

CDX-GT49UM/GT490U/ GT490US/GT494U

SERVICE MANUAL

Ver. 1.1 2009.11

E Model
CDX-GT490U/GT490US
Indian Model
CDX-GT49UM/GT494U



Photo: CDX-GT490US

- The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-GT33U
CD Drive Mechanism Type	MG-101Y-188//Q
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

Tuner section

FM

Tuning range:

Except Saudi Arabia model:
87.5 – 108.0 MHz (at 50 kHz step)
87.5 – 107.9 MHz (at 200 kHz step)
Saudi Arabia model:
87.5 – 108.0 MHz

FM tuning interval:

Except Saudi Arabia model:
50 kHz/200 kHz switchable

Antenna (aerial) terminal:

External antenna (aerial) connector

Intermediate frequency: 150 kHz

Usable sensitivity: 10 dBf

Selectivity: 75 dB at 400 kHz

Signal-to-noise ratio: 70 dB (mono)

Separation: 40 dB at 1 kHz

Frequency response: 20 – 15,000 Hz

AM

Tuning range:

Except Saudi Arabia model:
531 – 1,602 kHz (at 9 kHz step)
530 – 1,710 kHz (at 10 kHz step)
Saudi Arabia model:
531 – 1,602 kHz

AM tuning interval:

Except Saudi Arabia model:
9 kHz/10 kHz switchable

Antenna (aerial) terminal:

External antenna (aerial) connector

Intermediate frequency: 25 kHz

Sensitivity: 26 μ V

CD player section

Signal-to-noise ratio: 120 dB

Frequency response: 10 – 20,000 Hz

Wow and flutter: Below measurable limit

USB Player section

Interface: USB (Full-speed)

Maximum current: 500 mA

Power amplifier section

Outputs: Speaker outputs (sure seal connectors)

Speaker impedance: 4 – 8 ohms

Maximum power output: 52 W \times 4 (at 4 ohms)

General

Outputs:

Audio outputs terminal
(front, sub/rear switchable)
Power antenna (aerial) relay control terminal
Power amplifier control terminal

Inputs:

Remote controller input terminal
Antenna (aerial) input terminal
AUX input jack (stereo mini jack)
USB signal input terminal

Tone controls:

Low: \pm 10 dB at 60 Hz (XPLOD)
Mid: \pm 10 dB at 1 kHz (XPLOD)
High: \pm 10 dB at 10 kHz (XPLOD)

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

Dimensions: Approx. 178 \times 50 \times 179 mm (7 $\frac{1}{8}$ \times 2 \times 7 $\frac{1}{8}$ in.) (w/h/d)

Mounting dimensions:

Approx. 182 \times 53 \times 162 mm
(7 $\frac{1}{4}$ \times 2 $\frac{1}{8}$ \times 6 $\frac{1}{2}$ 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.

FM/AM COMPACT DISC PLAYER

9-889-625-02
2009K04-1
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Audio&Video Business Group
Published by Sony Techno Create Corporation

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

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

NOTES ON CHIP COMPONENT REPLACEMENT

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

TEST DISCS

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

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

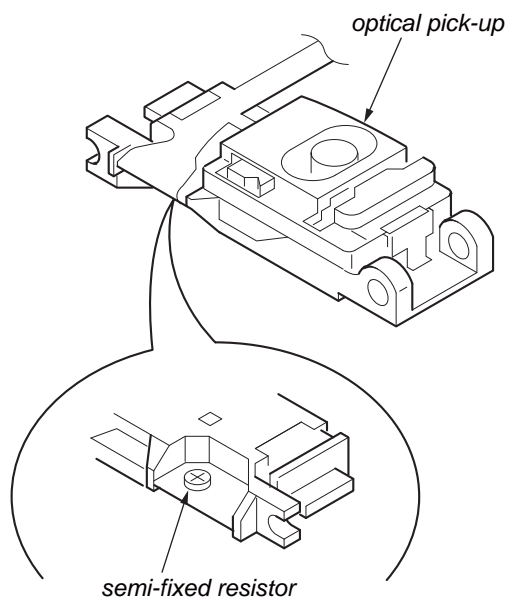
PATD-012 (Part No. 4-225-203-01)

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 label is located on the bottom of the chassis.

UNLEADED SOLDER

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

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

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350 °C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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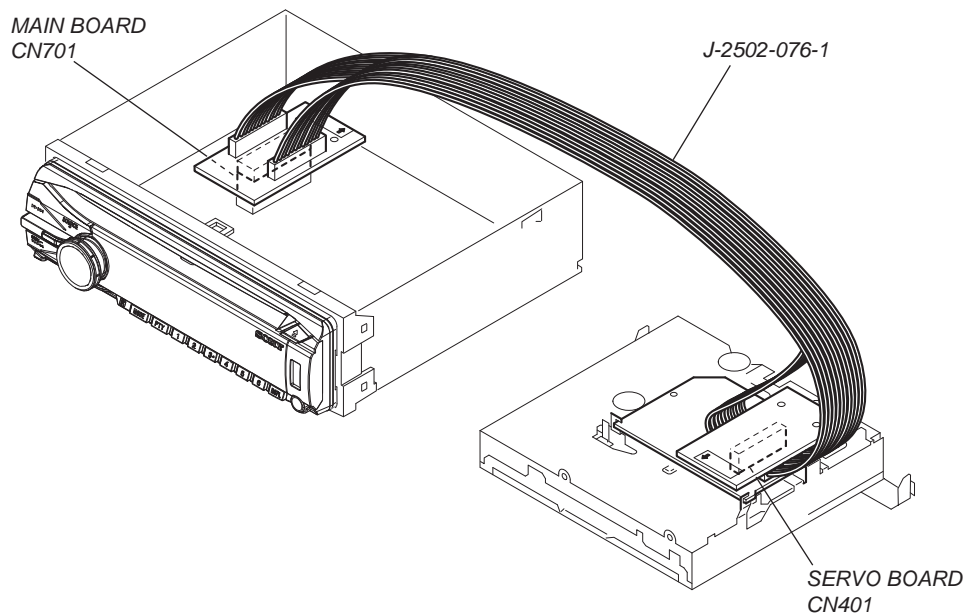
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SECTION 1 SERVICE NOTE

EXTENSION CABLE AND SERVICE POSITION

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

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



NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN902)

To replace the USB connector requires alignment.

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

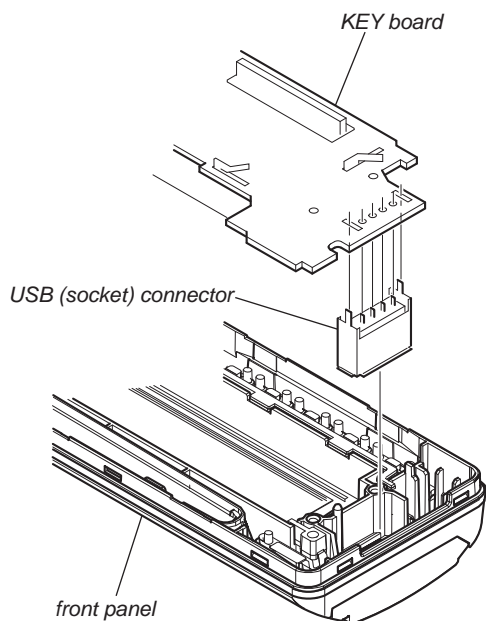
NOTE FOR REPLACEMENT OF THE SERVO BOARD

When repairing, the complete SERVO board (Part No. A-1555-002-A) should be replaced since any parts in the SERVO board cannot be repaired.

NOTE FOR THE 20-PIN CONNECTOR (CN901)

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

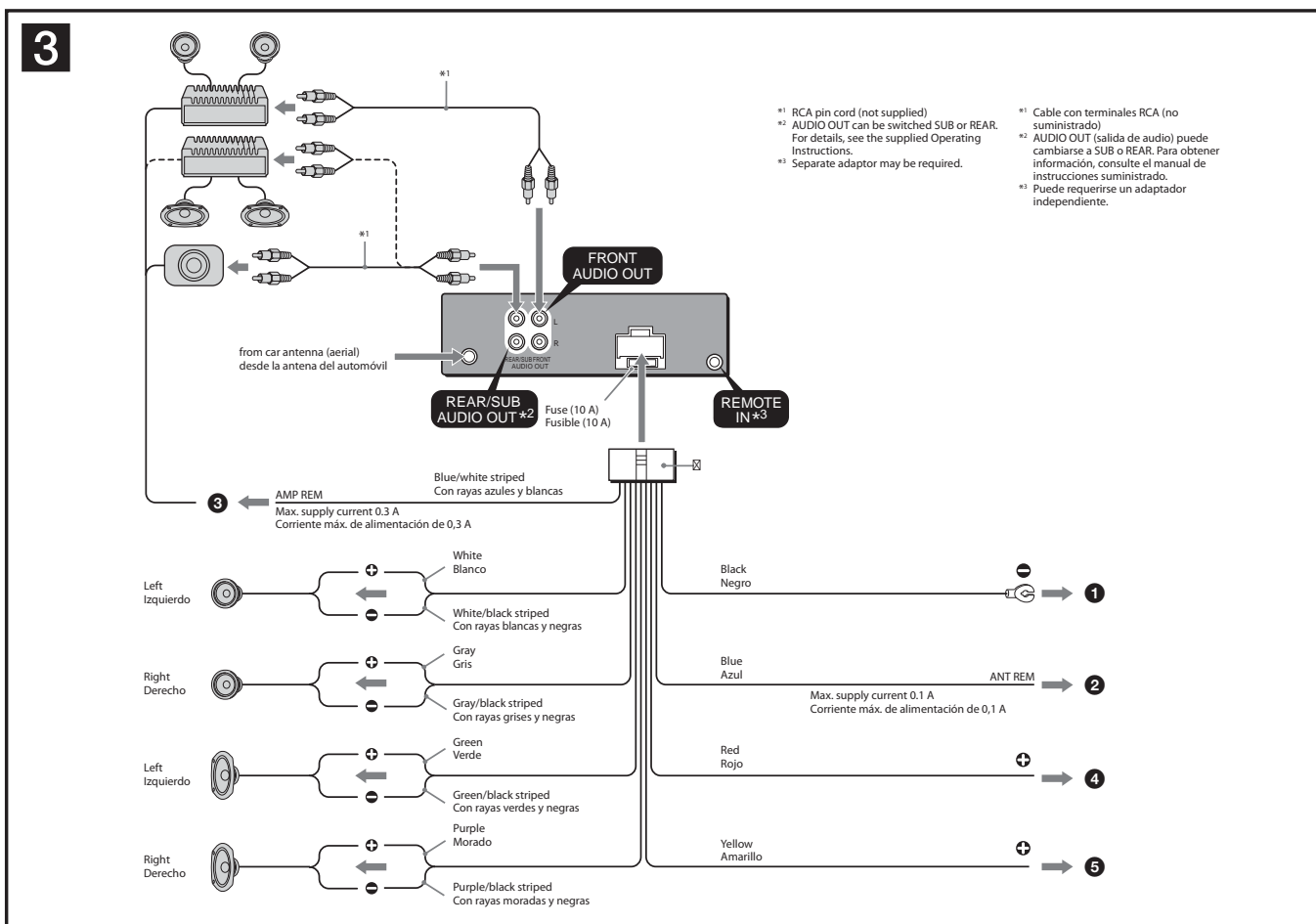
Do not touch the connector directly with your bare hand. Poor contact may be caused.



