

CDX-GT317EE/GT360

SERVICE MANUAL

Ver. 1.1 2007.03

Saudi Arabia Model
CDX-GT360

East European Model
CDX-GT317EE



(Photo: CDX-GT317EE)

- The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-GT262/GT217
CD Drive Mechanism Type	MG-101TA-188//Q
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

CD player section

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

Tuner section

FM

Tuning range GT317EE:
FM1/FM2: 87.5 – 108.0 MHz
(at 50 kHz step)
FM3: 65 – 74 MHz (at 30 kHz step)
GT360:
87.5 – 108.0 MHz
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz/450 kHz
Usable sensitivity 9 dBf
Selectivity 75 dB at 400 kHz
Signal-to-noise ratio 67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz
0.5% (stereo), 0.3% (mono)
Separation 35 dB at 1 kHz
Frequency response 30 – 15,000 Hz

MW/LW (GT317EE)

Tuning range MW: 531 – 1,602 kHz
LW: 153 – 279 kHz
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz/450 kHz
Sensitivity MW: 30 µV, LW: 40 µV

MW/SW (GT360)

Tuning range MW: 531 – 1,602 kHz
SW1: 2,940 – 7,735 kHz
SW2: 9,500 – 18,135 kHz
(except for 10,140 – 11,575 kHz)
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz/450 kHz
Sensitivity 30 µV

Power amplifier section

Outputs Speaker outputs (sure seal connectors)
Speaker impedance 4 – 8 ohms
Maximum power output
GT317EE: 50 W × 4 (at 4 ohms)
GT360: 52 W × 4 (at 4 ohms)

– Continued on next page –

FM/MW/LW COMPACT DISC PLAYER
CDX-GT317EE

FM/MW/SW COMPACT DISC PLAYER
CDX-GT360

CDX-GT317EE/GT360

General

Outputs	Audio outputs terminal (sub/rear switchable) Power antenna relay control terminal Power amplifier control terminal
Inputs	Telephone ATT control terminal (GT317EE) BUS control input terminal BUS audio input terminal Antenna input terminal AUX input jack (stereo mini jack)
Tone controls	Low: ± 10 dB at 60 Hz (XPLOD) Mid: ± 10 dB at 1 kHz (XPLOD) High: ± 10 dB at 10 kHz (XPLOD)
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 179 mm (7 1/8 × 2 × 7 1/8 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 162 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)
Mass	Approx. 1.2 kg (2 lb. 11 oz.)
Supplied accessories	Card remote commander: RM-X151 Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

SERVICE NOTES

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

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts. The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

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

Notes on Chip Component Replacement

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

TEST DISCS

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

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

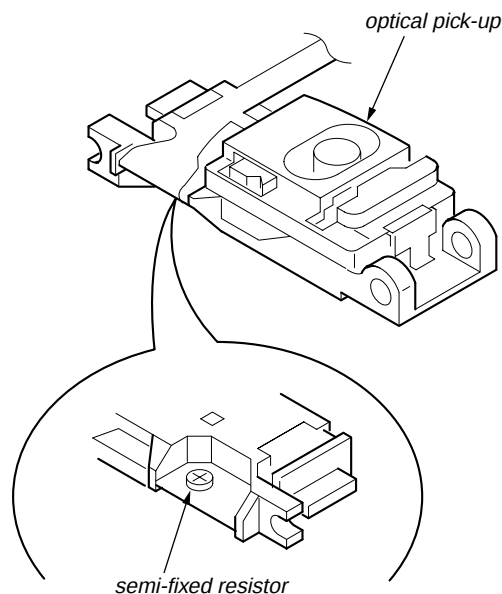
PATD-012 (Part No. 4-225-203-01)

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.

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

**CLASS 1
LASER PRODUCT**

This label is located on the bottom of the chassis.

• CD playback

You can play CD-DA (also containing CD TEXT*), CD-R/CD-RW (MP3/WMA files also containing Multi Session).

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

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

● UNLEADED SOLDER

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

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

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 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!

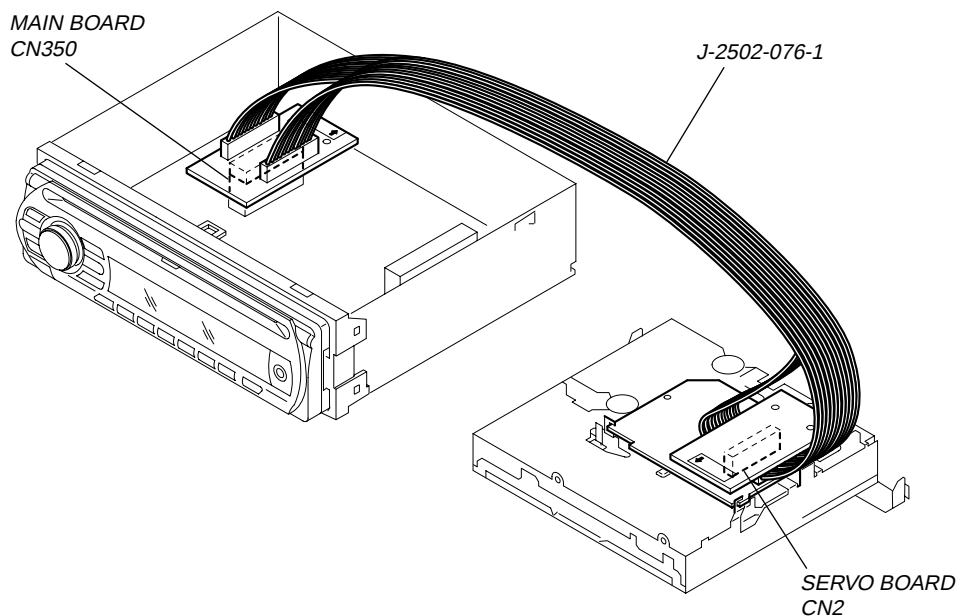
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder

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

EXTENSION CABLE AND SERVICE POSITION

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

- Connect the MAIN board (CN350) and the SERVO board (CN2) with the extension cable (Part No. J-2502-076-1).



NOTE FOR REPLACEMENT OF THE SERVO BOARD

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

NOTE FOR REPLACEMENT OF THE AUX JACK (J901)

- To replace the AUX jack requires alignment.
1. Insert the AUX jack into the KEY board.
 2. Place the KEY board on the front panel.
 3. Solder the three terminals of the jack.

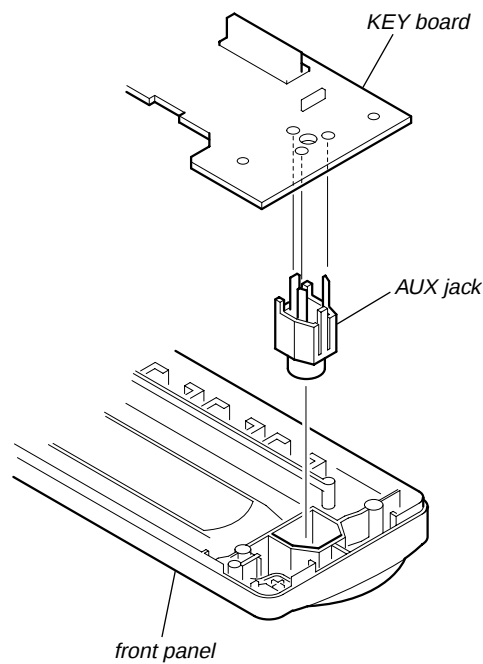


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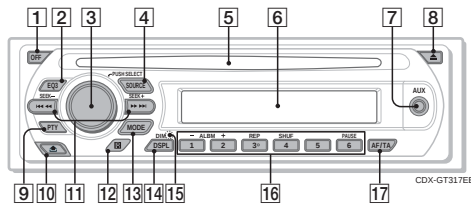
SECTION 1 GENERAL

This section is extracted
from instruction manual.

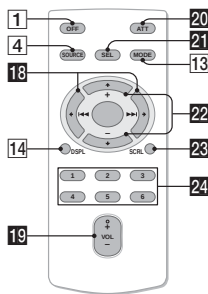
• LOCATION OF CONTROLS • CDX-GT317EE

Location of controls and basic operations

Main unit



Card remote commander RM-X151



Refer to the pages listed for details. The corresponding buttons on the card remote commander control the same functions as those on the unit.

- 1 OFF button**
To power off; stop the source.
- 2 EQ3 (equalizer) button 11**
To select an equalizer type (XPLOD, VOCAL, EDGE, CRUISE, SPACE, GRAVITY, CUSTOM or OFF).
- 3 Volume control dial/select button 11**
To adjust volume (rotate); select setup items (press and rotate).
- 4 SOURCE button**
To power on; change the source (Radio/CD/MD*/AUX).
- 5 Disc slot**
Insert the disc (label side up); playback starts.
- 6 Display window**
- 7 AUX input jack 12**
To connect a portable audio device.
- 8 (eject) button**
To eject the disc.
- 9 PTY (Program Type) button 10**
To select PTY in RDS.
- 10 (front panel release) button 5**

11 SEEK +/- buttons

CD:
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast-forward a track (press and hold).
Radio:
To tune in stations automatically (press); find a station manually (press and hold).

12 Receptor for the card remote commander

13 MODE button 8, 12

To select the radio band (FM/MW/LW); select the unit**.

14 DSPL (display)/DIM (dimmer) button 8, 9

To change display items (press); change the display brightness (press and hold).

15 RESET button (located behind the front panel) 4

16 Number buttons

CD/MD*1:
①/②: **ALBM +/-***2+4
To skip albums (press); skip albums continuously (press and hold).

③: **REP 8**

④: **SHUF 8**

⑤: **PAUSE***5
To pause playback. To cancel, press again.

Radio:
To receive stored stations (press); store stations (press and hold).

17 AF (Alternative Frequencies)/TA (Traffic Announcement) button 9

To set AF and TA in RDS.

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

18 (←/⏮) (→/⏭) buttons

To control CD/radio, the same as (SEEK) +/- on the unit.

19 VOL (volume) +/- button

To adjust volume.

20 ATT (attenuate) button

To attenuate the sound. To cancel, press again.

21 SEL (select) button

The same as the select button on the unit.

22 (↑/⏮) (↓/⏭) buttons

To control CD, the same as ①/② (ALBM +/-) on the unit.

23 SCRL (scroll) button 8

To scroll the display item.

24 Number buttons

To receive stored stations (press); store stations (press and hold).

*1 When an MD changer is connected.

*2 When a CD/MD changer is connected.

*3 When an MP3/WMA is played.

*4 If the changer is connected, the operation is different, see page 13.

*5 When playing back on this unit.

Note

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

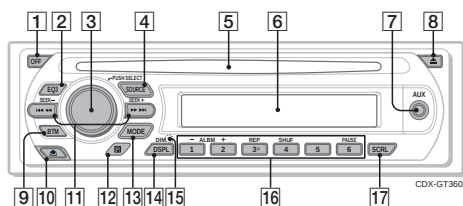
Tip

For details on how to replace the battery, see "Replacing the lithium battery of the card remote commander" on page 15.

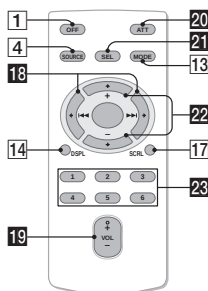
• CDX-GT360

Location of controls and basic operations

Main unit



Card remote commander RM-X151



Refer to the pages listed for details. The corresponding buttons on the card remote commander control the same functions as those on the unit.

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- 6 Display window**
- 7 AUX input jack 10**
To connect a portable audio device.
- 8 (eject) button**
To eject the disc.
- 9 BTM button 8**
To start the BTM function (press and hold).
- 10 (front panel release) button 5**

11 SEEK +/- buttons

CD:
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast-forward a track (press and hold).
Radio:
To tune in stations automatically (press); find a station manually (press and hold).

12 Receptor for the card remote commander

13 MODE button 8, 11

To select the radio band (FM/MW/SW); select the unit**.

14 DSPL (display)/DIM (dimmer) button 8

To change display items (press); change the display brightness (press and hold).

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16 Number buttons

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①/②: **ALBM +/-***2+4
To skip albums (press); skip albums continuously (press and hold).

③: **REP 8**

④: **SHUF 8**

⑤: **PAUSE***5
To pause playback. To cancel, press again.

Radio:
To receive stored stations (press); store stations (press and hold).

17 SCRL (scroll) button 8

To scroll the display item.

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

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To control CD/radio, the same as (SEEK) +/- on the unit.

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To adjust volume.

20 ATT (attenuate) button

To attenuate the sound. To cancel, press again.

21 SEL (select) button

The same as the select button on the unit.

22 (↑/⏮) (↓/⏭) buttons

To control CD, the same as ①/② (ALBM +/-) on the unit.

23 Number buttons

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*2 When a CD/MD changer is connected.

*3 When an MP3/WMA is played.

*4 If the changer is connected, the operation is different, see page 11.

*5 When playing back on this unit.

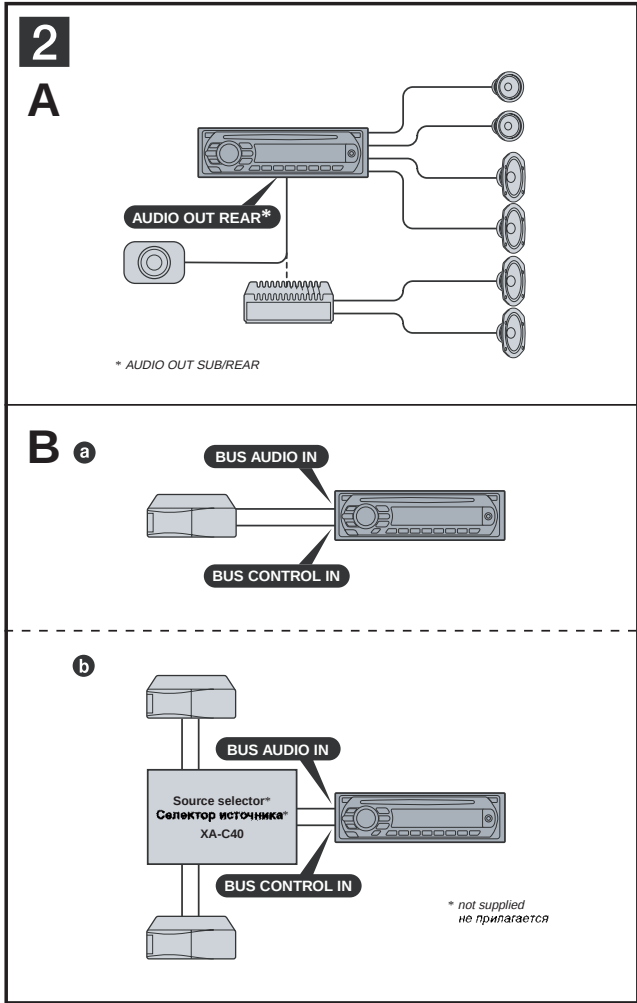
Note

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Tip

For details on how to replace the battery, see "Replacing the lithium battery of the card remote commander" on page 13.

- CONNECTIONS
- CDX-GT317EE

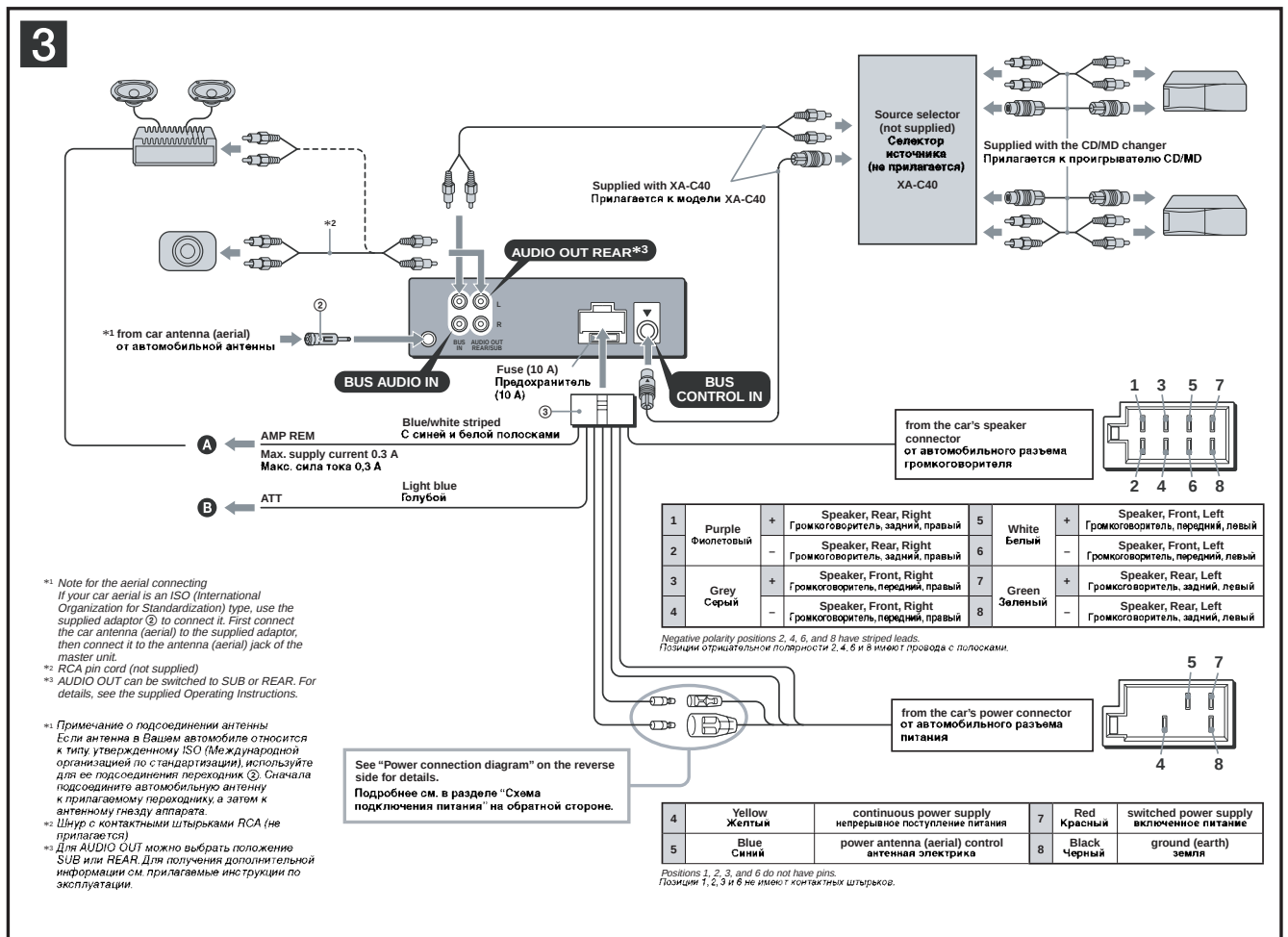


Connection example 2

- Notes (2-A)**
- Be sure to connect the ground (earth) lead before connecting the amplifier.
 - The alarm will only sound if the built-in amplifier is used.
- Tip (2-B-5)**
- For connecting two or more CD/MD changers, the source selector XA-C40 (not supplied) is necessary.

Пример подсоединения 2

- Примечания (2-A)**
- Прежде чем подключать аппарат к усилителю, обязательно подсоедините провод заземления.
 - Звуковой сигнал будет воспроизводиться только в том случае, если используется встроенный усилитель.
- Совет (2-B-5)**
- При подсоединении двух или более проигрывателей CD/MD потребуется селектор источника XA-C40 (не прилагается).



Connection diagram 3

- ① To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.
- ② To the interface cable of a car telephone

Warning

If you have a power antenna (aerial) without a relay box, connecting this unit with the supplied power connecting lead ③ may damage the antenna (aerial).

Notes on the control and power supply leads

- The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner, or when you activate the AF (Alternative Frequency) or TA (Traffic Announcement) function.
- When your car has built-in FM/AM/LW 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.

Схема подсоединения 3

- ① 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.
- ② К интерфейсному кабелю автомобильного телефона

Предостережение

Если бы использовали антенну с электрическим приводом без релейного блока, подсоединение этого аппарата посредством прилагаемого провода питания ③ может привести к повреждению антенны.

О проводах управления и питания

- При включении тюнера, а также использовании функции AF (Альтернативные частоты) или ТА (Сообщения о текущей ситуации на дорогах) по проводу питания приемной антенны (синему) подается напряжение +12 В постоянного тока.
- Если на заднем/боксовом стекле автомобиля установлена встроенная антенна диапазона FM/AM/LW, подсоедините провод питания приемной антенны (синий) или провод питания аппарата (красный) к клеммам питания существующего усилителя антенны. Чтобы получить дополнительные сведения, обратитесь к своему дилеру.
- Антенны с электрическим приводом, не снабженные релейным блоком, с этим аппаратом использоваться не могут.

Подсоединение для поддержки памяти

Когда к аппарату подсоединен желтый электрический провод, блок памяти будет постоянно получать питание даже при выключенном зажигании.

