIP	0
D601	6-501-657-01	DIODE MA24D5000BS0		JC281	1-216-296-11	SHORT CHIP	0
D731	6-501-013-01	DIODE BAT54ALT1G		JC282	1-216-296-11	SHORT CHIP	0
D806	6-503-206-01	DIODE RKZ7.5B2KGP1		JC289	1-216-296-11	SHORT CHIP	0
D807	6-503-213-01	DIODE RKZ18B2KGP1		JC290	1-216-296-11	SHORT CHIP	0
		< FERRITE BEAD >		JC291	1-216-296-11	SHORT CHIP	0
FB1	1-400-334-21	FERRITE, EMI (SMD) (1608) (GT450U)		JC295	1-216-295-91	SHORT CHIP	0
FB2	1-400-334-21	FERRITE, EMI (SMD) (1608) (GT450U)		JC301	1-216-296-11	SHORT CHIP	0
FB3	1-400-334-21	FERRITE, EMI (SMD) (1608) (GT450U)		JC302	1-216-864-11	SHORT CHIP	0
FB401	1-216-295-91	SHORT CHIP	0	JC307	1-216-864-11	SHORT CHIP	0
FB402	1-400-334-21	FERRITE, EMI (SMD) (1608)		JC346	1-216-864-11	SHORT CHIP	0
FB403	1-400-334-21	FERRITE, EMI (SMD) (1608)		JC356	1-216-296-11	SHORT CHIP	0
FB501	1-414-595-11	INDUCTOR, FERRITE BEAD		JC361	1-216-864-11	SHORT CHIP	0
FB704	1-414-595-11	INDUCTOR, FERRITE BEAD		JC362	1-216-864-11	SHORT CHIP	0
FB705	1-414-595-11	INDUCTOR, FERRITE BEAD		JC363	1-216-864-11	SHORT CHIP	0 (GT454US)
FB706	1-414-595-11	INDUCTOR, FERRITE BEAD		JC366	1-216-296-11	SHORT CHIP	0
FB801	1-414-595-11	INDUCTOR, FERRITE BEAD		JC408	1-216-296-11	SHORT CHIP	0
FB802	1-414-595-11	INDUCTOR, FERRITE BEAD		JC418	1-216-296-11	SHORT CHIP	0
FB826	1-414-595-11	INDUCTOR, FERRITE BEAD		JC419	1-216-296-11	SHORT CHIP	0
		< IC >		JC469	1-216-864-11	SHORT CHIP	0
IC001	6-714-162-01	IC TEF6617T/V1/S470,518		JC475	1-216-296-11	SHORT CHIP	0
IC301	6-715-848-11	IC TDF8556AJ/N3		JC479	1-216-296-11	SHORT CHIP	0
IC401	6-714-623-01	IC BD3467FV-E2				< COIL >	
IC402	6-702-302-01	IC TK11133CSCL-G		L1	1-414-180-51	INDUCTOR	3.3uH
IC403	6-712-776-01	IC PST8228UL		L2	1-410-501-61	INDUCTOR	2.2uH
IC501	6-716-619-01	IC R5F3650KBDZ99FA (for SERVICE)		L6	1-457-817-11	COIL (FM MIX)	
IC601	6-714-602-01	IC BD9070FP-E2		L7	1-481-285-51	INDUCTOR	560uH
		< JACK >		L8	1-481-285-51	INDUCTOR	560uH
J1	1-822-949-21	JACK (ANTENNA)		L301	1-456-617-11	COIL, CHOKE	
J401	1-822-713-11	JACK, PIN 2P (REAR/SUB AUDIO OUT)	(GT454US)	L302	1-216-295-91	SHORT CHIP	0
J402	1-822-712-11	JACK, PIN 4P (REAR/SUB AUDIO OUT, FRONT AUDIO OUT)	(GT450U)	L402	1-216-864-11	SHORT CHIP	0
J801	1-566-822-81	JACK (REMOTE IN)		L405	1-216-295-91	SHORT CHIP	0
		< JUMPER RESISTOR >		L601	1-411-595-21	COIL, CHOKE	47uH
JC103	1-216-296-11	SHORT CHIP	0	L602	1-412-525-31	INDUCTOR	10uH
JC106	1-216-864-11	SHORT CHIP	0	L603	1-411-595-21	COIL, CHOKE	47uH
JC116	1-216-296-11	SHORT CHIP	0			< TRANSISTOR >	