This section is extracted from instruction manual.

CONNECTIONS

- E, Indian, Mexican model



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

*1 Cable con terminales RCA (no suministrado)
*2 AUDIO OUT (salida de audio) puede cambiarse a SUB o REAR. Para obtener información, consulte el manual de instrucciones suministrado.
*3 Puede requerirse un adaptador independiente.

Connection diagram 3

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

Notes on the control and power supply leads

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

Memory hold connection

When the yellow power 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.

Diagrama de conexión 3

- A una superficie metálica del automóvil
Conecte primero el cable de conexión a masa negro, y después los cables amarillo y rojo de fuente de alimentación.
- Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de señal de la antena
Notas
• Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.
• Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación."
- A AMP REMOTE IN de un amplificador de potencia opcional
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.
- Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de encendido
Notas
• Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción.
• Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.
• Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación."
- Al terminal de alimentación de +12 V que recibe energía sin interrupción
Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.

Notas sobre los cables de control y de fuente de alimentación

- El cable de control de la antena motorizada (azul) suministrará cc de +12 V cuando conecte la alimentación del sintonizador.
- Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero o lateral, conecte el cable de control de antena motorizada (azul) o el cable de fuente de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener más información, consulte a su distribuidor.
- Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.

Conexión para protección de la memoria

Si conecta el cable de fuente de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague el interruptor de encendido.

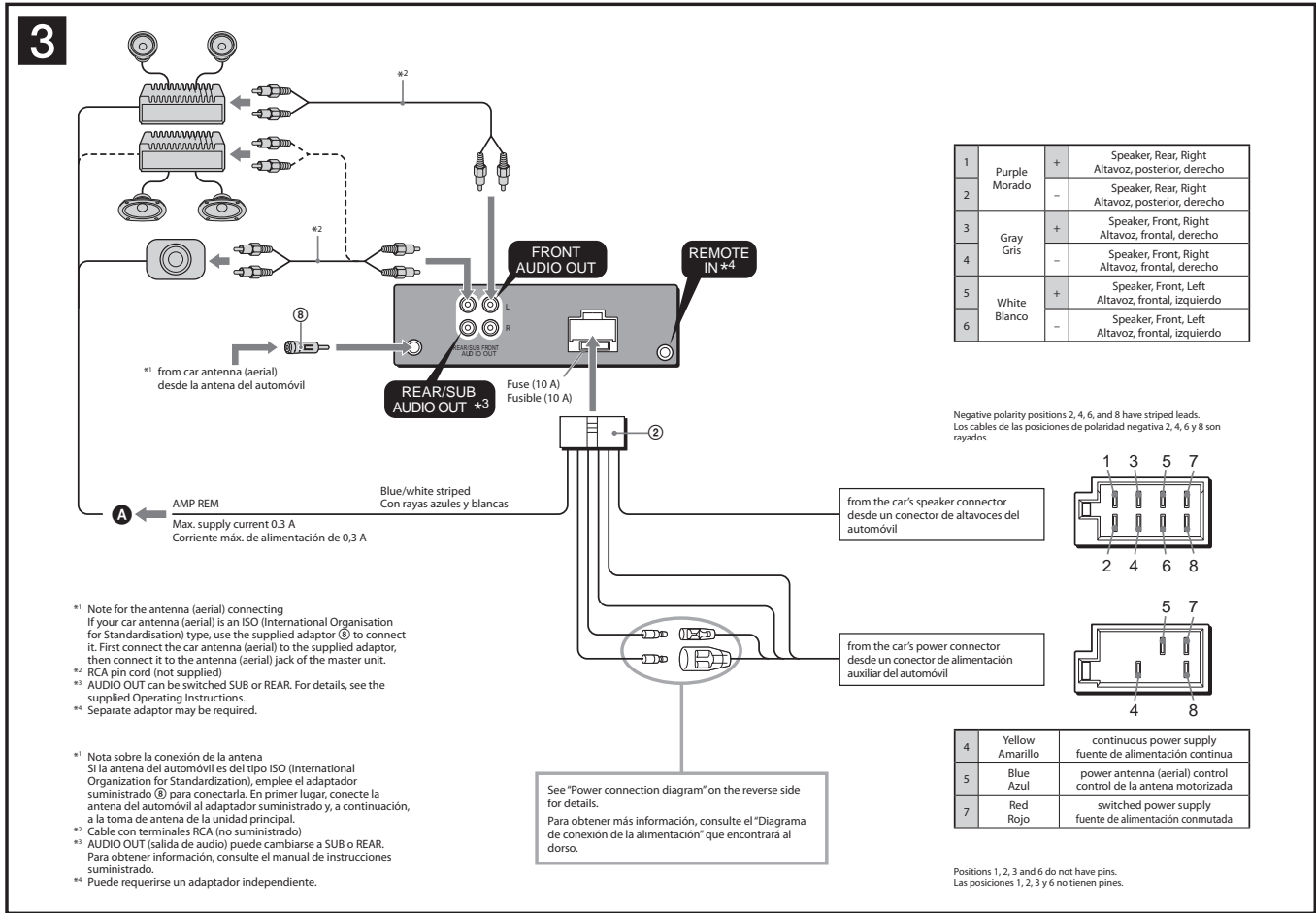
Notas sobre la conexión de los altavoces

- Antes de conectar los altavoces, desconecte la alimentación de la unidad.
- Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.
- No conecte los terminales de altavoz al chasis del automóvil, ni conecte los terminales del altavoz derecho con los del izquierdo.
- No conecte el cable de conexión a masa de esta unidad al terminal negativo (-) del altavoz.
- No intente conectar los altavoces en paralelo.
- Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.
- Para evitar fallas de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si la unidad comparte un cable negativo común (-) para los altavoces derecho e izquierdo.
- No conecte los cables de altavoz de la unidad entre sí.

