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

9-887-460-02
2007C04-1

Sony Corporation
eVehicle Division
Published by Sony Techno Create Corporation

SONY®

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.

SAFETY-RELATED COMPONENT WARNING!!

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

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

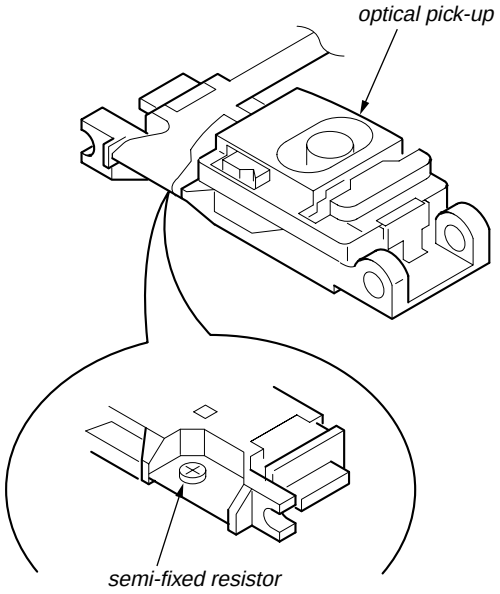
Please use the following test discs for the check on the CD section.

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.



This compact disc player is classif ied 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	COMPACT disc DIGITAL AUDIO Recordable / COMPACT disc DIGITAL AUDIO ReWritable
MP3 WMA	COMPACT disc DIGITAL AUDIO Recordable / COMPACT disc DIGITAL AUDIO ReWritable COMPACT disc Recordable / COMPACT disc ReWritable

* 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

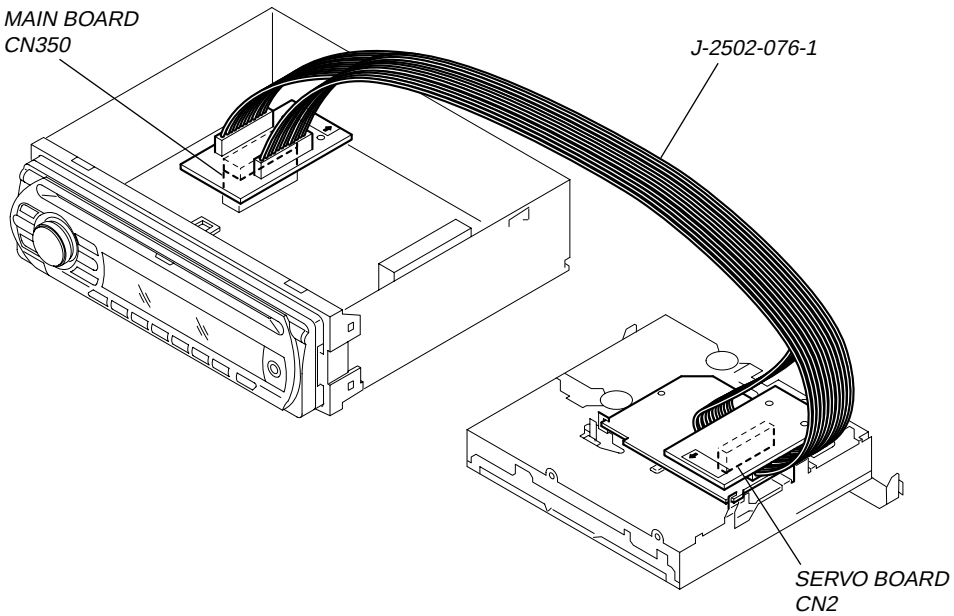
Unleaded solder has the following characteristics.

- 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 (stick y, less prone to flo w) 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).



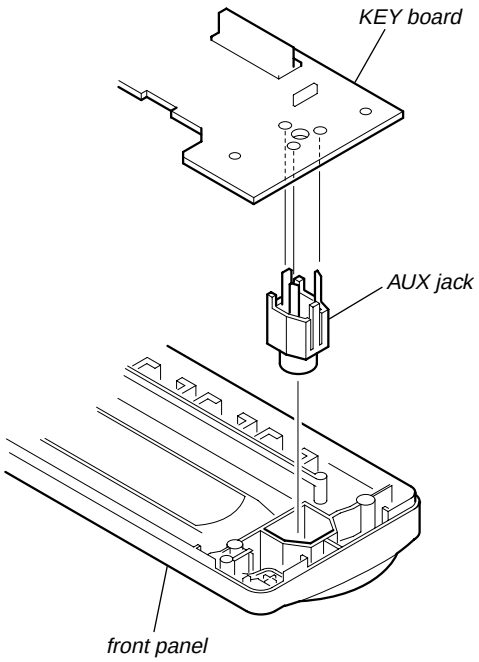
NOTE FOR REPLACEMENT OF THE SERVO BOARD

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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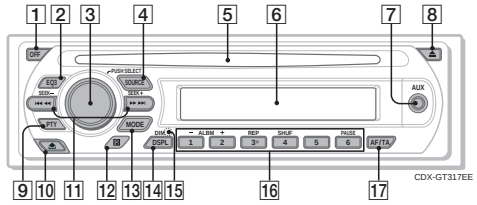
SECTION 1
GENERAL

This section is extracted from instruction manual.

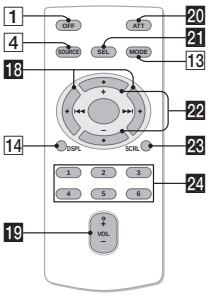
• LOCATION OF CONTROLS
• CDX-GT317EE

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*1/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*2.

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 –/+***3*4
To skip albums (press); skip albums continuously (press and hold).
③: **REP** 8
④: **SHUF** 8
⑥: **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 **⬅ (I◀◀)/➡ (▶▶I) 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.*

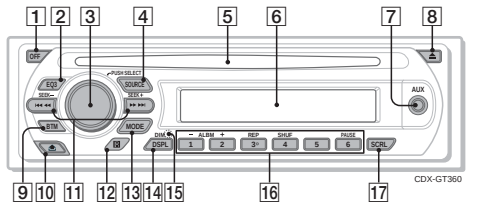
Note
If the unit is turned off and the display disappears, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

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



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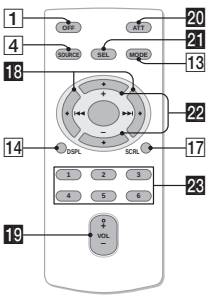

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To power on; change the source (Radio/CD/MD*1/AUX).

5 **Disc slot**
Insert the disc (label side up), playback starts.

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**
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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).
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To tune in stations automatically (press); find a station manually (press and hold).

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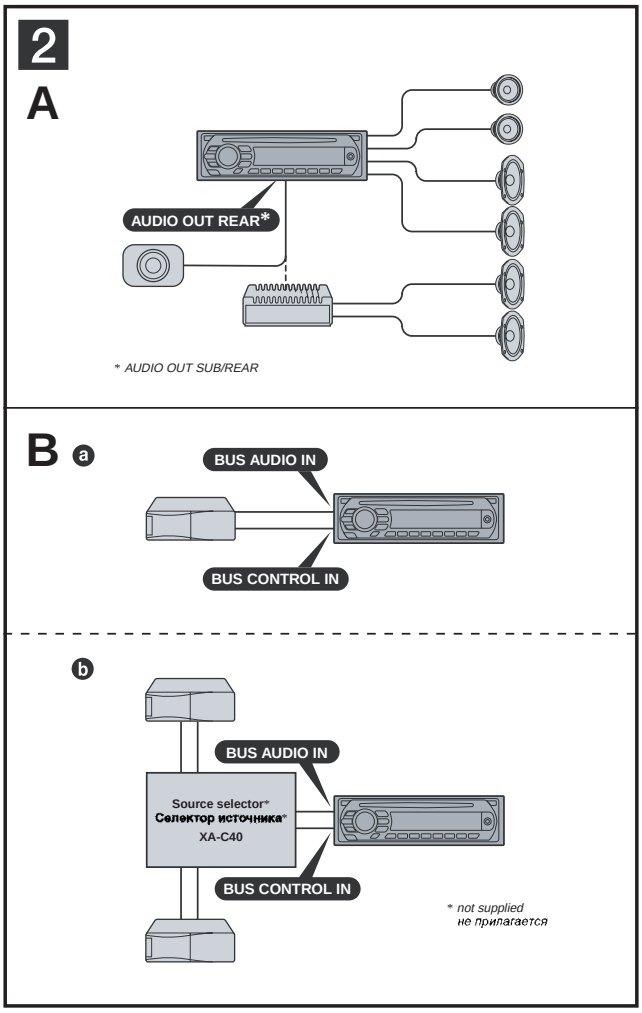
• **CONNECTIONS**
• **CDX-GT317EE**



Connection example 2

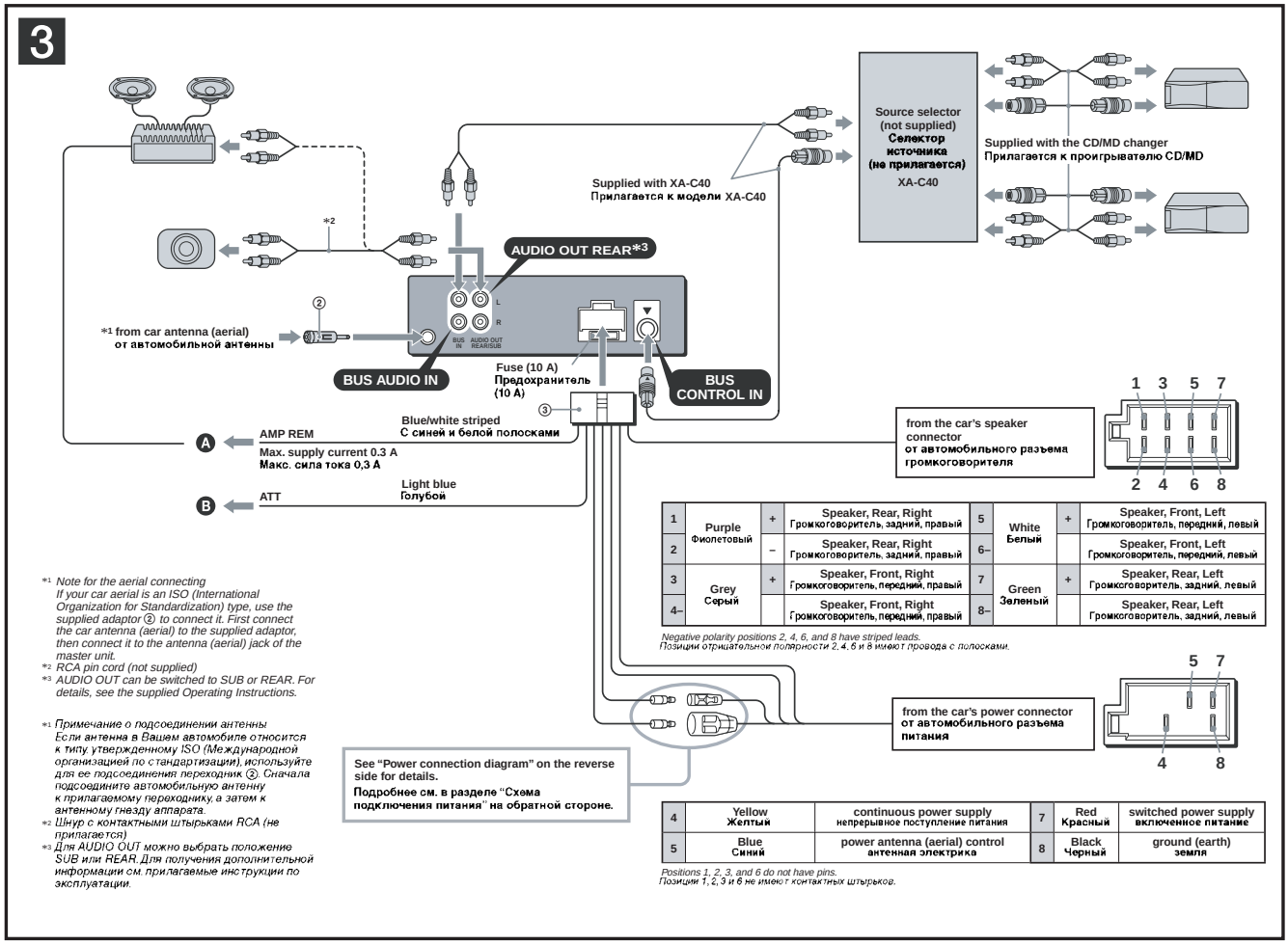
Notes **(2-A)**
- *Be sure to connect the ground (earth) lead before connecting the amplifier.*
- *The alarm will only sound if the built-in amplifier is used.*

Tip **(2-B-b)**
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-b)**
При подсоединении двух или более проигрывателей CD/MD потребуется селектор источника XA-C40 (не прилагается).



1	Purple Фиолетовый	+	Speaker, Rear, Right Громкоговоритель, задний, правый	5	White Белый	+	Speaker, Front, Left Громкоговоритель, передний, левый
2		–	Speaker, Rear, Right Громкоговоритель, задний, правый	6–			Speaker, Front, Left Громкоговоритель, передний, левый
3	Grey Серый	+	Speaker, Front, Right Громкоговоритель, передний, правый	7	Green Зеленый	+	Speaker, Rear, Left Громкоговоритель, задний, левый
4–			Speaker, Front, Right Громкоговоритель, передний, правый	8–			Speaker, Rear, Left Громкоговоритель, задний, левый

Negative polarity positions 2, 4, 6, and 8 have striped leads.
Позиции отрицательной полярности 2, 4, 6 и 8 имеют провода с полосками.

4	Yellow Желтый	continuous power supply непрерывное поступление питания	7	Red Красный	switched power supply включенное питание
5	Blue Синий	power antenna (aerial) control антенная электрика	8	Black Черный	ground (earth) земля

Positions 1, 2, 3, and 6 do not have pins.
Позиции 1, 2, 3 и 6 не имеют контактных штырьков.

**1 Note for the aerial connecting*
If your car aerial is an ISO (International Organization for Standardization) type, use the supplied adaptor ② to connect it. First connect the car antenna (aerial) to the supplied adaptor, then connect it to the antenna (aerial) jack of the master unit.
**2 RCA pin cord (not supplied)*
**3 AUDIO OUT can be switched to SUB or REAR. For details, see the supplied Operating Instructions.*

**1 Примечание о подсоединении антенны*
Если антенна в Вашем автомобиле относится к типу, утвержденному ISO (Международной организацией по стандартизации), используйте для ее подсоединения переходник ②. Сначала подсоедините автомобильную антенну к прилагаемому переходнику, а затем к антенному гнезду аппарата.
**2 Шнур с контактными штырьками RCA (не прилагается)*
**3 Для AUDIO OUT можно выбрать положение SUB или REAR. Для получения дополнительной информации см. прилагаемые инструкции по эксплуатации.*

Connection diagram 3

A To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.
B 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 suppy 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/MW/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

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 релейного блока, подсоединение этого аппарата посредством прилагаемого провода питания ③ может привести к повреждению антенны.

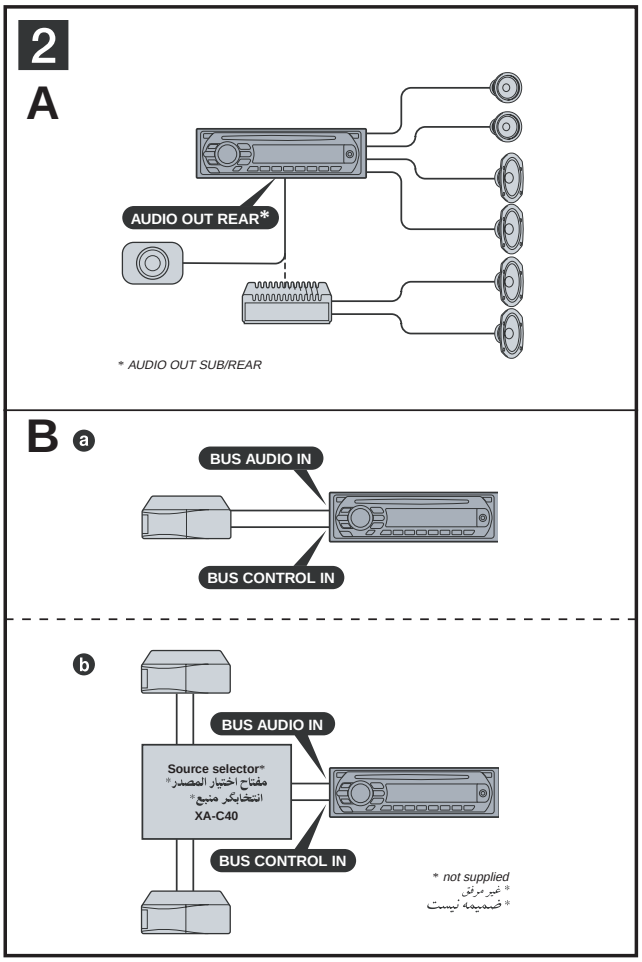
О проводах управления и питания
- *При включении тюнера, а также использовании функции AF (Альтернативные частоты) или TA (Сообщения о текущей ситуации на дорогах) по проводу питания приемной антенны (синему) подается напряжение +12 В постоянного тока.*
- *Если на заднем/боковом стекле автомобиля установлена встроенная антенна диапазона FM/MW/LW, подсоедините провод питания приемной антенны (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 релейным блоком, с этим аппаратом использоваться не может.*

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 подключайте 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.