JC120	1-216-296-11	SHORT CHIP	0	Q301	8-729-620-13	TRANSISTOR	2SC4154TP-1EF
JC121	1-216-295-91	SHORT CHIP	0	Q303	8-729-620-13	TRANSISTOR	2SC4154TP-1EF (GT454US)
JC123	1-216-296-11	SHORT CHIP	0	Q401	6-551-677-01	TRANSISTOR	RTAN140M-T111-1
JC131	1-216-296-11	SHORT CHIP	0	Q402	6-551-677-01	TRANSISTOR	RTAN140M-T111-1
JC256	1-216-864-11	SHORT CHIP	0	Q403	6-551-677-01	TRANSISTOR	RTAN140M-T111-1
JC257	1-216-864-11	SHORT CHIP	0	Q404	6-551-677-01	TRANSISTOR	RTAN140M-T111-1
JC260	1-216-864-11	SHORT CHIP	0	Q405	6-551-677-01	TRANSISTOR	RTAN140M-T111-1
JC261	1-216-864-11	SHORT CHIP	0	Q406	6-551-677-01	TRANSISTOR	RTAN140M-T111-1
JC262	1-216-295-91	SHORT CHIP	0	Q407	6-552-410-01	TRANSISTOR	DRA5114E0L
JC264	1-216-864-11	SHORT CHIP	0	Q409	6-552-430-01	TRANSISTOR	DRC5114E0L
JC265	1-216-296-11	SHORT CHIP	0	Q802	6-552-430-01	TRANSISTOR	DRC5114E0L
JC267	1-216-296-11	SHORT CHIP	0	Q807	6-552-444-01	TRANSISTOR	DRC5144E0L
JC268	1-216-295-91	SHORT CHIP	0	Q808	8-729-620-13	TRANSISTOR	2SC4154TP-1EF
JC269	1-216-864-11	SHORT CHIP	0			< RESISTOR >	
JC271	1-216-864-11	SHORT CHIP	0	R1	1-216-853-11	METAL CHIP	470K 5% 1/10W
JC273	1-216-296-11	SHORT CHIP	0	R2	1-216-853-11	METAL CHIP	470K 5% 1/10W
JC274	1-216-295-91	SHORT CHIP	0	R3	1-216-864-11	SHORT CHIP	0 (GT454US)
				R11	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
				R12	1-216-009-91	METAL CHIP	22 5% 1/10W
				R13	1-216-809-11	METAL CHIP	100 5% 1/10W

Ref. No.	Part No.	Description	Quantity	Unit Cost	Remark	Ref. No.	Part No.	Description	Quantity	Unit Cost	Remark
R14	1-216-809-11	METAL CHIP	100	5%	1/10W	R505	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R15	1-216-864-11	SHORT CHIP	0 (GT454US)			R506	1-216-845-11	METAL CHIP	100K	5%	1/10W
R16	1-216-864-11	SHORT CHIP	0 (GT454US)			R507	1-216-845-11	METAL CHIP	100K	5%	1/10W
R116	1-216-295-91	SHORT CHIP	0								(GT450U)
R121	1-216-864-11	SHORT CHIP	0			R508	1-216-849-11	METAL CHIP	220K	5%	1/10W
						R509	1-216-864-11	SHORT CHIP	0		
R122	1-216-864-11	SHORT CHIP	0			R510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R301	1-216-809-11	METAL CHIP	100	5%	1/10W	R511	1-216-817-11	METAL CHIP	470	5%	1/10W
R302	1-216-809-11	METAL CHIP	100	5%	1/10W	R512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R303	1-216-182-00	METAL CHIP	220	5%	1/8W	R513	1-216-845-11	METAL CHIP	100K	5%	1/10W
R304	1-216-182-00	METAL CHIP	220	5%	1/8W	R514	1-216-845-11	METAL CHIP	100K	5%	1/10W
R305	1-216-182-00	METAL CHIP	220	5%	1/8W	R516	1-216-864-11	SHORT CHIP	0		