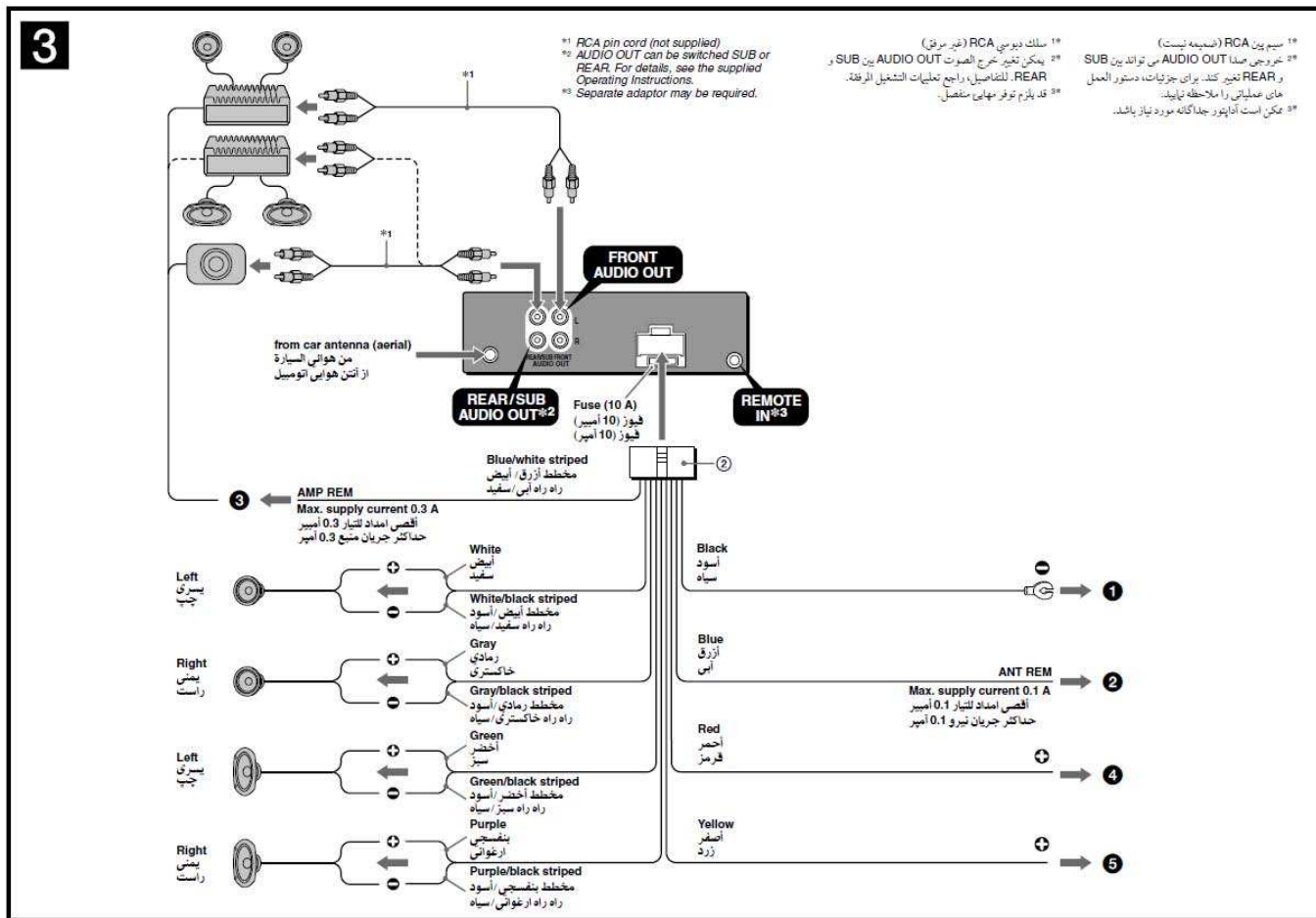
Note sobre la conexión

Si el altavoz y el amplificador no están conectados correctamente, aparecerá "FAILURE" en la pantalla. Si es así, compruebe la conexión de ambos dispositivos.

• Argentina model



• Saudi Arabia model



3 Connection diagram

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

3 مخطط التوصيل

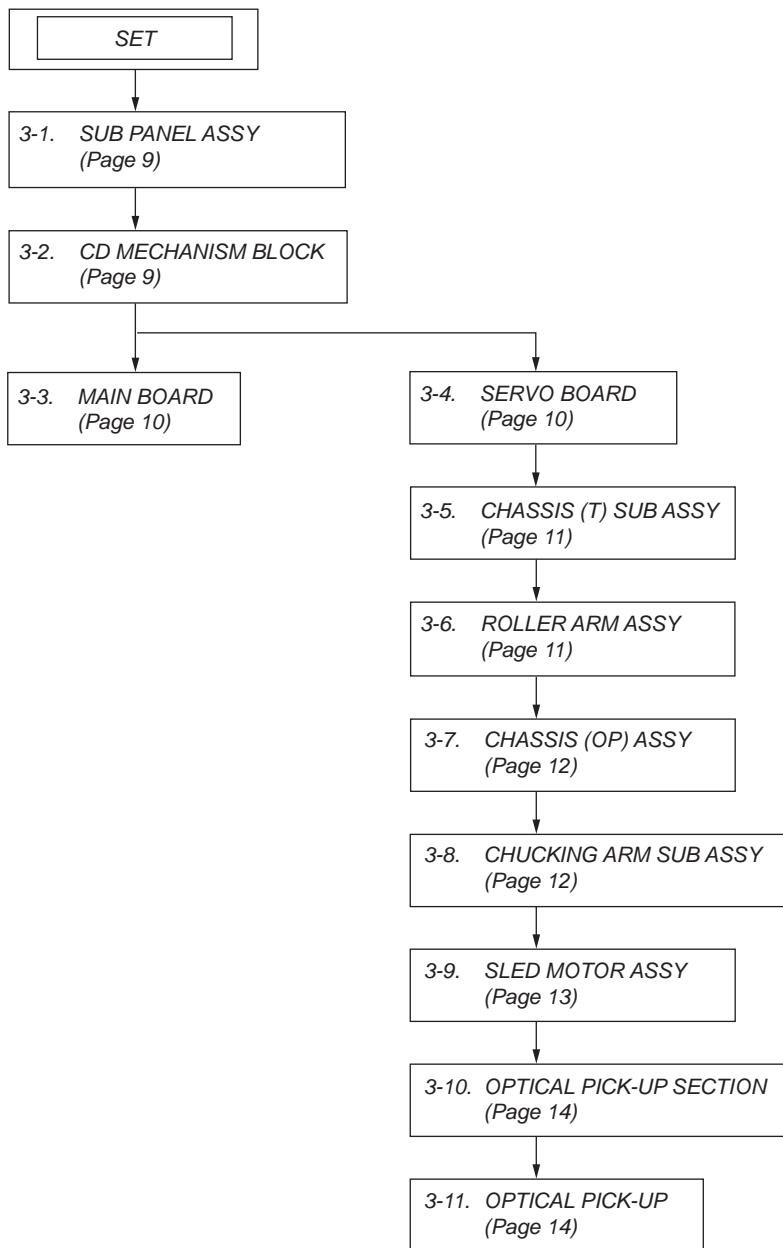
- إلى سطح معدني من السيارة
قم أولاً بتوصيل سلك الأرض الأسود، ثم قم بتوصيل أسلاك الطاقة الأصفر والأحمر.
 - إلى سلك التحكم بالهوائي الأمامي أو سلك امداد الطاقة للصوت المركب في معزز الهوائي
ملاحظات
• ليس من الضروري توصيل هذا السلك في حالة عدم وجود هوائي ألي أو معزز هوائي أو عند وجود هوائي FM/AM داخل مركب في الزجاج الخلفي/الجانبى، راجع التعليمات حول أسلاك التحكم و امداد الطاقة.
 - إلى طرف التوصيل AMP REMOTE IN على مضخم الصوت التثني الاختياري
هذا التوصيل خاص بمضخمات الصوت، فقط. القيام بتوصيل أي نظام آخر قد يتلف الجهاز.
 - إلى طرف توصيل الطاقة +12 فولت الذي يسري فيه التيار عندما يكون مفتاح إشعال المحرك في موضع المفاتيح
ملاحظات
• في حالة عدم وجود معزز الهوائي، قم بتوصيل إلى طرف توصيل الطاقة (+12 فولت) الذي يسري فيه التيار دائماً، تأكد من توصيل سلك الأرض (الأسود) أولاً.
• تأكد من توصيل أسلاك التحكم والأصفر إلى السطح المعدني من السيارة أولاً.
ملاحظات حول أسلاك التحكم و امداد الطاقة
• سلك التحكم بالهوائي الأمامي (الأزرق) يلزم وتوصيل أسلاك +12 فولت عندما تقوم بتشغيل الوندان.
• عندما تكون سيارتك مجهزة بهوائي FM/AM داخل مركب في الزجاج الخلفي/الجانبى، راجع التعليمات حول أسلاك التحكم و امداد الطاقة للتركيب (أو) إلى طرف توصيل الطاقة للزجاج الخلفي/الجانبى، راجع التعليمات حول أسلاك التحكم و امداد الطاقة لاستخدام الوكيل.
• لا يمكن استعمال الهوائي الأمامي الذي لا يتجزي على صندوق سيارة في هذا الجهاز.
 - إلى طرف توصيل الطاقة +12 فولت الذي يسري فيه التيار دائماً
تأكد من توصيل سلك الأرض الأسود إلى السطح المعدني من السيارة أولاً.
ملاحظات حول أسلاك التحكم والأصفر إلى السطح المعدني من السيارة أولاً.
• سلك التحكم بالهوائي الأمامي (الأزرق) يلزم وتوصيل أسلاك +12 فولت عندما تقوم بتشغيل الوندان.
• عندما تكون سيارتك مجهزة بهوائي FM/AM داخل مركب في الزجاج الخلفي/الجانبى، راجع التعليمات حول أسلاك التحكم و امداد الطاقة للتركيب (أو) إلى طرف توصيل الطاقة للزجاج الخلفي/الجانبى، راجع التعليمات حول أسلاك التحكم و امداد الطاقة لاستخدام الوكيل.
• لا يمكن استعمال الهوائي الأمامي الذي لا يتجزي على صندوق سيارة في هذا الجهاز.
- توصيل حبل الطاقة
عند توصيل سلك دخل الطاقة الأصفر، سيتم امداد الطاقة إلى دائرة الطاقة أيضاً حتى عندما يكون مفتاح إشعال المحرك في وضع إيقاف.
- ملاحظات حول توصيل السماعة
• قبل توصيل السماعات، أغلق الجهاز.
• لا تستعمل سماعات بمعاوقة أقل من 4 أو 8 أوم، ولديكيات مقاومة على التعامل مع القدرة التثني، تعرضها للتلف.
• لا تقم بتوصيل الطرف توصيل السماعات إلى هيكل السيارة، أو توصيل أطراف توصيل السماعات اليمنى بأطراف توصيل السماعات اليسرى.
• لا تقم بتوصيل سلك تأريض هذا الجهاز إلى طرف التوصيل السالب (-) للسماعة.
• لا تحاول توصيل السماعات على التوالي.
• قم بتوصيل سماعات غير فعالة فقط. القيام بتوصيل سماعات نشطة (بمضخمات صوت داخلية) إلى أطراف توصيل السماعات قد يؤدي إلى تلف الجهاز.
• لتجنب حدوث تلف، لا تستعمل السماعات الأمامية الخلفية في سيارتك إذا كان الجهاز يحتوي على سلك سائق (-) مشترك للسماعات اليمنى واليسرى.
• لا تقم بتوصيل أسلاك سماعة الجهاز ببعضها البعض.
- ملاحظة حول التوصيل
إذا لم يتم توصيل السماعة ومضخم الصوت بشكل صحيح، يتم عرض "FAILURE" في الشاشة. في هذه الحالة، تأكد من توصيل السماعة ومضخم الصوت بشكل صحيح.