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

مثال على التوصيل 2

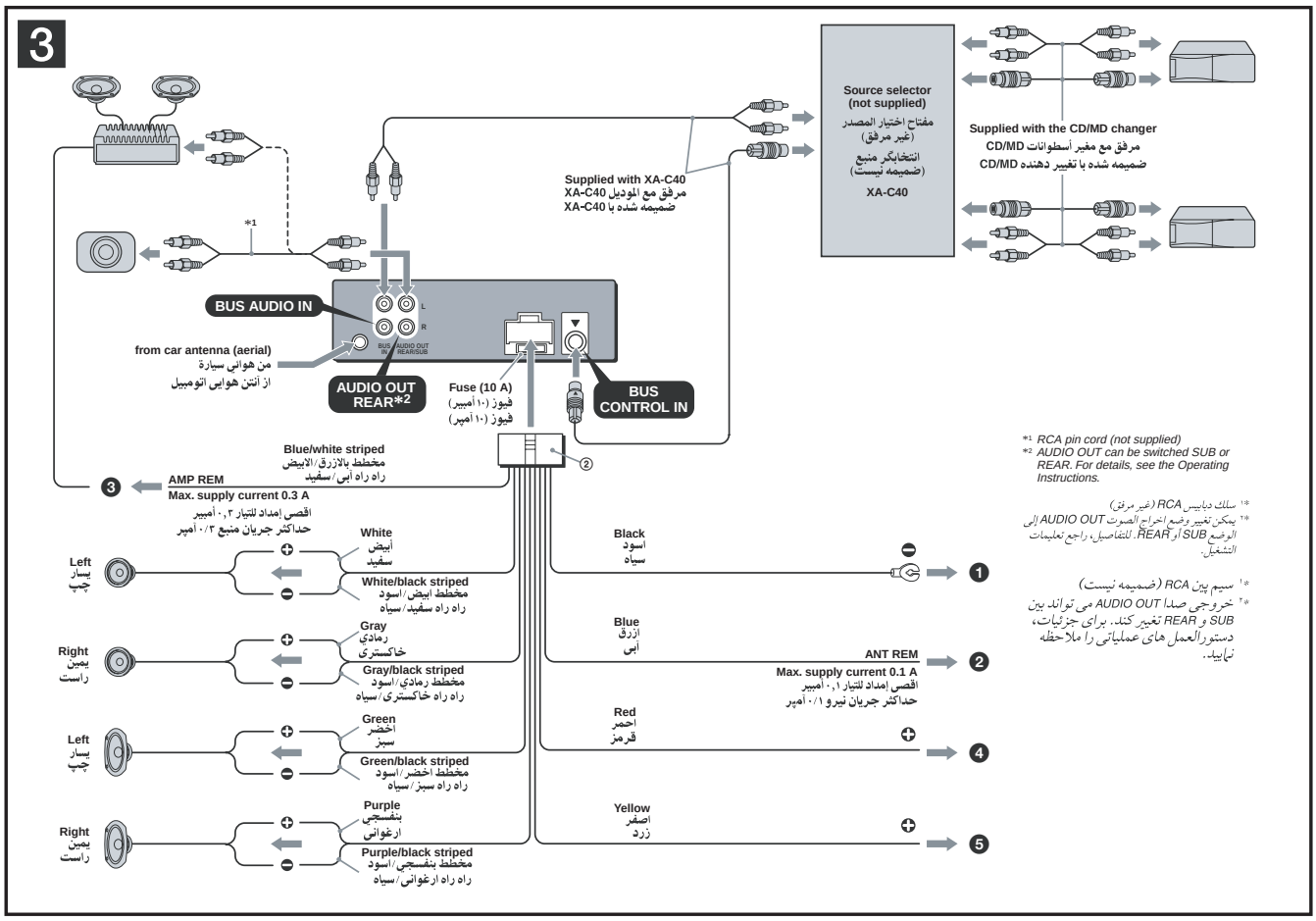
***ملاحظات* (2-A)**
- *تأكد من توصيل سلك التأريض قبل توصيل المضخم.*
- *سيصدر صوت التنبيه فقط إذا تم استعمال مضخم الصوت الداخلي.*

***توجيه* (2-B-b)**
لتوصيل جهازي تغيير أسطوانات CD/MD، ليس من الضروري استعمال مفتاح اختيار المصدر للموديل XA-C40 (غير مرفق).

نمونه اتصال 2

***نکات* (2-A)**
- *اطمینان حاصل کنید که سیم زمین (ارث) 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-b)**
برای وصل کردن دو تغییر دهنده CD/MD یا بیشتر، انتخابگر منبع XA-C40 (ضمیمه نیست) ضروری است.



*1 RCA pin cord (not supplied)
*2 AUDIO OUT can be switched SUB or REAR. For details, see the Operating Instructions.

*1 سلك دبابيس RCA (غير مرفق)
*2 يمكن تغيير وضع اخراج الصوت AUDIO OUT إلى الوضع SUB أو REAR. للتفاصيل، راجع تعليمات التشغيل.

*1 سیم پین RCA (ضمیمه نیست)
*2 خروجی صدا AUDIO OUT می تواند بین SUB و REAR تغییر کند. برای جزئیات، دستورالعمل های عملیاتی را ملاحظه نمایید.

Connection diagram 3

❶ To a metal surface of the car
First connect the black ground (earth) lead, then connect the yellow, and red power input leads.

❷ 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/SWantenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

❸ To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.

❹ 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."*

❺ 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/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

❶ إلى سطح نقطة معدنية في السيارة
قم أولاً بتوصيل سلك التأريض الأسود، ثم قم بتوصيل الأسلاك الأصفر والأحمر الخاصة بإدخال الطاقة.

❷ إلى سلك التحكم في الهوائي الآلي أو سلك امداد الطاقة بمضخم معزز الهوائي
ملاحظات
- *ليس من الضروري توصيل هذا السلك إذا لم يتوفر هوائي آلي أو معزز هوائي، أو بهوائي تلسكوبي يعمل يدوياً.*
- *عندما تكون سيارتك تتضمن هوائي FM/MW/SW داخلي في الزجاج الجانبي الخلفي، راجع قسم «ملاحظات حول أسلاك التحكم وامداد التيار».*

❸ للتوصيل إلى AMP REMOTE IN لمضخم القدرة الاختياري
هذه التوصيلة مخصصة فقط لأجهزة تضخيم الصوت. توصيل أي جهاز آخر قد يضر بالوحدة.

❹ إلى طرف التيار + ١٢ فولت الذي يسري فيه التيار عندما يكون مفتاح تشغيل المحرك في وضع الكماليات
ملاحظات
- *عند عدم وجود وضع الكماليات، قم بالتوصيل إلى طرف التيار + ١٢ 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 وامداد التيار».*

❺ إلى طرف توصيل التيار + ١٢ فولت الذي يسري فيه التيار باستمرار
تأكد أولاً من توصيل السلك الأسود بسطح نقطة معدنية في السيارة.

ملاحظات حول أسلاك التحكم وامداد التيار
- *سلك التحكم في الهوائي الآلي (أزرق) يقوم بإمداد تيار مباشر + ١٢ فولت عندما تقوم بتشغيل المؤلف.*
- *عندما تكون سيارتك تتضمن هوائي FM/MW/SW داخلي في الزجاج الجانبي الخلفي، من الضروري توصيل سلك التحكم في الهوائي الآلي (أزرق) أو سلك دخل قدرة الكماليات (أحمر) إلى طرف توصيل القدرة لمعزز الهوائي الموجود أصلاً. لمزيد من التفاصيل، قم باستشارة الوكيل لديك.*
- *لا يمكن استعمال هوائي آلي بدون صندوق ترحيل مع هذه الوحدة.*

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

ملاحظات حول توصيل السماعات
- *قبل توصيل السماعات، أوقف تشغيل الجهاز.*
- *استعمل سماعات بمعاوقة من ٤ إلى ٨ أوم وسعة تحمّل قدرة مناسبة لتفادي الاصابة بضرر.*
- *لا تقم بتوصيل أطراف توصيل نظام السماعات بهيكل السيارة، ولا تقم بتوصيل أطراف توصيل السماعة اليمنى بأطراف توصيل السماعة اليسرى.*
- *لا تقم بتوصيل سلك التأريض لهذا الجهاز إلى الطرف السالب (–) لسماعة التكبير.*
- *لا تحمد إلى توصيل السماعات بشكل متواز.*
- *قم بتوصيل سماعات التكبير الغير فعالة. توصيل سماعات التكبير الفعالة (باستعمال مضخم صوت داخلي) إلى أطراف سماعات التكبير قد يلحق أضرار بالوحدة.*
- *لتفادي الأعطال، لا تستعمل أسلاك سماعة التكبير الداخلية المركبة في سيارتك اذا كانت الوحدة تقاسم طرف سالب (–) عام للسماعات اليمنى واليسرى.*
- *لا تقم بتوصيل أسلاك سماعة التكبير ببعضهما البعض.*

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

نمودار اتصال 3

❶ به یک سطح فلزی اتومبیل
ابتدا سیم سیاه زمین را وصل کنید، سپس سیم های ورودی زرد و قرمز را وصل کنید.

❷ به سیم کنترل آنتن هوایی برقی یا سیم منبع برق تقویت کننده هوایی
نکات
- *در صورتی که آنتن هوایی برقی یا تقویت کننده هوایی وجود ندارد، یا با یک آنتن هوایی تلسکوپی دستی وصل کردن این سیم ضروری نیست.*
- *هنگامی که اتومبیل شما دارای یک آنتن هوایی FM/MW/SW در شیشه عقبی/کناری می باشد، " نکات در مورد سیم های کنترل و منبع برق" را ملاحظه نمایید.*

❸ به AMP REMOTE IN یک تقویت کننده نیرو اختیاری
این اتصال تنها برای تقویت کننده ها است. وصل کردن هر سیستم دیگری ممکن است دستگاه را خراب کند.

❹ به ترمینال برق + ١٢ ولت که در موقعیت جانبی کلید احتراق نیرو می گیرد
نکات
- *اگر هیچ موقعیت جانبی وجود ندارد، به ترمینال برق (باطری) +١٢ ولت که همواره نیرو می گیرد وصل کنید. اطمینان حاصل کنید که ابتدا سیم سیاه زمین را به سطح فلزی اتومبیل وصل کنید.*
- *هنگامی که اتومبیل شما دارای یک آنتن هوایی FM/MW/SW در شیشه عقبی/کناری می باشد، " نکات در مورد سیم های کنترل و منبع برق" را ملاحظه نمایید.*

❺ به ترمینال برق +١٢ ولت که همواره نیرو می گیرد
اطمینان حاصل کنید که ابتدا سیم سیاه زمین را به سطح فلزی اتومبیل وصل کنید.

نکات در مورد سیم های کنترل و منبع برق
- *هنگامی که شما موج یاب را روشن می کنید سیم کنترل آنتن هوایی برقی (آبی) برق مستقیم ١٢+ ولت را تامین می کند.*
- *هنگامی که اتومبیل شما دارای یک آنتن هوایی FM/MW/SW در شیشه عقبی/کناری می باشد، سیم کنترل آنتن هوایی برقی (آبی) یا سیم منبع برق جانبی (قرمز) را به ترمینال برق تقویت کننده آنتن هوایی موجود وصل کنید. برای جزئیات، با فروشنده خود مشورت نمایید.*
- *یک آنتن هوایی بدون یک ایستگاه تقویت نمی تواند با این دستگاه مورد استفاده قرار گیرد.*

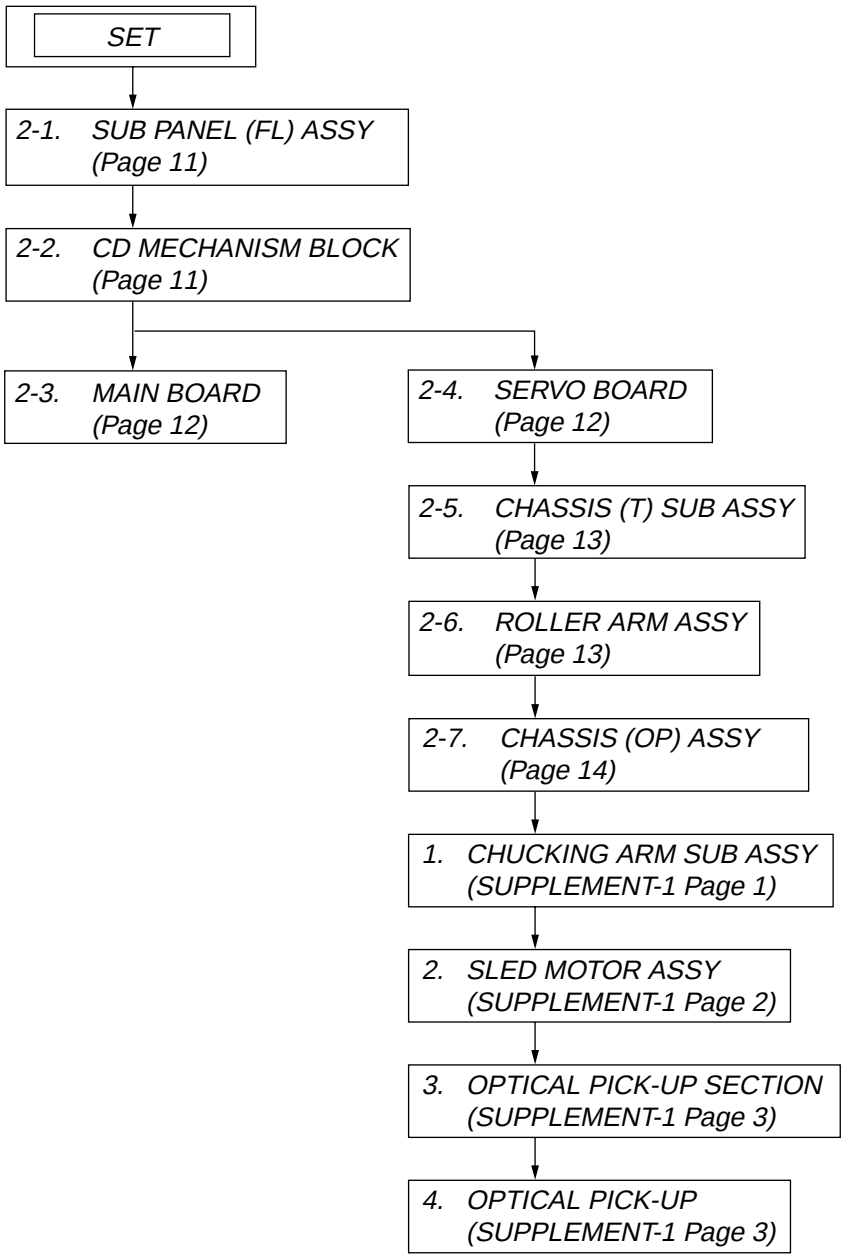
اتصال حفظ حافظه
هنگامی که سیم منبع برق زرد وصل می شود، برق همیشه به مدار حافظه حتی هنگامی که سوئیچ احتراق خاموش است تامین خواهد شد.

نکات در مورد اتصال بلندگو
- *پیش از وصل کردن بلندگوها، دستگاه را خاموش کنید.*
- *از بلندگوها با امپدانس ۴ تا ٨ اهم، و با ظرفیت بالای برق استفاده کنید تا از صدمه به آن جلوگیری کنید.*
- *ترمینال های بلندگو را به شاسی اتومبیل 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 اتومبیل 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.*

نکته 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.

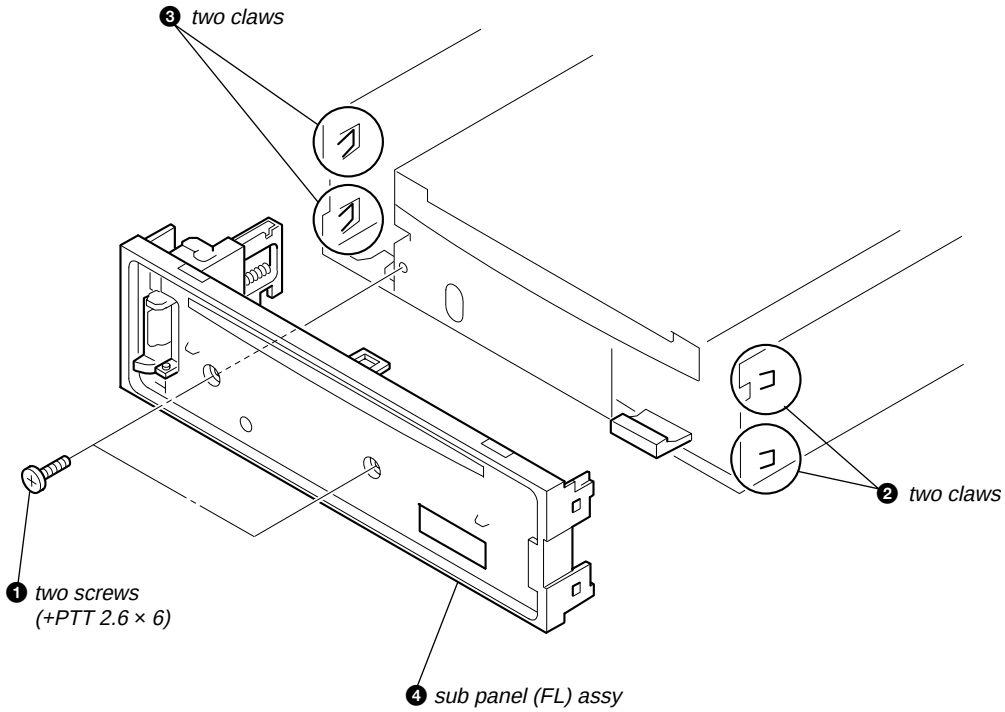
SECTION 2
DISASSEMBLY

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

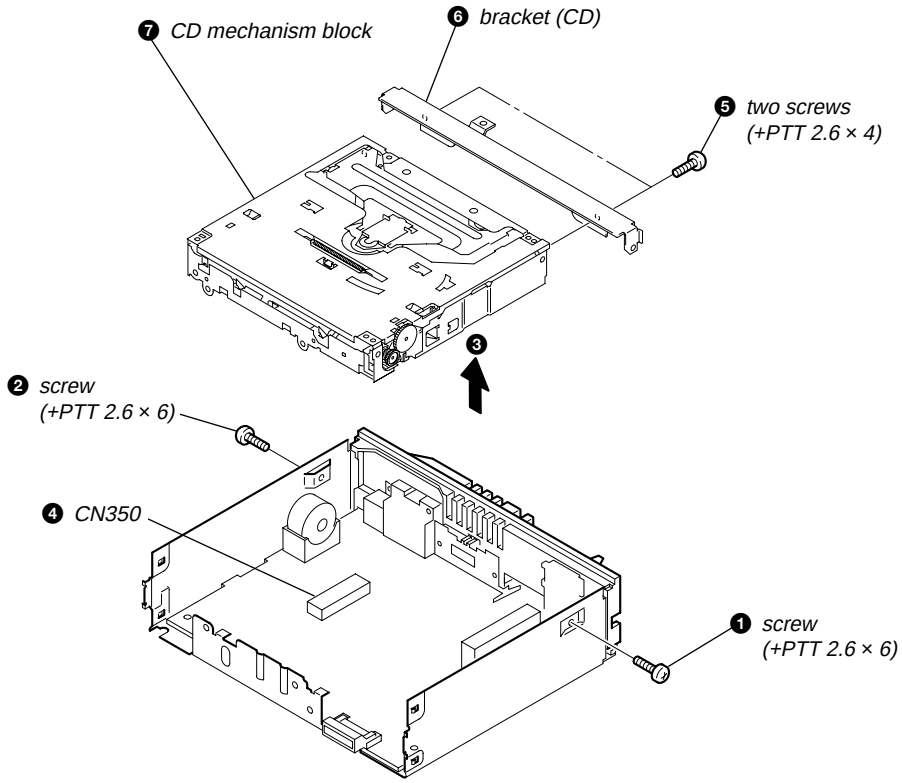


Note: Follow the disassembly procedure in the numerical order given.