Примечания относительно подсоединения громкоговорителей

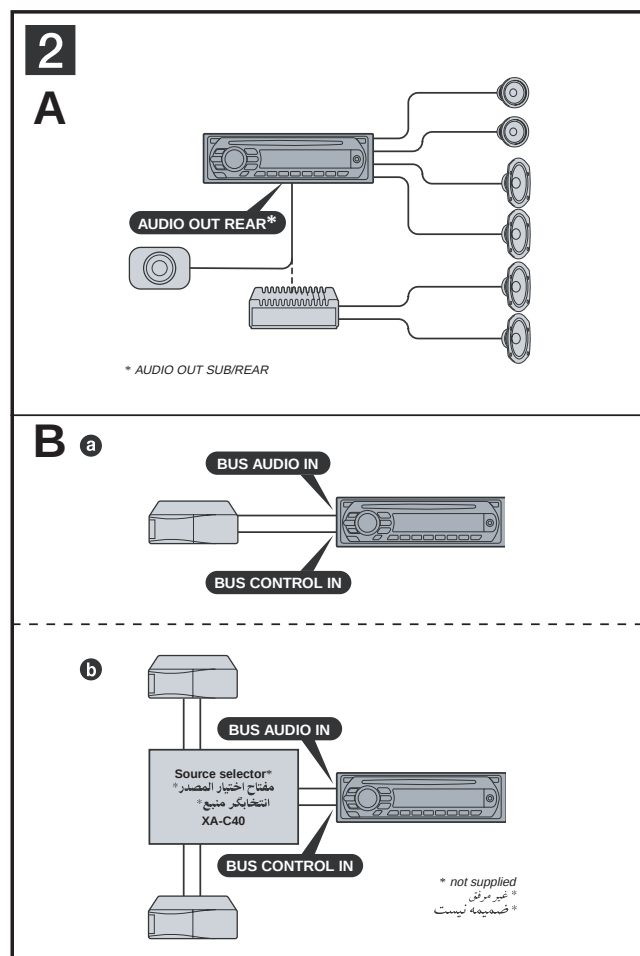
- Прежде чем подсоединять громкоговорители, выключите аппарат.
- Используйте громкоговорители с полным сопротивлением 4-8 Ом, обладающие способностью принимать достаточно мощный сигнал. В противном случае они могут быть повреждены.
- Не подсоединяйте контактные гнезда громкоговорителей к шасси автомобиля 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 используются 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.

• CONNECTIONS

• CDX-GT360



Connection example 2

Notes (2-A)

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

Tip (2-B-5)

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

مثال على التوصيل 2

ملاحظات (2-A)

- تأكد من توصيل سلك الأرض قبل توصيل المضخم.
- سيصدر صوت التنبيه فقط إذا تم استعمال مضخم الصوت الداخلي.

توجيه (2-B-5)

لتوصيل جهازي تغيير أسطوانات CD/MD، ليس من الضروري استعمال مفتاح اختيار المصدر للموديل XA-C40 (غير مرفق).

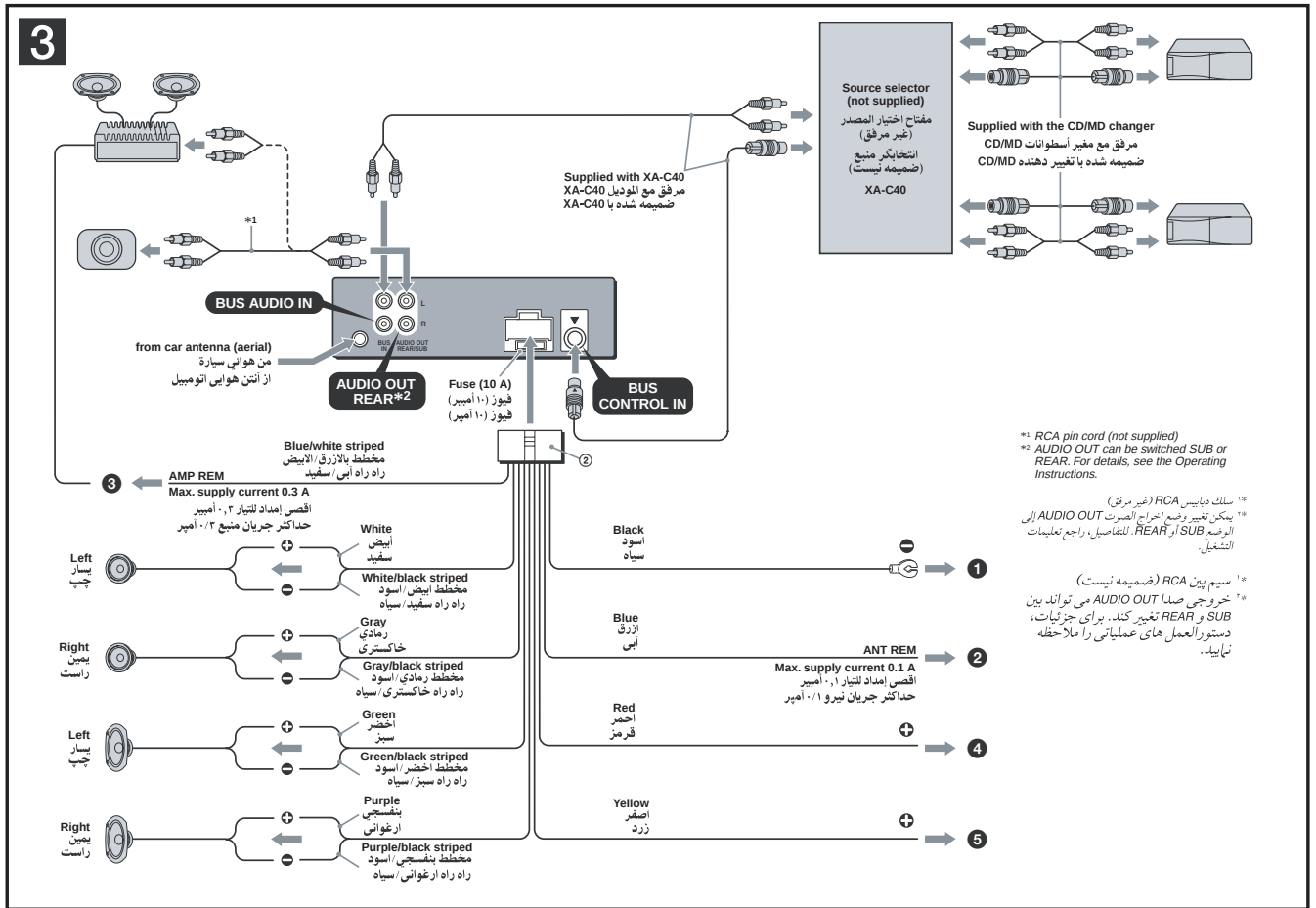
نموه اتصال 2

نكات (2-A)

- اطمینان حاصل کنید که سیم زمین (اِرت) را پیش از وصل کردن تقویت کننده وصل کنید.
- تنها در صورتی که تقویت کننده داخلی مورد استفاده قرار گیرد زنگ به صدا در خواهد آمد.

اشاره (2-B-5)

برای وصل کردن دو تغییر دهنده CD/MD یا بیشتر، انتخابگر منبع XA-C40 (ضمیمه نیست) ضروری است.



Connection diagram 3

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

Notes on the control and power supply leads

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

Memory hold connection
When the yellow power input 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.

مخطط التوصيل 3

- إلى سطح نقطة معدنية في السيارة**
قم أولاً بتوصيل سلك الأرض الأسود، ثم قم بتوصيل الأسلاك الأصفر والأحمر الخاصة بإدخال الطاقة.
- إلى سلك التحكم في الهوائي الألي أو سلك امداد الطاقة بمضخم معزز الهوائي**
ملاحظات
• ليس من الضروري توصيل هذا السلك إذا لم تتوفر هوائي ألي أو معزز هوائي، أو هوائي لتكسيري يعمل يدوياً.
• عندما تكون سيارتك تتضمن هوائي FM/MW/SW داخلي في الزجاج الجانبي الخلفي، راجع قسم ملاحظات حول أسلاك التحكم وإمداد التيار.
- لتوصيل إلى AMP REMOTE IN من مضخم القدرة الاختياري**
هذه التوصيلة مخصصة فقط لأجهزة تضخيم الصوت. توصيل أي جهاز آخر قد يضر بالوحدة.
- إلى طرف التتيار +12 فولت الذي يسري فيه التتيار عندما يكون مفتاح تشغيل المحرك في وضع الكماليات**
ملاحظات
• عند عدم وجود وضع الكماليات، قم بتوصيل إلى طرف التتيار +12 فولت والذي يولد طاقة في جميع الأوقات، تأكد أولاً من توصيل السلك الأسود بسطح نقطة معدنية في السيارة.
• عندما تكون سيارتك تتضمن هوائي FM/MW/SW داخلي في الزجاج الجانبي الخلفي، راجع قسم ملاحظات حول أسلاك التحكم وإمداد التيار.
- إلى طرف توصيل التتيار +12 فولت الذي يسري فيه التتيار باستمرار**
تأكد أولاً من توصيل السلك الأسود بسطح نقطة معدنية في السيارة.

ملاحظات حول أسلاك التحكم وإمداد التيار

- سلك التحكم في الهوائي الألي (الزرق) يزود بإمداد تيار مباشر +12 فولت عندما تقوم بتشغيل المولد.
- عندما تكون سيارتك تتضمن هوائي FM/MW/SW داخلي في الزجاج الجانبي الخلفي، من الضروري توصيل سلك التحكم في الهوائي الألي (الزرق) أو سلك دخل قدرة الكماليات (الأحمر) إلى طرف توصيل القدرة معزز الهوائي الموجود أصلاً. لتزيد من التفاصيل، راجع يد التشغيل.
- لا يمكن استخدام هوائي ألي بدون صندوق ترحيل مع هذه الوحدة.

توصيلة حفظ الذاكرة
عند توصيل سلك التيار الأصفر، يتم إمداد التيار بصورة مستمرة إلى دائرة الذاكرة حتى أثناء إيقاف مفتاح تشغيل المحرك.

- ملاحظات حول توصيل السماعات**
- قبل توصيل السماعات، أوقف تشغيل الجهاز.
 - استخدم سماعات بمقاومة من 4 إلى 8 أوم وسعة تحمل قدرة مناسبة لتقاردي الأصوات.
 - لا تقم بتوصيل أطراف توصيل نظام السماعات ببعضها البعض، ولا تقم بتوصيل أطراف توصيل السماعات اليمنى بأطراف توصيل السماعات اليسرى.
 - لا تقم بتوصيل سلك الأرضي لهذا الجهاز إلى الطرف السالب (-) لسماعة التكنيك.
 - لا تعد إلى توصيل السماعات بشكل متوازي.
 - قم بتوصيل سماعات التكنيك الغير فعالة. توصيل سماعات التكنيك الغير فعالة (بسماعات صوت مدمجة داخلية) إلى أطراف سماعات التكنيك قد يبلخ أضرار بالوحدة.
 - لتفادي الأخطاء، لا تستعمل أسلاك سماعة التكنيك الداخلية المركبة في سيارتك إذا كانت الوحدة تقاسم طرف سالب (-) عام للسماعات اليمنى واليسرى.
 - لا تقم بتوصيل أسلاك سماعة التكنيك ببعضها البعض.

ملاحظة حول التوصيل
إذا لم يتم توصيل السماعة ومضخم الصوت بشكل صحيح، تظهر العبارة "FAILURE" على الشاشة. في هذه الحالة، تأكد من توصيل السماعة ومضخم الصوت بشكل صحيح.

نموذج اتصال 3

- به يك سطح فلزي تو میبل**
ابتدا سیم سیاه زمین را وصل کنید، سپس سیم های زرد و قرمز را وصل کنید.
- به سیم کنترل آنتن هوائی برقی یا سیم منبع برق تقویت کننده هوائی**
تتات
• در صورتی که آنتن هوائی برقی یا تقویت کننده هوائی وجود ندارد، یا با یک آنتن هوائی لتکسیری دستی وصل کردن این سیم ضروری نیست.
• هنگامی که تو میبل شما دارای یک آنتن هوائی FM/MW/SW در شیشه عقبی/کناری می باشد، نکات در مورد سیم های کنترل و منبع برق را ملاحظه نمایید.
- به AMP REMOTE IN با تقویت کننده نیرو اختياری**
این اتصال تنها برای تقویت کننده ها است. وصل کردن هر سیستم دیگری ممکن است دستگاه را خراب کند.
- به ترمینال برق +12 ولت که در موقعیت جانی کلید احتراق نیرو می گیرد**
تتات
• اگر هیچ موقعیت جانی وجود ندارد به ترمینال برق (باطری) +12 ولت که همواره نیرو می گیرد وصل کنید. اطمینان حاصل کنید که ابتدا سیم سیاه زمین را به سطح فلزی تو میبل وصل کنید.
• هنگامی که تو میبل شما دارای یک آنتن هوائی FM/MW/SW در شیشه عقبی/کناری می باشد، نکات در مورد سیم های کنترل و منبع برق را ملاحظه نمایید.
- به ترمینال برق +12 ولت که همواره نیرو می گیرد**
این اتصال تنها برای تقویت کننده ها است. وصل کردن هر سیستم دیگری ممکن است دستگاه را خراب کند.

نکات در مورد سیم های کنترل و منبع برق

- هنگامی که شما موج یاب را روشن می کنید سیم کنترل آنتن هوائی برقی (آبی) برق مستقیم +12 ولت را تأمین می کند.
- هنگامی که تو میبل شما دارای یک آنتن هوائی FM/MW/SW در شیشه عقبی/کناری می باشد، سیم کنترل آنتن هوائی برقی (آبی) یا سیم منبع برق جانی (قرمز) را به ترمینال برق تقویت کننده آنتن هوائی موجود وصل کنید. برای جزئیات، با فروشنده خود مشورت نمایید.
- یک آنتن هوائی بدون یک ایستگاه تقویت نمی تواند با این دستگاه مورد استفاده قرار گیرد.

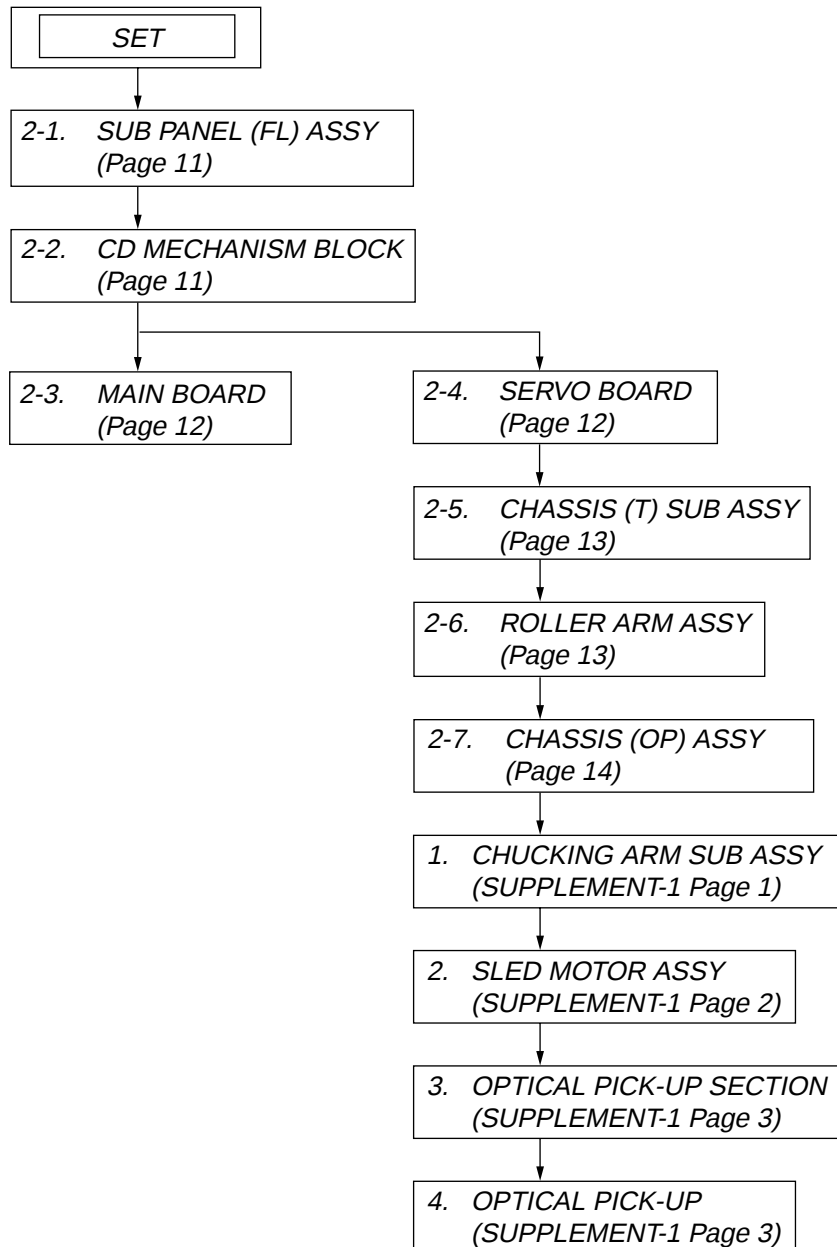
اتصال حفظ حافظه
هنگامی که سیم منبع برق زرد وصل می شود، برق همیشه به مدار حافظه حتی هنگامی که سوئیچ انرژی خاموش است تأمین خواهد شد.

- نکات در مورد اتصال بلندگو**
- پیش از وصل کردن بلندگوها، دستگاه را خاموش کنید.
 - از بلندگوها با ابعاد 4 تا 8 اهم، و با ظرفیت بالای برق استفاده کنید تا از صدمه به آن جلوگیری کنید.
 - توصیل های بلندگو را به شاسی تو میبل وصل نکنید، یا ترمینال های بلندگوهای راست را به ترمینال های بلندگوهای چپ وصل نکنید.
 - سیم زمین این دستگاه را به ترمینال منفی (-) بلندگو وصل نکنید.
 - سعی نکنید بلندگوها را بطور موازی وصل کنید.
 - تنها بلندگوهای غیر فعال را وصل کنید. وصل کردن بلندگوهای فعال (با تقویت کننده های داخلی) به ترمینال های بلندگو ممکن است به دستگاه صدمه وارد کند.
 - برای اجتناب از یک سوء عملکرد، از سیم های بلندگوی داخلی نصب شده در تو میبل خود در صورتی که دستگاه دارای یک سیم منفی (-) مشترک برای بلندگوهای راست و چپ می باشد استفاده نکنید.
 - سیم های بلندگوی دستگاه را به یکدیگر وصل نکنید.

تکنه در مورد اتصال
اگر بلندگو بطور صحیح وصل نشده باشد، "FAILURE" در صفحه نمایش ظاهر می شود. در چنین حالتی، اطمینان حاصل کنید که بلندگو بطور صحیح نصب شده است.

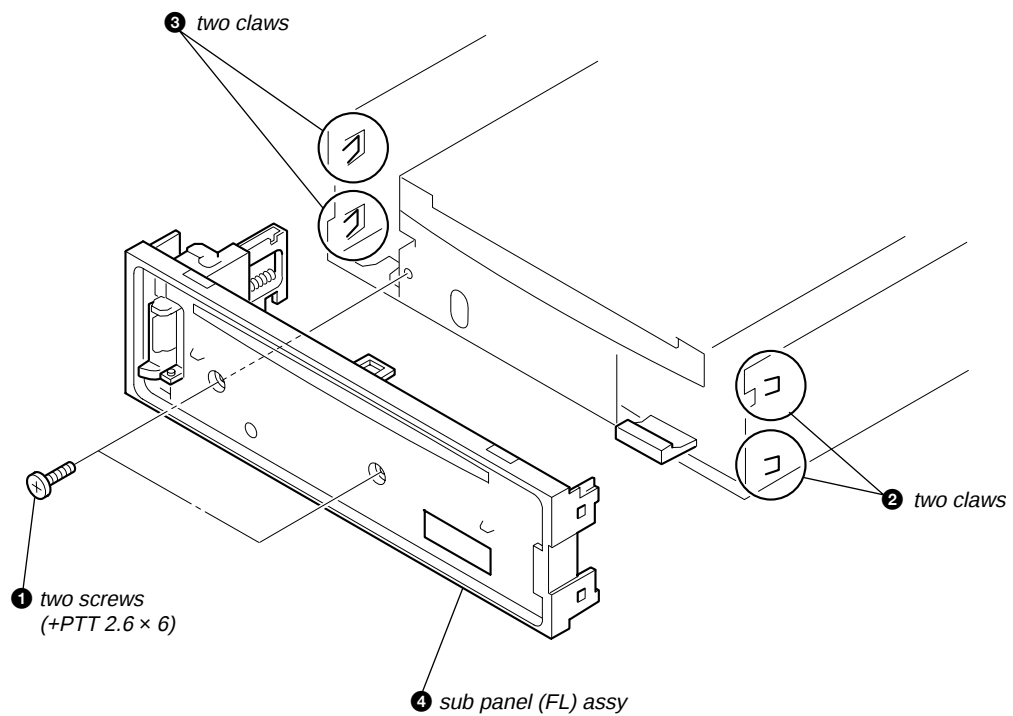
SECTION 2 DISASSEMBLY

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

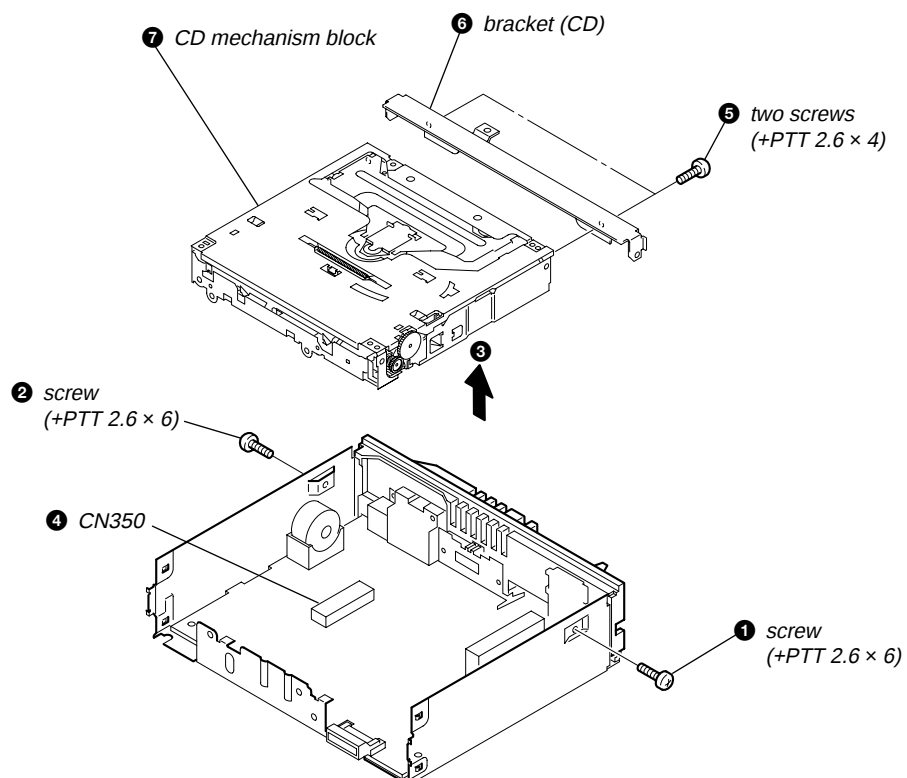


Note: Follow the disassembly procedure in the numerical order given.