3 نموذج اتصال

- به يك سطح فلزي التوصيل
ابتداءً من سلك زمين را وصل سلك سيمس سيمس معن زود و قزموزا وصل كنيك.
 - به سيمس كنترول آنتن هوائي برقي يا سيمس منبع برقي أمبلي فاير تقويت كننده آنتن هوائي
تكات
• در صورتی که آنتن هوائی برقی با تقویت کننده آنتن هوائی وجود ندارد، هر دو سیم را به زمین متصل کنید.
• هنگامی که آنتن هوائی شما دارای یک آنتن هوائی FM/AM در شیشه عقبی آنتناری می باشد، نکات در مورد سیم های کنترل و منبع برقی را مطالعه نمایید.
 - به AMP REMOTE IN یک آمپلی فاير برقي اختياري
این اتصال تنها برای آمپلی فايرها است. اتصال هر سیستم دیگری می تواند باعث سیمده به دستگاه شود.
 - به ترمینال برقي +12 ولت که در موقعیت جانیس کلید احتراق نیرو می گیرد
تكات
• اگر هیچ موقعیت جانیس وجود ندارد، به ترمینال برقي (+12 ولت) که هر دو سیم را می گرد و وصل کنید. حتی ایضا سیم سیم زمين را به سطح فلزي متصل کنید.
• هنگامی که آنتن هوائی شما دارای یک آنتن هوائی FM/AM در شیشه عقبی آنتناری می باشد، نکات در مورد سیم های کنترل و منبع برقی را مطالعه نمایید.
 - به ترمینال برقي +12 ولت که همواره نیرو می گیرد
حتما ابتدا سیم سیم زمين را به سطح فلزي متصل و وصل کنید.
• هنگامی که شما می خواهید این دو سیم را وصل کنید، سیم کنترل آنتن هوائی برقي (آبی) برقي مستقیم +12 ولت را زمین می کنید.
• هنگامی که آنتن هوائی شما دارای یک آنتن هوائی FM/AM در شیشه عقبی آنتناری می باشد، سیم های کنترل آنتن هوائی موجود و وصل کنید. برای جزئیات، با فروشنده خود مشورت نمایید.
• یک آنتن هوائی بدون یک ایستگاه تقویت سیم تواند به این دستگاه مورد استفاده قرار گیرد.
- اتصال حبله حاله
هنگامی که سیم منبع برقي زود وصل سیم سیم سیم است، برق همواره به مدار حالت من می شود حتی هنگامی که کلید احتراق خاموش باشد.
- تكات در مورد اتصال بلنكو
• پیش از وصل کردن بلنكو، دستگاه را خاموش کنید.
• از بلنكوها یا تجهیزات با امپدانس کمتر از 4 یا 8 اهم و با ظرفیت بالای برق استفاده کنید تا از سیمده به آن جلوگیری شود.
• ترمینال های بلنكو را به ترمینال های سیم وصل کنید یا ترمینال های بلنكوهای راست و با ترمینال های بلنكوهای چپ وصل کنید.
• سیم زمين این دستگاه را به ترمینال منفی (-) بلنكو وصل کنید.
• سعی کنید بلنكوها را بطور موازی وصل کنید.
• ترمینال بلنكوهای غیر فعال را وصل کنید. وصل کردن بلنكوهای فعال (یا ترمینال های بلنكوهای داخل) به ترمینال های بلنكو ممکن است به دستگاه سیمده وارد کند.
• برای اجتناب از یک سیم عملکرد، دو سیم هائی بلنكو داخلی نصب شده در این وسیله خود در صورتی که دستگاه دارای یک سیم منفی (-) مشترک برای بلنكوهای راست و چپ می باشد استفاده نکنید.
• هر هائی بلنكو که در دستگاه را به بلنكو وصل کنید.
- تكات در مورد اتصال
اگر بلنكو و آمپلی فاير بطور صحیح وصل نشده باشد، "FAILURE" در صفحه نمایش ظاهر می شود. در چنین حالتی، مطمئن شوید که بلنكو و آمپلی فاير بطور صحیح نصب شده اند.

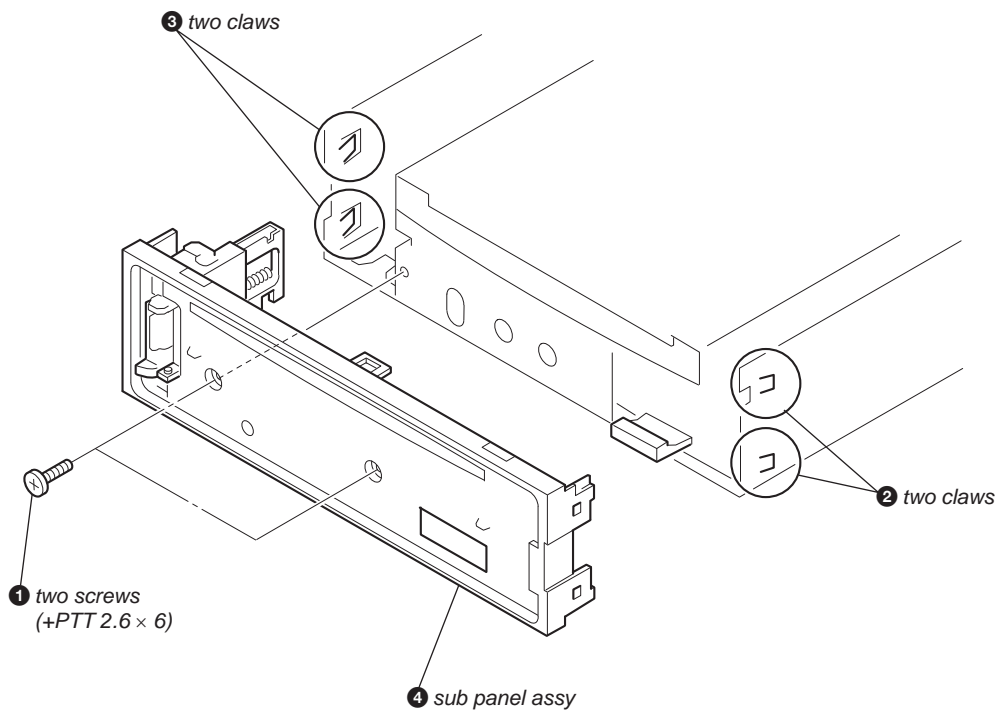
SECTION 3
DISASSEMBLY

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

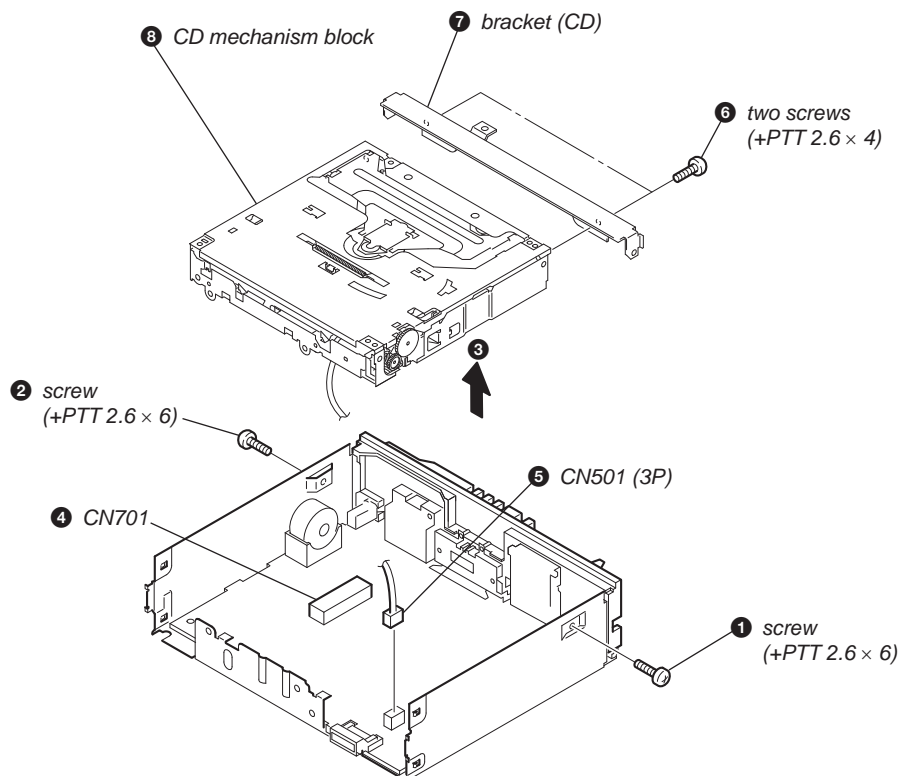


Note: Follow the disassembly procedure in the numerical order shown below.