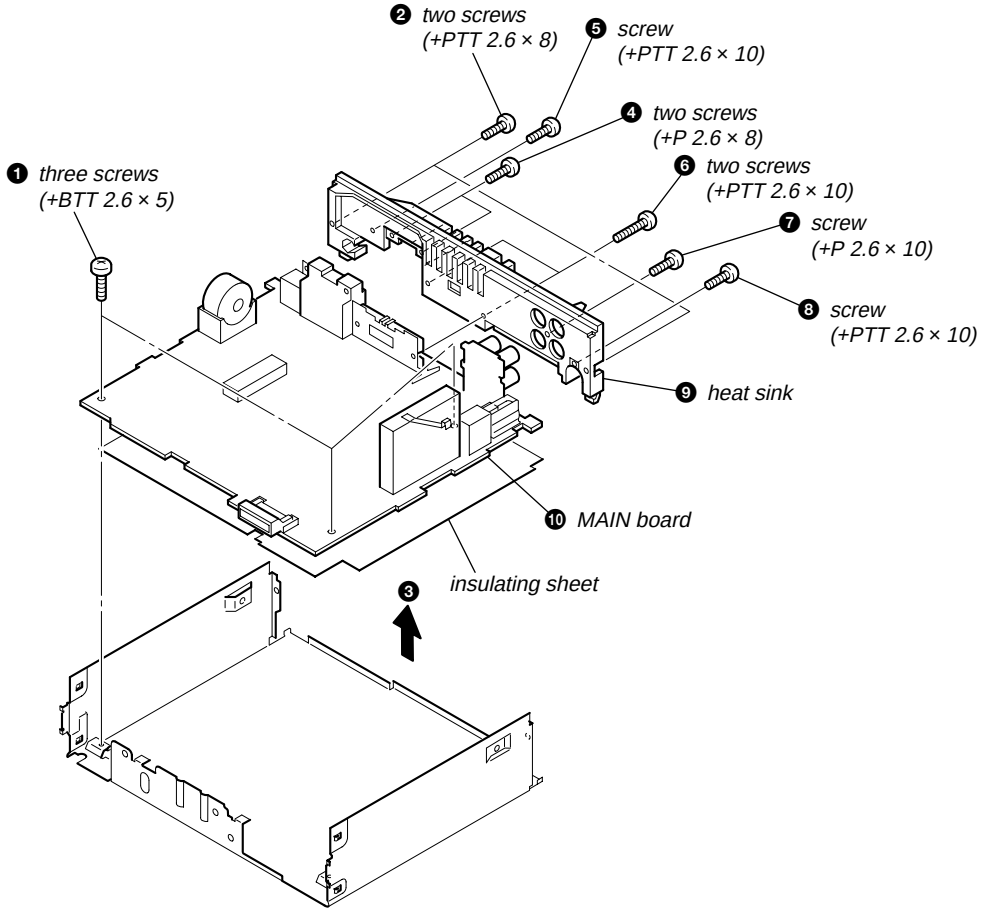
2-1. SUB PANEL (FL) ASSY



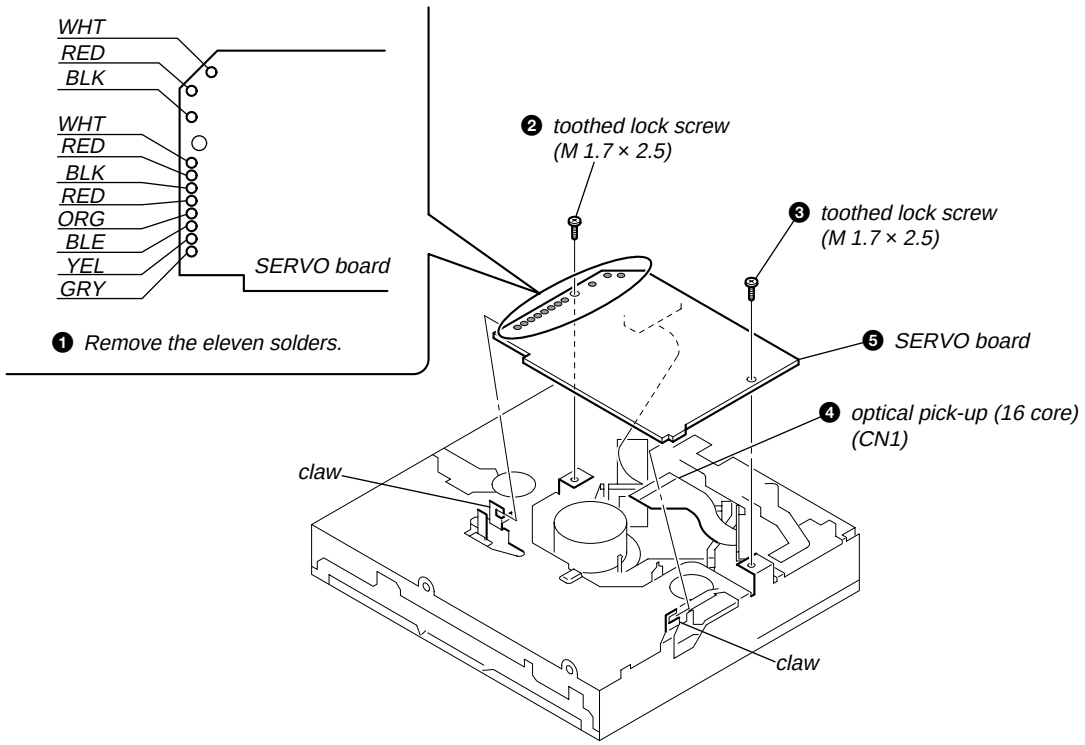
2-2. CD MECHANISM BLOCK



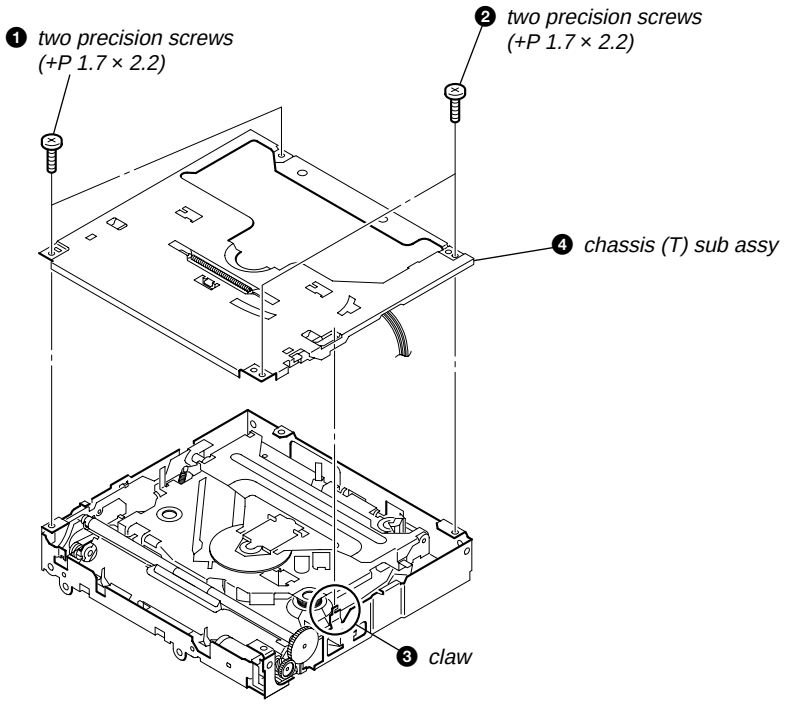
2-3. MAIN BOARD



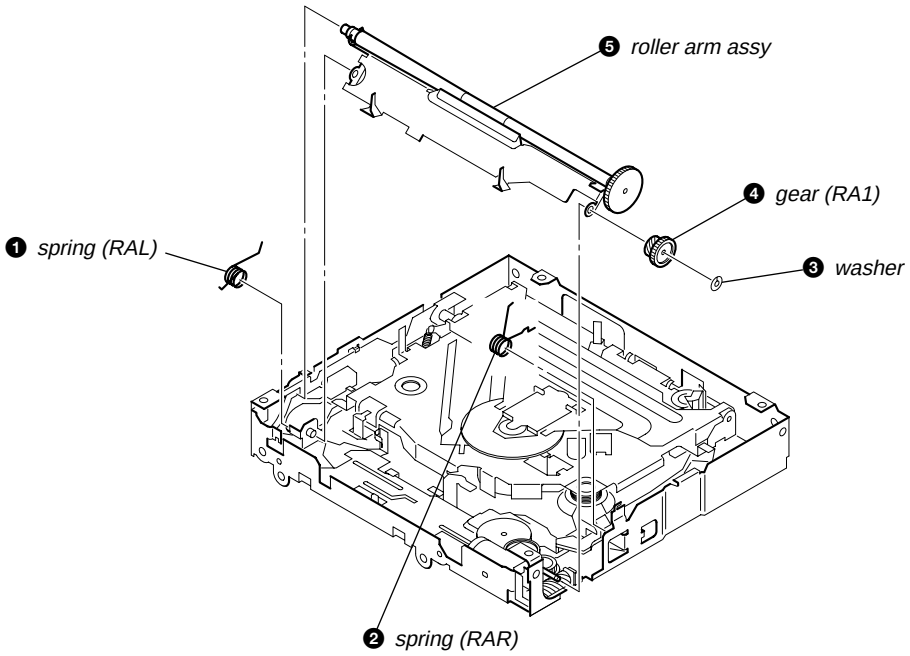
2-4. SERVO BOARD



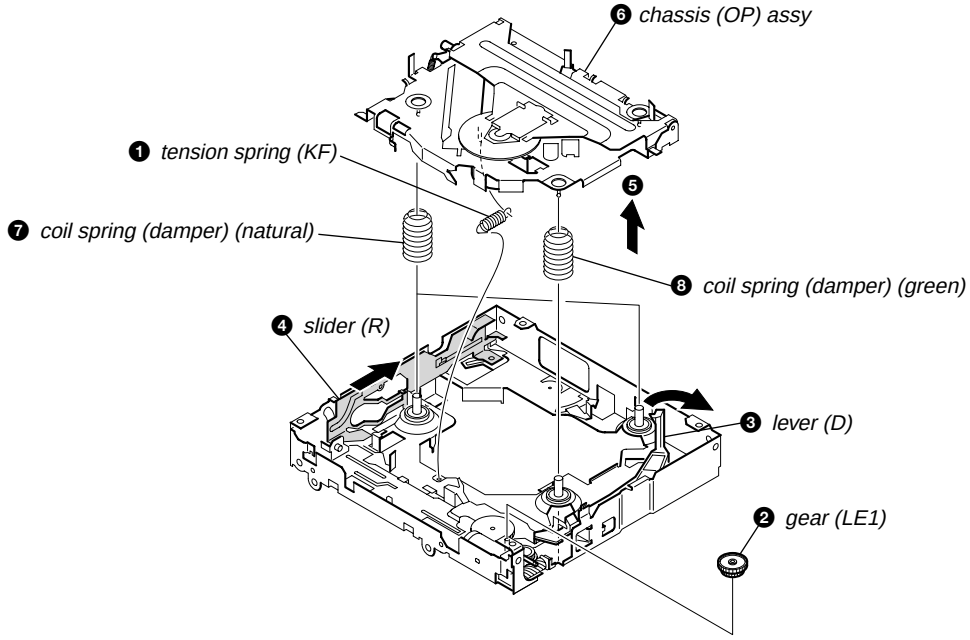
2-5. CHASSIS (T) SUB ASSY



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

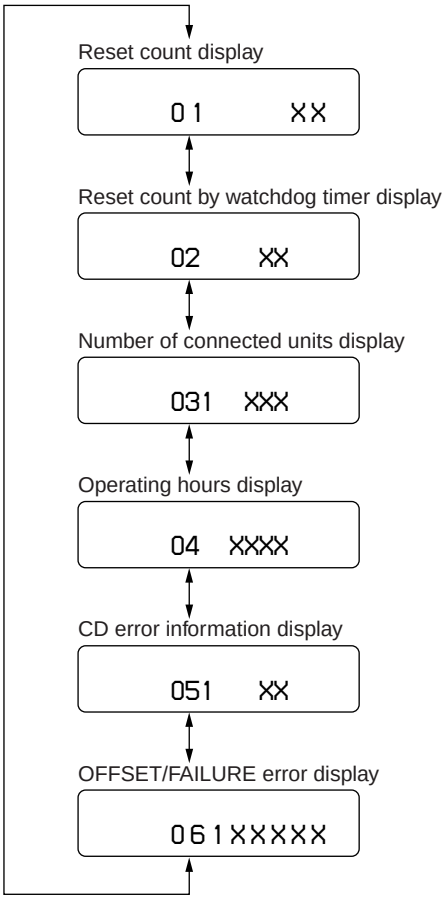
With the power off, press the [4] button, [5] button, and [4] button on the set body or the remote control (for more than 2 seconds) in turn.

2. Canceling the Diag display mode

During the Diag function mode, press the [OFF] button.

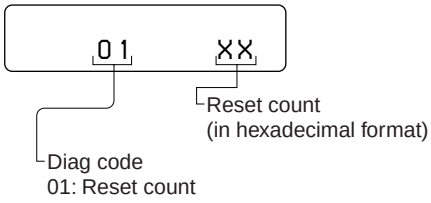
3. Initial display in the Diag display mode.

Just when the Diag mode is entered, "reset count" is displayed. The display mode is switched by each rotation of [SEEK +/▶▶ ▶▶I] or [SEEK – /I◀◀ ◀◀] keys.

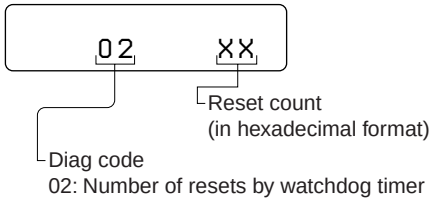


4. Contents of each display mode

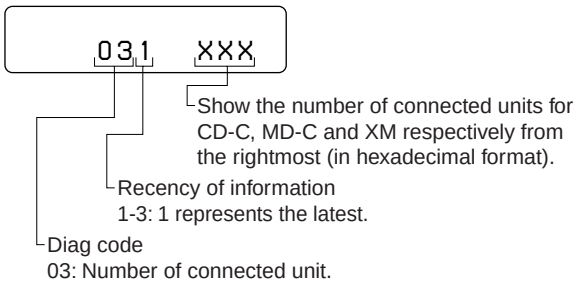
4-1. Reset count display mode



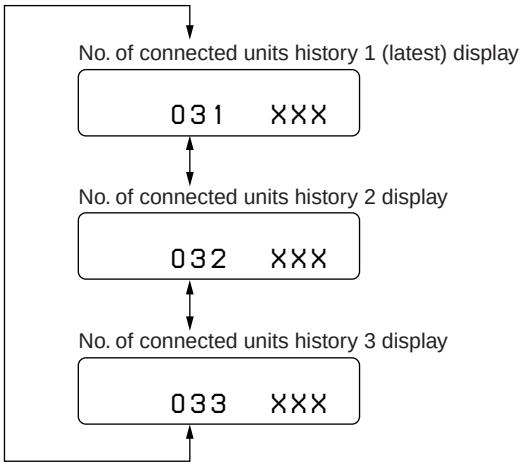
4-2. Reset count by watchdog timer display mode



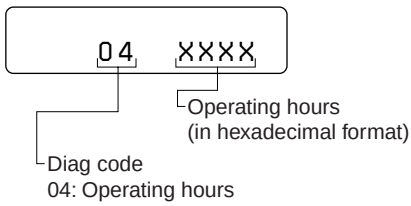
4-3. Number of connected units display mode



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

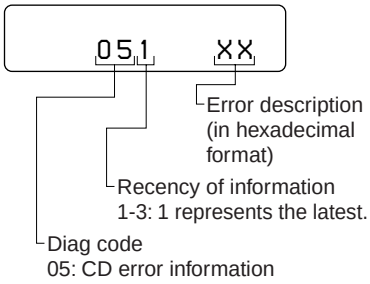


4-4. Operating hours display mode



4-5. CD error information display mode

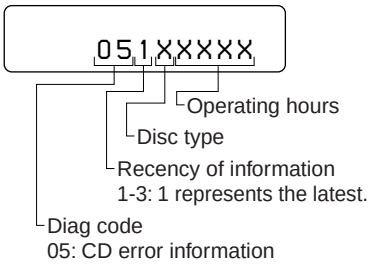
4-5-1. Error description



Error information

Indication	Description
1X	SERVO ERROR
3X	LOADING ERROR
4X	TRACK JUMP
5X	TEXT ERROR
FX	MECHA ERROR