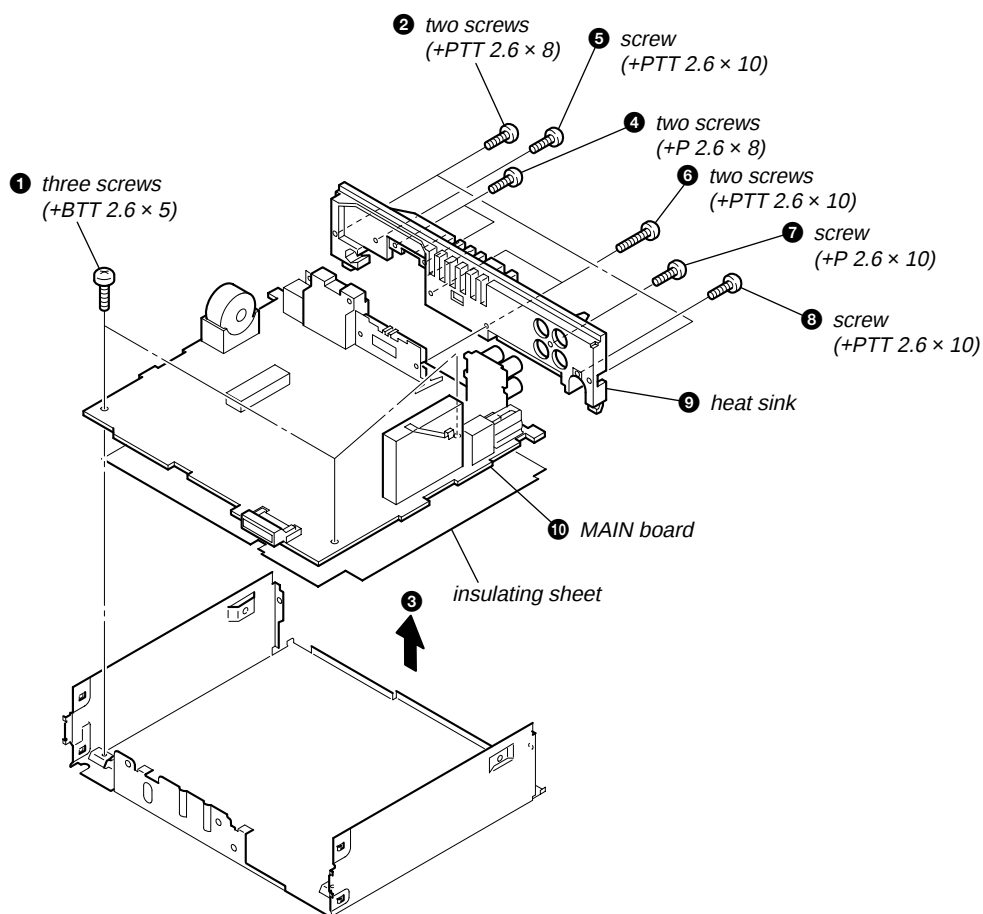
2-1. SUB PANEL (FL) ASSY



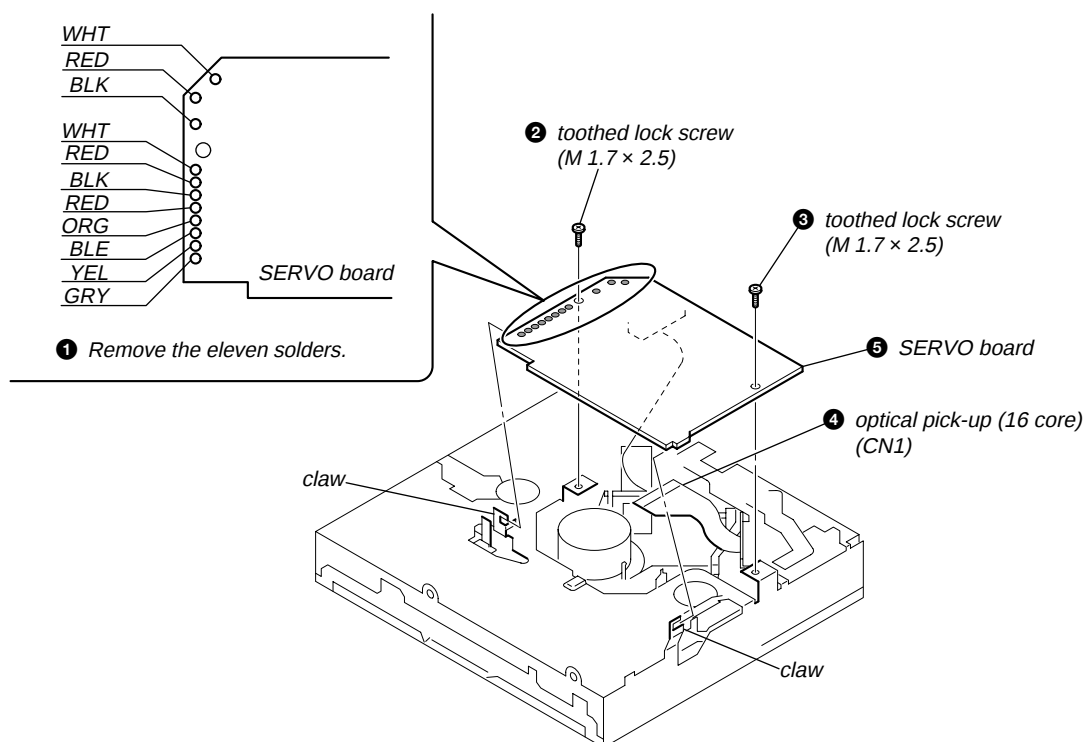
2-2. CD MECHANISM BLOCK



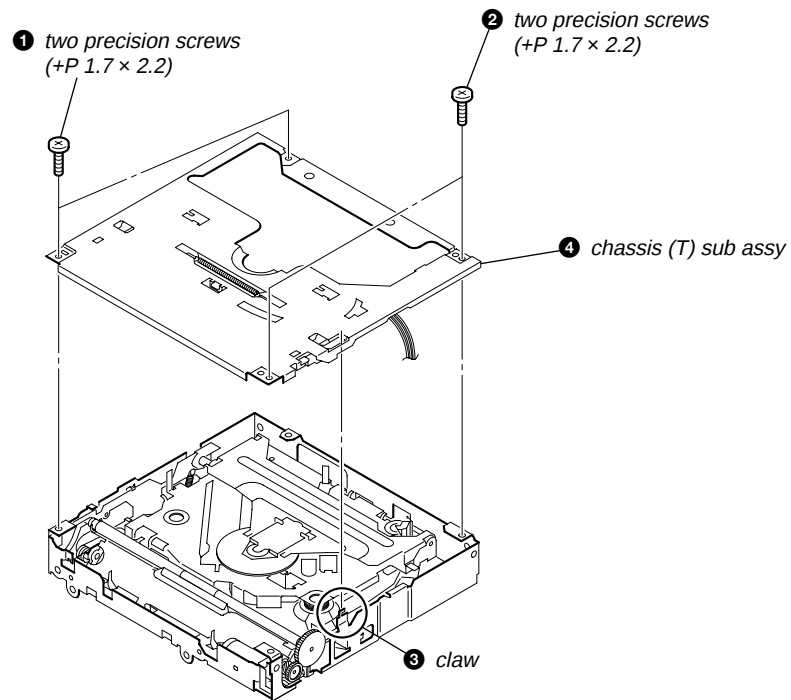
2-3. MAIN BOARD



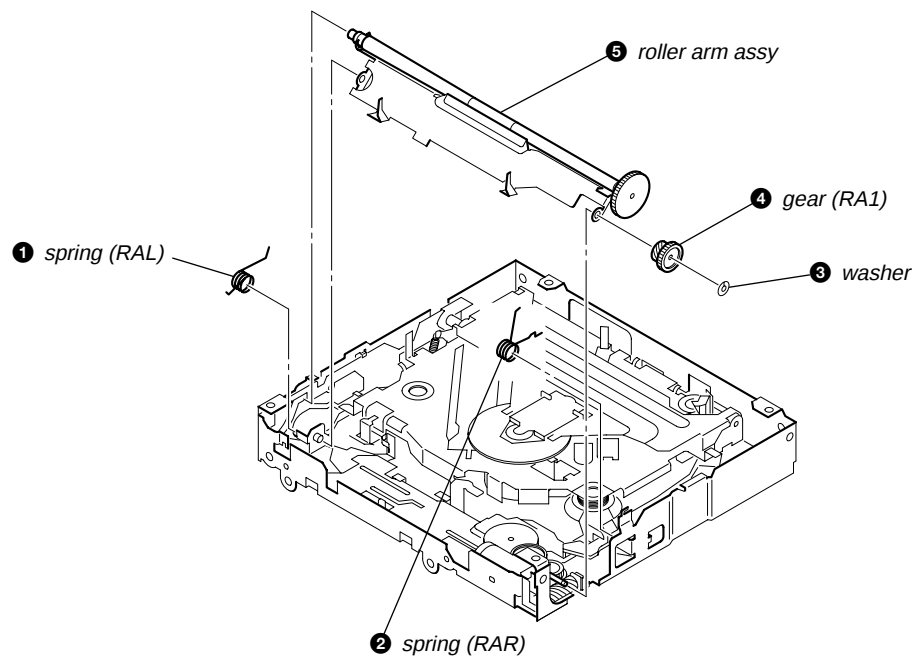
2-4. SERVO BOARD



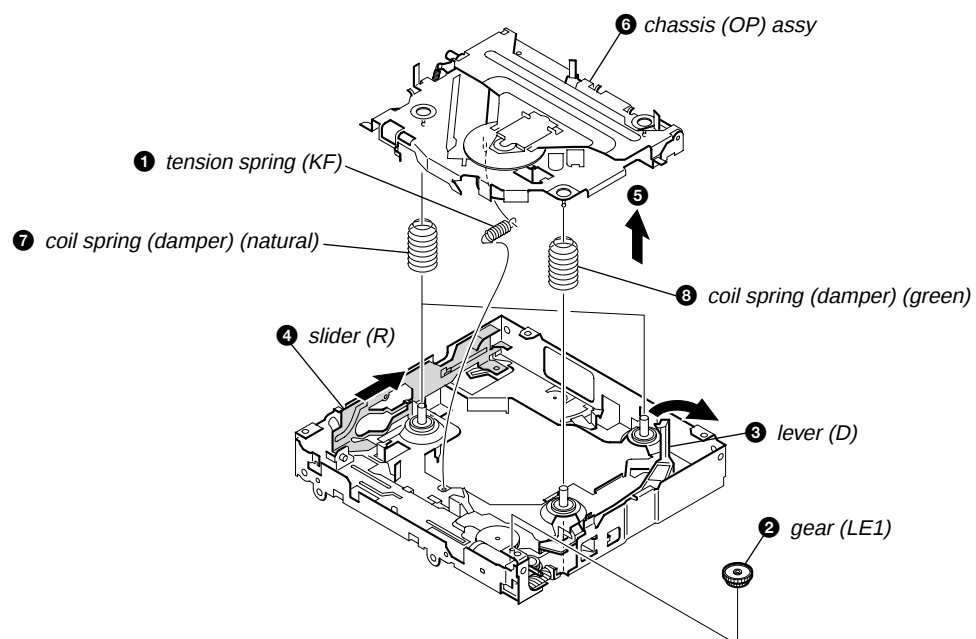
2-5. CHASSIS (T) SUB ASSY



2-6. ROLLER ARM ASSY



2-7. CHASSIS (OP) ASSY



SECTION 3

DIAGNOSIS FUNCTION

Description of the Diagnostics function:

1. Setting the Diag display mode

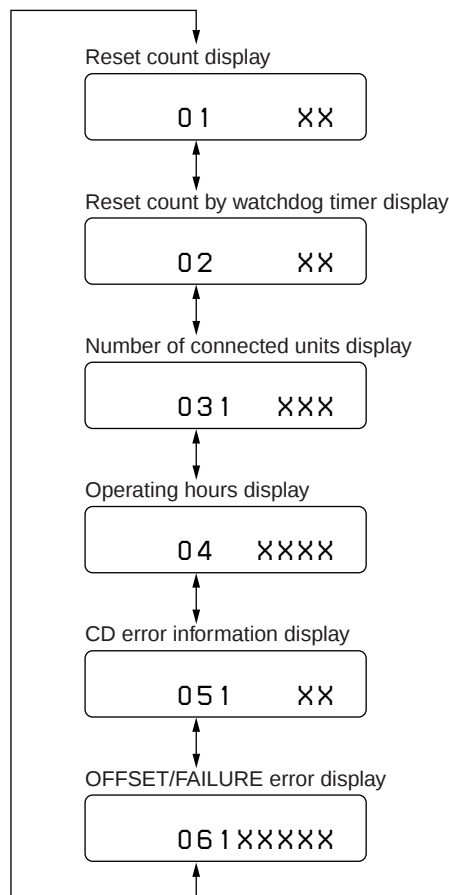
With the power off, press the **[4]** button, **[5]** button, and **[4]** button on the set body or the remote control (for more than 2 seconds) in turn.

2. Canceling the Diag display mode

During the Diag function mode, press the **OFF** button.

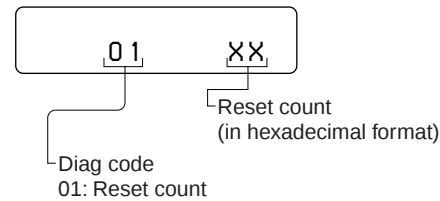
3. Initial display in the Diag display mode.

Just when the Diag mode is entered, “reset count” is displayed. The display mode is switched by each rotation of  or  keys.

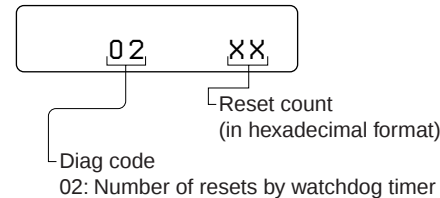


4. Contents of each display mode

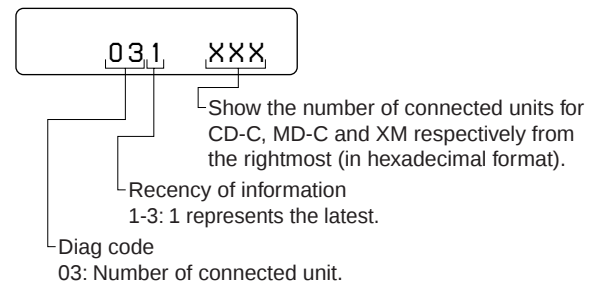
4-1. Reset count display mode



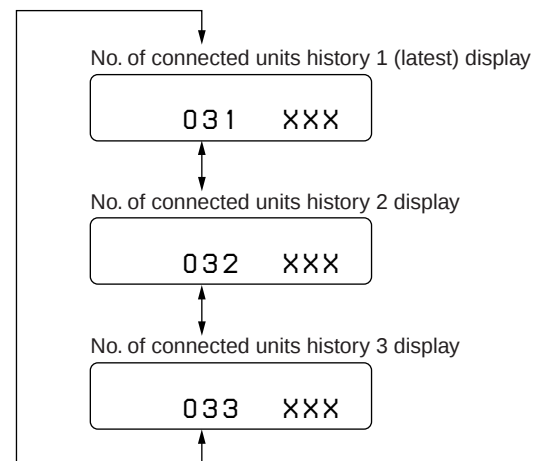
4-2. Reset count by watchdog timer display mode



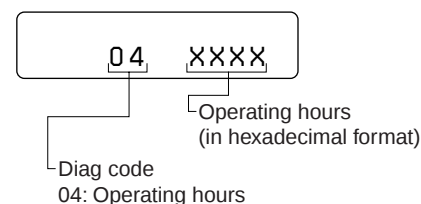
4-3. Number of connected units display mode



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

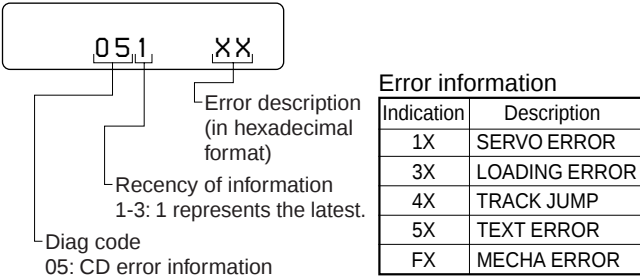


4-4. Operating hours display mode

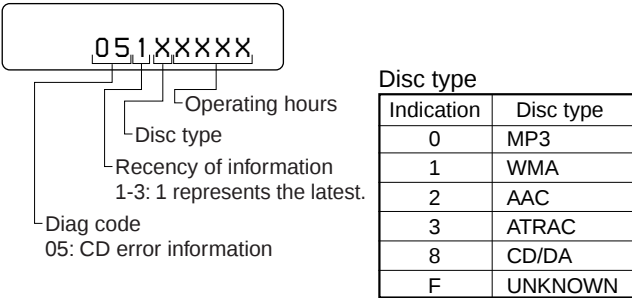


4-5. CD error information display mode

4-5-1. Error description

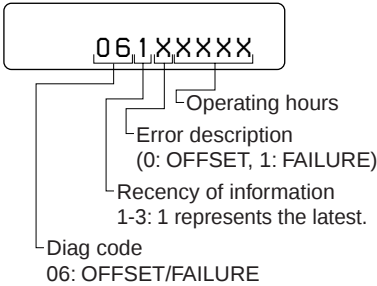


4-5-2. Disc type and operating hours

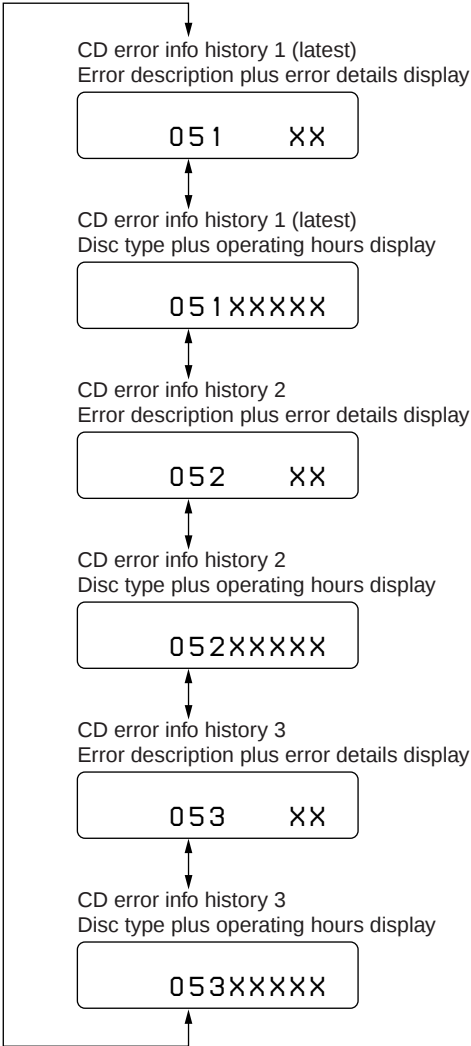
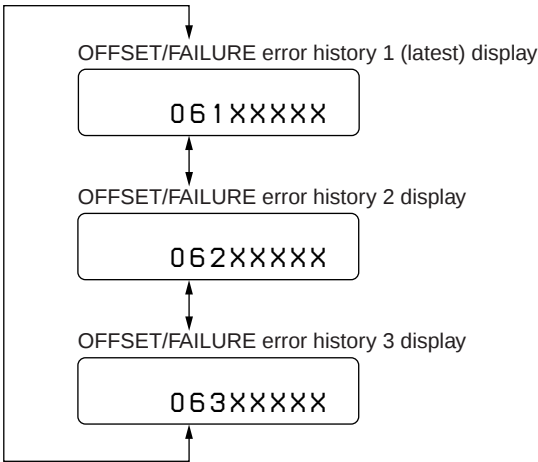


The display mode is switched by each rotation of **[2/ALBM+]** or **[1/ALBM-]** keys during the CD error information display mode.