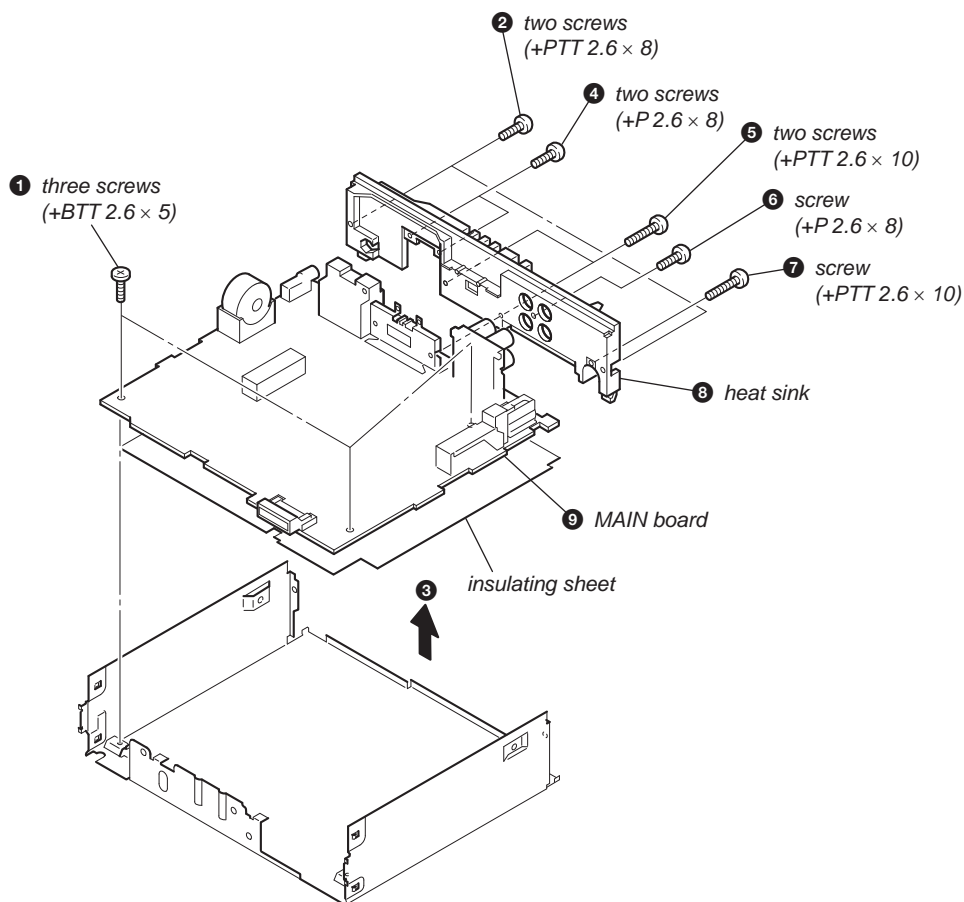
3-1. SUB PANEL ASSY



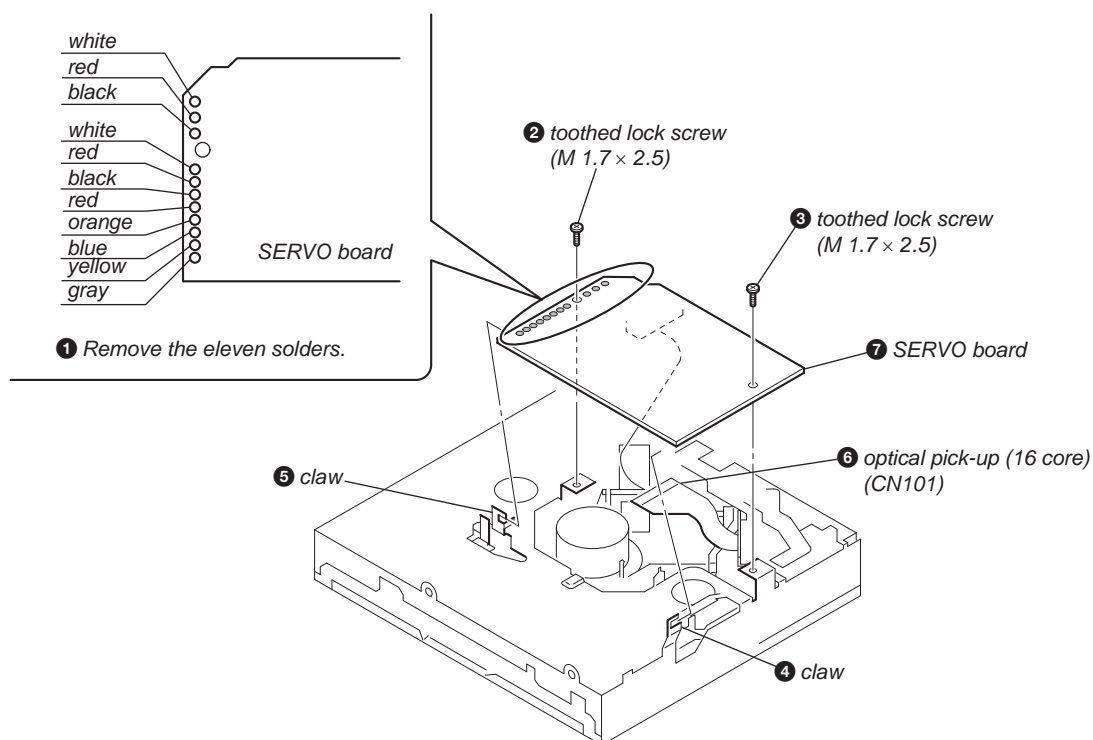
3-2. CD MECHANISM BLOCK



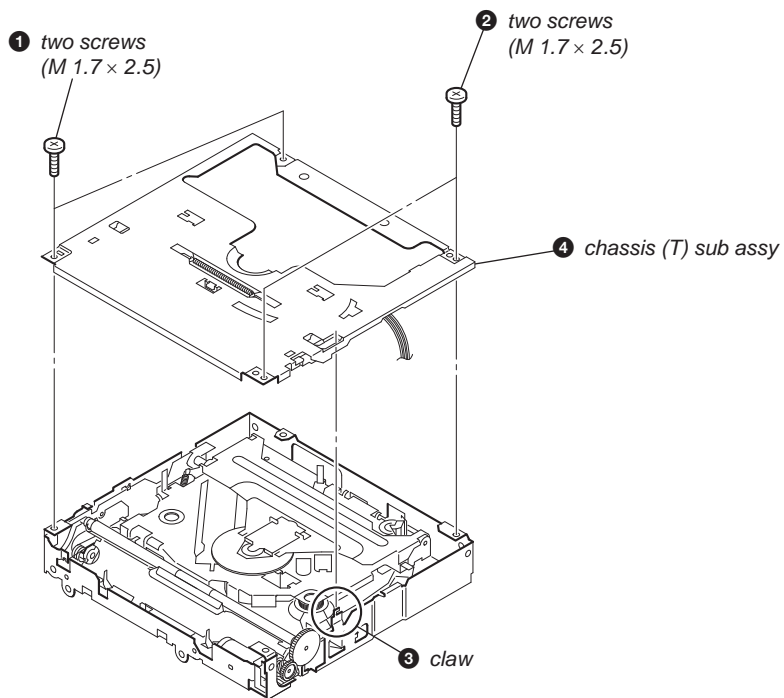
3-3. MAIN BOARD



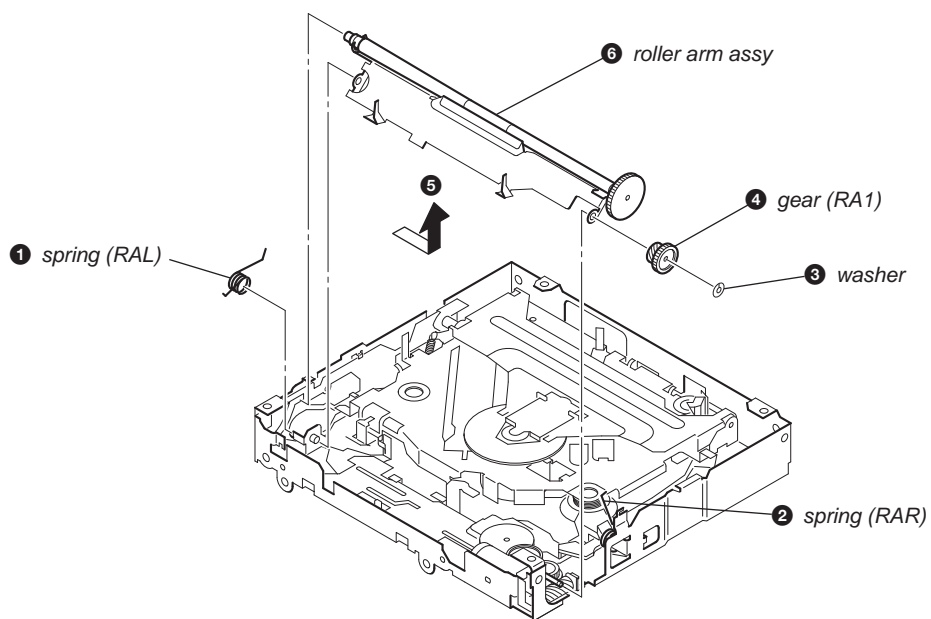
3-4. SERVO BOARD



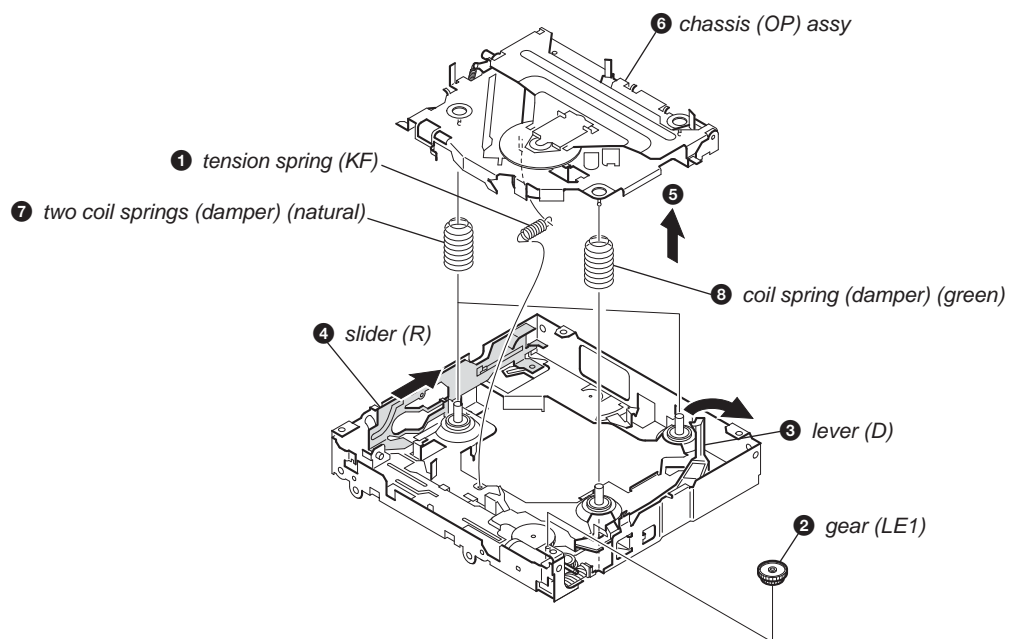
3-5. CHASSIS (T) SUB ASSY



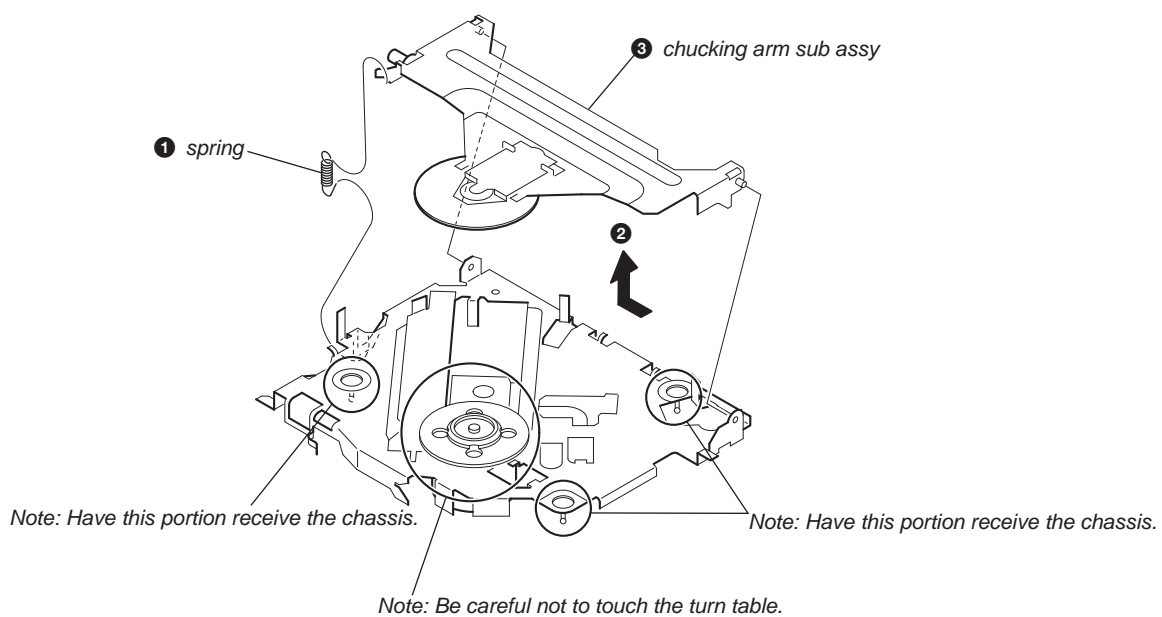