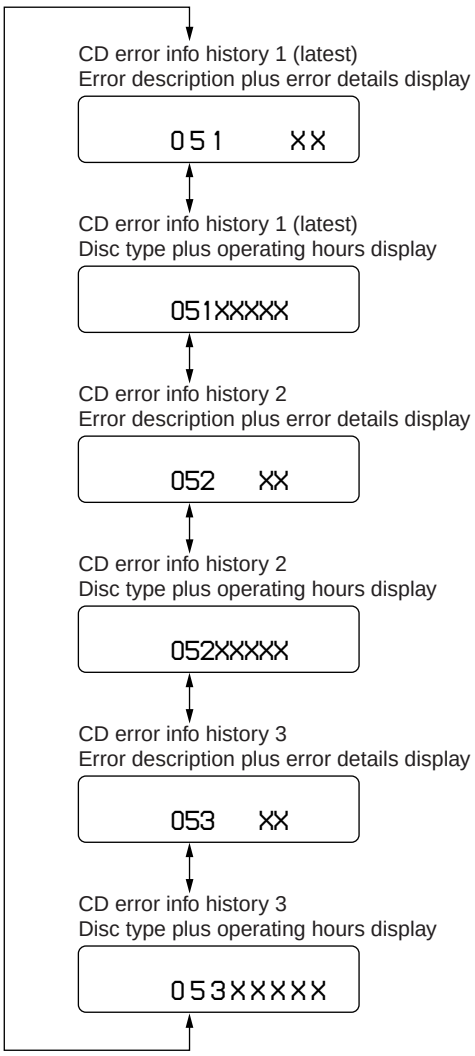
4-5-2. Disc type and operating hours



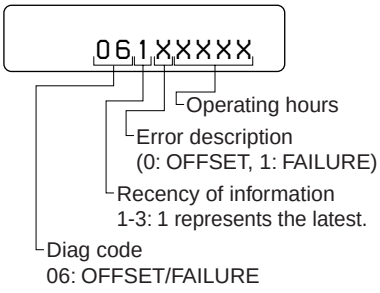
Disc type

Indication	Disc type
0	MP3
1	WMA
2	AAC
3	ATRAC
8	CD/DA
F	UNKNOWN

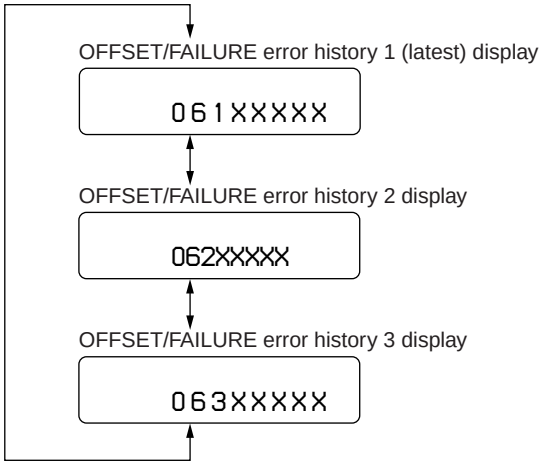
The display mode is switched by each rotation of 2/ALBM+ or 1/ALBM– keys during the CD error information display mode.



4-6. OFFSET/FAILURE error display mode

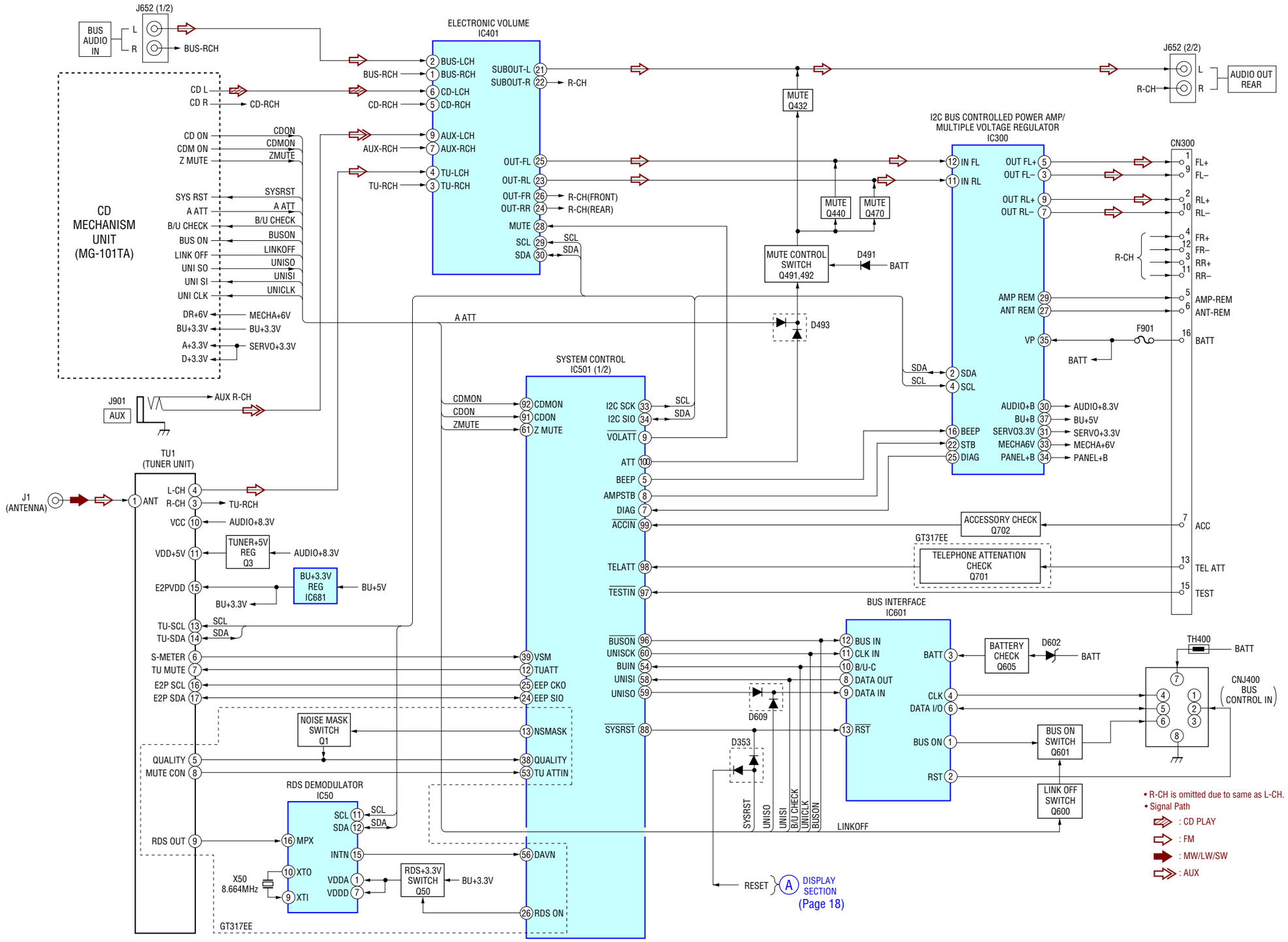


The display mode is switched by each rotation of 2/ALBM+ or 1/ALBM– keys during the OFFSET/FAILURE error display mode.

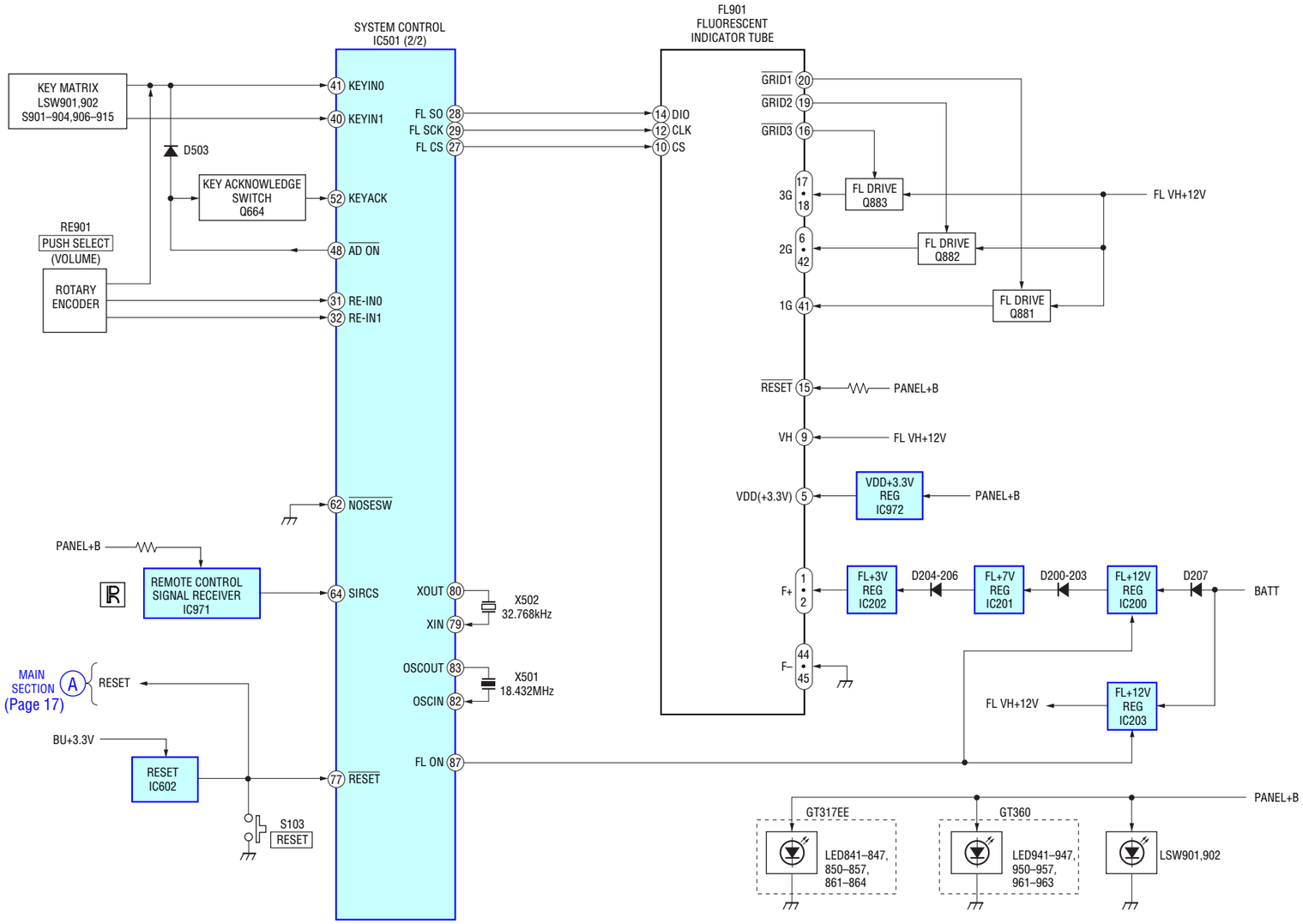


SECTION 4
DIAGRAMS

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 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

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

- ▬▬ : 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 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD PLAY
  ⇨ : FM
  ➡ : MW/LW/SW
  ⇨ : AUX

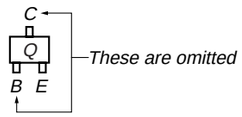
For printed wiring boards.

Note:

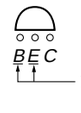
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

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



These are omitted



These are omitted

These are omitted

• Waveforms

— MAIN Board —

① IC501 ㊽ (XOUT)

32.768 kHz

0.2 V/DIV, 20 µsec/DIV

② IC501 ㊽ (OSC IN)

18.432 MHz

0.5 V/DIV, 0.1 µsec/DIV

③ IC50 ⑨ (XTI)

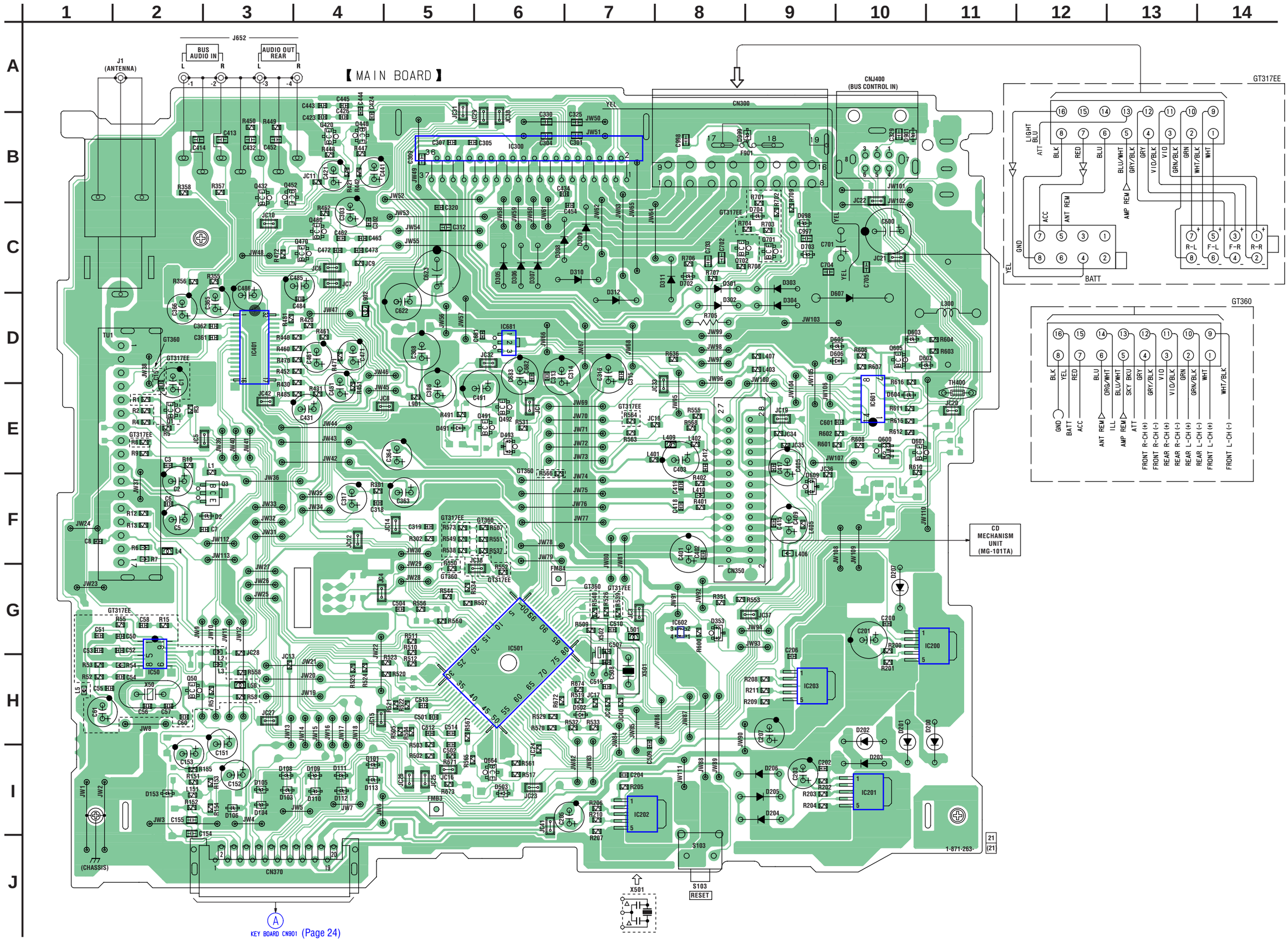
8.664 MHz

0.5 V/DIV, 0.1 µsec/DIV

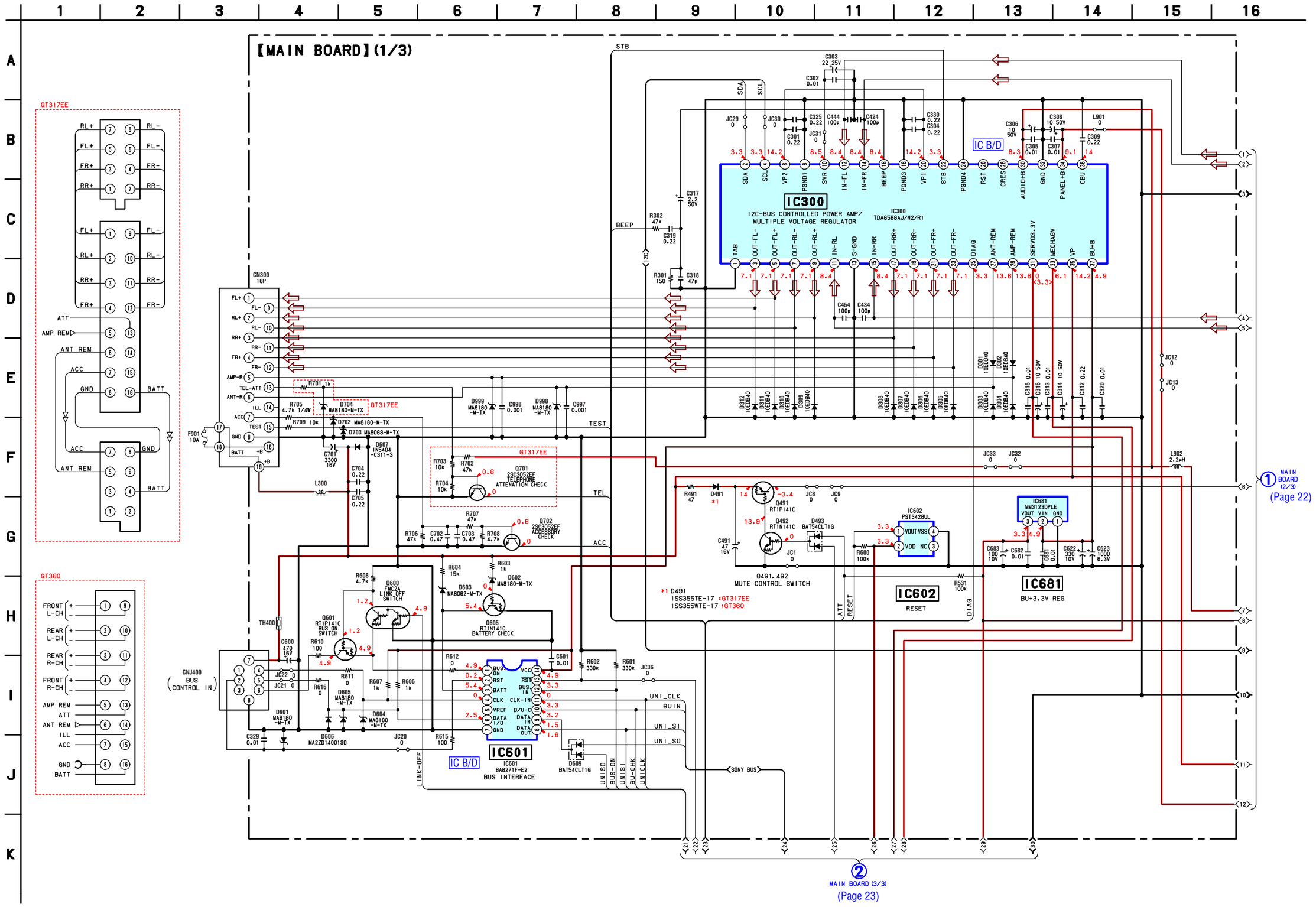
• Semiconductor Location (MAIN Board)

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.