R306	1-216-182-00	METAL CHIP	220	5%	1/8W	R517	1-216-864-11	SHORT CHIP	0		
R308	1-216-811-11	METAL CHIP	150	5%	1/10W	R519	1-216-845-11	METAL CHIP	100K	5%	1/10W
R310	1-216-841-11	METAL CHIP	47K	5%	1/10W	R521	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R315	1-216-841-11	METAL CHIP	47K	5%	1/10W	R522	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R316	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R523	1-216-845-11	METAL CHIP	100K	5%	1/10W
R317	1-216-841-11	METAL CHIP	47K	5%	1/10W	R525	1-216-845-11	METAL CHIP	100K	5%	1/10W
R318	1-216-833-11	METAL CHIP	10K	5%	1/10W	R528	1-216-845-11	METAL CHIP	100K	5%	1/10W
					(GT454US)	R529	1-216-864-11	SHORT CHIP	0		
R319	1-216-833-11	METAL CHIP	10K	5%	1/10W	R530	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
					(GT454US)	R531	1-216-845-11	METAL CHIP	100K	5%	1/10W
R320	1-216-841-11	METAL CHIP	47K	5%	1/10W	R532	1-216-845-11	METAL CHIP	100K	5%	1/10W
					(GT454US)	R533	1-216-845-11	METAL CHIP	100K	5%	1/10W
R321	1-216-821-11	METAL CHIP	1K	5%	1/10W	R534	1-216-833-11	METAL CHIP	10K	5%	1/10W
					(GT454US)	R535	1-216-833-11	METAL CHIP	10K	5%	1/10W
R325	1-249-425-11	CARBON	4.7K	5%	1/4W	R536	1-216-833-11	METAL CHIP	10K	5%	1/10W
R401	1-216-845-11	METAL CHIP	100K	5%	1/10W	R537	1-216-845-11	METAL CHIP	100K	5%	1/10W
R402	1-216-813-11	METAL CHIP	220	5%	1/10W						(GT454US)
R403	1-216-833-11	METAL CHIP	10K	5%	1/10W	R538	1-216-845-11	METAL CHIP	100K	5%	1/10W
R404	1-216-813-11	METAL CHIP	220	5%	1/10W						(GT450U)
R405	1-216-833-11	METAL CHIP	10K	5%	1/10W	R539	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-864-11	SHORT CHIP	0			R540	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-813-11	METAL CHIP	220	5%	1/10W	R542	1-216-864-11	SHORT CHIP	0		
R409	1-216-833-11	METAL CHIP	10K	5%	1/10W	R543	1-216-864-11	SHORT CHIP	0		
R410	1-216-813-11	METAL CHIP	220	5%	1/10W	R544	1-216-809-11	METAL CHIP	100	5%	1/10W
R411	1-216-833-11	METAL CHIP	10K	5%	1/10W	R550	1-216-845-11	METAL CHIP	100K	5%	1/10W
R415	1-216-817-11	METAL CHIP	470	5%	1/10W	R551	1-216-845-11	METAL CHIP	100K	5%	1/10W
R416	1-216-817-11	METAL CHIP	470	5%	1/10W	R552	1-216-845-11	METAL CHIP	100K	5%	1/10W
R417	1-216-834-11	METAL CHIP	12K	5%	1/10W	R554	1-216-845-11	METAL CHIP	100K	5%	1/10W
R418	1-216-834-11	METAL CHIP	12K	5%	1/10W	R555	1-216-864-11	SHORT CHIP	0		
R419	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R556	1-216-845-11	METAL CHIP	100K	5%	1/10W
R420	1-216-295-91	SHORT CHIP	0								(GT450U)
R421	1-216-813-11	METAL CHIP	220	5%	1/10W	R560	1-216-845-11	METAL CHIP	100K	5%	1/10W