3-6. ROLLER ARM ASSY



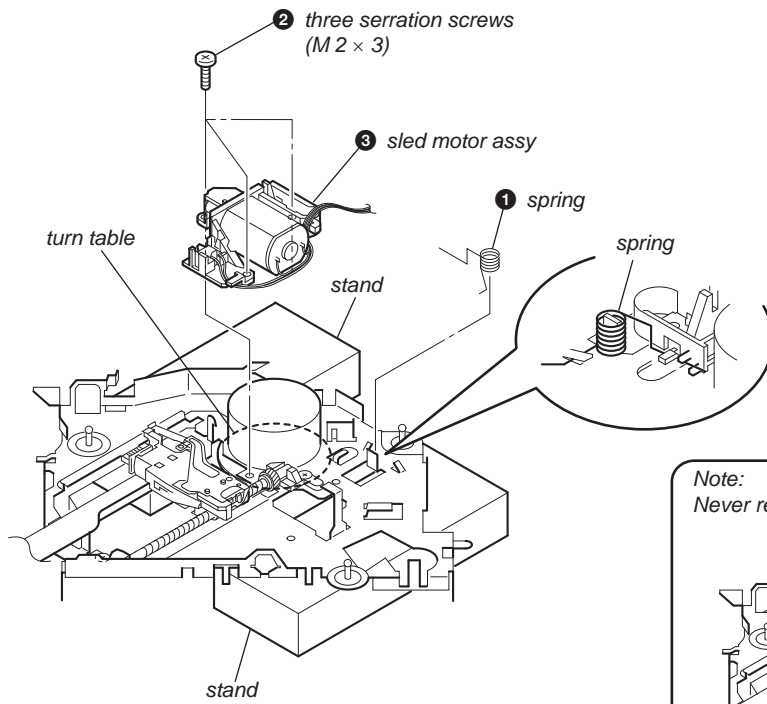
3-7. CHASSIS (OP) ASSY



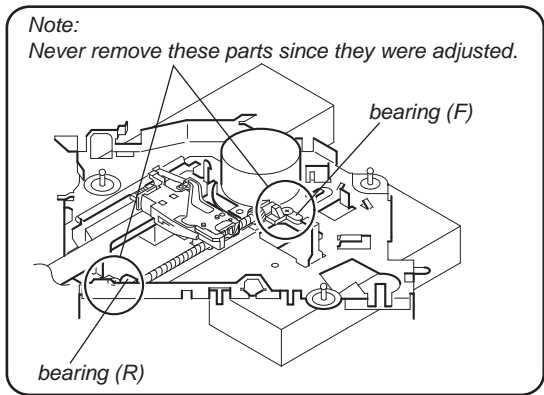
3-8. CHUCKING ARM SUB ASSY



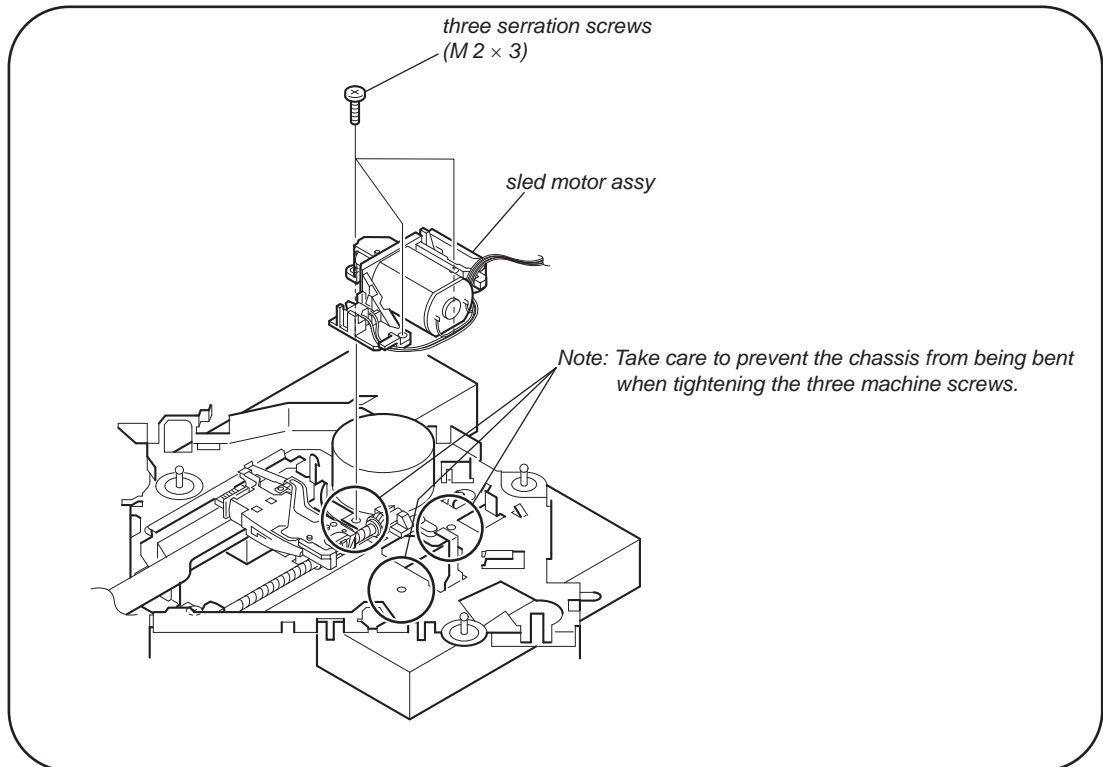
3-9. SLED MOTOR ASSY



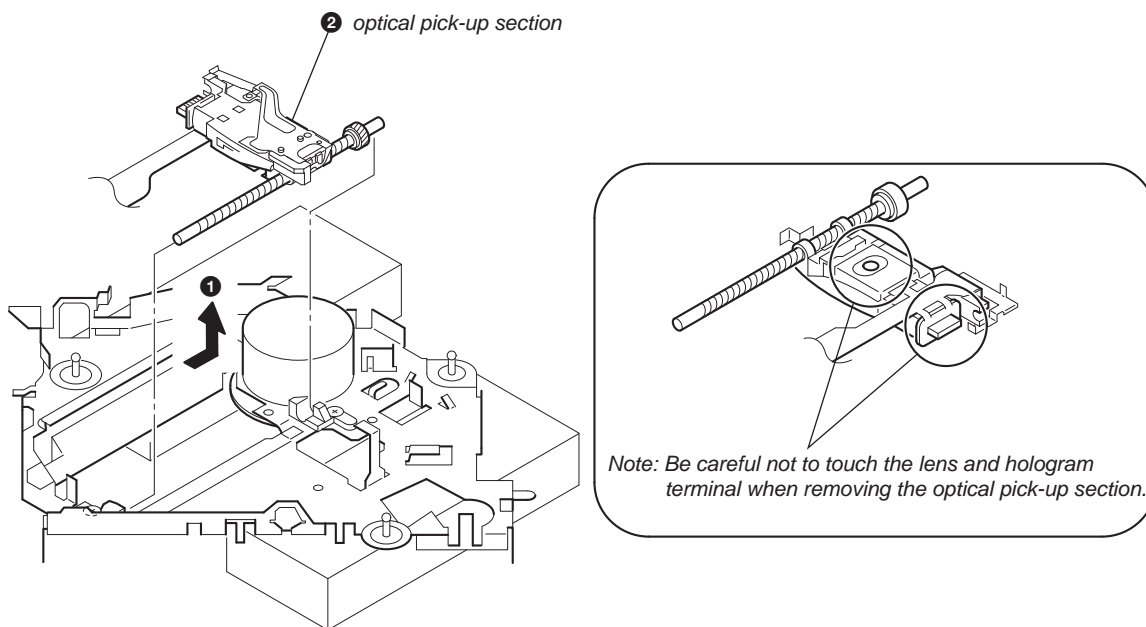
Note: Place the stand with care not to touch the turn table.