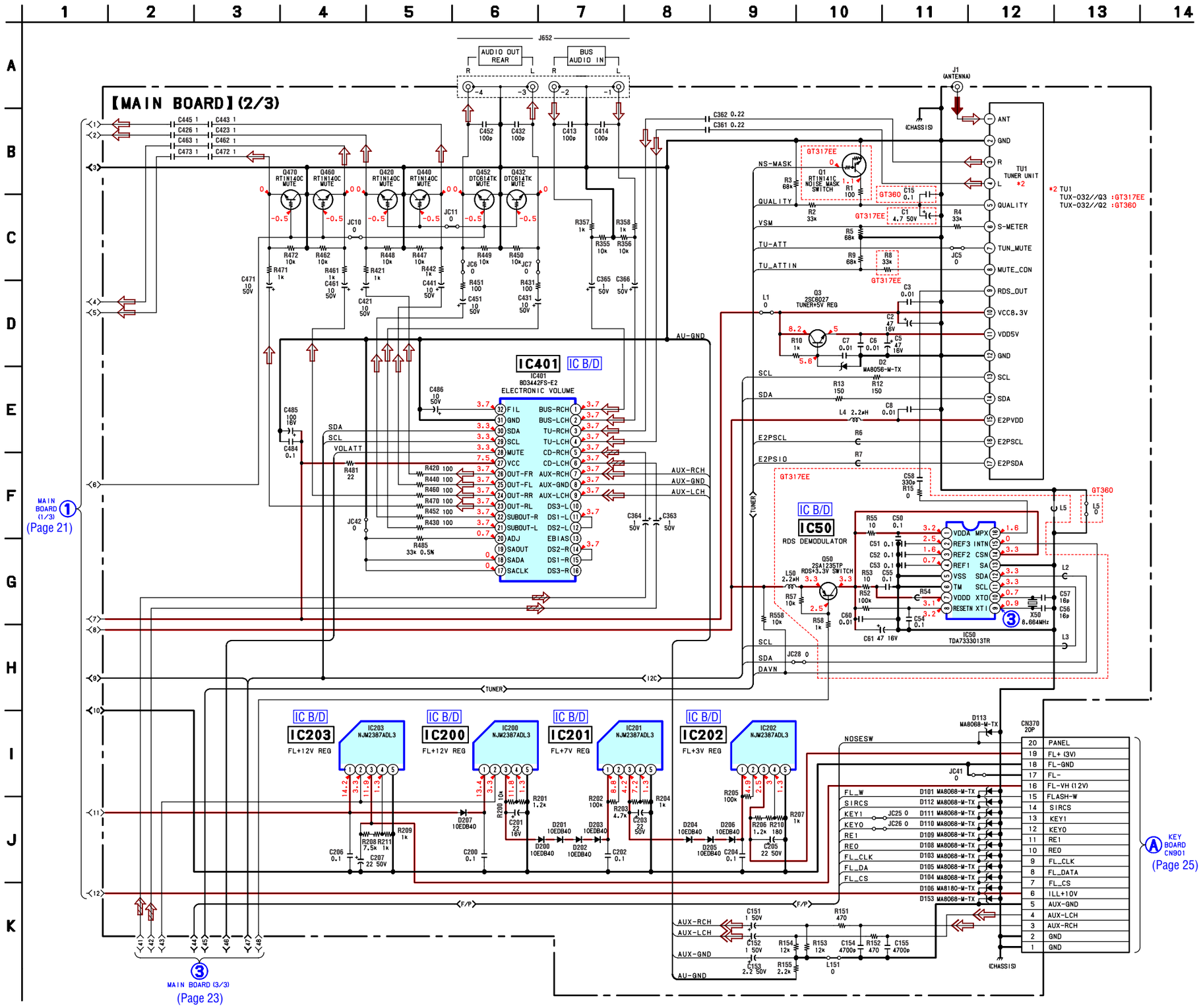


4-4. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 26 for IC Block Diagrams.



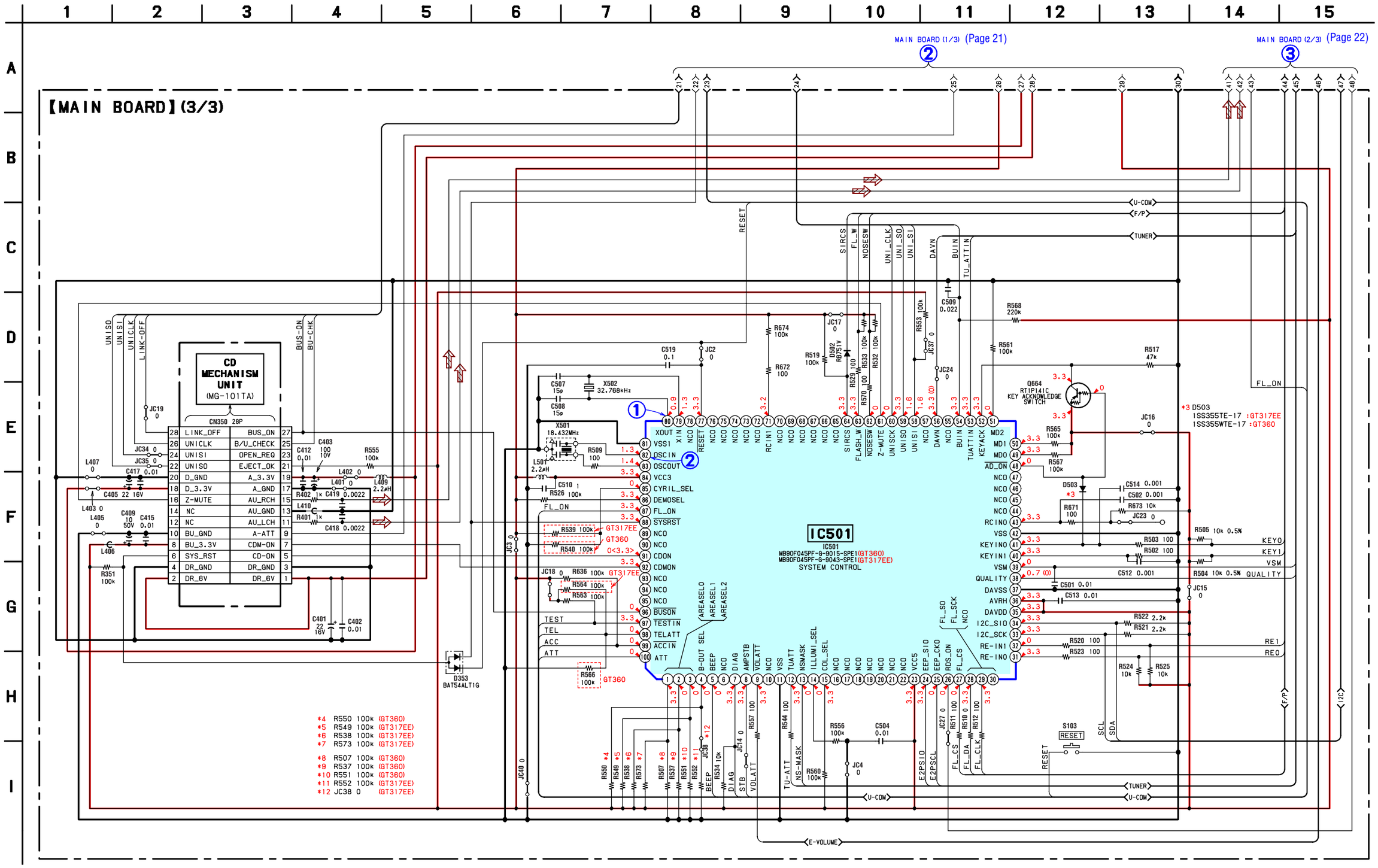
4-5. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) —

- Refer to page 19 for Waveforms.
- Refer to page 26 for IC Block Diagrams.

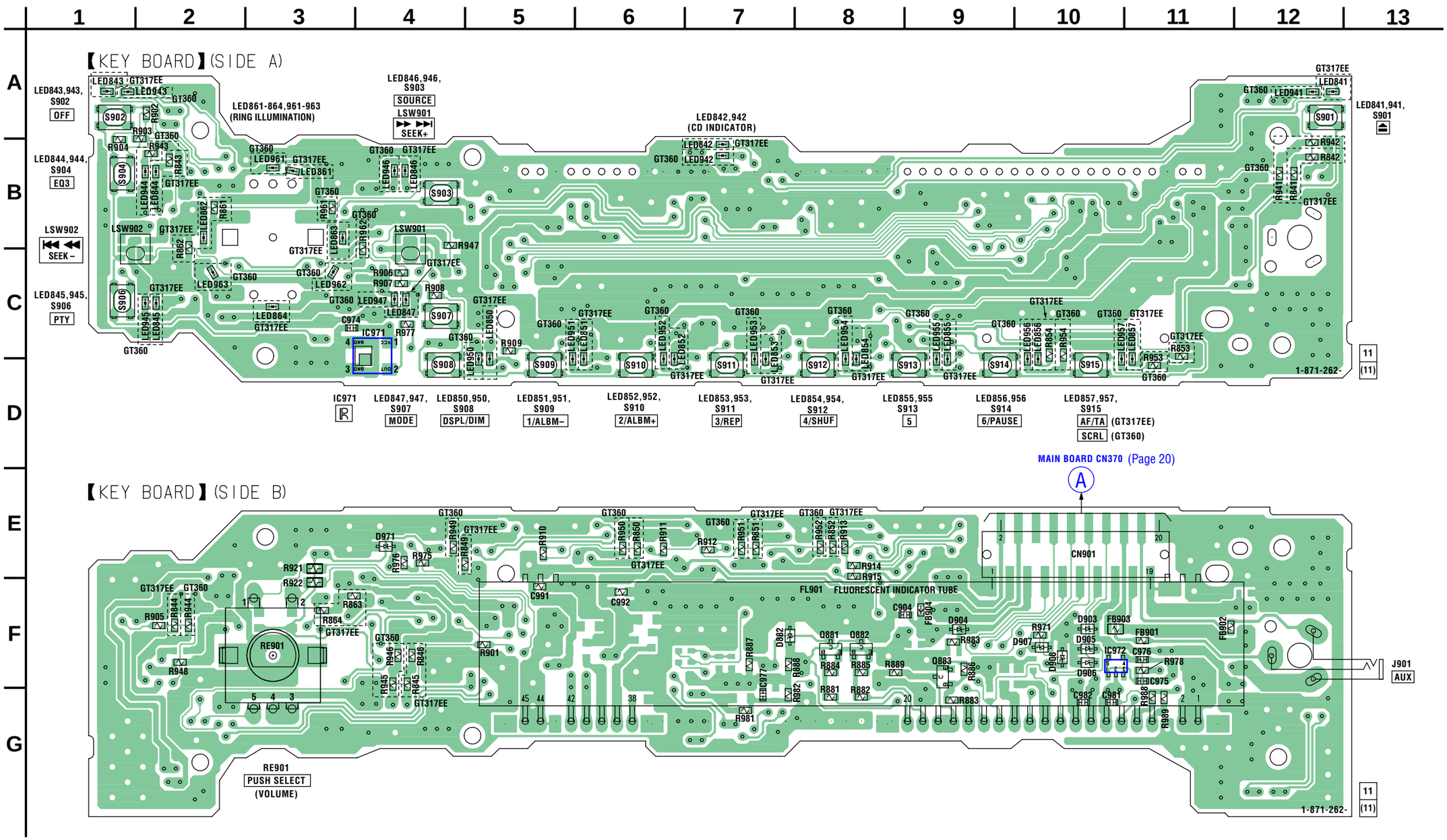


4-6. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) —

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



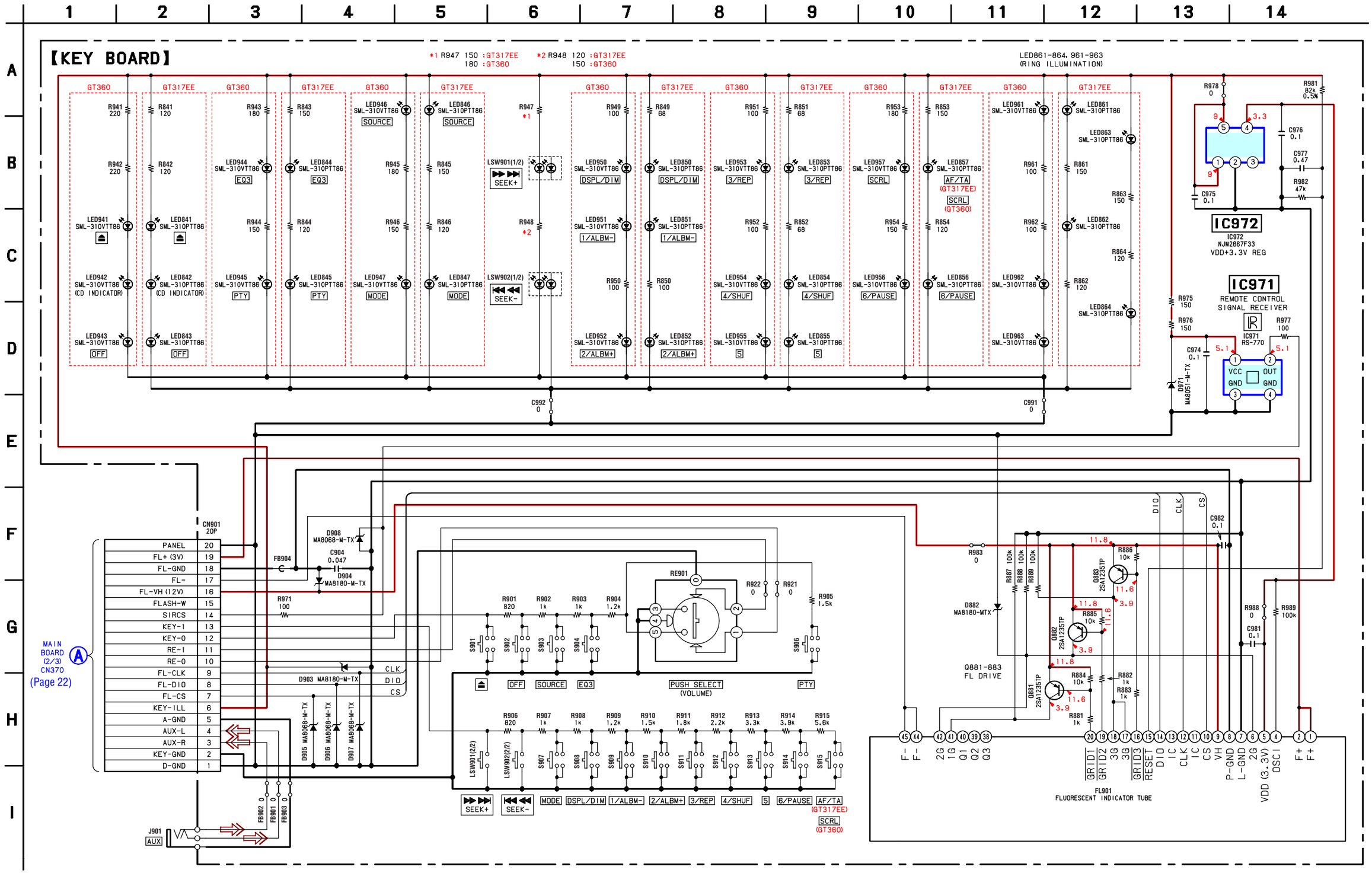
4-7. PRINTED WIRING BOARD — KEY SECTION — : Uses unleaded solder.