4-6. OFFSET/FAILURE error display mode

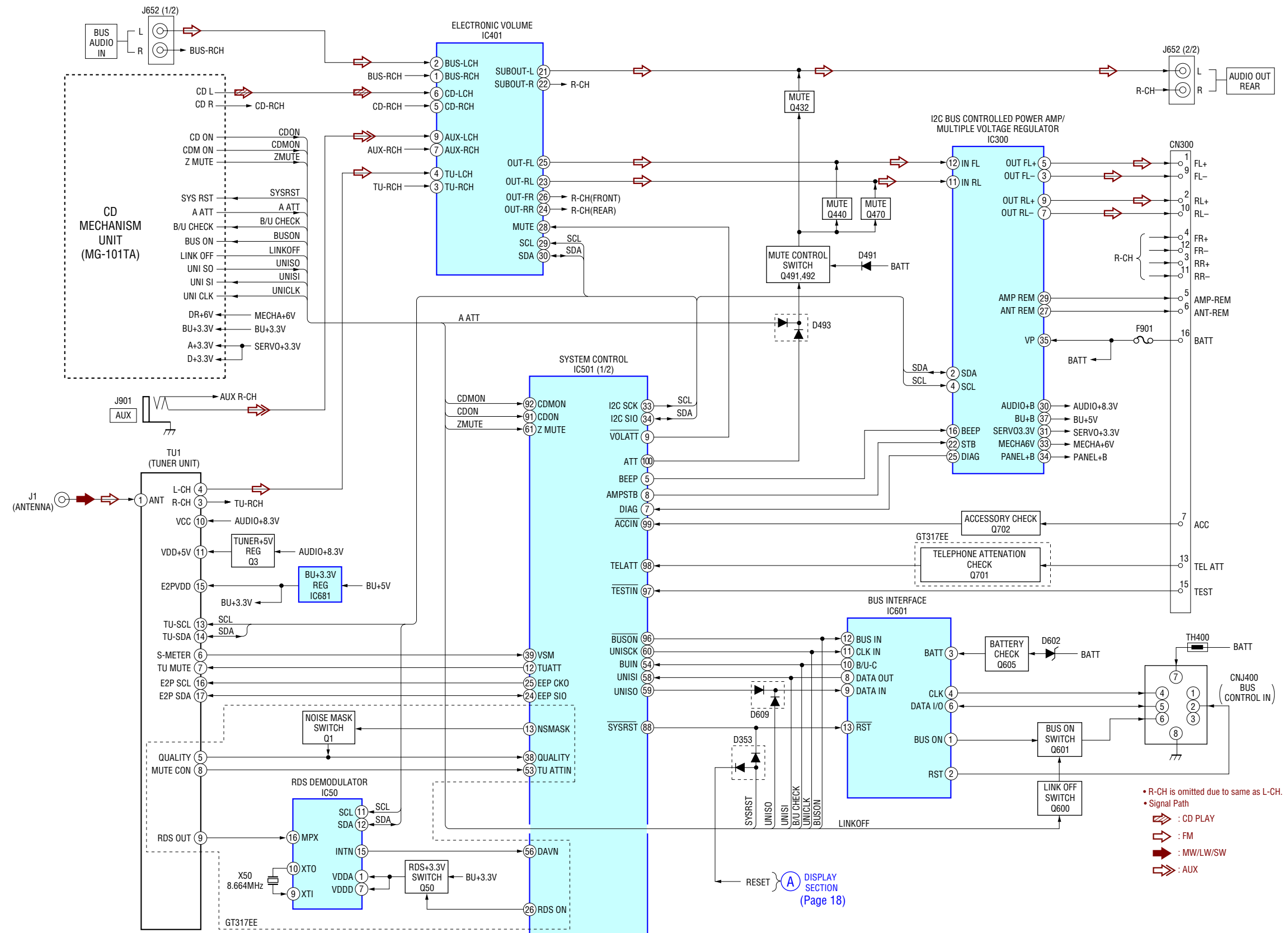


The display mode is switched by each rotation of **[2/ALBM+]** or **[1/ALBM-]** keys during the OFFSET/FAILURE error display mode.

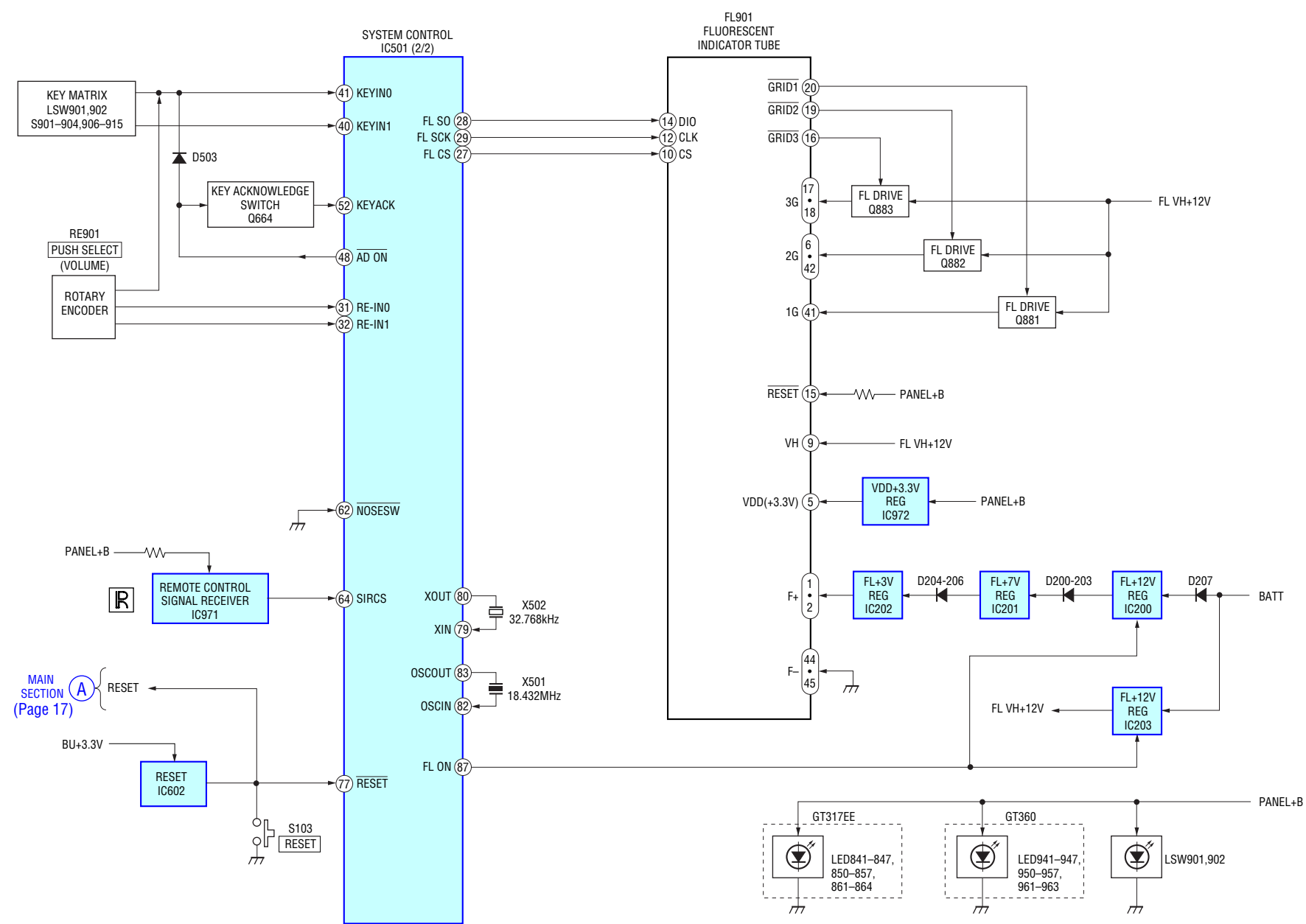


SECTION 4 DIAGRAMS

4-1. BLOCK DIAGRAM — MAIN SECTION —



4-2. BLOCK DIAGRAM — DISPLAY SECTION —



• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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

For schematic diagrams.
Note:

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

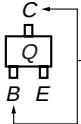
Note: The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

- — : B+ Line.
- - - - : B- Line.
- □ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
- () : MW/LW/SW
- < : CD PLAY
- * : Impossible to measure
- Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- ⇒ : CD PLAY
- ⇨ : FM
- ➡ : MW/LW/SW
- ⇨⇨ : AUX

For printed wiring boards.
Note:

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

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



These are omitted



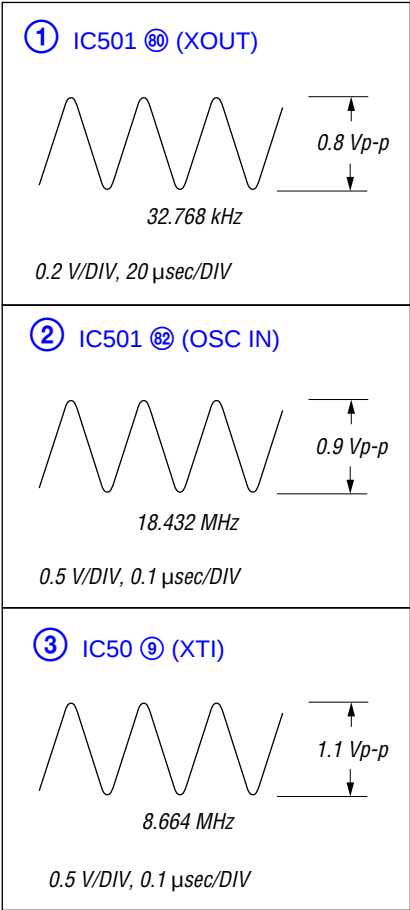
These are omitted



These are omitted

• Waveforms

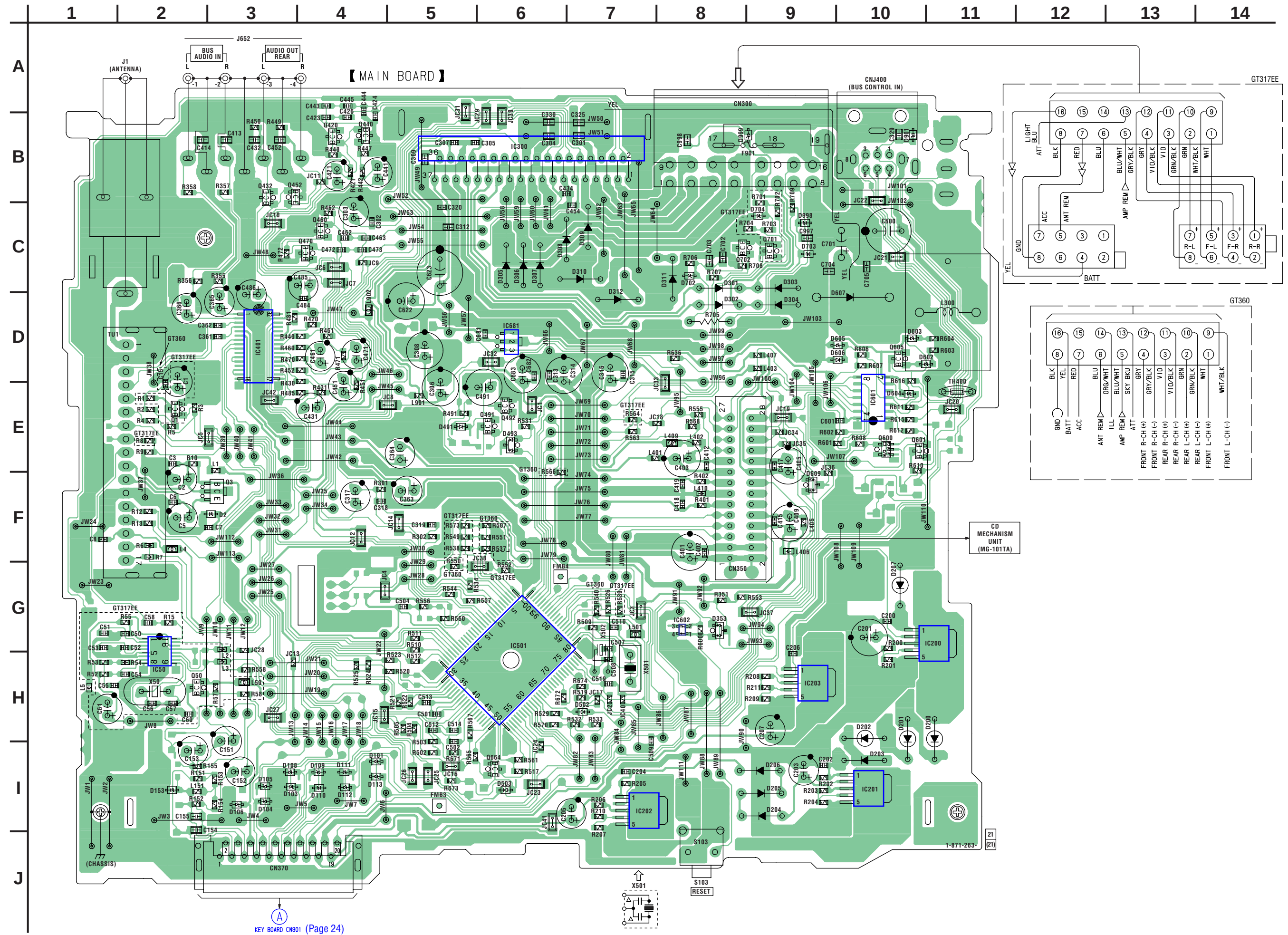
— MAIN Board —



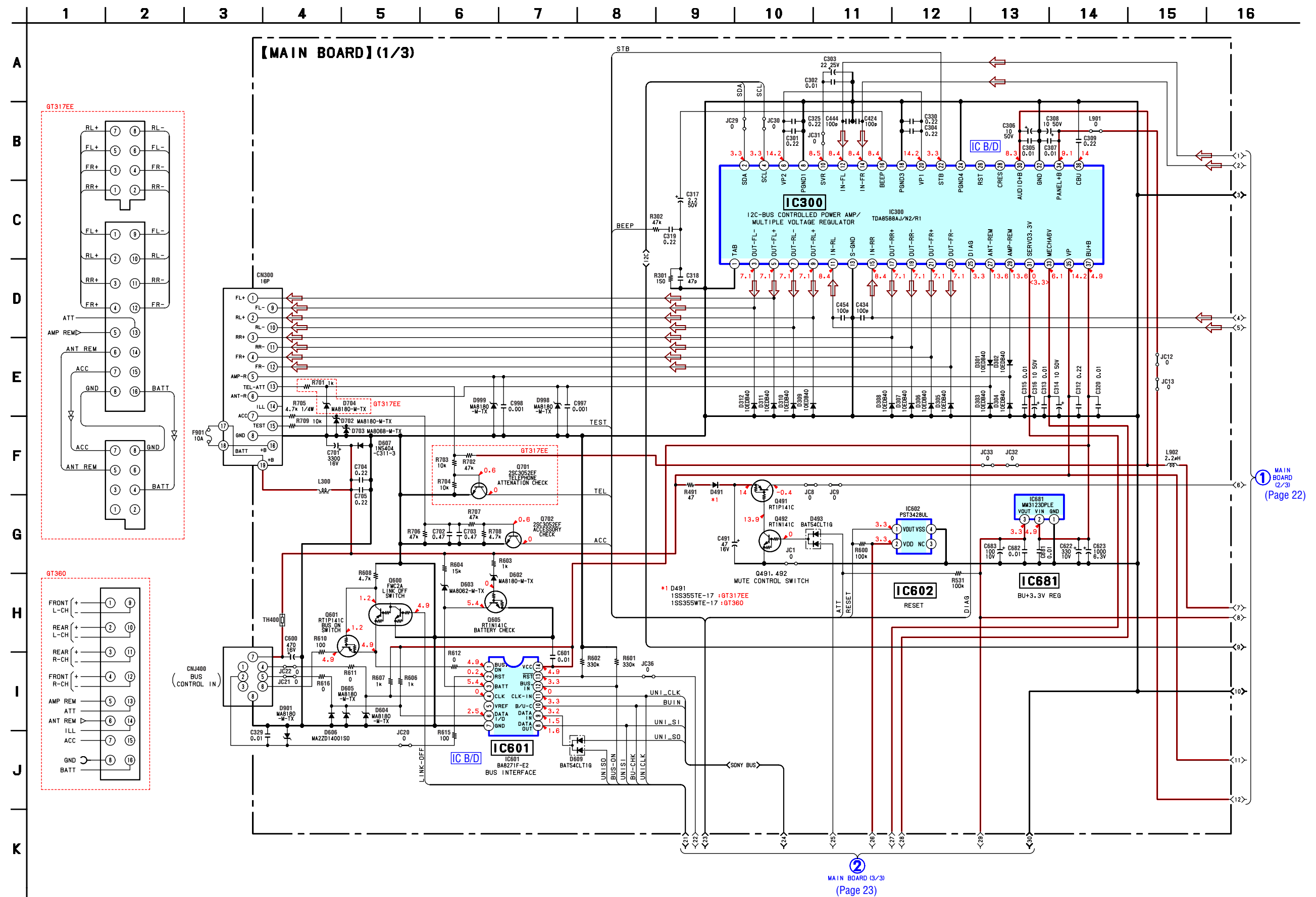
• Semiconductor Location
(MAIN Board)

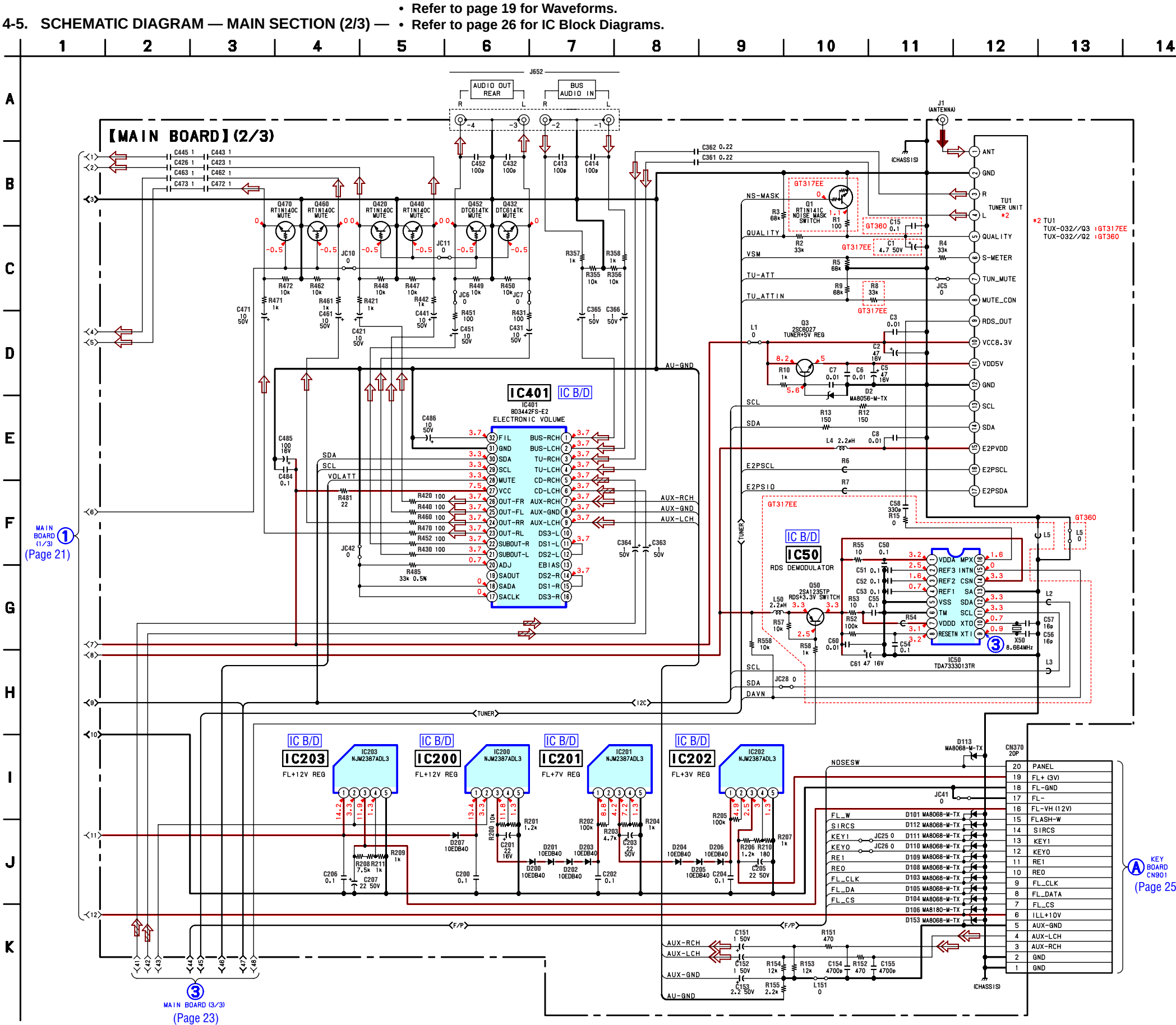
Ref. No.	Location	Ref. No.	Location
D2	F-3	D605	D-10
D101	I-4	D606	D-10
D103	I-3	D607	D-10
D104	I-3	D609	F-9
D105	I-3	D702	C-8
D106	I-3	D703	C-9
D108	I-3	D704	C-9
D109	I-4	D901	B-10
D110	I-4	D998	C-9
D111	I-4	D999	B-8
D112	I-4		
D113	I-4	IC50	H-2
D153	I-2	IC200	G-11
D200	H-10	IC201	I-10
D201	H-10	IC202	I-7
D202	H-10	IC203	H-9
D203	I-10	IC300	B-6
D204	I-9	IC401	D-3
D205	I-9	IC501	G-6
D206	I-9	IC601	E-10
D207	G-10	IC602	G-8
D301	C-8	IC681	D-6
D302	D-8		
D303	C-9	Q1	E-2
D304	D-9	Q3	F-3
D305	C-6	Q50	H-2
D306	C-6	Q420	B-4
D307	C-6	Q432	B-3
D308	C-6	Q440	B-4
D309	C-7	Q452	B-3
D310	C-7	Q460	C-4
D311	C-8	Q470	C-4
D312	D-7	Q491	E-6
D353	G-8	Q492	E-6
D491	E-5	Q600	E-10
D493	E-6	Q601	E-10
D502	H-7	Q605	D-10
D503	I-6	Q664	I-6
D602	D-10	Q701	C-9
D603	D-10	Q702	C-8
D604	E-10		

4-3. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 19 for Semiconductor Location. : Uses unleaded solder.