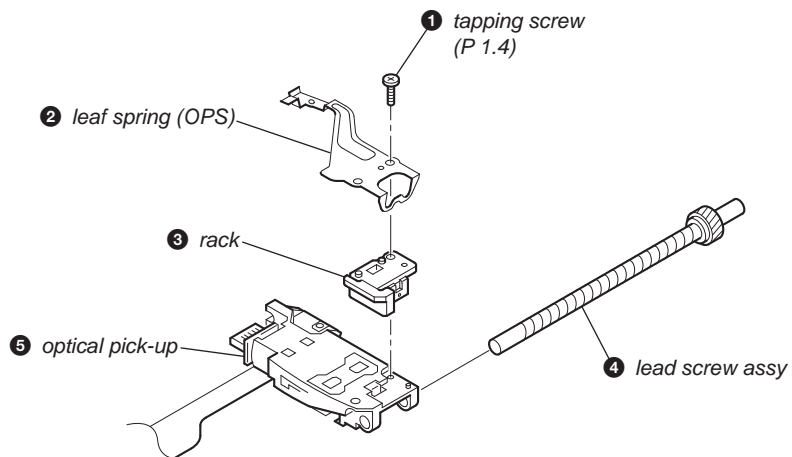
Note for Assembly



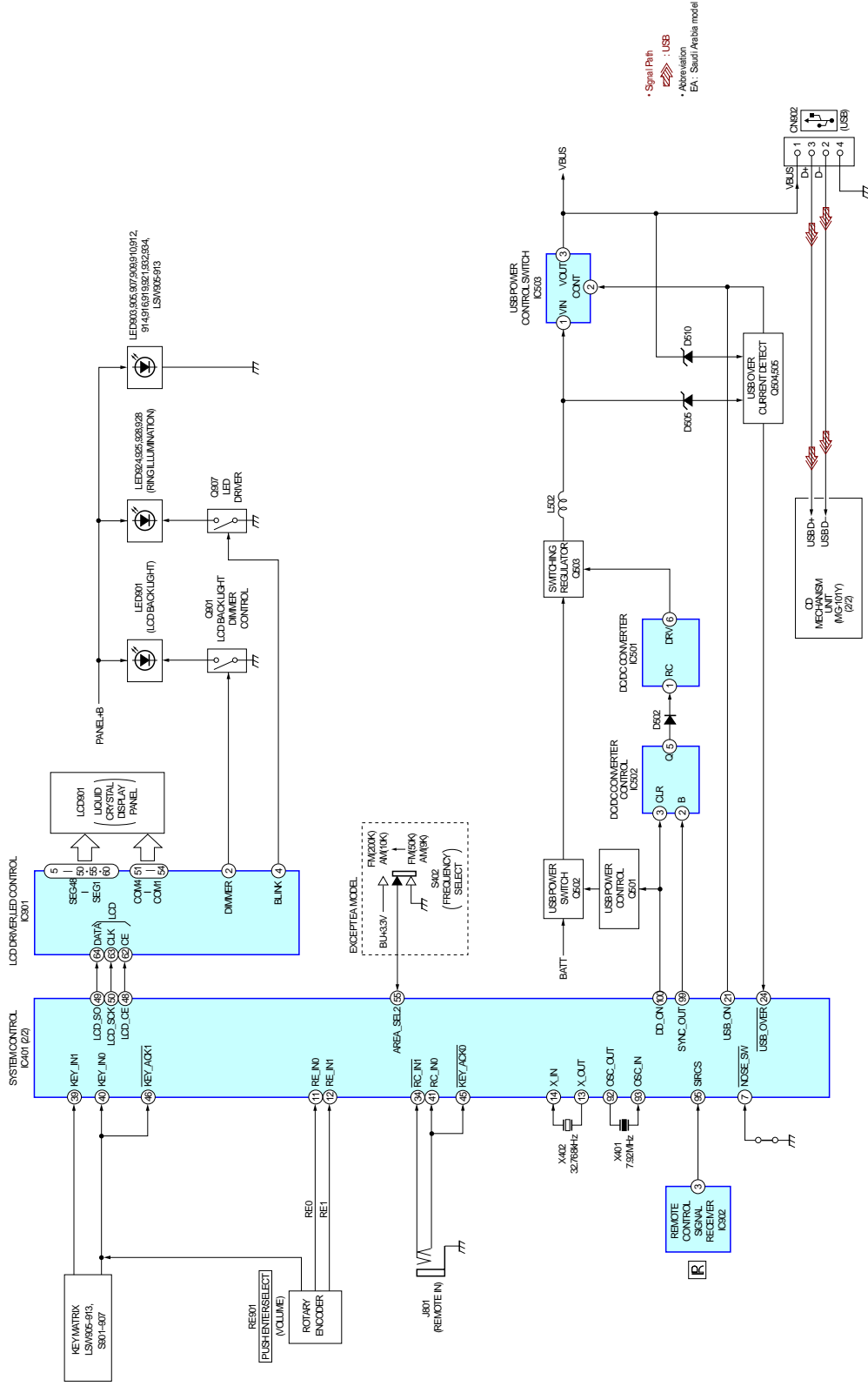
3-10. OPTICAL PICK-UP SECTION



3-11. OPTICAL PICK-UP



4-2. BLOCK DIAGRAM – DISPLAY Section –



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

For Printed Wiring Boards:

- Note:
- : Parts extracted from the component side.
 - : parts extracted from the conductor side.
 - : 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 (SIDE B) the pattern face are indicated.
 Parts face side: Parts on the parts face side seen from (SIDE A) the parts face are indicated.

- Abbreviation
 AR : Argentina model
 EA : Saudi Arabia model
 MX : Mexican model

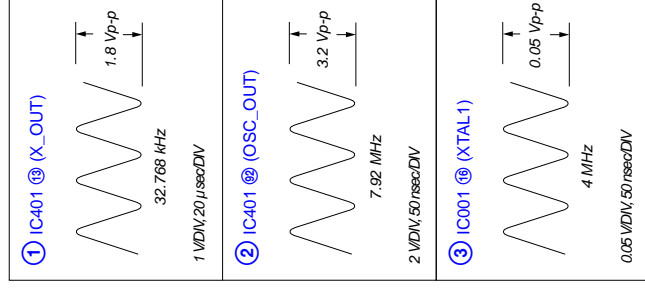
For Schematic Diagrams:

- 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.
 - Δ : internal component.
 - □ : panel designation.

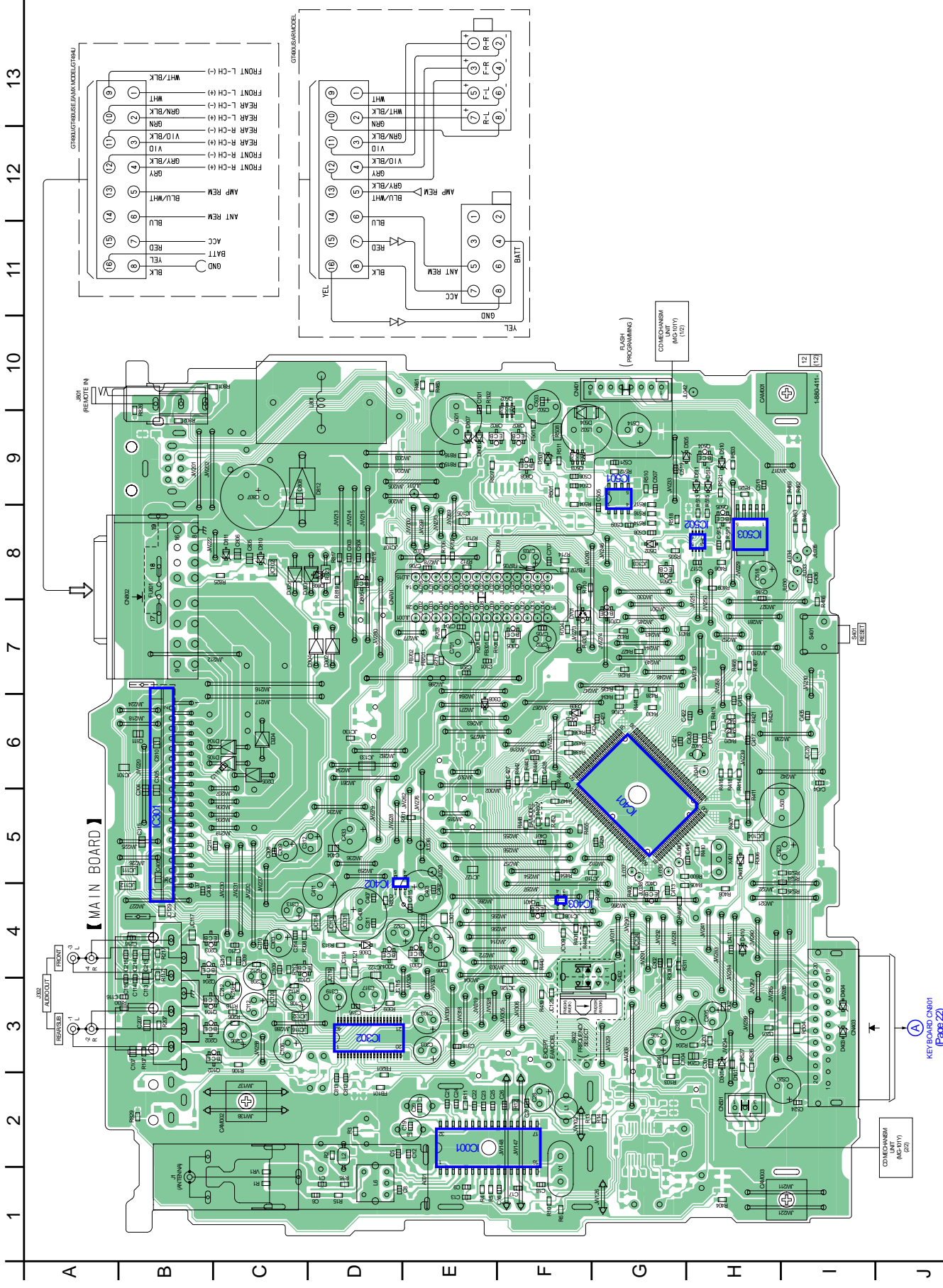
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety.
 Replace only with part number specified.