- **Semiconductor Location**

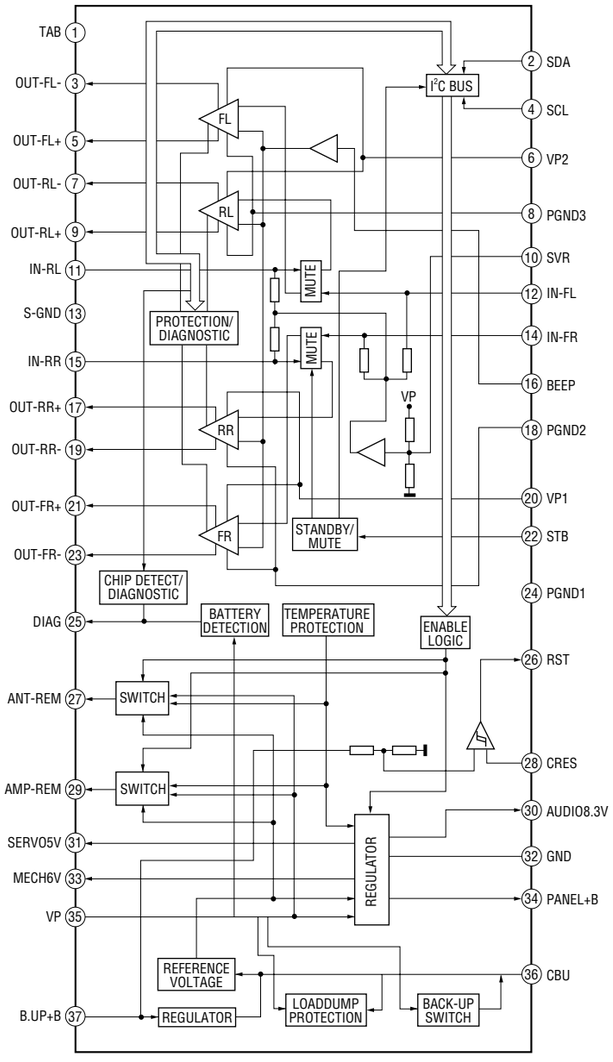
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D882	F-7	LED843	A-1	LED862	B-2	LED954	C-8
D903	F-10	LED844	B-2	LED863	B-3	LED955	C-9
D904	F-9	LED845	C-2	LED864	C-3	LED956	C-10
D905	F-10	LED846	B-4	LED941	A-12	LED957	C-10
D906	F-10	LED847	C-4	LED942	B-7	LED961	B-3
D907	F-10	LED850	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 —

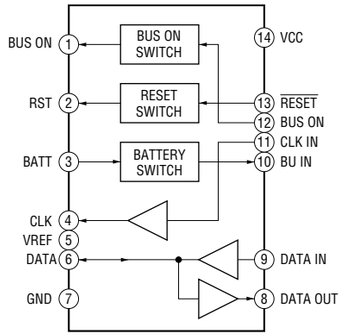


• IC BLOCK DIAGRAMS

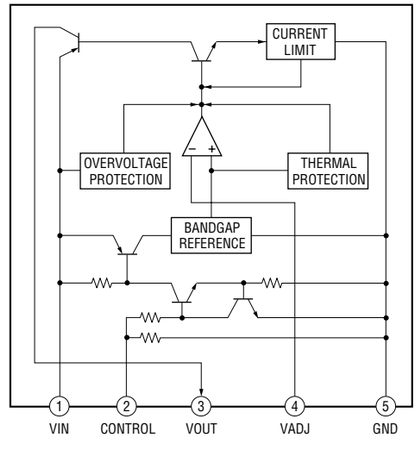
IC300 TDA8588AJ/N2/R1 (MAIN Board (1/3))



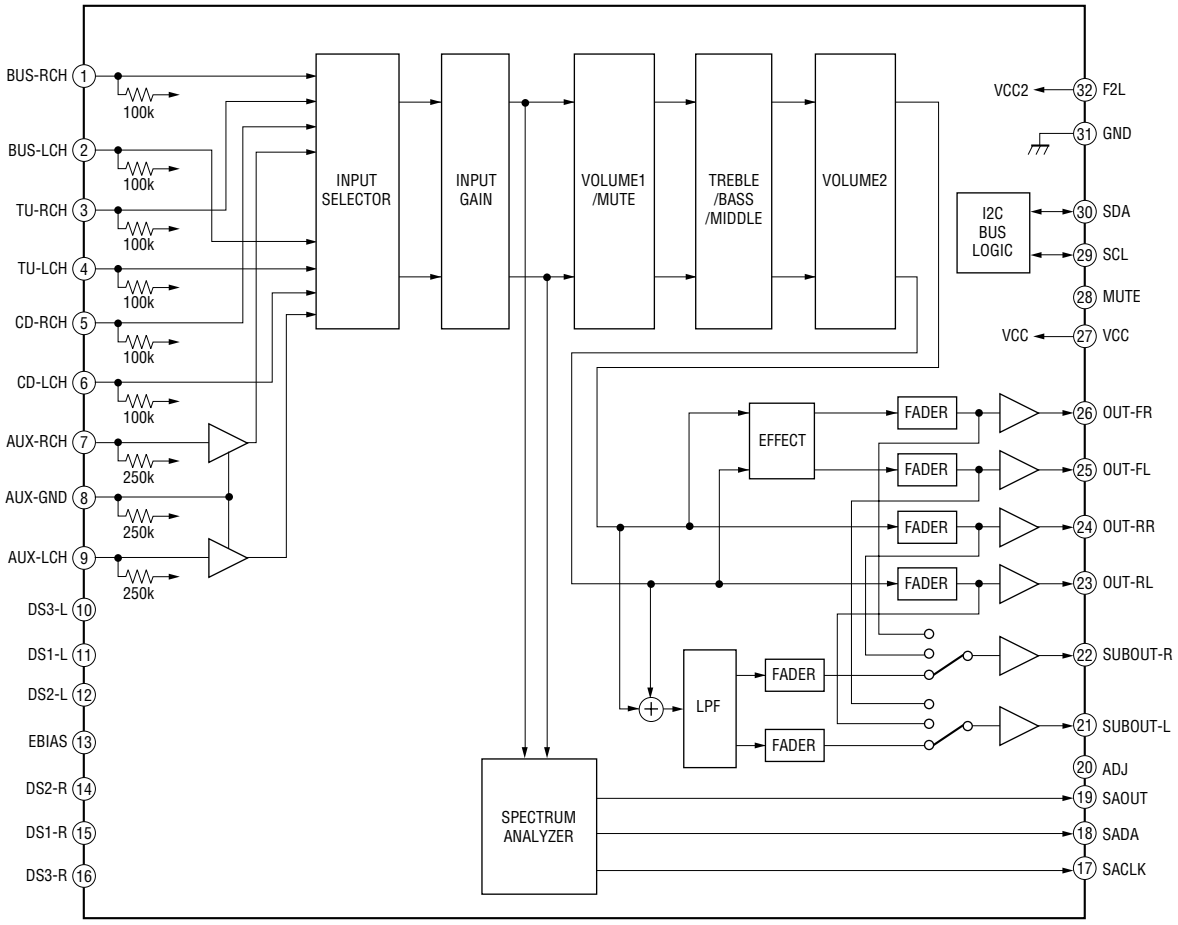
IC601 BA8271F-E2 (MAIN Board (1/3))



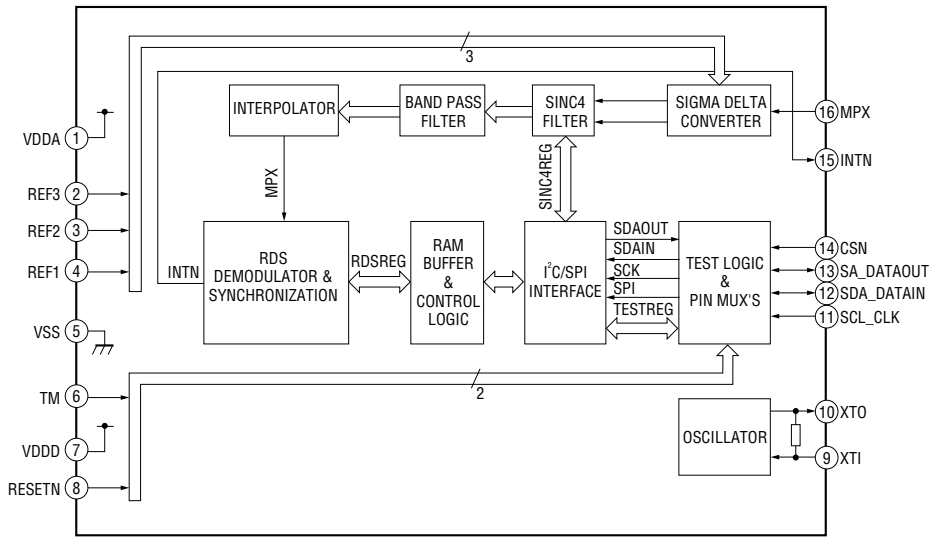
IC200 NJM2387ADL3 (MAIN Board (2/3))
IC201 NJM2387ADL3 (MAIN Board (2/3))
IC202 NJM2387ADL3 (MAIN Board (2/3))
IC203 NJM2387ADL3 (MAIN Board (2/3))



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



IC50 TDA7333013TR (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	$\overline{\text{VOLATT}}$	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	$\overline{\text{AD ON}}$	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	OSCOUT	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

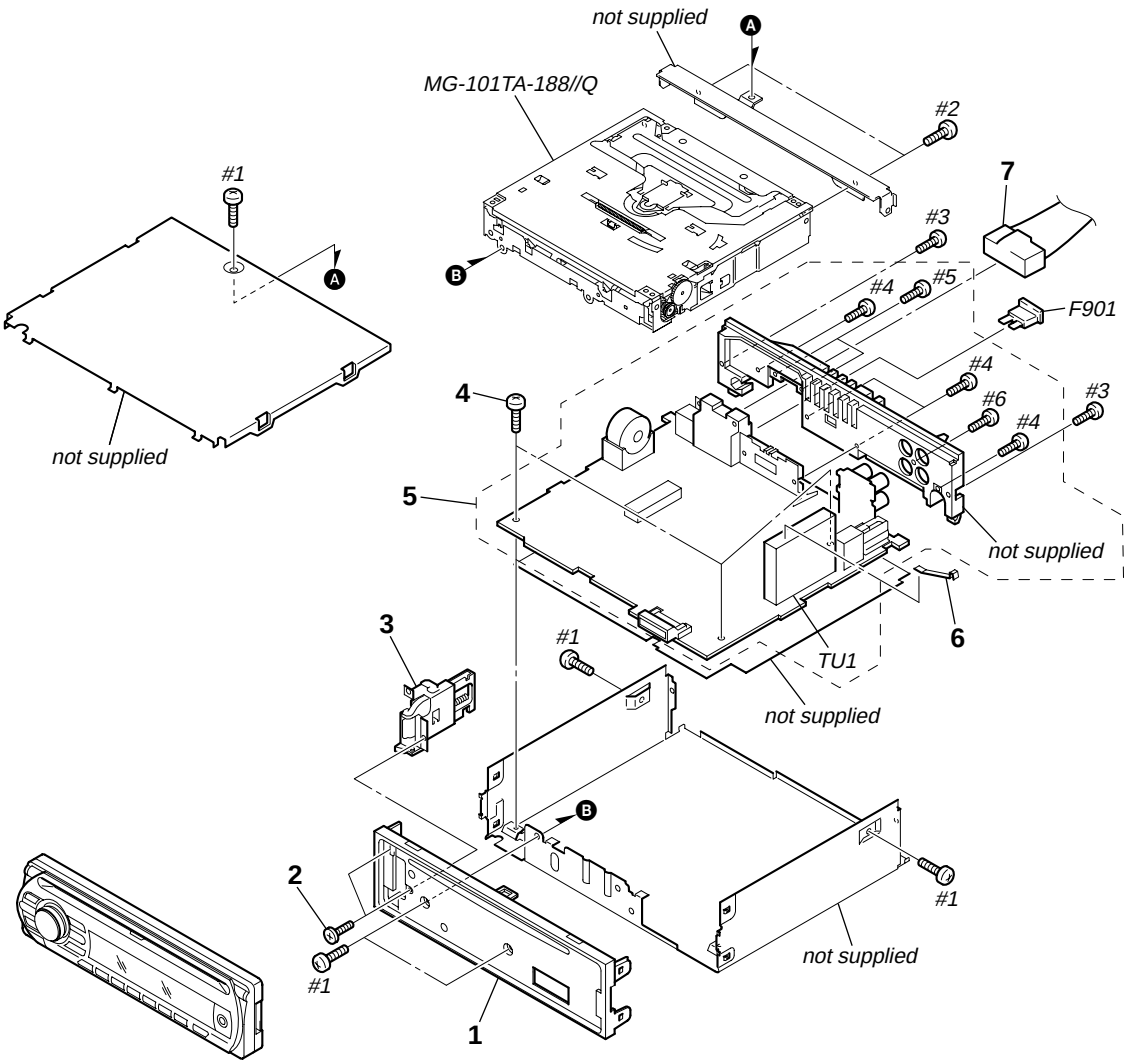
SECTION 5
EXPLODED VIEWS

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.

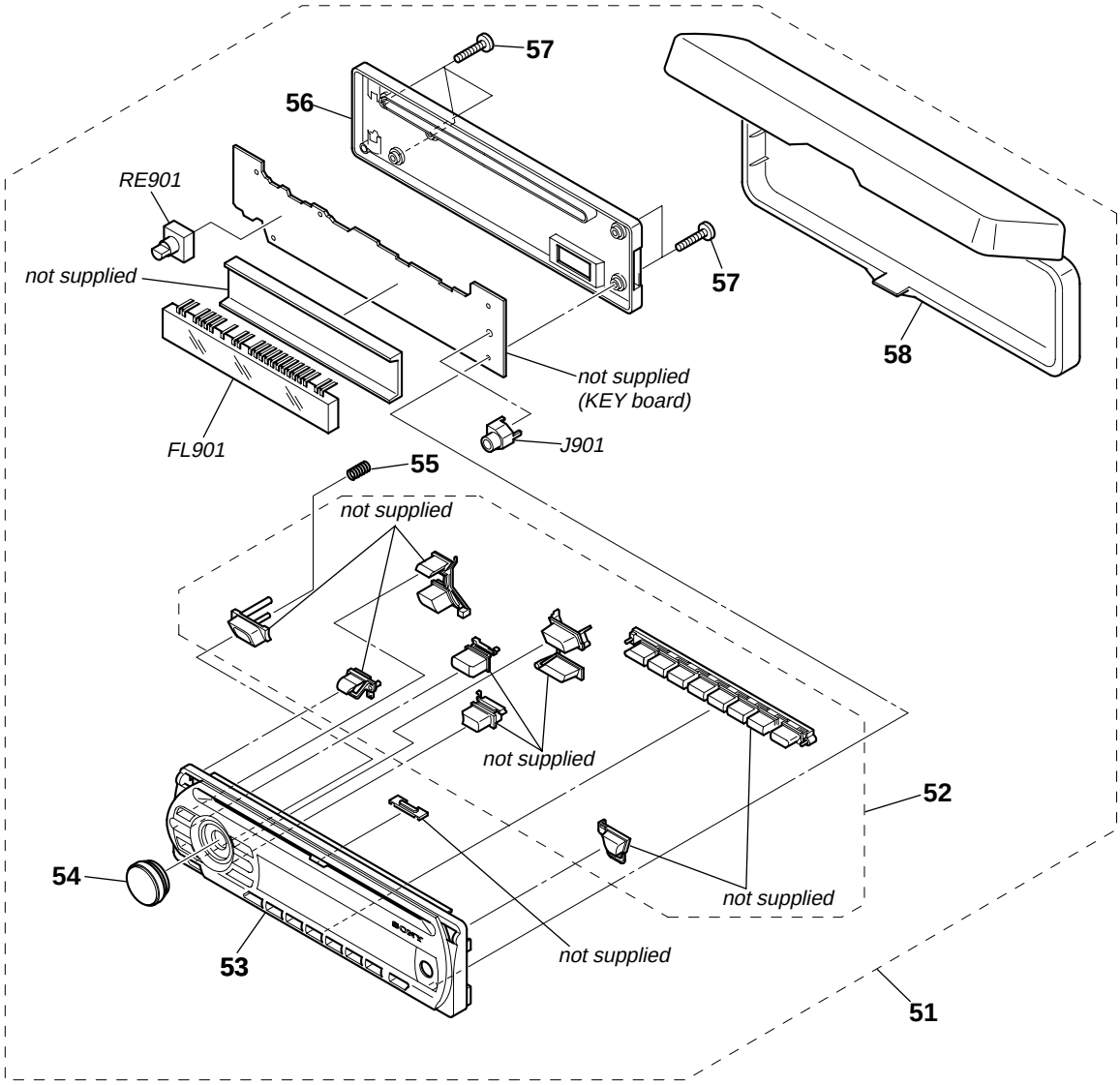
5-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	X-2148-784-1	PANEL (FL) ASSY, SUB	
2	3-042-244-11	SCREW (T)	
3	X-2108-670-1	LOCK ASSY (S)	
4	2-050-124-01	SCREW +BTT 2.6X5	
5	A-1206-400-A	MAIN BOARD, COMPLETE (GT317EE)	
5	A-1206-410-A	MAIN BOARD, COMPLETE (GT360)	
6	2-021-848-01	SHEET (TU), GROUND	
7	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER) (GT317EE)	
7	1-833-100-11	CORD (WITH CONNECTOR) (POWER) (GT360)	

Ref. No.	Part No.	Description	Remark
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TU1	A-3220-960-B	TUNER UNIT (TUX-032) (GT360)	
TU1	A-3220-961-B	TUNER UNIT (TUX-032) (GT317EE)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#4	7-685-794-09	SCREW +PTT 2.6X10 (S)	
#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
#6	7-621-284-40	SCREW +P 2.6X10	