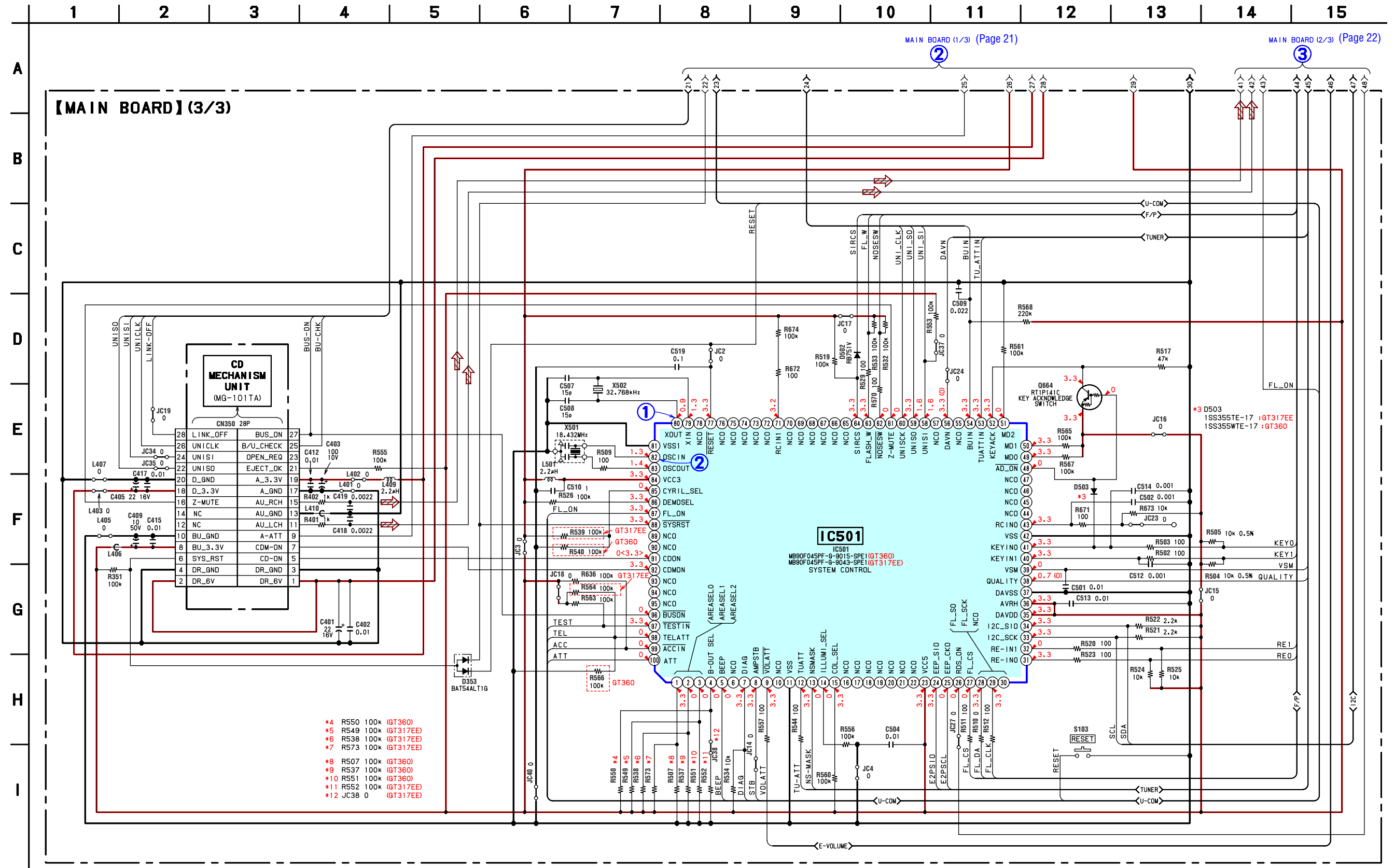
4-4. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 26 for IC Block Diagrams.





4-6. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) —

- Refer to page 19 for Waveforms.
- Refer to page 28 for IC Pin Description of IC501.



【KEY BOARD】(SIDE A)

LED843, 943, S902 OFF

LED844, 944, S904 EQ3

LSW902 SEEK-

LED845, 945, S906 PTY

LED846, 946, S903 SOURCE LSW901 SEEK+

LED842, 942 (CD INDICATOR)

LED841, 941, S901

LED847, 947, S907 MODE

LED850, 950, S908 DSPL/DIM

LED851, 951, S909 1/ALBM-

LED852, 952, S910 2/ALBM+

LED853, 953, S911 3/REP

LED854, 954, S912 4/SHUF

LED855, 955, S913 5

LED856, 956, S914 6/PAUSE

LED857, 957, S915 AF/TA (GT317EE) SCRL (GT360)

IC971

RE901 PUSH SELECT (VOLUME)

FL901 FLUORESCENT INDICATOR TUBE

IC972

IC975

IC976

IC977

IC978

IC979

IC980

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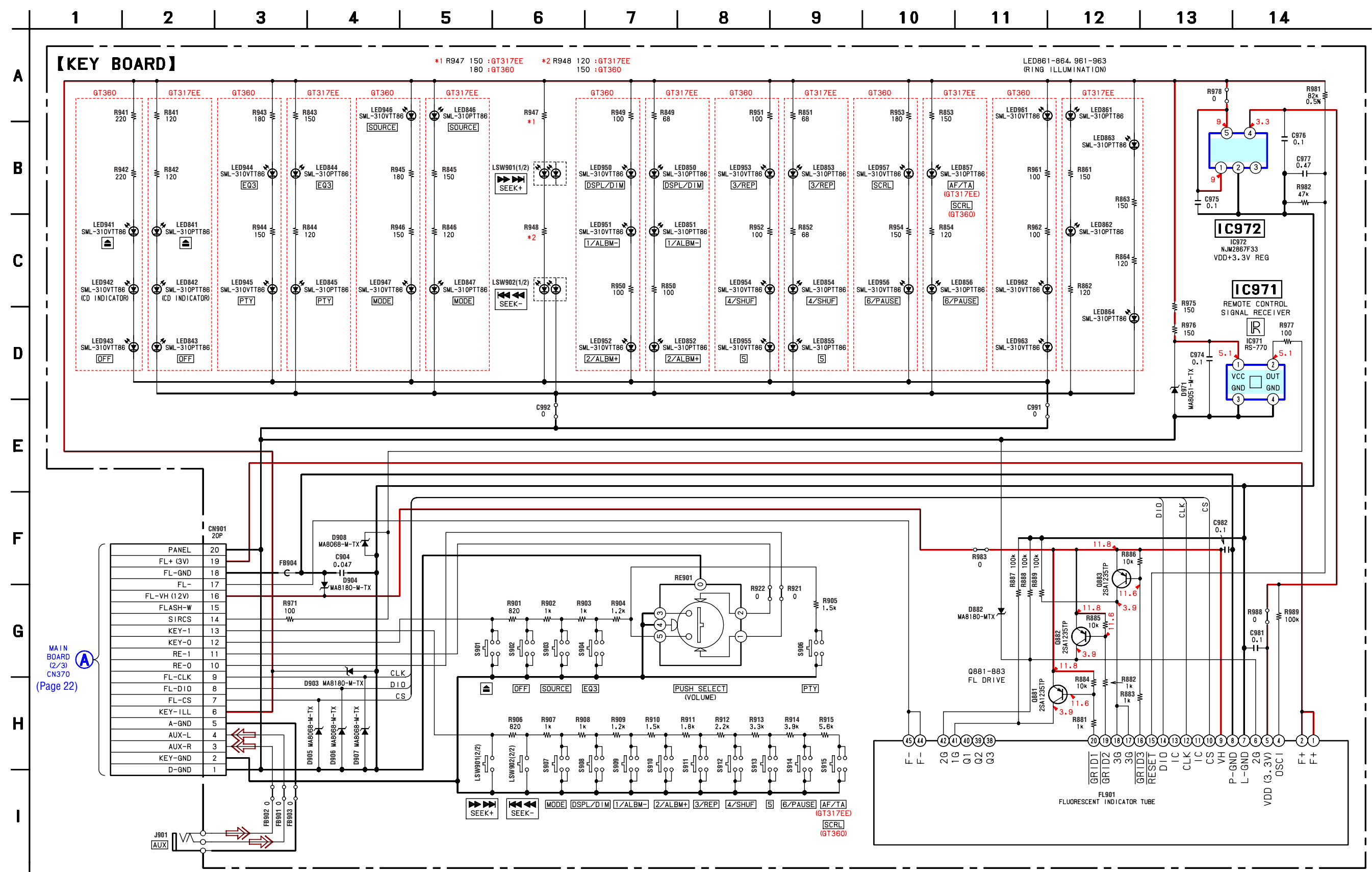
IC1293

IC1294

IC12

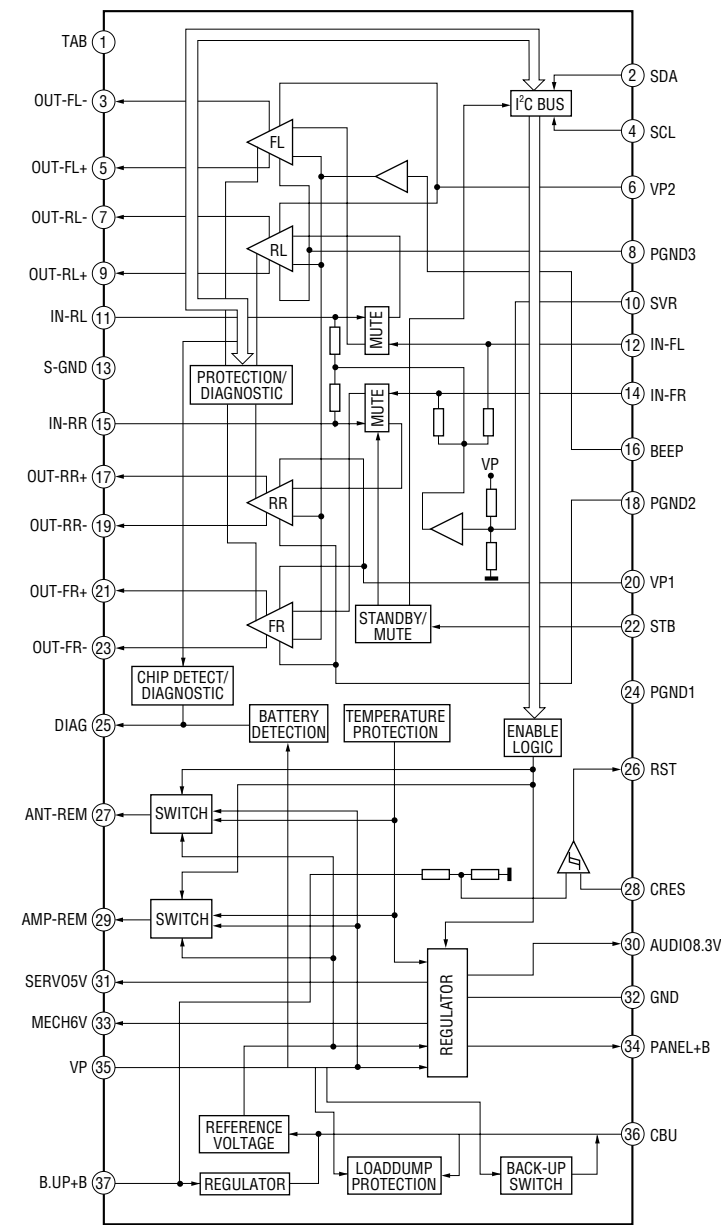
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D882	F-7	LED843	A-1	LED862	B-2	LED954	C-8
D903	F-10	LED844	B-2	LED863	B-3	LED955	C-9
D904	F-9	LED845	C-2	LED864	C-3	LED956	C-10
D905	F-10	LED846	B-4	LED941	A-12	LED957	C-10
D906	F-10	LED847	C-4	LED942	B-7	LED961	B-3
D907	F-10	LED850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

4-8. SCHEMATIC DIAGRAM — KEY SECTION —

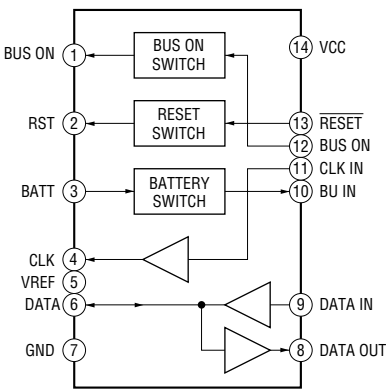


• IC BLOCK DIAGRAMS

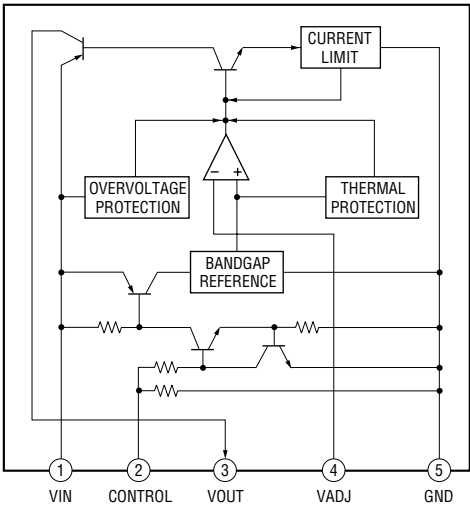
IC300 TDA8588AJ/N2/R1 (MAIN Board (1/3))



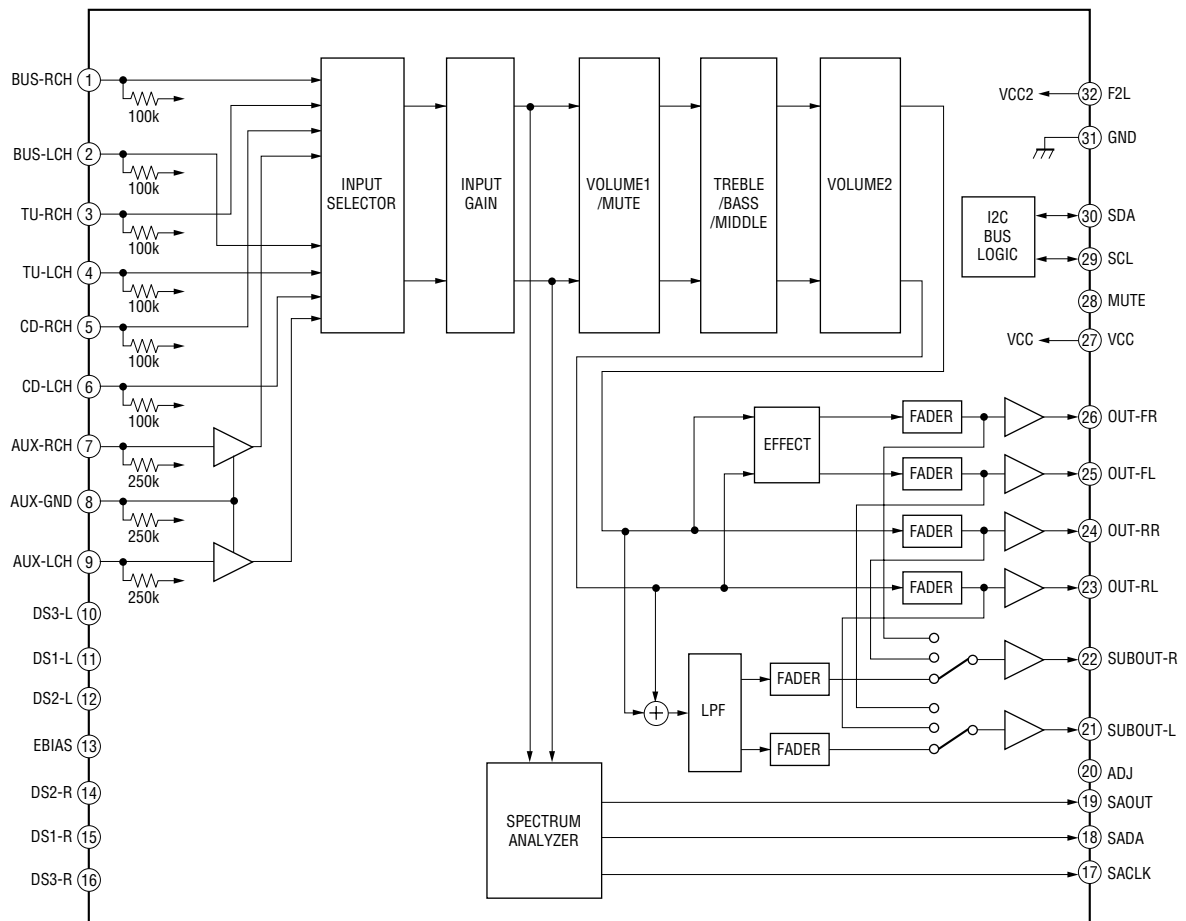
IC601 BA8271F-E2 (MAIN Board (1/3))



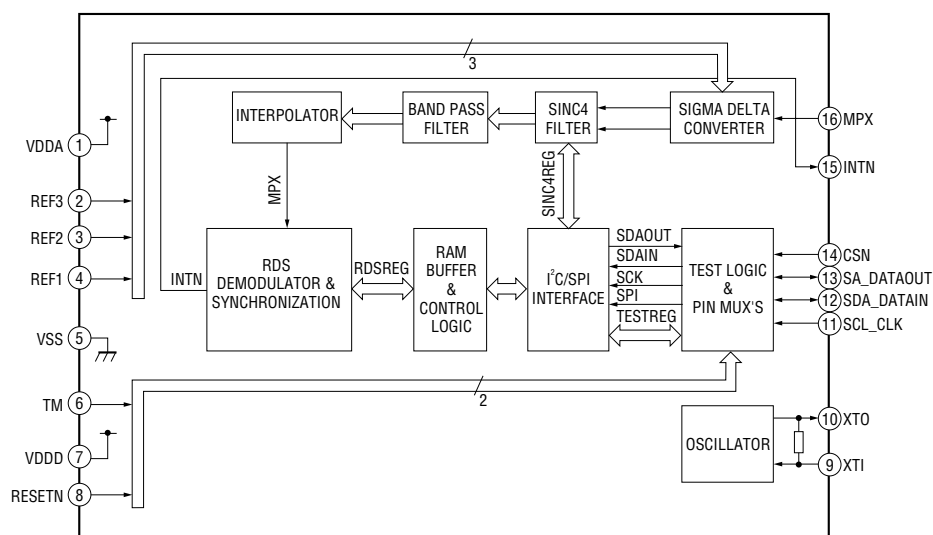
IC200 NJM2387ADL3 (MAIN Board (2/3))
IC201 NJM2387ADL3 (MAIN Board (2/3))
IC202 NJM2387ADL3 (MAIN Board (2/3))
IC203 NJM2387ADL3 (MAIN Board (2/3))



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



IC50 TDA733013TR (MAIN Board (2/3))



• IC PIN DESCRIPTION

IC501 MB90F045PF-G-9015-SPE1 (SYSTEM CONTROL) (MAIN BOARD (3/3)) (CDX-GT360)

IC501 MB90F045PF-G-9043-SPE1 (SYSTEM CONTROL) (MAIN BOARD (3/3)) (CDX-GT317EE)

Pin No.	Pin Name	I/O	Pin Description
1	AREASEL0	I	Destination setting pin 0
2	AREASEL1	I	Destination setting pin 1
3	AREASEL2	I	Destination setting pin 2
4	B-OUT SEL	I	Black-out with/without discrimination signal input "H": Black-out
5	BEEP	O	Beep signal output
6	NCO	O	Not used. (Open)
7	DIAG	I	Status signal input from power amplifier
8	AMPSTB	O	Standby signal output to power amplifier
9	VOLATT	O	Electronic volume attenuate control signal output
10	NCO	O	Not used. (Open)
11	VSS	—	Ground pin
12	TUATT	O	Tuner mute control signal output
13	NSMASK	O	Noise mask signal output
14	ILLUMI SEL	I	Illumination voltage setting signal input
15	COL SEL	I	Two colors change setting signal input
16 to 22	NCO	O	Not used. (Open)
23	VCC5	—	Power supply pin (+3.3 V)
24	EEP SIO	I/O	EEPROM bus serial data signal input/output
25	EEP CKO	O	EEPROM bus serial clock signal output
26	RDS ON	O	RDS (Radio Data System) on signal output Tuner on: "L"
27	FL CS	O	Fluorescent indicator tube chip select signal output
28	FL SO	O	Fluorescent indicator tube serial data signal output
29	FL SCK	O	Fluorescent indicator tube serial clock signal output
30	NCO	O	Not used. (Open)
31	RE IN0	I	Rotary encoder signal input 0
32	RE IN1	I	Rotary encoder signal input 1
33	I2C SCK	O	I2C bus serial clock signal output
34	I2C SIO	I/O	I2C bus serial data signal input/output
35	DAVDD	—	A/D converter power supply pin (+3.3 V)
36	AVRH	—	A/D converter external reference power supply pin (+3.3 V)
37	DAVSS	—	Ground pin
38	QUALITY	I	Noise detect signal input
39	VSM	I	S-meter voltage detect signal input
40	KEYIN1	I	Key signal input 1
41	KEYIN0	I	Key signal input 0
42	VSS	—	Ground pin
43	RCIN0	I	Rotary commander key signal input Not used in this set.
44 to 47	NCO	O	Not used. (open)
48	AD ON	O	A/D converter power supply control signal output
49	MD0	I	Operation mode setting pin (Connect to VDD.)
50	MD1	I	Operation mode setting pin (Connect to VDD.)
51	MD2	I	Operation mode setting pin (Connect to VSS.)
52	KEYACK	I	Key acknowledgment detect signal input
53	TUATTIN	I	Tuner mute zero cross detect signal input
54	BUIN	I	Back-up power supply detect signal input
55	NCO	O	Not used. (Open)