R422	1-216-833-11	METAL CHIP	10K	5%	1/10W	R561	1-216-845-11	METAL CHIP	100K	5%	1/10W
R423	1-216-813-11	METAL CHIP	220	5%	1/10W	R562	1-216-845-11	METAL CHIP	100K	5%	1/10W
R424	1-216-833-11	METAL CHIP	10K	5%	1/10W	R563	1-216-864-11	SHORT CHIP	0		
R429	1-216-801-11	METAL CHIP	22	5%	1/10W	R564	1-216-845-11	METAL CHIP	100K	5%	1/10W
R430	1-216-864-11	SHORT CHIP	0								(GT454US)
R431	1-216-864-11	SHORT CHIP	0			R565	1-216-845-11	METAL CHIP	100K	5%	1/10W
R432	1-216-864-11	SHORT CHIP	0			R566	1-216-845-11	METAL CHIP	100K	5%	1/10W
R433	1-216-295-91	SHORT CHIP	0			R567	1-216-845-11	METAL CHIP	100K	5%	1/10W
R434	1-216-295-91	SHORT CHIP	0			R568	1-216-097-11	METAL CHIP	100K	5%	1/10W
R435	1-216-864-11	SHORT CHIP	0			R570	1-216-817-11	METAL CHIP	470	5%	1/10W
R436	1-216-864-11	SHORT CHIP	0			R571	1-216-845-11	METAL CHIP	100K	5%	1/10W
R438	1-216-833-11	METAL CHIP	10K	5%	1/10W	R572	1-216-845-11	METAL CHIP	100K	5%	1/10W
R441	1-216-864-11	SHORT CHIP	0			R573	1-216-845-11	METAL CHIP	100K	5%	1/10W
R500	1-216-833-11	METAL CHIP	10K	5%	1/10W						(GT454US)
R501	1-219-570-11	METAL CHIP	10M	5%	1/10W	R575	1-216-845-11	METAL CHIP	100K	5%	1/10W
R502	1-216-809-11	METAL CHIP	100	5%	1/10W	R577	1-216-845-11	METAL CHIP	100K	5%	1/10W
R503	1-216-809-11	METAL CHIP	100	5%	1/10W	R580	1-216-809-11	METAL CHIP	100	5%	1/10W
R504	1-218-871-11	METAL CHIP	10K	0.5%	1/10W						

# CDX-GT450U/GT454US

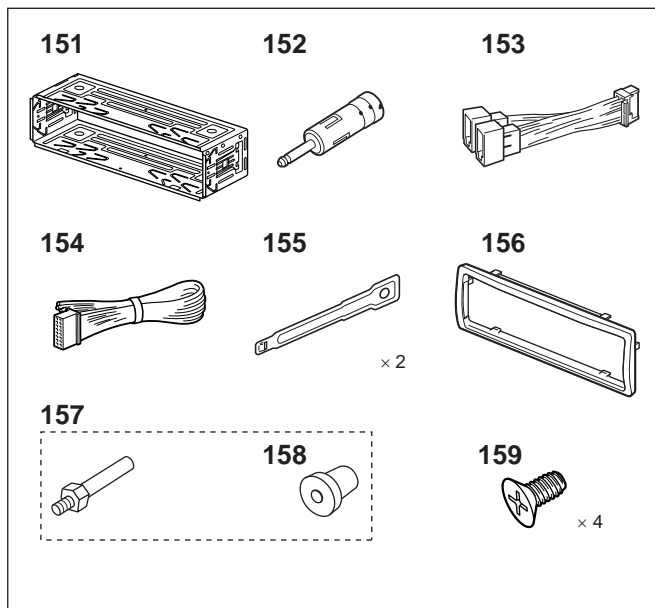
**MAIN** **SERVO**

Ref. No.	Part No.	Description	Remark
R581	1-216-857-11	METAL CHIP 1M	5% 1/10W
R583	1-216-845-11	METAL CHIP 100K	5% 1/10W
R584	1-216-845-11	METAL CHIP 100K	5% 1/10W
R585	1-216-821-11	METAL CHIP 1K	5% 1/10W
R587	1-216-845-11	METAL CHIP 100K	5% 1/10W
R588	1-216-845-11	METAL CHIP 100K	5% 1/10W
R589	1-216-833-11	METAL CHIP 10K	5% 1/10W
R591	1-216-821-11	METAL CHIP 1K	5% 1/10W
R592	1-216-809-11	METAL CHIP 100	5% 1/10W
R593	1-216-809-11	METAL CHIP 100	5% 1/10W
R594	1-216-845-11	METAL CHIP 100K	5% 1/10W
R595	1-216-845-11	METAL CHIP 100K	5% 1/10W
R596	1-216-845-11	METAL CHIP 100K	5% 1/10W
R598	1-216-809-11	METAL CHIP 100	5% 1/10W
R599	1-216-845-11	METAL CHIP 100K	5% 1/10W
R601	1-216-841-11	METAL CHIP 47K	5% 1/10W
R602	1-216-817-11	METAL CHIP 470	5% 1/10W
R603	1-245-816-11	METAL CHIP 2.2K	0.5% 1/10W
R604	1-216-827-11	METAL CHIP 3.3K	5% 1/10W
R605	1-216-817-11	METAL CHIP 470	5% 1/10W
R606	1-216-817-11	METAL CHIP 470	5% 1/10W
R607	1-216-836-11	METAL CHIP 18K	5% 1/10W
R608	1-245-806-11	METAL CHIP 820	0.5% 1/10W