5-2. FRONT PANEL SECTION

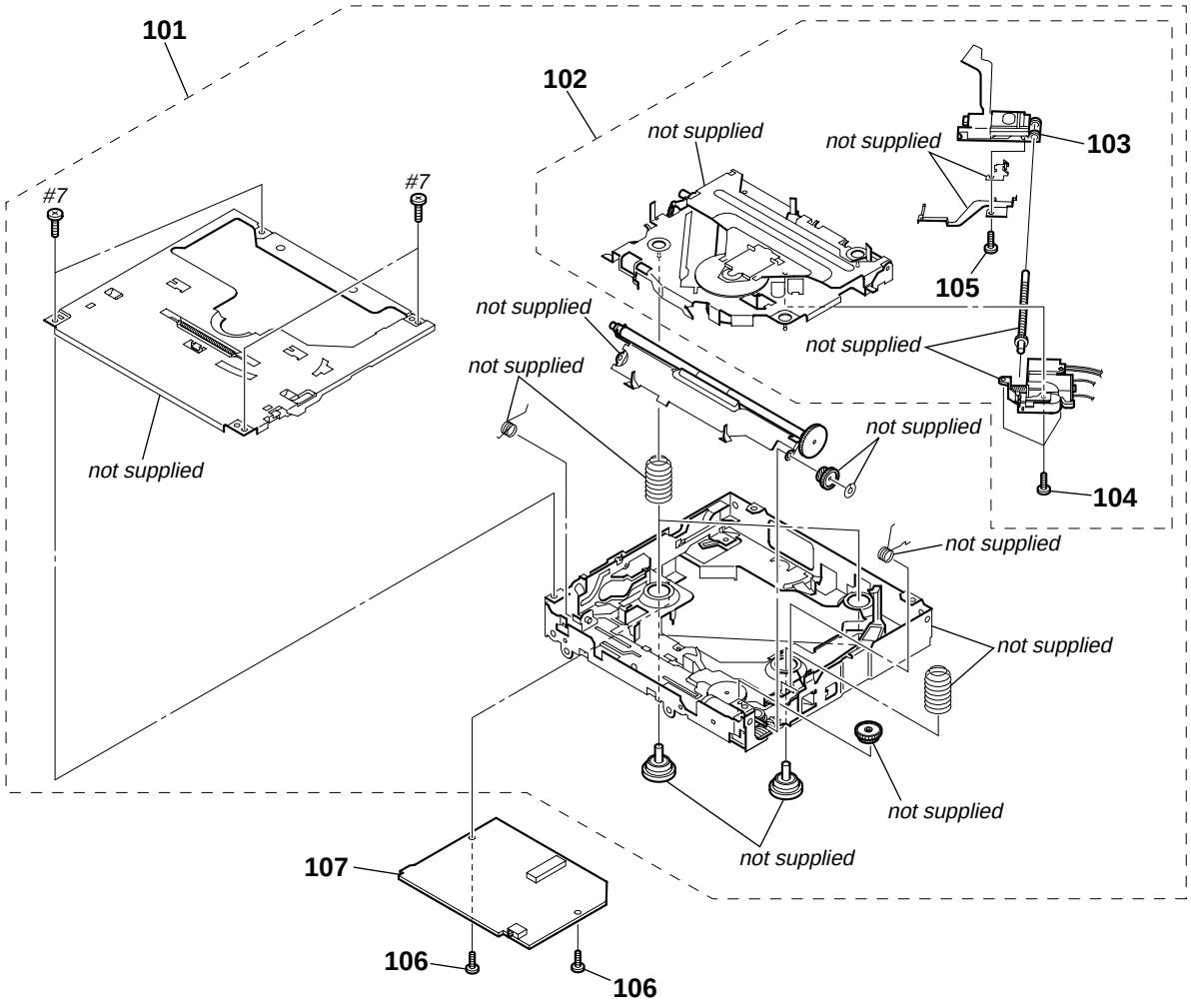


Ref. No.	Part No.	Description	Remark
51	A-1206-402-A	PANEL COMPLETE ASSY, FRONT (GT317EE)	
51	A-1206-412-A	PANEL COMPLETE ASSY, FRONT (GT360)	
52	X-2149-356-1	BUTTON ASSY (S) (GT317EE)	
52	X-2149-357-1	BUTTON ASSY (S) (GT360)	
53	X-2149-360-1	PANEL (SV) ASSY, FRONT (GT317EE)	
53	X-2149-361-1	PANEL (SV) ASSY, FRONT (GT360)	
54	X-2149-353-1	KNOB (VOL) (SV) ASSY	

Ref. No.	Part No.	Description	Remark
55	2-693-599-01	SPRING (RELEASE)	
56	2-684-632-01	PANEL (FL), BACK	
57	3-250-543-21	SCREW (+B P-TITE M2)	
58	X-2149-228-2	CASE ASSY (for FRONT PANEL)	
FL901	1-519-909-12	INDICATOR TUBE, FLUORESCENT	
J901	1-820-624-11	JACK (SMALL TYPE) (VERTICAL) (AUX)	
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
101	A-1177-168-A	MECHANICAL BLOCK ASSY	
102	A-1177-169-A	DAXEV//Q	
⚠103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)	
104	2-626-869-01	SCREW (M2X3), SERRATION	
105	3-348-998-31	SCREW (M1.4X2.5), TAPPING, PAN	
106	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
107	A-1177-201-A	SERVO BOARD, COMPLETE	
#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.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

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

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

Ref. No.	Part No.	Description			Remark
		KEY BOARD			
		**********			
		< CAPACITOR >			
C904	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C974	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C975	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C976	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C977	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C981	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C982	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C991	1-216-295-11	SHORT CHIP	0		
C992	1-216-295-11	SHORT CHIP	0		
		< CONNECTOR >			
CN901	1-820-619-11	PLUG, CONNECTOR 20P			
		< DIODE >			
D882	8-719-057-80	DIODE MA8180-M-TX			
D903	8-719-057-80	DIODE MA8180-M-TX			
D904	8-719-057-80	DIODE MA8180-M-TX			
D905	8-719-977-12	DIODE DTZ6.8B			
D906	8-719-977-12	DIODE DTZ6.8B			
D907	8-719-977-12	DIODE DTZ6.8B			
D908	8-719-977-12	DIODE DTZ6.8B			
D971	8-719-420-90	DIODE MA8051-M			
		< FERRITE BEAD >			
FB901	1-216-864-11	SHORT CHIP	0		
FB902	1-216-864-11	SHORT CHIP	0		
FB903	1-216-295-11	SHORT CHIP	0		
FB904	1-469-876-11	INDUCTOR, FERRITE BEAD			
		< FLUORESCENT INDICATOR TUBE >			
FL901	1-519-909-12	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC971	6-600-163-01	IC RS-770 (IR)			
IC972	6-706-715-01	IC NJM2867F33(TE2)			
		< DIODE >			
LED841	8-719-078-21	LED SML-310PTT86 (⏏) (GT317EE)			
LED842	8-719-078-21	LED SML-310PTT86 (CD INDICATOR)			(GT317EE)

Ref. No.	Part No.	Description	Remark
LED843	8-719-078-21	LED SML-310PTT86 (OFF) (GT317EE)	
LED844	8-719-078-21	LED SML-310PTT86 (EQ3) (GT317EE)	
LED845	8-719-078-21	LED SML-310PTT86 (PTY) (GT317EE)	
LED846	8-719-078-21	LED SML-310PTT86 (SOURCE) (GT317EE)	
LED847	8-719-078-21	LED SML-310PTT86 (MODE) (GT317EE)	
LED850	8-719-078-21	LED SML-310PTT86 (DSPL/DIM) (GT317EE)	
LED851	8-719-078-21	LED SML-310PTT86 (1/ALBM –) (GT317EE)	
LED852	8-719-078-21	LED SML-310PTT86 (2/ALBM +) (GT317EE)	
LED853	8-719-078-21	LED SML-310PTT86 (3/REP) (GT317EE)	
LED854	8-719-078-21	LED SML-310PTT86 (4/SHUF) (GT317EE)	
LED855	8-719-078-21	LED SML-310PTT86 (5) (GT317EE)	
LED856	8-719-078-21	LED SML-310PTT86 (6/PAUSE) (GT317EE)	
LED857	8-719-078-21	LED SML-310PTT86 (AF/TA) (GT317EE)	
LED861	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)	(GT317EE)
LED862	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)	(GT317EE)
LED863	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)	(GT317EE)
LED864	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)	(GT317EE)
LED941	8-719-053-09	LED SML-310VTT86 (⏏) (GT360)	
LED942	8-719-053-09	LED SML-310VTT86 (CD INDICATOR)	(GT360)
LED943	8-719-053-09	LED SML-310VTT86 (OFF) (GT360)	
LED944	8-719-053-09	LED SML-310VTT86 (EQ3) (GT360)	
LED945	8-719-053-09	LED SML-310VTT86 (PTY) (GT360)	
LED946	8-719-053-09	LED SML-310VTT86 (SOURCE) (GT360)	
LED947	8-719-053-09	LED SML-310VTT86 (MODE) (GT360)	
LED950	8-719-053-09	LED SML-310VTT86 (DSPL/DIM) (GT360)	
LED951	8-719-053-09	LED SML-310VTT86 (1/ALBM –) (GT360)	
LED952	8-719-053-09	LED SML-310VTT86 (2/ALBM +) (GT360)	
LED953	8-719-053-09	LED SML-310VTT86 (3/REP) (GT360)	
LED954	8-719-053-09	LED SML-310VTT86 (4/SHUF) (GT360)	
LED955	8-719-053-09	LED SML-310VTT86 (5) (GT360)	
LED956	8-719-053-09	LED SML-310VTT86 (6/PAUSE) (GT360)	
LED957	8-719-053-09	LED SML-310VTT86 (AF/TA) (GT360)	
LED961	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION)	(GT360)
LED962	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION)	(GT360)
LED963	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION)	(GT360)

KEY

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
LSW901	1-786-805-12	SWITCH, TACTILE (WITH LED) (▶▶ ▶▶I SEEK +)			(GT360)
LSW901	1-786-806-12	SWITCH, TACTILE (WITH LED) (▶▶ ▶▶I SEEK +)			(GT317EE)
LSW902	1-786-805-12	SWITCH, TACTILE (WITH LED) (I◀◀ ◀◀ SEEK –)			(GT360)
LSW902	1-786-806-12	SWITCH, TACTILE (WITH LED) (I◀◀ ◀◀ 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
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
		< ROTARY ENCODER >				
RE901	1-479-481-13	ENCODER, ROTARY (PUSH SELECT/VOLUME)				
		< SWITCH >				
S901	1-786-653-21	SWITCH, TACTILE (⏏)				
S902	1-786-653-21	SWITCH, TACTILE (OFF)				
S903	1-786-653-21	SWITCH, TACTILE (SOURCE)				
S904	1-786-653-21	SWITCH, TACTILE (EQ3)				
S906	1-786-653-21	SWITCH, TACTILE (PTY)				
S907	1-786-653-21	SWITCH, TACTILE (MODE)				
S908	1-786-653-21	SWITCH, TACTILE (DSPL/DIM)				
S909	1-786-653-21	SWITCH, TACTILE (1/ALBM –)				
S910	1-786-653-21	SWITCH, TACTILE (2/ALBM +)				
S911	1-786-653-21	SWITCH, TACTILE (3/REP)				
S912	1-786-653-21	SWITCH, TACTILE (4/SHUF)				
S913	1-786-653-21	SWITCH, TACTILE (5)				
S914	1-786-653-21	SWITCH, TACTILE (6/PAUSE)				
S915	1-786-653-21	SWITCH, TACTILE (AF/TA)				
**********						
	A-1206-400-A	MAIN BOARD, COMPLETE (GT317EE)				
	A-1206-410-A	MAIN BOARD, COMPLETE (GT360)				
		**********				
	7-621-284-40	SCREW +P 2.6X10				
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT				
	7-685-794-09	SCREW +PTT 2.6X10 (S)				
		< CAPACITOR >				
C1	1-126-963-11	ELECT	4.7uF	20%	50V	(GT317EE)
C2	1-126-947-11	ELECT	47uF	20%	35V	
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C5	1-126-947-11	ELECT	47uF	20%	35V	
C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C7	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C8	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C15	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	(GT360)
C50	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	(GT317EE)
C51	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	(GT317EE)
C52	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	(GT317EE)
C53	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	(GT317EE)
C54	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	(GT317EE)
C55	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	(GT317EE)
C56	1-164-237-11	CERAMIC CHIP	16PF	5%	50V	(GT317EE)
C57	1-164-237-11	CERAMIC CHIP	16PF	5%	50V	(GT317EE)
C58	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	(GT317EE)
C60	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	(GT317EE)
C61	1-126-947-11	ELECT	47uF	20%	35V	(GT317EE)
C151	1-126-960-11	ELECT	1uF	20%	50V	
C152	1-126-960-11	ELECT	1uF	20%	50V	
C153	1-126-961-11	ELECT	2.2uF	20%	50V	
C154	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V	
C155	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V	
C200	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C201	1-124-234-00	ELECT	22uF	20%	16V	
C202	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C203	1-126-965-11	ELECT	22uF	20%	50V	
C204	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C205	1-126-965-11	ELECT	22uF	20%	50V	
C206	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C207	1-126-965-11	ELECT	22uF	20%	50V	
C301	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	
C302	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C303	1-128-551-11	ELECT	22uF	20%	63V	
C304	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	
C305	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C306	1-124-261-00	ELECT	10uF	20%	50V	
C307	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C308	1-124-261-00	ELECT	10uF	20%	50V	
C309	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	
C312	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	
C313	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C314	1-124-261-00	ELECT	10uF	20%	50V	
C315	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C316	1-124-261-00	ELECT	10uF	20%	50V	
C317	1-124-257-00	ELECT	2.2uF	20%	50V	
C318	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C319	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	
C320	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C325	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	
C329	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C330	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	
C361	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	
C362	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	
C363	1-126-160-11	ELECT	1uF	20%	50V	
C364	1-126-160-11	ELECT	1uF	20%	50V	
C365	1-126-960-11	ELECT	1uF	20%	50V	
C366	1-126-960-11	ELECT	1uF	20%	50V	
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
C434	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C441	1-126-964-11	ELECT	10uF	20%	50V
C443	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C444	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C445	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C451	1-126-964-11	ELECT	10uF	20%	50V
C452	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C454	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C461	1-126-964-11	ELECT	10uF	20%	50V
C462	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C463	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C471	1-126-964-11	ELECT	10uF	20%	50V
C472	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C473	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C484	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C485	1-126-933-11	ELECT	100uF	20%	16V
C486	1-126-964-11	ELECT	10uF	20%	50V
C491	1-124-589-11	ELECT	47uF	20%	16V
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C502	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C507	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C508	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C509	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C510	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C513	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C514	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C600	1-126-935-11	ELECT	470uF	20%	16V
C601	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C622	1-126-924-11	ELECT	330uF	20%	10V
C623	1-126-916-11	ELECT	1000uF	20%	6.3V
C681	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C682	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C683	1-124-584-00	ELECT	100uF	20%	10V
C701	1-131-868-81	ELECT	3300uF	20%	16V
C702	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C703	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C704	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C705	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C997	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C998	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN300	1-774-701-21	PIN, CONNECTOR 16P			
CN350	1-820-611-11	CONNECTOR, BOARD TO BOARD 28P			
CN370	1-820-622-11	SOCKET, CONNECTOR 20P			
CNJ400	1-580-907-41	PLUG, CONNECTOR 8P (BUS CONTROL IN)			
		< DIODE >			
D2	8-719-977-03	DIODE	DTZ5.6B		
D101	8-719-977-12	DIODE	DTZ6.8B		
D103	8-719-977-12	DIODE	DTZ6.8B		
D104	8-719-977-12	DIODE	DTZ6.8B		
D105	8-719-977-12	DIODE	DTZ6.8B		
D106	8-719-057-80	DIODE	MA8180-M-TX		
D108	8-719-977-12	DIODE	DTZ6.8B		