Pin No.	Pin Name	I/O	Pin Description
56	DAVN	I	RDS (Radio Data System) data block synchronized detect signal input
57	NCO	O	Not used. (Open)
58	UNISI	I	SONY bus data signal input
59	UNISO	O	SONY bus data signal output
60	UNI SCK	O	SONY bus clock signal output
61	Z MUTE	I	Mute signal input
62	$\overline{\text{NOSE SW}}$	I	Front panel attachment detect signal input "L": With panel, "H": Without panel
63	FLASH W	I	Memory mode change signal input Normally "H": Single chip mode, after reset "L": flash write mode
64	SIRCS	I	Remote control signal input
65 to 70	NCO	O	Not used. (Open)
71	RC IN1	I	Rotary commander shift key signal input Not used in this set.
72 to 76	NCO	O	Not used. (Open)
77	$\overline{\text{RESET}}$	I	CPU reset signal input
78	NCO	O	Not used. (Open)
79	XIN	I	Low speed operation clock signal input (32.768 kHz)
80	XOUT	O	Low speed operation clock signal output (32.768 kHz)
81	VSS1	—	Ground pin
82	OSCIN	I	High speed operation clock signal input (18.432 MHz)
83	OSCOU	O	High speed operation clock signal output (18.432 MHz)
84	VCC3	—	Power supply pin (+3.3 V)
85	CYRIL SEL	I	Cyril correspondence discrimination signal input "L": No correspondence
86	DEMOSEL	I	DEMO select signal input "H": DEMO on, "L": DEMO off
87	FL ON	O	Fluorescent indicator tube power on signal output
88	$\overline{\text{SYSRST}}$	O	System reset signal output
89, 90	NCO	O	Not used. (Open)
91	CDON	I	CD mechanism servo power supply control request signal input
92	CDMON	I	CD mechanism deck power supply control request signal input
93 to 95	NCO	O	Not used. (Open)
96	$\overline{\text{BUSON}}$	O	Bus on signal output
97	$\overline{\text{TESTIN}}$	I	Test mode detect signal input
98	TELATT	I	Telephone attenuate detect signal input
99	$\overline{\text{ACCIN}}$	I	Accessory power supply detect signal input
100	ATT	O	Audio mute control signal output

SECTION 5

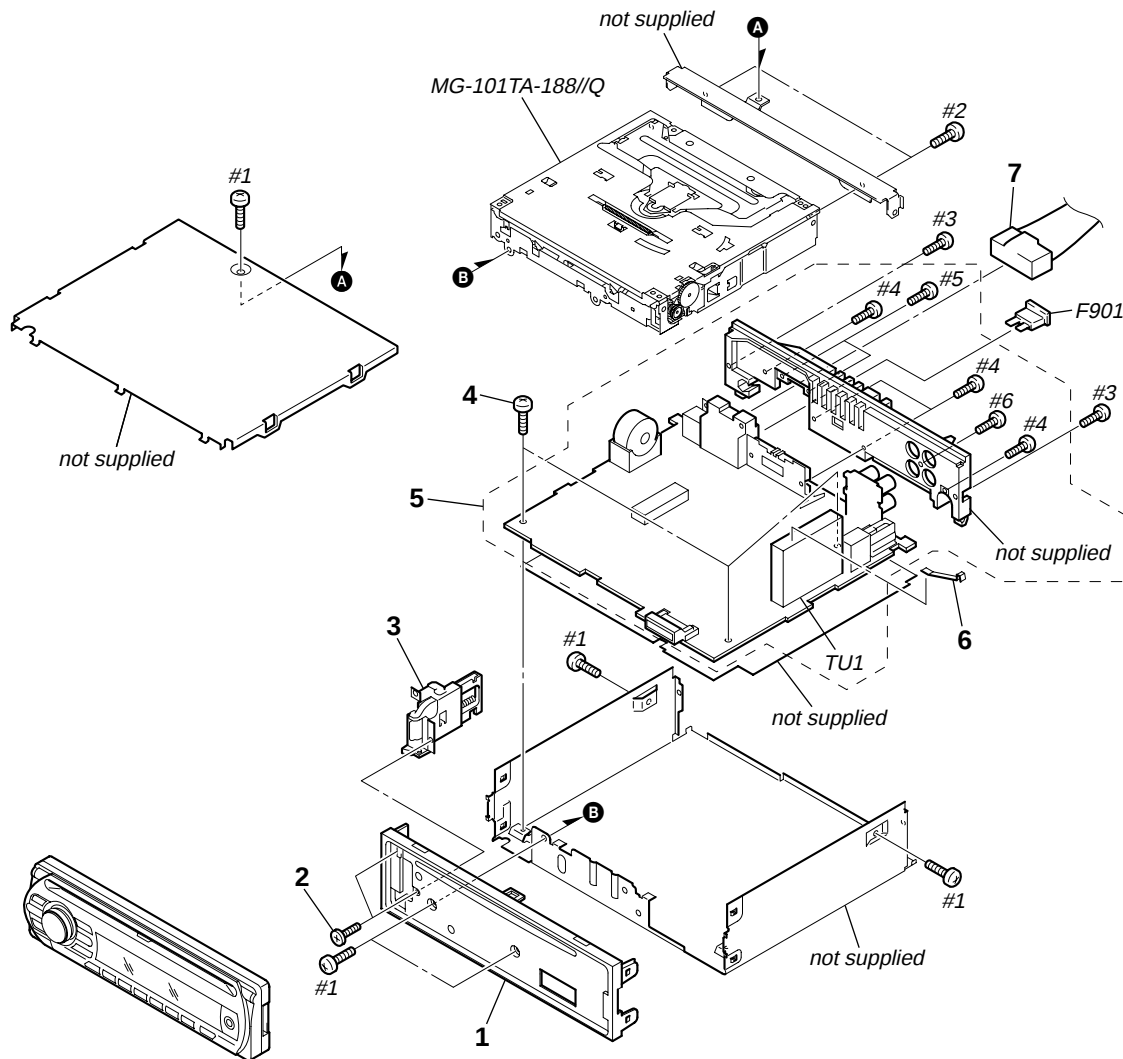
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
 - Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- XX and -X mean standardized parts, so they may have some difference from the original one.
 - Color Indication of Appearance Parts
Example :
 KNOB, BALANCE (WHITE) ... (RED)
 ↑ ↑
 Parts Color Cabinet's Color
 - Accessories are given in the last of this parts list.

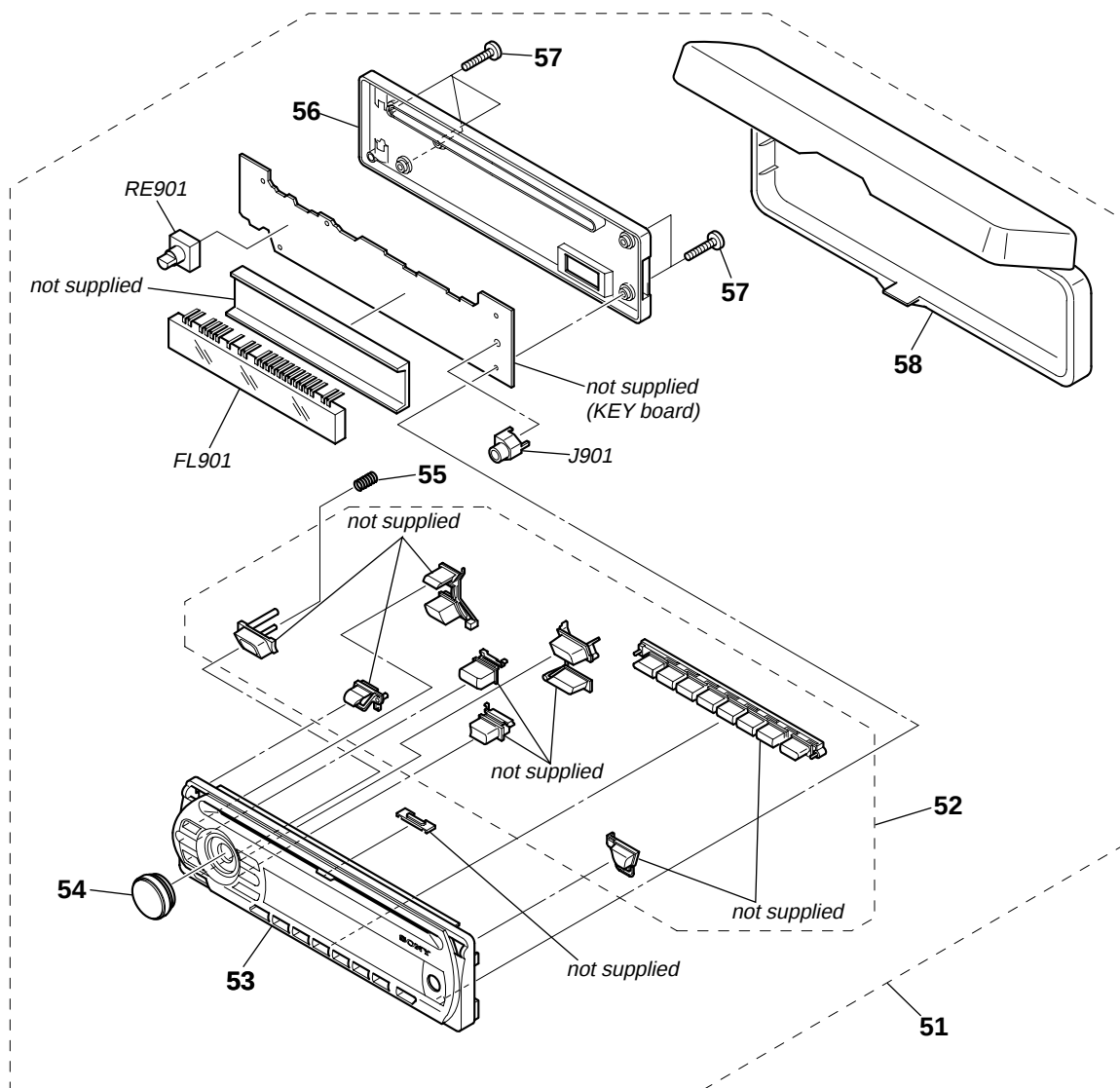
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

5-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-2148-784-1	PANEL (FL) ASSY, SUB		F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
2	3-042-244-11	SCREW (T)		TU1	A-3220-960-B	TUNER UNIT (TUX-032) (GT360)	
3	X-2108-670-1	LOCK ASSY (S)		TU1	A-3220-961-B	TUNER UNIT (TUX-032) (GT317EE)	
4	2-050-124-01	SCREW +BTT 2.6X5		#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
5	A-1206-400-A	MAIN BOARD, COMPLETE (GT317EE)		#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
5	A-1206-410-A	MAIN BOARD, COMPLETE (GT360)		#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
6	2-021-848-01	SHEET (TU), GROUND		#4	7-685-794-09	SCREW +PTT 2.6X10 (S)	
7	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER)		#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
		(GT317EE)		#6	7-621-284-40	SCREW +P 2.6X10	
7	1-833-100-11	CORD (WITH CONNECTOR) (POWER) (GT360)					

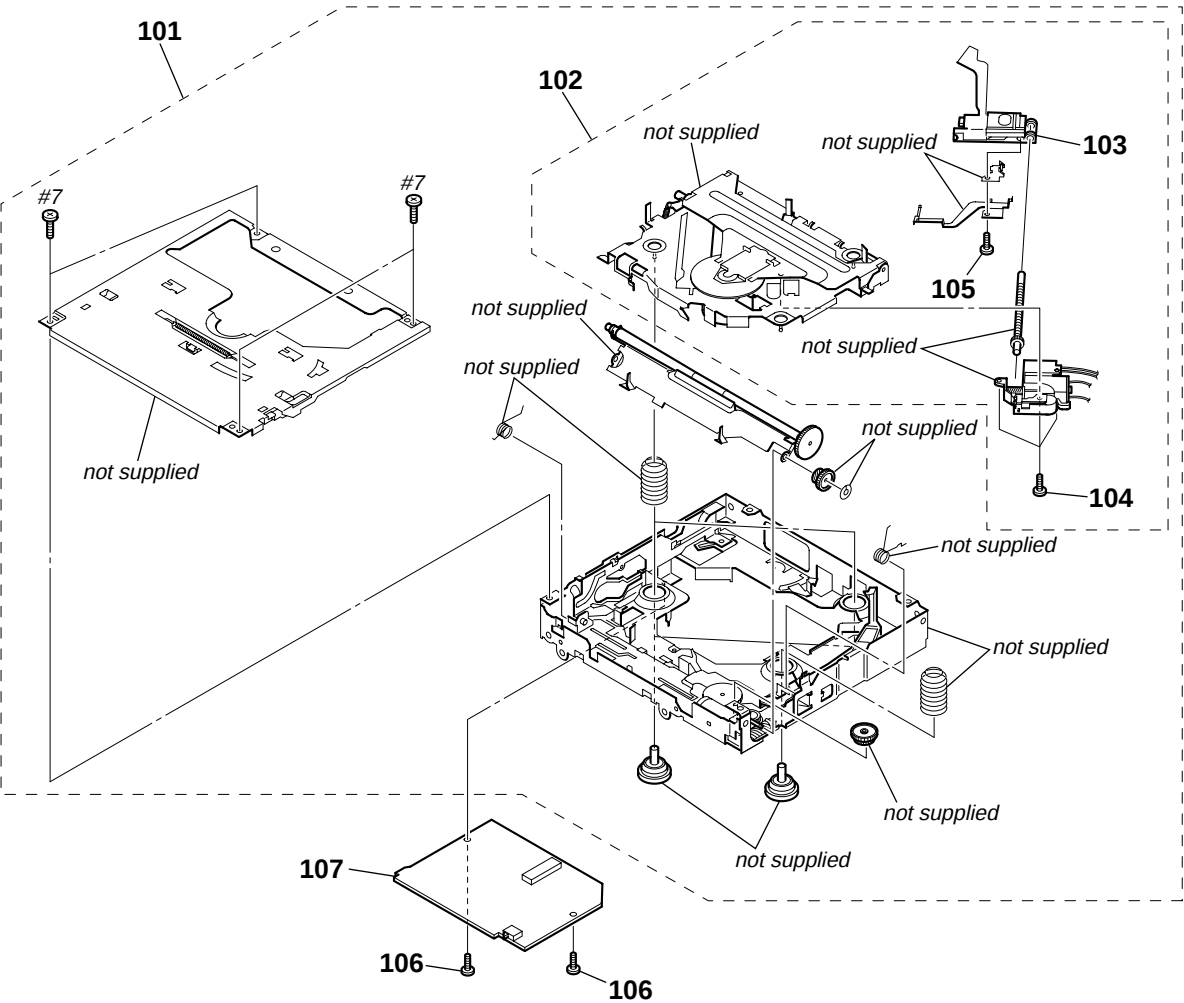
5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	A-1206-402-A	PANEL COMPLETE ASSY, FRONT (GT317EE)		55	2-693-599-01	SPRING (RELEASE)	
51	A-1206-412-A	PANEL COMPLETE ASSY, FRONT (GT360)		56	2-684-632-01	PANEL (FL), BACK	
52	X-2149-356-1	BUTTON ASSY (S) (GT317EE)		57	3-250-543-21	SCREW (+B P-TITE M2)	
52	X-2149-357-1	BUTTON ASSY (S) (GT360)		58	X-2149-228-2	CASE ASSY (for FRONT PANEL)	
53	X-2149-360-1	PANEL (SV) ASSY, FRONT (GT317EE)		FL901	1-519-909-12	INDICATOR TUBE, FLUORESCENT	
53	X-2149-361-1	PANEL (SV) ASSY, FRONT (GT360)		J901	1-820-624-11	JACK (SMALL TYPE) (VERTICAL) (AUX)	
54	X-2149-353-1	KNOB (VOL) (SV) ASSY		RE901	1-479-481-13	ENCODER, ROTARY (PUSH SELECT/VOLUME)	

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

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



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

SECTION 6 ELECTRICAL PARTS LIST

KEY

NOTE:

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

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		KEY BOARD *****		LED843	8-719-078-21	LED SML-310PTT86 (OFF) (GT317EE)	
		< CAPACITOR >		LED844	8-719-078-21	LED SML-310PTT86 (EQ3) (GT317EE)	
C904	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V		LED845	8-719-078-21	LED SML-310PTT86 (PTY) (GT317EE)	
C974	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		LED846	8-719-078-21	LED SML-310PTT86 (SOURCE) (GT317EE)	
C975	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		LED847	8-719-078-21	LED SML-310PTT86 (MODE) (GT317EE)	
C976	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		LED850	8-719-078-21	LED SML-310PTT86 (DSPL/DIM) (GT317EE)	
C977	1-125-891-11	CERAMIC CHIP 0.47uF 10% 10V		LED851	8-719-078-21	LED SML-310PTT86 (1/ALBM -) (GT317EE)	
C981	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		LED852	8-719-078-21	LED SML-310PTT86 (2/ALBM +) (GT317EE)	
C982	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		LED853	8-719-078-21	LED SML-310PTT86 (3/REP) (GT317EE)	
C991	1-216-295-11	SHORT CHIP 0		LED854	8-719-078-21	LED SML-310PTT86 (4/SHUF) (GT317EE)	
C992	1-216-295-11	SHORT CHIP 0		LED855	8-719-078-21	LED SML-310PTT86 (5) (GT317EE)	
		< CONNECTOR >		LED856	8-719-078-21	LED SML-310PTT86 (6/PAUSE) (GT317EE)	
CN901	1-820-619-11	PLUG, CONNECTOR 20P		LED857	8-719-078-21	LED SML-310PTT86 (AF/TA) (GT317EE)	
		< DIODE >		LED861	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION) (GT317EE)	
D882	8-719-057-80	DIODE MA8180-M-TX		LED862	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION) (GT317EE)	
D903	8-719-057-80	DIODE MA8180-M-TX		LED863	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION) (GT317EE)	
D904	8-719-057-80	DIODE MA8180-M-TX		LED864	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION) (GT317EE)	
D905	8-719-977-12	DIODE DTZ6.8B		LED941	8-719-053-09	LED SML-310VTT86 ($\triangle$) (GT360)	
D906	8-719-977-12	DIODE DTZ6.8B		LED942	8-719-053-09	LED SML-310VTT86 (CD INDICATOR) (GT360)	
D907	8-719-977-12	DIODE DTZ6.8B		LED943	8-719-053-09	LED SML-310VTT86 (OFF) (GT360)	
D908	8-719-977-12	DIODE DTZ6.8B		LED944	8-719-053-09	LED SML-310VTT86 (EQ3) (GT360)	
D971	8-719-420-90	DIODE MA8051-M		LED945	8-719-053-09	LED SML-310VTT86 (PTY) (GT360)	
		< FERRITE BEAD >		LED946	8-719-053-09	LED SML-310VTT86 (SOURCE) (GT360)	
FB901	1-216-864-11	SHORT CHIP 0		LED947	8-719-053-09	LED SML-310VTT86 (MODE) (GT360)	
FB902	1-216-864-11	SHORT CHIP 0		LED950	8-719-053-09	LED SML-310VTT86 (DSPL/DIM) (GT360)	
FB903	1-216-295-11	SHORT CHIP 0		LED951	8-719-053-09	LED SML-310VTT86 (1/ALBM -) (GT360)	
FB904	1-469-876-11	INDUCTOR, FERRITE BEAD		LED952	8-719-053-09	LED SML-310VTT86 (2/ALBM +) (GT360)	
		< FLUORESCENT INDICATOR TUBE >		LED953	8-719-053-09	LED SML-310VTT86 (3/REP) (GT360)	
FL901	1-519-909-12	INDICATOR TUBE, FLUORESCENT		LED954	8-719-053-09	LED SML-310VTT86 (4/SHUF) (GT360)	
		< IC >		LED955	8-719-053-09	LED SML-310VTT86 (5) (GT360)	
IC971	6-600-163-01	IC RS-770 (IR)		LED956	8-719-053-09	LED SML-310VTT86 (6/PAUSE) (GT360)	
IC972	6-706-715-01	IC NJM2867F33 (TE2)		LED957	8-719-053-09	LED SML-310VTT86 (AF/TA) (GT360)	
		< DIODE >		LED961	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION) (GT360)	
LED841	8-719-078-21	LED SML-310PTT86 ($\triangle$) (GT317EE)		LED962	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION) (GT360)	
LED842	8-719-078-21	LED SML-310PTT86 (CD INDICATOR) (GT317EE)		LED963	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION) (GT360)	