R609	1-245-816-11	METAL CHIP 2.2K	0.5% 1/10W
R610	1-216-827-11	METAL CHIP 3.3K	5% 1/10W
R611	1-249-413-11	CARBON 470	5% 1/4W
R701	1-216-864-11	SHORT CHIP 0	
R702	1-216-864-11	SHORT CHIP 0	
R705	1-216-864-11	SHORT CHIP 0	
R707	1-216-809-11	METAL CHIP 100	5% 1/10W
R708	1-216-864-11	SHORT CHIP 0	
R709	1-216-845-11	METAL CHIP 100K	5% 1/10W
R710	1-216-809-11	METAL CHIP 100	5% 1/10W
R711	1-216-809-11	METAL CHIP 100	5% 1/10W
R713	1-216-845-11	METAL CHIP 100K	5% 1/10W
R716	1-216-864-11	SHORT CHIP 0	
R815	1-216-821-11	METAL CHIP 1K	5% 1/10W
R816	1-216-821-11	METAL CHIP 1K	5% 1/10W
R858	1-216-849-11	METAL CHIP 220K	5% 1/10W
R862	1-216-849-11	METAL CHIP 220K	5% 1/10W
R865	1-216-864-11	SHORT CHIP 0	
R866	1-216-821-11	METAL CHIP 1K	5% 1/10W
R867	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
< SWITCH >			
S401	1-786-826-11	SWITCH, TACTILE (RESET)	
< SURGE ABSORBER >			
VR1	1-805-043-11	ABSORBER, CHIP SURGE	
< VIBRATOR >			
X1	1-814-302-11	QUARTZ CRYSTAL UNIT (4MHz)	
X501	1-814-207-21	VIBRATOR, CERAMIC (7.92MHz)	
X502	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)	

A-1768-002-A SERVO BOARD, COMPLETE

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Ref. No.	Part No.	Description	Remark
MISCELLANEOUS *****			
6	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER) (GT454US)	
6	1-833-974-21	CONNECTION CORD FOR AUTOMOBILE (POWER) (GT450U)	
△ 103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)	
109	1-838-286-11	CABLE, FLEXIBLE FLAT (13 CORE)	
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
*****			
ACCESSORIES *****			
1-479-077-14		REMOTE COMMANDER (RM-X151) (GT450U)	
2-548-729-01		LID, BATTERY CASE (for RM-X151) (GT450U)	
4-198-111-11		MANUAL, INSTRUCTION (ENGLISH,FRENCH) (GT450U)	
4-198-111-31		MANUAL, INSTRUCTION (RUSSIAN,UKRAINIAN) (GT454US)	
4-198-112-11		MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (GT450U)	
4-198-112-31		MANUAL, INSTRUCTION, INSTALL (RUSSIAN, UKRAINIAN) (GT454US)	
X-2187-544-3		CASE ASSY (for FRONT PANEL) (GT454US)	
*****			
PARTS FOR INSTALLATION AND CONNECTIONS *****			
151	X-2548-065-1	FRAME ASSY, FITTING	
152	1-465-459-41	ADAPTOR, ANTENNA (GT454US)	
153	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER) (GT454US)	
154	1-833-974-21	CONNECTION CORD FOR AUTOMOBILE (POWER) (GT450U)	
155	3-876-675-01	KEY (FRAME)	
156	4-183-280-01	COLLAR	
157	X-3382-926-1	SCREW ASSY (BS), FITTING (GT454US)	
158	3-349-410-11	BUSHING (GT454US)	
159	3-934-325-01	SCREW, +K (5X8) TAPPING (GT450U)	



MEMO