Ref. No.	Part No.	Description	Remark
D109	8-719-977-12	DIODE DTZ6.8B	
D110	8-719-977-12	DIODE DTZ6.8B	
D111	8-719-977-12	DIODE DTZ6.8B	
D112	8-719-977-12	DIODE DTZ6.8B	
D113	8-719-977-12	DIODE DTZ6.8B	
D153	8-719-977-12	DIODE DTZ6.8B	
D200	6-500-522-01	DIODE 10EDB40-TA1B2	
D201	6-500-522-01	DIODE 10EDB40-TA1B2	
D202	6-500-522-01	DIODE 10EDB40-TA1B2	
D203	6-500-522-01	DIODE 10EDB40-TA1B2	
D204	6-500-522-01	DIODE 10EDB40-TA1B2	
D205	6-500-522-01	DIODE 10EDB40-TA1B2	
D206	6-500-522-01	DIODE 10EDB40-TA1B2	
D207	6-500-522-01	DIODE 10EDB40-TA1B2	
D301	6-500-522-01	DIODE 10EDB40-TA1B2	
D302	6-500-522-01	DIODE 10EDB40-TA1B2	
D303	6-500-522-01	DIODE 10EDB40-TA1B2	
D304	6-500-522-01	DIODE 10EDB40-TA1B2	
D305	6-500-522-01	DIODE 10EDB40-TA1B2	
D306	6-500-522-01	DIODE 10EDB40-TA1B2	
D307	6-500-522-01	DIODE 10EDB40-TA1B2	
D308	6-500-522-01	DIODE 10EDB40-TA1B2	
D309	6-500-522-01	DIODE 10EDB40-TA1B2	
D310	6-500-522-01	DIODE 10EDB40-TA1B2	
D311	6-500-522-01	DIODE 10EDB40-TA1B2	
D312	6-500-522-01	DIODE 10EDB40-TA1B2	
D353	6-501-013-01	DIODE BAT54ALT1G	
D491	6-501-193-01	DIODE 1SS355WTE-17 (GT360)	
D491	8-719-988-61	DIODE 1SS355TE-17 (GT317EE)	
D493	6-501-051-01	DIODE BAT54CLT1G	
D502	8-719-060-48	DIODE RB751V-40TE-17	
D503	6-501-193-01	DIODE 1SS355WTE-17 (GT360)	
D503	8-719-988-61	DIODE 1SS355TE-17 (GT317EE)	
D602	8-719-057-80	DIODE MA8180-M-TX	
D603	8-719-422-64	DIODE MA8062-M	
D604	8-719-057-80	DIODE MA8180-M-TX	
D605	8-719-057-80	DIODE MA8180-M-TX	
D606	8-719-072-70	DIODE MA2ZD14001S0	
D607	6-501-571-01	DIODE 1N5404-C311-3	
D609	6-501-051-01	DIODE BAT54CLT1G	
D702	8-719-057-80	DIODE MA8180-M-TX	
D703	8-719-977-12	DIODE DTZ6.8B	
D704	8-719-057-80	DIODE MA8180-M-TX (GT317EE)	
D901	8-719-057-80	DIODE MA8180-M-TX	
D998	8-719-057-80	DIODE MA8180-M-TX	
D999	8-719-057-80	DIODE MA8180-M-TX	
		< IC >	
IC50	6-803-747-01	IC TDA7333013TR (GT317EE)	
IC200	6-709-213-01	IC NJM2387ADL3(TE2)	
IC201	6-709-213-01	IC NJM2387ADL3(TE2)	
IC202	6-709-213-01	IC NJM2387ADL3(TE2)	
IC203	6-709-213-01	IC NJM2387ADL3(TE2)	
IC300	6-705-359-02	IC TDA8588AJ/N2/R1	
IC401	6-710-065-01	IC BD3442FS-E2	
IC501	6-710-298-01	IC MB90F045PF-G-9015-SPE1 (GT360)	
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
IC602	8-759-659-13	IC PST3428UL	
IC681	6-705-373-01	IC MM3123DPLE	
		< JACK >	
J1	1-815-185-13	JACK (ANTENNA)	
J652	1-774-699-12	JACK, PIN 4P (BUS AUDIO IN, AUDIO OUT REAR)	
		< JUMPER RESISTOR >	
JC1	1-216-296-11	SHORT CHIP 0	
JC2	1-216-864-11	SHORT CHIP 0	
JC3	1-216-296-11	SHORT CHIP 0	
JC4	1-216-296-11	SHORT CHIP 0	
JC5	1-216-296-11	SHORT CHIP 0	
JC6	1-216-296-11	SHORT CHIP 0	
JC7	1-216-296-11	SHORT CHIP 0	
JC8	1-216-296-11	SHORT CHIP 0	
JC9	1-216-864-11	SHORT CHIP 0	
JC10	1-216-296-11	SHORT CHIP 0	
JC11	1-216-864-11	SHORT CHIP 0	
JC12	1-216-296-11	SHORT CHIP 0	
JC13	1-216-864-11	SHORT CHIP 0	
JC14	1-216-296-11	SHORT CHIP 0	
JC15	1-216-296-11	SHORT CHIP 0	
JC16	1-216-296-11	SHORT CHIP 0	
JC17	1-216-864-11	SHORT CHIP 0	
JC18	1-216-864-11	SHORT CHIP 0	
JC19	1-216-296-11	SHORT CHIP 0	
JC20	1-216-296-11	SHORT CHIP 0	
JC21	1-216-296-11	SHORT CHIP 0	
JC22	1-216-296-11	SHORT CHIP 0	
JC23	1-216-296-11	SHORT CHIP 0	
JC24	1-216-864-11	SHORT CHIP 0	
JC25	1-216-296-11	SHORT CHIP 0	
JC26	1-216-296-11	SHORT CHIP 0	
JC27	1-216-296-11	SHORT CHIP 0	
JC28	1-216-864-11	SHORT CHIP 0	
JC29	1-216-296-11	SHORT CHIP 0	
JC30	1-216-296-11	SHORT CHIP 0	
JC31	1-216-296-11	SHORT CHIP 0	
JC32	1-216-296-11	SHORT CHIP 0	
JC33	1-216-296-11	SHORT CHIP 0	
JC34	1-216-864-11	SHORT CHIP 0	
JC35	1-216-864-11	SHORT CHIP 0	
JC36	1-216-864-11	SHORT CHIP 0	
JC37	1-216-296-11	SHORT CHIP 0	
JC38	1-216-296-11	SHORT CHIP 0 (GT317EE)	
JC40	1-216-864-11	SHORT CHIP 0	
JC41	1-216-296-11	SHORT CHIP 0	
JC42	1-216-296-11	SHORT CHIP 0	
		< COIL >	
L1	1-216-295-11	SHORT CHIP 0	
L2	1-414-595-11	INDUCTOR, FERRITE BEAD (GT317EE)	
L3	1-414-595-11	INDUCTOR, FERRITE BEAD (GT317EE)	
L4	1-469-844-11	INDUCTOR 2.2uH	
L5	1-216-864-11	SHORT CHIP 0 (GT360)	

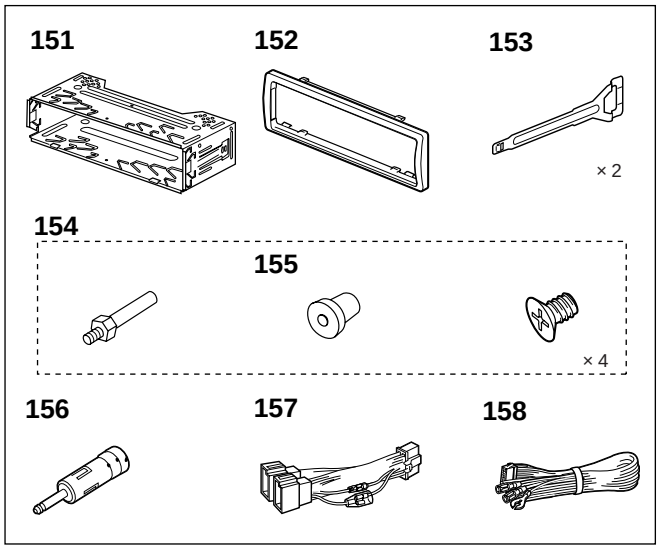
Ref. No.	Part No.	Description	Remark
L5	1-414-595-11	INDUCTOR, FERRITE BEAD (GT317EE)	
L50	1-469-844-11	INDUCTOR 2.2uH (GT317EE)	
L151	1-216-295-11	SHORT CHIP 0	
L300	1-456-617-11	COIL, CHOKE	
L401	1-216-864-11	SHORT CHIP 0	
L402	1-216-295-11	SHORT CHIP 0	
L403	1-216-295-11	SHORT CHIP 0	
L405	1-216-864-11	SHORT CHIP 0	
L406	1-500-245-11	INDUCTOR, FERRITE BEAD	
L407	1-216-864-11	SHORT CHIP 0	
L409	1-469-844-11	INDUCTOR 2.2uH	
L410	1-469-876-11	INDUCTOR, FERRITE BEAD	
L501	1-469-844-11	INDUCTOR 2.2uH	
L901	1-216-295-11	SHORT CHIP 0	
L902	1-469-844-11	INDUCTOR 2.2uH	
		< TRANSISTOR >	
Q1	8-729-027-43	TRANSISTOR DTC114EKA-T146 (GT317EE)	
Q3	6-551-431-01	TRANSISTOR 2SC6027T100-QR	
Q50	8-729-600-22	TRANSISTOR 2SA1235-F (GT317EE)	
Q420	8-729-027-44	TRANSISTOR DTC114TKA-T146	
Q432	6-550-752-01	TRANSISTOR DTC614TKT146	
Q440	8-729-027-44	TRANSISTOR DTC114TKA-T146	
Q452	6-550-752-01	TRANSISTOR DTC614TKT146	
Q460	8-729-027-44	TRANSISTOR DTC114TKA-T146	
Q470	8-729-027-44	TRANSISTOR DTC114TKA-T146	
Q491	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q492	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q600	8-729-047-76	TRANSISTOR FMC2A-T148	
Q601	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q605	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q664	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (GT317EE)	
Q702	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< RESISTOR >	
R1	1-216-809-11	METAL CHIP 100 5% 1/10W (GT317EE)	
R2	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R3	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R4	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R5	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R6	1-414-595-11	INDUCTOR, FERRITE BEAD	
R7	1-414-595-11	INDUCTOR, FERRITE BEAD	
R8	1-216-839-11	METAL CHIP 33K 5% 1/10W (GT317EE)	
R9	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R10	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R12	1-216-811-11	METAL CHIP 150 5% 1/10W	
R13	1-216-811-11	METAL CHIP 150 5% 1/10W	
R15	1-216-864-11	SHORT CHIP 0 (GT317EE)	
R52	1-216-845-11	METAL CHIP 100K 5% 1/10W (GT317EE)	
R53	1-216-797-11	METAL CHIP 10 5% 1/10W (GT317EE)	
R54	1-414-595-11	INDUCTOR, FERRITE BEAD (GT317EE)	
R55	1-216-797-11	METAL CHIP 10 5% 1/10W (GT317EE)	

MAIN

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

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 (GT317EE)
R702	1-216-841-11	METAL CHIP	47K	5%	1/10W (GT317EE)
R703	1-216-833-11	METAL CHIP	10K	5%	1/10W (GT317EE)
R704	1-216-833-11	METAL CHIP	10K	5%	1/10W (GT317EE)
R705	1-249-425-11	CARBON	4.7K	5%	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 **********			
71	-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER) (GT317EE)			
71	-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

Saudi Arabia Model
CDX-GT360
East European Model
CDX-GT317EE

Ver. 1.1 2007.03

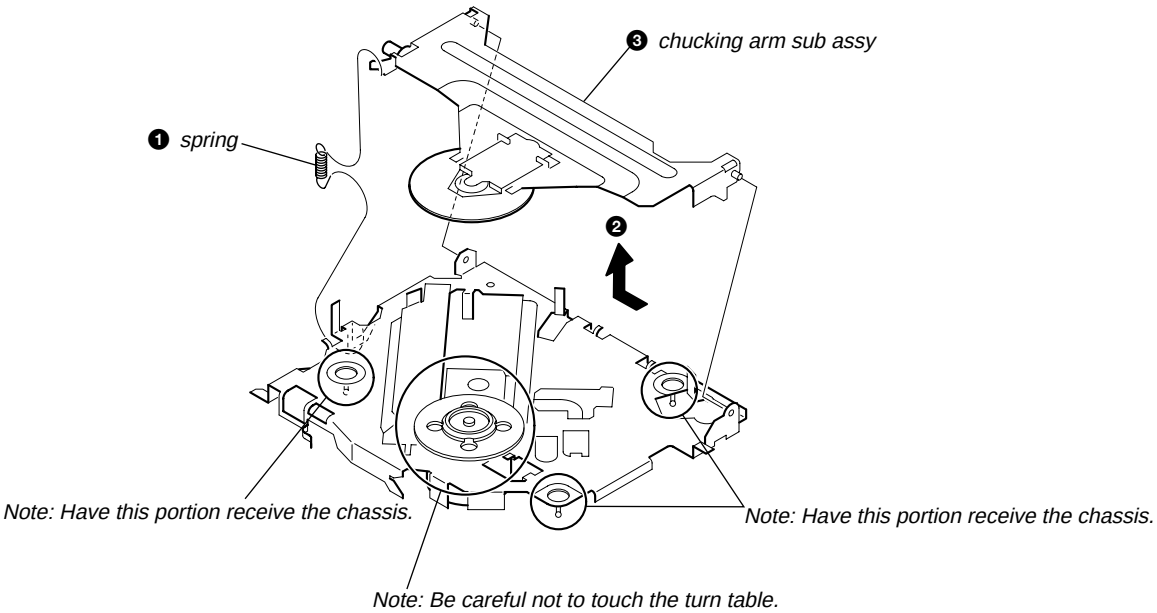
SUPPLEMENT-1

File this supplement with the service manual.

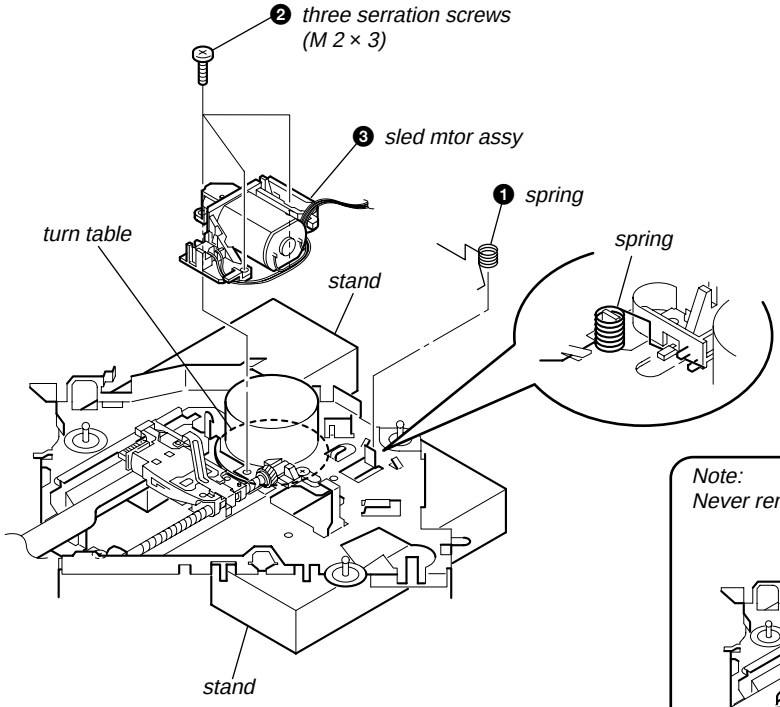
Subject: Notes for removal of the OPTICAL PICK-UP added.

DISASSEMBLY

1. CHUCKING ARM SUB ASSY

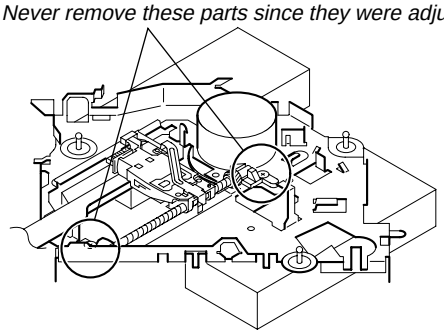


2. SLED MOTOR ASSY

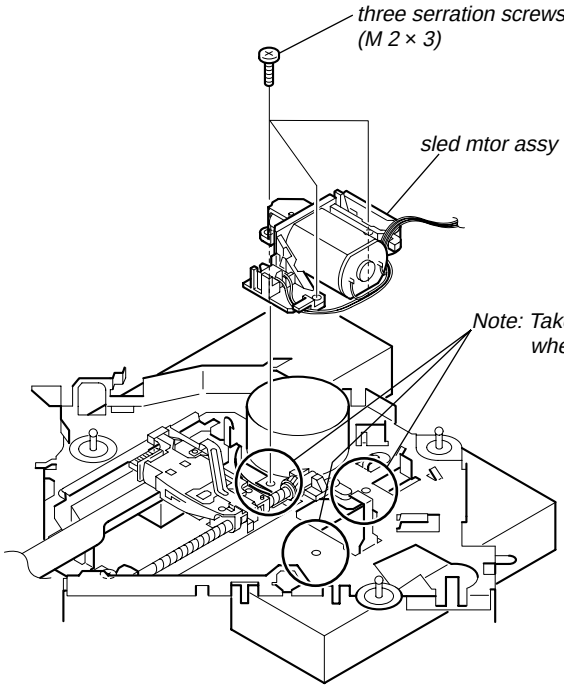


Note: Place the stand with care not to touch the turn table.

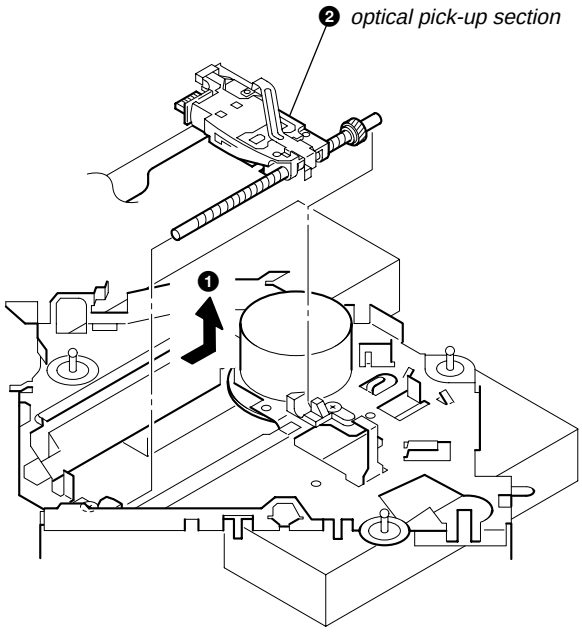
Note:
Never remove these parts since they were adjusted.

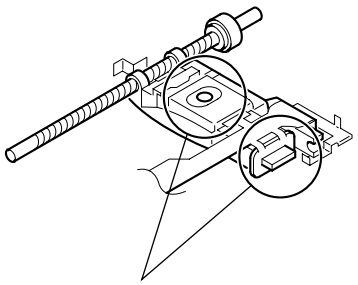


Note for Assembly



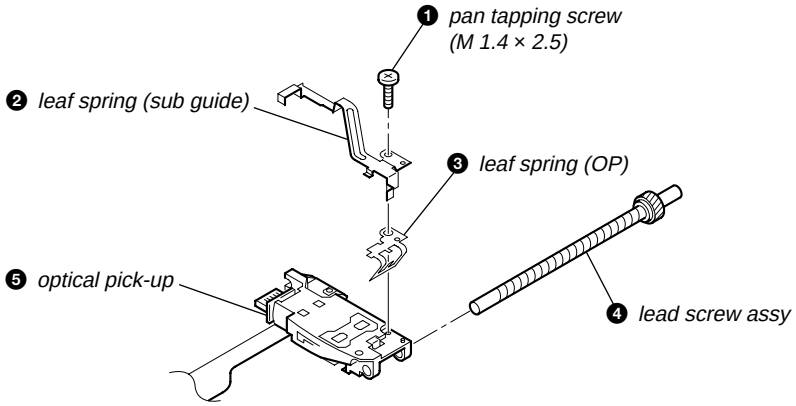
3. OPTICAL PICK-UP SECTION



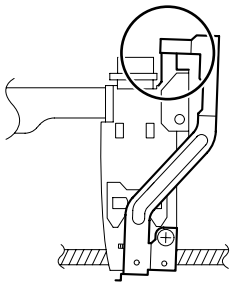


Note: Be careful not to touch the lens and hologram terminal when removing the optical pick-up section.

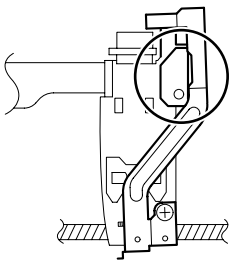
4. OPTICAL PICK-UP



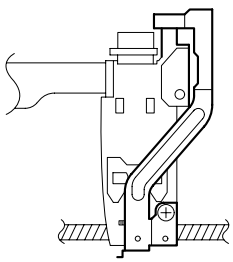
Notes for Assembly



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.

Ver.	Date	Description of Revision
1.0	2006.10	New
1.1	2007.03	Notes for removal of the OPTICAL PICK-UP added. (SUPPLEMENT-1) (ENG-07003)