CDX-GT317EE/GT360

KEY

Ref. No.	Part No.	Description	Remark			
< SWITCH >						
LSW901	1-786-805-12	SWITCH, TACTILE (WITH LED)	(▶▶▶▶ SEEK +) (GT360)			
LSW901	1-786-806-12	SWITCH, TACTILE (WITH LED)	(▶▶▶▶ SEEK +) (GT317EE)			
LSW902	1-786-805-12	SWITCH, TACTILE (WITH LED)	(◀◀◀◀ SEEK -) (GT360)			
LSW902	1-786-806-12	SWITCH, TACTILE (WITH LED)	(◀◀◀◀ SEEK -) (GT317EE)			
< TRANSISTOR >						
Q881	8-729-600-22	TRANSISTOR	2SA1235-F			
Q882	8-729-600-22	TRANSISTOR	2SA1235-F			
Q883	8-729-600-22	TRANSISTOR	2SA1235-F			
< RESISTOR >						
R841	1-216-810-11	METAL CHIP	120	5%	1/10W	(GT317EE)
R842	1-216-810-11	METAL CHIP	120	5%	1/10W	(GT317EE)
R843	1-216-811-11	METAL CHIP	150	5%	1/10W	(GT317EE)
R844	1-216-810-11	METAL CHIP	120	5%	1/10W	(GT317EE)
R845	1-216-811-11	METAL CHIP	150	5%	1/10W	(GT317EE)
R846	1-216-810-11	METAL CHIP	120	5%	1/10W	(GT317EE)
R849	1-216-807-11	METAL CHIP	68	5%	1/10W	(GT317EE)
R850	1-216-807-11	METAL CHIP	68	5%	1/10W	(GT317EE)
R851	1-216-807-11	METAL CHIP	68	5%	1/10W	(GT317EE)
R852	1-216-807-11	METAL CHIP	68	5%	1/10W	(GT317EE)
R853	1-216-811-11	METAL CHIP	150	5%	1/10W	(GT317EE)
R854	1-216-810-11	METAL CHIP	120	5%	1/10W	(GT317EE)
R861	1-216-811-11	METAL CHIP	150	5%	1/10W	(GT317EE)
R862	1-216-810-11	METAL CHIP	120	5%	1/10W	(GT317EE)
R863	1-216-811-11	METAL CHIP	150	5%	1/10W	(GT317EE)
R864	1-216-810-11	METAL CHIP	120	5%	1/10W	(GT317EE)
R881	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R882	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R883	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R884	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R885	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R886	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R887	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R888	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R889	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R901	1-216-820-11	METAL CHIP	820	5%	1/10W	
R902	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R903	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R904	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	

Ref. No.	Part No.	Description	Remark			
R905	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R906	1-216-820-11	METAL CHIP	820	5%	1/10W	
R907	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R908	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R909	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	
R910	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R911	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	
R912	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R913	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R914	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	
R915	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	
R921	1-216-295-11	SHORT CHIP	0			
R922	1-216-295-11	SHORT CHIP	0			
R941	1-216-813-11	METAL CHIP	220	5%	1/10W	(GT360)
R942	1-216-813-11	METAL CHIP	220	5%	1/10W	(GT360)
R943	1-216-812-11	METAL CHIP	180	5%	1/10W	(GT360)
R944	1-216-811-11	METAL CHIP	150	5%	1/10W	(GT360)
R945	1-216-812-11	METAL CHIP	180	5%	1/10W	(GT360)
R946	1-216-811-11	METAL CHIP	150	5%	1/10W	(GT360)
R947	1-216-811-11	METAL CHIP	150	5%	1/10W	(GT317EE)
R947	1-216-812-11	METAL CHIP	180	5%	1/10W	(GT360)
R948	1-216-810-11	METAL CHIP	120	5%	1/10W	(GT317EE)
R948	1-216-811-11	METAL CHIP	150	5%	1/10W	(GT360)
R949	1-216-809-11	METAL CHIP	100	5%	1/10W	(GT360)
R950	1-216-809-11	METAL CHIP	100	5%	1/10W	(GT360)
R951	1-216-809-11	METAL CHIP	100	5%	1/10W	(GT360)
R952	1-216-809-11	METAL CHIP	100	5%	1/10W	(GT360)
R953	1-216-812-11	METAL CHIP	180	5%	1/10W	(GT360)
R954	1-216-811-11	METAL CHIP	150	5%	1/10W	(GT360)
R961	1-216-809-11	METAL CHIP	100	5%	1/10W	(GT360)
R962	1-216-809-11	METAL CHIP	100	5%	1/10W	(GT360)
R971	1-216-809-11	METAL CHIP	100	5%	1/10W	
R975	1-216-811-11	METAL CHIP	150	5%	1/10W	
R976	1-216-811-11	METAL CHIP	150	5%	1/10W	
R977	1-216-809-11	METAL CHIP	100	5%	1/10W	
R978	1-216-864-11	SHORT CHIP	0			
R981	1-218-893-11	METAL CHIP	82K	0.5%	1/10W	
R982	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R983	1-216-864-11	SHORT CHIP	0			
R988	1-216-864-11	SHORT CHIP	0			
R989	1-216-845-11	METAL CHIP	100K	5%	1/10W	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< ROTARY ENCODER >					
RE901	1-479-481-13	ENCODER, ROTARY (PUSH SELECT/VOLUME)		C151	1-126-960-11	ELECT 1uF 20%	50V
		< SWITCH >		C152	1-126-960-11	ELECT 1uF 20%	50V
S901	1-786-653-21	SWITCH, TACTILE (▲)		C153	1-126-961-11	ELECT 2.2uF 20%	50V
S902	1-786-653-21	SWITCH, TACTILE (OFF)		C154	1-163-017-00	CERAMIC CHIP 0.0047uF 10%	50V
S903	1-786-653-21	SWITCH, TACTILE (SOURCE)		C155	1-163-017-00	CERAMIC CHIP 0.0047uF 10%	50V
S904	1-786-653-21	SWITCH, TACTILE (EQ3)					
S906	1-786-653-21	SWITCH, TACTILE (PTY)		C200	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
				C201	1-124-234-00	ELECT 22uF 20%	16V
S907	1-786-653-21	SWITCH, TACTILE (MODE)		C202	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
S908	1-786-653-21	SWITCH, TACTILE (DSPL/DIM)		C203	1-126-965-11	ELECT 22uF 20%	50V
S909	1-786-653-21	SWITCH, TACTILE (1/ALBM -)		C204	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
S910	1-786-653-21	SWITCH, TACTILE (2/ALBM +)					
S911	1-786-653-21	SWITCH, TACTILE (3/REP)		C205	1-126-965-11	ELECT 22uF 20%	50V
				C206	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
S912	1-786-653-21	SWITCH, TACTILE (4/SHUF)		C207	1-126-965-11	ELECT 22uF 20%	50V
S913	1-786-653-21	SWITCH, TACTILE (5)		C301	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
S914	1-786-653-21	SWITCH, TACTILE (6/PAUSE)		C302	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
S915	1-786-653-21	SWITCH, TACTILE (AF/TA)					
*****				C303	1-128-551-11	ELECT 22uF 20%	63V
A-1206-400-A		MAIN BOARD, COMPLETE (GT317EE)		C304	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
A-1206-410-A		MAIN BOARD, COMPLETE (GT360)		C305	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
		*****		C306	1-124-261-00	ELECT 10uF 20%	50V
7-621-284-40		SCREW +P 2.6X10		C307	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
7-685-134-19		SCREW +P 2.6X8 TYPE2 NON-SLIT					
7-685-794-09		SCREW +PTT 2.6X10 (S)		C308	1-124-261-00	ELECT 10uF 20%	50V
		< CAPACITOR >		C309	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C1	1-126-963-11	ELECT 4.7uF 20%	50V (GT317EE)	C312	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C2	1-126-947-11	ELECT 47uF 20%	35V	C313	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C3	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C314	1-124-261-00	ELECT 10uF 20%	50V
C5	1-126-947-11	ELECT 47uF 20%	35V				
C6	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C315	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
				C316	1-124-261-00	ELECT 10uF 20%	50V
C7	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C317	1-124-257-00	ELECT 2.2uF 20%	50V
C8	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C318	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C15	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V (GT360)	C319	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V
C50	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V (GT317EE)				
C51	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V (GT317EE)	C320	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
				C325	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C52	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V (GT317EE)	C329	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C53	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V (GT317EE)	C330	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C54	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V (GT317EE)	C361	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V
C55	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V (GT317EE)				
C56	1-164-237-11	CERAMIC CHIP 16PF 5%	50V (GT317EE)	C362	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V
				C363	1-126-160-11	ELECT 1uF 20%	50V
C57	1-164-237-11	CERAMIC CHIP 16PF 5%	50V (GT317EE)	C364	1-126-160-11	ELECT 1uF 20%	50V
C58	1-162-959-11	CERAMIC CHIP 330PF 5%	50V (GT317EE)	C365	1-126-960-11	ELECT 1uF 20%	50V
				C366	1-126-960-11	ELECT 1uF 20%	50V
C60	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V (GT317EE)				
C61	1-126-947-11	ELECT 47uF 20%	35V (GT317EE)	C401	1-124-234-00	ELECT 22uF 20%	16V
				C402	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
				C403	1-124-584-00	ELECT 100uF 20%	10V
				C405	1-124-234-00	ELECT 22uF 20%	16V
				C409	1-124-261-00	ELECT 10uF 20%	50V
				C412	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
				C413	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
				C414	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
				C415	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
				C417	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
				C418	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
				C419	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
				C421	1-126-964-11	ELECT 10uF 20%	50V
				C423	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
				C424	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
				C426	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
				C431	1-124-261-00	ELECT 10uF 20%	50V
				C432	1-163-251-11	CERAMIC CHIP 100PF 5%	50V

MAIN

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
C434	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		D109	8-719-977-12	DIODE	DTZ6.8B			
C441	1-126-964-11	ELECT	10uF	20%	50V		D110	8-719-977-12	DIODE	DTZ6.8B			
C443	1-165-908-11	CERAMIC CHIP	1uF	10%	10V		D111	8-719-977-12	DIODE	DTZ6.8B			
C444	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		D112	8-719-977-12	DIODE	DTZ6.8B			
C445	1-165-908-11	CERAMIC CHIP	1uF	10%	10V		D113	8-719-977-12	DIODE	DTZ6.8B			
C451	1-126-964-11	ELECT	10uF	20%	50V		D153	8-719-977-12	DIODE	DTZ6.8B			
C452	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		D200	6-500-522-01	DIODE	10EDB40-TA1B2			
C454	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		D201	6-500-522-01	DIODE	10EDB40-TA1B2			
C461	1-126-964-11	ELECT	10uF	20%	50V		D202	6-500-522-01	DIODE	10EDB40-TA1B2			
C462	1-165-908-11	CERAMIC CHIP	1uF	10%	10V		D203	6-500-522-01	DIODE	10EDB40-TA1B2			
C463	1-165-908-11	CERAMIC CHIP	1uF	10%	10V		D204	6-500-522-01	DIODE	10EDB40-TA1B2			
C471	1-126-964-11	ELECT	10uF	20%	50V		D205	6-500-522-01	DIODE	10EDB40-TA1B2			
C472	1-165-908-11	CERAMIC CHIP	1uF	10%	10V		D206	6-500-522-01	DIODE	10EDB40-TA1B2			
C473	1-165-908-11	CERAMIC CHIP	1uF	10%	10V		D207	6-500-522-01	DIODE	10EDB40-TA1B2			
C484	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		D301	6-500-522-01	DIODE	10EDB40-TA1B2			
C485	1-126-933-11	ELECT	100uF	20%	16V		D302	6-500-522-01	DIODE	10EDB40-TA1B2			
C486	1-126-964-11	ELECT	10uF	20%	50V		D303	6-500-522-01	DIODE	10EDB40-TA1B2			
C491	1-124-589-11	ELECT	47uF	20%	16V		D304	6-500-522-01	DIODE	10EDB40-TA1B2			
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D305	6-500-522-01	DIODE	10EDB40-TA1B2			
C502	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		D306	6-500-522-01	DIODE	10EDB40-TA1B2			
C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D307	6-500-522-01	DIODE	10EDB40-TA1B2			
C507	1-162-917-11	CERAMIC CHIP	15PF	5%	50V		D308	6-500-522-01	DIODE	10EDB40-TA1B2			
C508	1-162-917-11	CERAMIC CHIP	15PF	5%	50V		D309	6-500-522-01	DIODE	10EDB40-TA1B2			
C509	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		D310	6-500-522-01	DIODE	10EDB40-TA1B2			
C510	1-165-908-11	CERAMIC CHIP	1uF	10%	10V		D311	6-500-522-01	DIODE	10EDB40-TA1B2			
C512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		D312	6-500-522-01	DIODE	10EDB40-TA1B2			
C513	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D353	6-501-013-01	DIODE	BAT54ALT1G			
C514	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		D491	6-501-193-01	DIODE	1SS355WTE-17 (GT360)			
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		D491	8-719-988-61	DIODE	1SS355TE-17 (GT317EE)			
C600	1-126-935-11	ELECT	470uF	20%	16V		D493	6-501-051-01	DIODE	BAT54CLT1G			
C601	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D502	8-719-060-48	DIODE	RB751V-40TE-17			
C622	1-126-924-11	ELECT	330uF	20%	10V		D503	6-501-193-01	DIODE	1SS355WTE-17 (GT360)			
C623	1-126-916-11	ELECT	1000uF	20%	6.3V		D503	8-719-988-61	DIODE	1SS355TE-17 (GT317EE)			
C681	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D602	8-719-057-80	DIODE	MA8180-M-TX			
C682	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D603	8-719-422-64	DIODE	MA8062-M			
C683	1-124-584-00	ELECT	100uF	20%	10V		D604	8-719-057-80	DIODE	MA8180-M-TX			
C701	1-131-868-81	ELECT	3300uF	20%	16V		D605	8-719-057-80	DIODE	MA8180-M-TX			
C702	1-164-005-11	CERAMIC CHIP	0.47uF		25V		D606	8-719-072-70	DIODE	MA2ZD14001S0			
C703	1-164-005-11	CERAMIC CHIP	0.47uF		25V		D607	6-501-571-01	DIODE	1N5404-C311-3			
C704	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V		D609	6-501-051-01	DIODE	BAT54CLT1G			
C705	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V		D702	8-719-057-80	DIODE	MA8180-M-TX			
C997	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V		D703	8-719-977-12	DIODE	DTZ6.8B			
C998	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V		D704	8-719-057-80	DIODE	MA8180-M-TX (GT317EE)			
< CONNECTOR >							D901	8-719-057-80	DIODE	MA8180-M-TX			
CN300	1-774-701-21	PIN, CONNECTOR 16P					D998	8-719-057-80	DIODE	MA8180-M-TX			
CN350	1-820-611-11	CONNECTOR, BOARD TO BOARD 28P					D999	8-719-057-80	DIODE	MA8180-M-TX			
CN370	1-820-622-11	SOCKET, CONNECTOR 20P					< IC >						
CNJ400	1-580-907-41	PLUG, CONNECTOR 8P (BUS CONTROL IN)					IC50	6-803-747-01	IC	TDA7333013TR (GT317EE)			
< DIODE >							IC200	6-709-213-01	IC	NJM2387ADL3(TE2)			
D2	8-719-977-03	DIODE	DTZ5.6B				IC201	6-709-213-01	IC	NJM2387ADL3(TE2)			
D101	8-719-977-12	DIODE	DTZ6.8B				IC202	6-709-213-01	IC	NJM2387ADL3(TE2)			
D103	8-719-977-12	DIODE	DTZ6.8B				IC203	6-709-213-01	IC	NJM2387ADL3(TE2)			
D104	8-719-977-12	DIODE	DTZ6.8B				IC300	6-705-359-02	IC	TDA8588AJ/N2/R1			
D105	8-719-977-12	DIODE	DTZ6.8B				IC401	6-710-065-01	IC	BD3442FS-E2			
D106	8-719-057-80	DIODE	MA8180-M-TX				IC501	6-710-298-01	IC	MB90F045PF-G-9015-SPE1 (GT360)			
D108	8-719-977-12	DIODE	DTZ6.8B				IC501	6-807-262-01	IC	MB90F045PF-G-9043-SPE1 (GT317EE)			
							IC601	6-703-884-01	IC	BA8271F-E2			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC602	8-759-659-13	IC PST3428UL		L5	1-414-595-11	INDUCTOR, FERRITE BEAD (GT317EE)	
IC681	6-705-373-01	IC MM3123DPLE		L50	1-469-844-11	INDUCTOR 2.2uH (GT317EE)	
		< JACK >		L151	1-216-295-11	SHORT CHIP 0	
J1	1-815-185-13	JACK (ANTENNA)		L300	1-456-617-11	COIL, CHOKE	
J652	1-774-699-12	JACK, PIN 4P (BUS AUDIO IN, AUDIO OUT REAR)		L401	1-216-864-11	SHORT CHIP 0	
		< JUMPER RESISTOR >		L402	1-216-295-11	SHORT CHIP 0	
JC1	1-216-296-11	SHORT CHIP 0		L403	1-216-295-11	SHORT CHIP 0	
JC2	1-216-864-11	SHORT CHIP 0		L405	1-216-864-11	SHORT CHIP 0	
JC3	1-216-296-11	SHORT CHIP 0		L406	1-500-245-11	INDUCTOR, FERRITE BEAD	
JC4	1-216-296-11	SHORT CHIP 0		L407	1-216-864-11	SHORT CHIP 0	
JC5	1-216-296-11	SHORT CHIP 0		L409	1-469-844-11	INDUCTOR 2.2uH	
JC6	1-216-296-11	SHORT CHIP 0		L410	1-469-876-11	INDUCTOR, FERRITE BEAD	
JC7	1-216-296-11	SHORT CHIP 0		L501	1-469-844-11	INDUCTOR 2.2uH	
JC8	1-216-296-11	SHORT CHIP 0		L901	1-216-295-11	SHORT CHIP 0	
JC9	1-216-864-11	SHORT CHIP 0		L902	1-469-844-11	INDUCTOR 2.2uH	
JC10	1-216-296-11	SHORT CHIP 0				< TRANSISTOR >	
JC11	1-216-864-11	SHORT CHIP 0		Q1	8-729-027-43	TRANSISTOR DTC114EKA-T146 (GT317EE)	
JC12	1-216-296-11	SHORT CHIP 0		Q3	6-551-431-01	TRANSISTOR 2SC6027T100-QR	
JC13	1-216-864-11	SHORT CHIP 0		Q50	8-729-600-22	TRANSISTOR 2SA1235-F (GT317EE)	
JC14	1-216-296-11	SHORT CHIP 0		Q420	8-729-027-44	TRANSISTOR DTC114TKA-T146	
JC15	1-216-296-11	SHORT CHIP 0		Q432	6-550-752-01	TRANSISTOR DTC614TKT146	
JC16	1-216-296-11	SHORT CHIP 0		Q440	8-729-027-44	TRANSISTOR DTC114TKA-T146	
JC17	1-216-864-11	SHORT CHIP 0		Q452	6-550-752-01	TRANSISTOR DTC614TKT146	
JC18	1-216-864-11	SHORT CHIP 0		Q460	8-729-027-44	TRANSISTOR DTC114TKA-T146	
JC19	1-216-296-11	SHORT CHIP 0		Q470	8-729-027-44	TRANSISTOR DTC114TKA-T146	
JC20	1-216-296-11	SHORT CHIP 0		Q491	8-729-027-23	TRANSISTOR DTA114EKA-T146	
JC21	1-216-296-11	SHORT CHIP 0		Q492	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JC22	1-216-296-11	SHORT CHIP 0		Q600	8-729-047-76	TRANSISTOR FMC2A-T148	
JC23	1-216-296-11	SHORT CHIP 0		Q601	8-729-027-23	TRANSISTOR DTA114EKA-T146	
JC24	1-216-864-11	SHORT CHIP 0		Q605	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JC25	1-216-296-11	SHORT CHIP 0		Q664	8-729-027-23	TRANSISTOR DTA114EKA-T146	
JC26	1-216-296-11	SHORT CHIP 0		Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (GT317EE)	
JC27	1-216-296-11	SHORT CHIP 0		Q702	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JC28	1-216-864-11	SHORT CHIP 0				< RESISTOR >	
JC29	1-216-296-11	SHORT CHIP 0		R1	1-216-809-11	METAL CHIP 100 5% 1/10W (GT317EE)	
JC30	1-216-296-11	SHORT CHIP 0		R2	1-216-839-11	METAL CHIP 33K 5% 1/10W	
JC31	1-216-296-11	SHORT CHIP 0		R3	1-216-843-11	METAL CHIP 68K 5% 1/10W	
JC32	1-216-296-11	SHORT CHIP 0		R4	1-216-839-11	METAL CHIP 33K 5% 1/10W	
JC33	1-216-296-11	SHORT CHIP 0		R5	1-216-843-11	METAL CHIP 68K 5% 1/10W	
JC34	1-216-864-11	SHORT CHIP 0		R6	1-414-595-11	INDUCTOR, FERRITE BEAD	
JC35	1-216-864-11	SHORT CHIP 0		R7	1-414-595-11	INDUCTOR, FERRITE BEAD	
JC36	1-216-864-11	SHORT CHIP 0		R8	1-216-839-11	METAL CHIP 33K 5% 1/10W (GT317EE)	
JC37	1-216-296-11	SHORT CHIP 0		R9	1-216-843-11	METAL CHIP 68K 5% 1/10W	
JC38	1-216-296-11	SHORT CHIP 0 (GT317EE)		R10	1-216-821-11	METAL CHIP 1K 5% 1/10W	
JC40	1-216-864-11	SHORT CHIP 0		R12	1-216-811-11	METAL CHIP 150 5% 1/10W	
JC41	1-216-296-11	SHORT CHIP 0		R13	1-216-811-11	METAL CHIP 150 5% 1/10W	
JC42	1-216-296-11	SHORT CHIP 0		R15	1-216-864-11	SHORT CHIP 0 (GT317EE)	
		< COIL >		R52	1-216-845-11	METAL CHIP 100K 5% 1/10W (GT317EE)	
L1	1-216-295-11	SHORT CHIP 0		R53	1-216-797-11	METAL CHIP 10 5% 1/10W (GT317EE)	
L2	1-414-595-11	INDUCTOR, FERRITE BEAD (GT317EE)		R54	1-414-595-11	INDUCTOR, FERRITE BEAD (GT317EE)	
L3	1-414-595-11	INDUCTOR, FERRITE BEAD (GT317EE)		R55	1-216-797-11	METAL CHIP 10 5% 1/10W (GT317EE)	
L4	1-469-844-11	INDUCTOR 2.2uH					
L5	1-216-864-11	SHORT CHIP 0 (GT360)					

CDX-GT317EE/GT360

MAIN

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R57	1-216-833-11	METAL CHIP	10K	5%	1/10W	(GT317EE)	R510	1-216-864-11	SHORT CHIP	0			
R58	1-216-821-11	METAL CHIP	1K	5%	1/10W	(GT317EE)	R511	1-216-809-11	METAL CHIP	100	5%	1/10W	
R151	1-216-817-11	METAL CHIP	470	5%	1/10W		R512	1-216-809-11	METAL CHIP	100	5%	1/10W	
R152	1-216-817-11	METAL CHIP	470	5%	1/10W		R517	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R153	1-216-834-11	METAL CHIP	12K	5%	1/10W		R519	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R154	1-216-834-11	METAL CHIP	12K	5%	1/10W		R520	1-216-809-11	METAL CHIP	100	5%	1/10W	
R155	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		R521	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R200	1-216-833-11	METAL CHIP	10K	5%	1/10W		R522	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R201	1-216-822-11	METAL CHIP	1.2K	5%	1/10W		R523	1-216-809-11	METAL CHIP	100	5%	1/10W	
R202	1-216-845-11	METAL CHIP	100K	5%	1/10W		R524	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R203	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R525	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R204	1-216-821-11	METAL CHIP	1K	5%	1/10W		R526	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R205	1-216-845-11	METAL CHIP	100K	5%	1/10W		R529	1-216-809-11	METAL CHIP	100	5%	1/10W	
R206	1-216-822-11	METAL CHIP	1.2K	5%	1/10W		R531	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R207	1-216-821-11	METAL CHIP	1K	5%	1/10W		R532	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R208	1-218-344-11	METAL CHIP	7.5K	5%	1/10W		R533	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R209	1-216-821-11	METAL CHIP	1K	5%	1/10W		R534	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R210	1-216-812-11	METAL CHIP	180	5%	1/10W		R537	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT360)
R211	1-216-821-11	METAL CHIP	1K	5%	1/10W		R538	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT317EE)
R301	1-216-811-11	METAL CHIP	150	5%	1/10W		R539	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT317EE)
R302	1-216-841-11	METAL CHIP	47K	5%	1/10W		R540	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT360)
R351	1-216-845-11	METAL CHIP	100K	5%	1/10W		R544	1-216-809-11	METAL CHIP	100	5%	1/10W	
R355	1-216-833-11	METAL CHIP	10K	5%	1/10W		R549	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT317EE)
R356	1-216-833-11	METAL CHIP	10K	5%	1/10W		R550	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT360)
R357	1-216-821-11	METAL CHIP	1K	5%	1/10W		R551	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT360)
R358	1-216-821-11	METAL CHIP	1K	5%	1/10W		R552	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT317EE)
R401	1-216-821-11	METAL CHIP	1K	5%	1/10W		R553	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R402	1-216-821-11	METAL CHIP	1K	5%	1/10W		R555	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R420	1-216-809-11	METAL CHIP	100	5%	1/10W		R556	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R421	1-216-821-11	METAL CHIP	1K	5%	1/10W		R557	1-216-809-11	METAL CHIP	100	5%	1/10W	
R430	1-216-809-11	METAL CHIP	100	5%	1/10W		R558	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R431	1-216-809-11	METAL CHIP	100	5%	1/10W		R560	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R440	1-216-809-11	METAL CHIP	100	5%	1/10W		R561	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R442	1-216-821-11	METAL CHIP	1K	5%	1/10W		R563	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R447	1-216-833-11	METAL CHIP	10K	5%	1/10W		R564	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT317EE)
R448	1-216-833-11	METAL CHIP	10K	5%	1/10W		R565	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R449	1-216-833-11	METAL CHIP	10K	5%	1/10W		R566	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT360)
R450	1-216-833-11	METAL CHIP	10K	5%	1/10W		R567	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R451	1-216-809-11	METAL CHIP	100	5%	1/10W		R568	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R452	1-216-809-11	METAL CHIP	100	5%	1/10W		R570	1-216-809-11	METAL CHIP	100	5%	1/10W	
R460	1-216-809-11	METAL CHIP	100	5%	1/10W		R573	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT317EE)
R461	1-216-821-11	METAL CHIP	1K	5%	1/10W		R600	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R462	1-216-833-11	METAL CHIP	10K	5%	1/10W		R601	1-216-851-11	METAL CHIP	330K	5%	1/10W	
R470	1-216-809-11	METAL CHIP	100	5%	1/10W		R602	1-216-851-11	METAL CHIP	330K	5%	1/10W	
R471	1-216-821-11	METAL CHIP	1K	5%	1/10W		R603	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R472	1-216-833-11	METAL CHIP	10K	5%	1/10W		R604	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R481	1-216-801-11	METAL CHIP	22	5%	1/10W		R606	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R485	1-218-883-11	METAL CHIP	33K	0.5%	1/10W		R607	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R491	1-216-805-11	METAL CHIP	47	5%	1/10W		R608	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R502	1-216-809-11	METAL CHIP	100	5%	1/10W								
R503	1-216-809-11	METAL CHIP	100	5%	1/10W								
R504	1-218-871-11	METAL CHIP	10K	0.5%	1/10W								
R505	1-218-871-11	METAL CHIP	10K	0.5%	1/10W								
R507	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT360)							
R509	1-216-809-11	METAL CHIP	100	5%	1/10W								

MAIN

SERVO

Ref. No.	Part No.	Description			Remark
R610	1-216-809-11	METAL CHIP	100	5%	1/10W
R611	1-216-864-11	SHORT CHIP	0		
R612	1-216-864-11	SHORT CHIP	0		
R615	1-216-809-11	METAL CHIP	100	5%	1/10W
R616	1-216-864-11	SHORT CHIP	0		
R636	1-216-845-11	METAL CHIP	100K	5%	1/10W
R671	1-216-809-11	METAL CHIP	100	5%	1/10W
R672	1-216-809-11	METAL CHIP	100	5%	1/10W
R673	1-216-833-11	METAL CHIP	10K	5%	1/10W
R674	1-216-845-11	METAL CHIP	100K	5%	1/10W
R701	1-216-821-11	METAL CHIP	1K	5%	1/10W
R702	1-216-841-11	METAL CHIP	47K	5%	(GT317EE) 1/10W
R703	1-216-833-11	METAL CHIP	10K	5%	(GT317EE) 1/10W
R704	1-216-833-11	METAL CHIP	10K	5%	(GT317EE) 1/10W
R705	1-249-425-11	CARBON	4.7K	5%	(GT317EE) 1/4W
R706	1-216-841-11	METAL CHIP	47K	5%	1/10W
R707	1-216-841-11	METAL CHIP	47K	5%	1/10W
R708	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R709	1-216-833-11	METAL CHIP	10K	5%	1/10W
< SWITCH >					
S103	1-786-826-11	SWITCH, TACTILE (RESET)			
< THERMISTOR (POSITIVE) >					
TH400	1-803-350-21	THERMISTOR, POSITIVE			
< TUNER UNIT >					
TU1	A-3220-960-B	TUNER UNIT (TUX-032)	(GT360)		
TU1	A-3220-961-B	TUNER UNIT (TUX-032)	(GT317EE)		
< VIBRATOR >					
X50	1-813-173-11	VIBRATOR, CRYSTAL (8.664MHz)	(GT317EE)		
X501	1-813-524-21	VIBRATOR, CERAMIC (18.432MHz)			
X502	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)			

A-1177-201-A		SERVO BOARD, COMPLETE	*****		

MISCELLANEOUS					

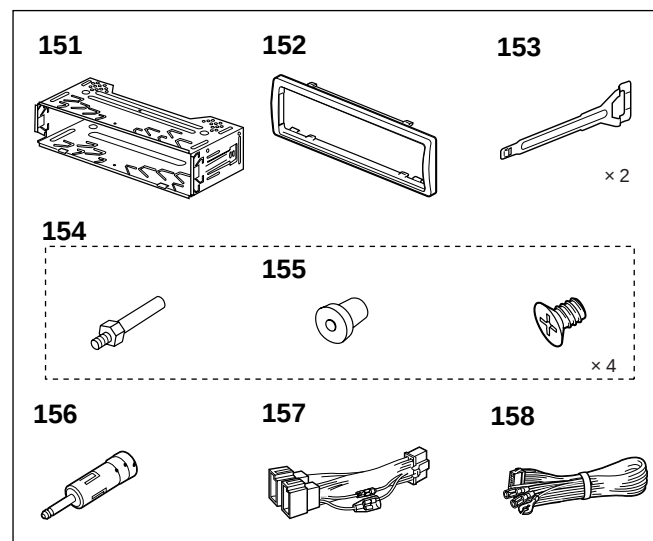
7	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER)	(GT317EE)		
7	1-833-100-11	CORD (WITH CONNECTOR) (POWER)	(GT360)		
△ 103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)			
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A			
J901	1-820-624-11	JACK (SMALL TYPE) (VERTICAL) (AUX)			

Ref. No.	Part No.	Description	Remark
		ACCESSORIES	

	1-479-077-13	REMOTE COMMANDER (RM-X151)	
	2-548-729-01	LID, BATTERY CASE (for RM-X151)	
	2-886-504-21	MANUAL, INSTRUCTION (ENGLISH, RUSSIAN) (GT317EE)	
	2-886-504-41	MANUAL, INSTRUCTION (ENGLISH) (GT360)	
	2-886-505-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, RUSSIAN) (GT317EE)	
	2-886-505-41	MANUAL, INSTRUCTION, INSTALL (ENGLISH) (GT360)	
	X-2149-228-2	CASE ASSY (for FRONT PANEL)	

PARTS FOR INSTALLATION AND CONNECTIONS			

151	X-3382-647-1	FRAME ASSY, FITTING	
152	2-686-803-01	COLLAR	
153	3-246-471-01	KEY (FRAME)	
154	X-3381-154-1	SCREW ASSY (BS4), FITTING	
155	3-349-410-11	BUSHING	
156	1-465-459-31	ADAPTOR, ANTENNA (GT317EE)	
157	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER) (GT317EE)	
158	1-833-100-11	CORD (WITH CONNECTOR) (POWER) (GT360)	



MEMO

CDX-GT317EE/GT360

SONY®

SERVICE MANUAL

Ver. 1.1 2007.03

Saudi Arabia Model

CDX-GT360

East European Model

CDX-GT317EE

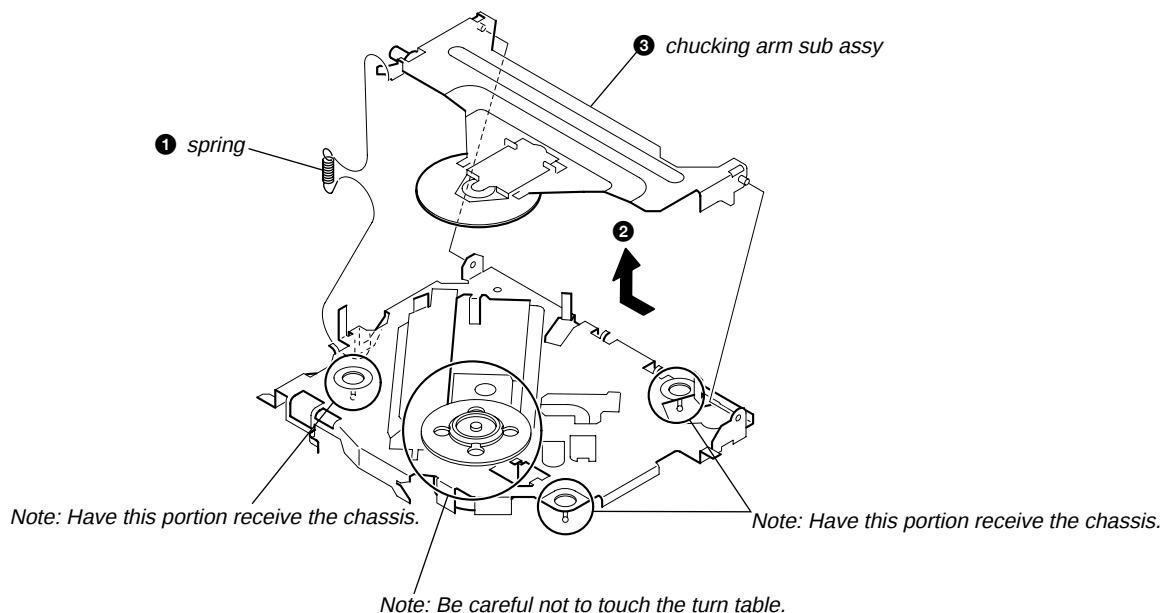
SUPPLEMENT-1

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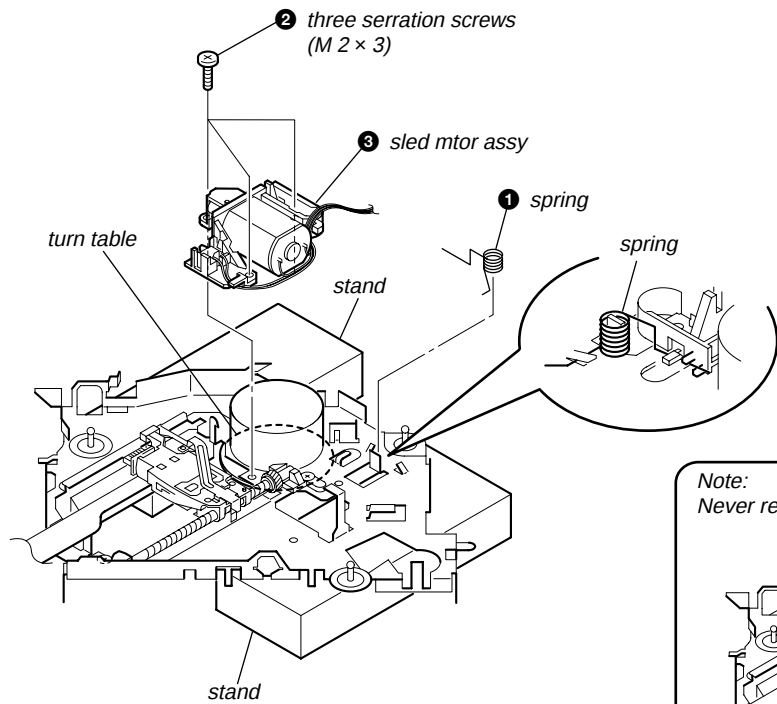
Subject: Notes for removal of the OPTICAL PICK-UP added.

DISASSEMBLY

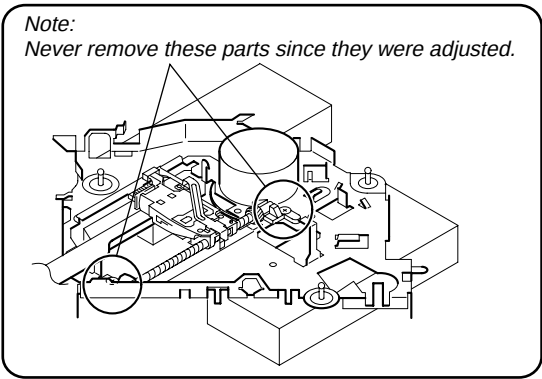
1. CHUCKING ARM SUB ASSY



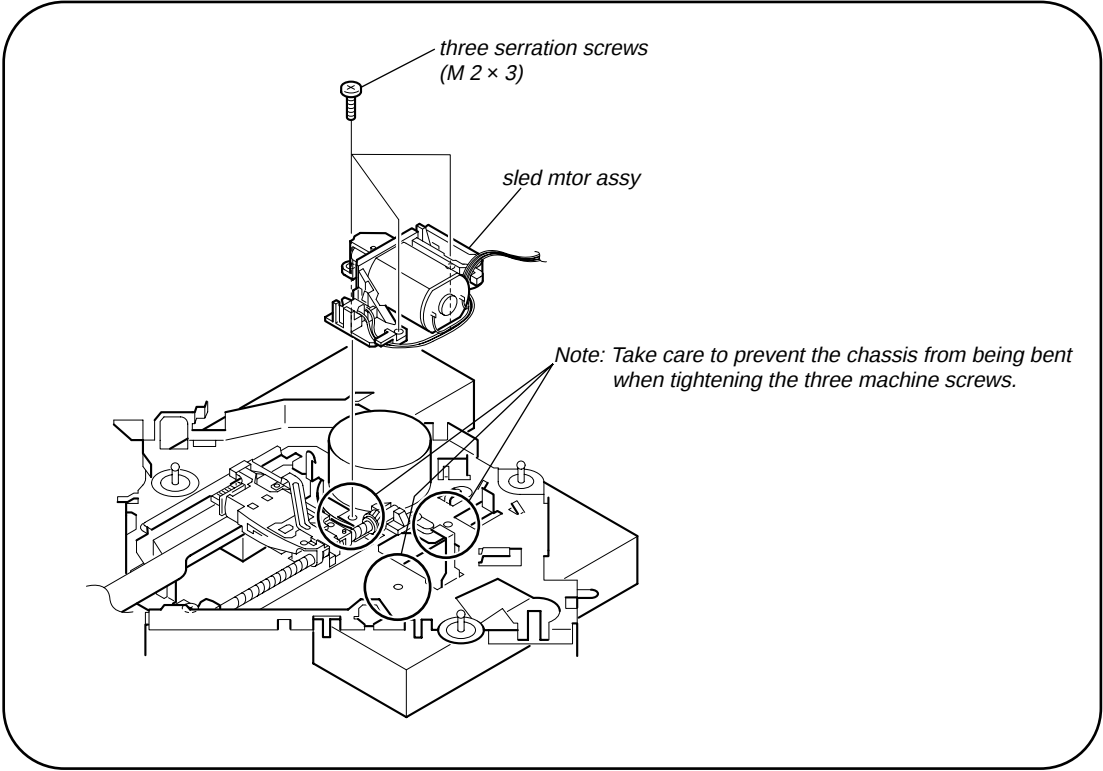
2. SLED MOTOR ASSY



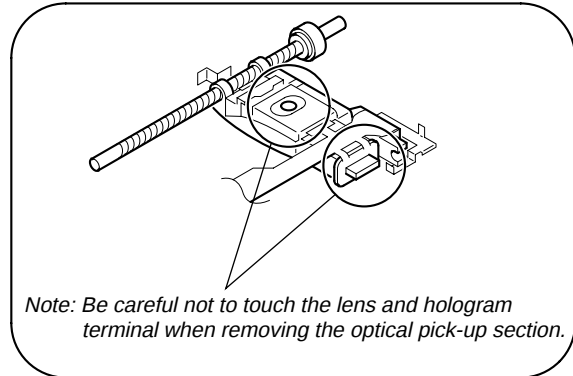
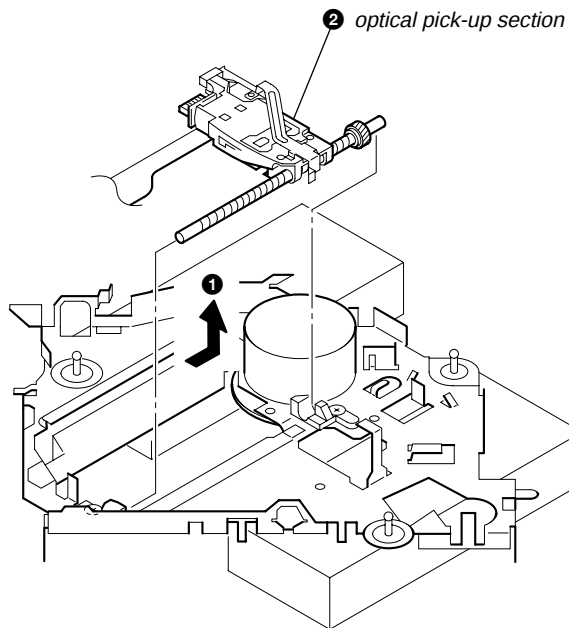
Note: Place the stand with care not to touch the turn table.



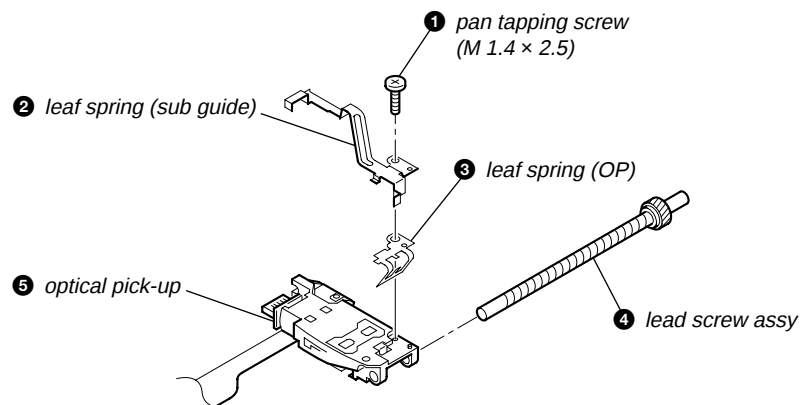
Note for Assembly



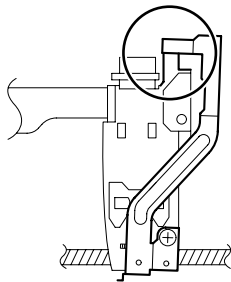
3. OPTICAL PICK-UP SECTION



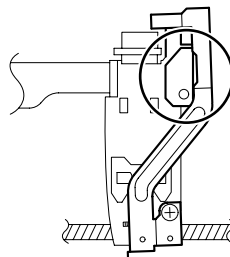
4. OPTICAL PICK-UP



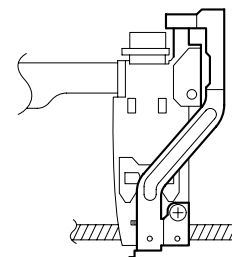
Notes for Assembly



Prevent the end of the leaf spring (sub guide) from being in contact with the OP slide base.



Prevent the end of the leaf spring (sub guide) from being in contact with the OP slide base.



There is space at the end of the leaf spring (sub guide) to avoid contact with the slide.

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

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

[illegible]