- --- : B+ Line.
- - - - : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- () : FM
- < : CD PLAY
- * : Impossible to measure
- Voltages are taken with a VOM (input impedance 10 M Ω). 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
- ↘ : FM
- ↙ : AM
- ↖ : AUX
- ↗↘ : USB
- Abbreviation
 AR : Argentina model
 EA : Saudi Arabia model
 MX : Mexican model

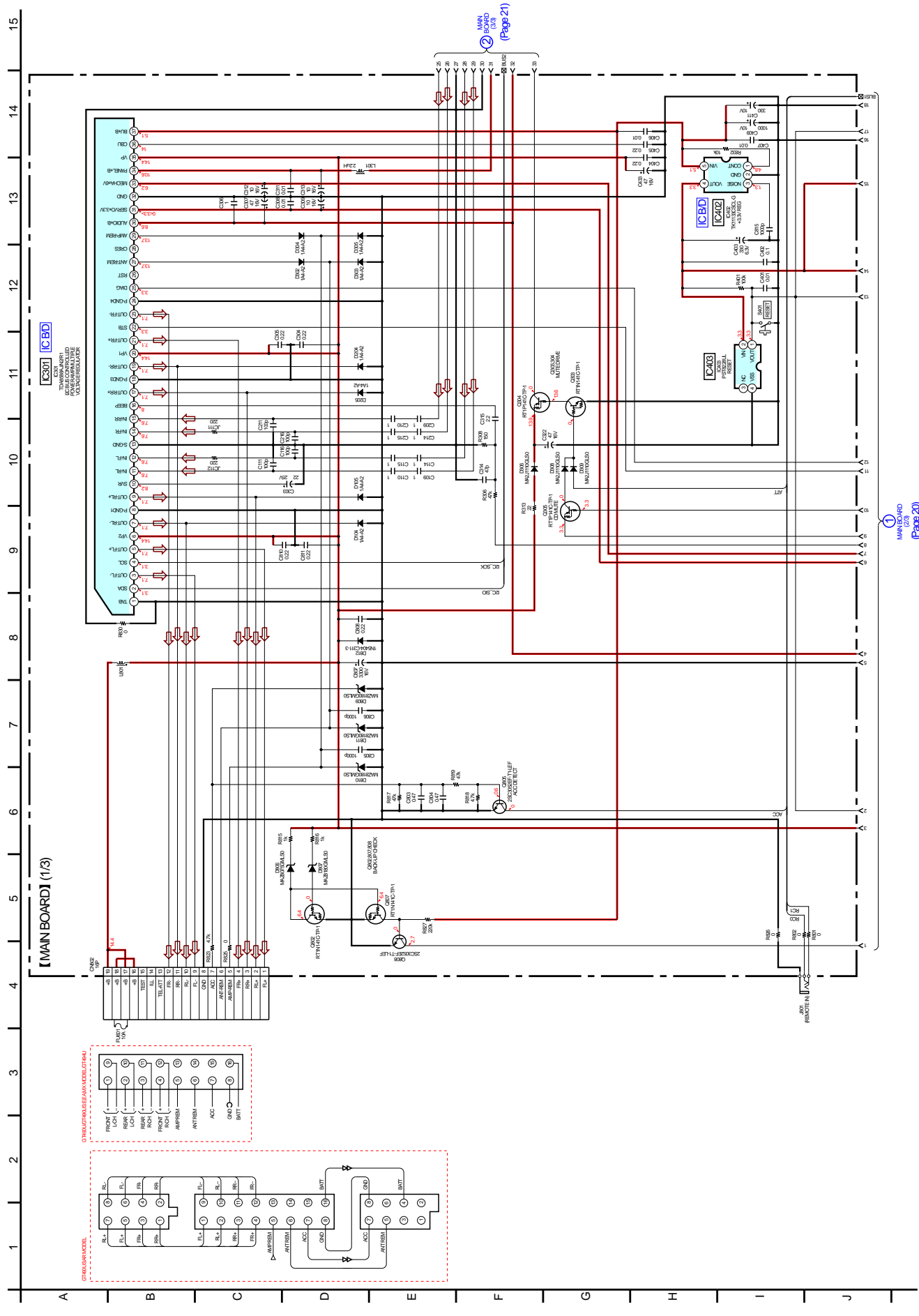
- Waveforms
 - MAIN Board -



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



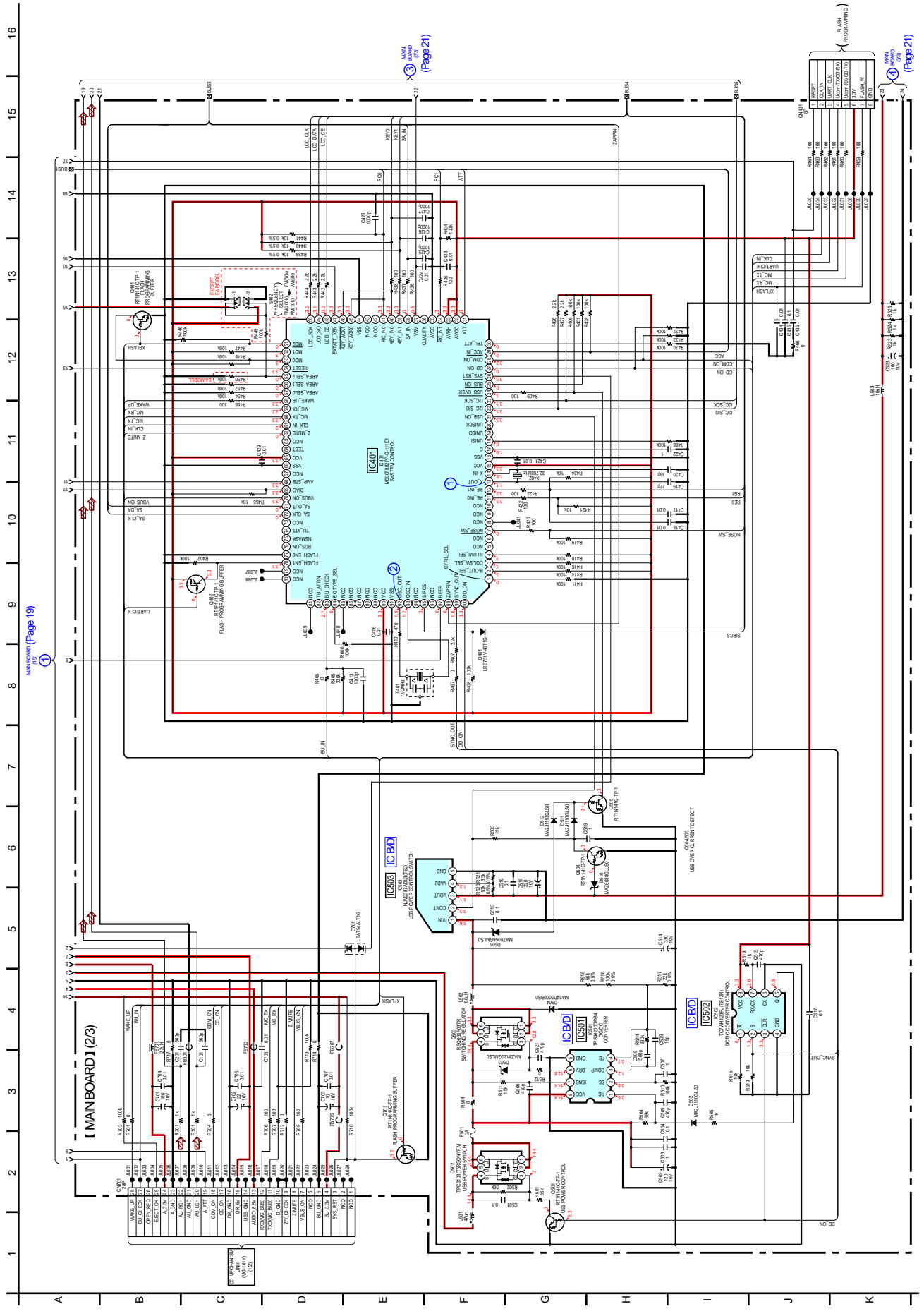
4-4. SCHEMATIC DIAGRAM – MAIN Section (1/3) – • See page 24 for IC Block Diagrams.



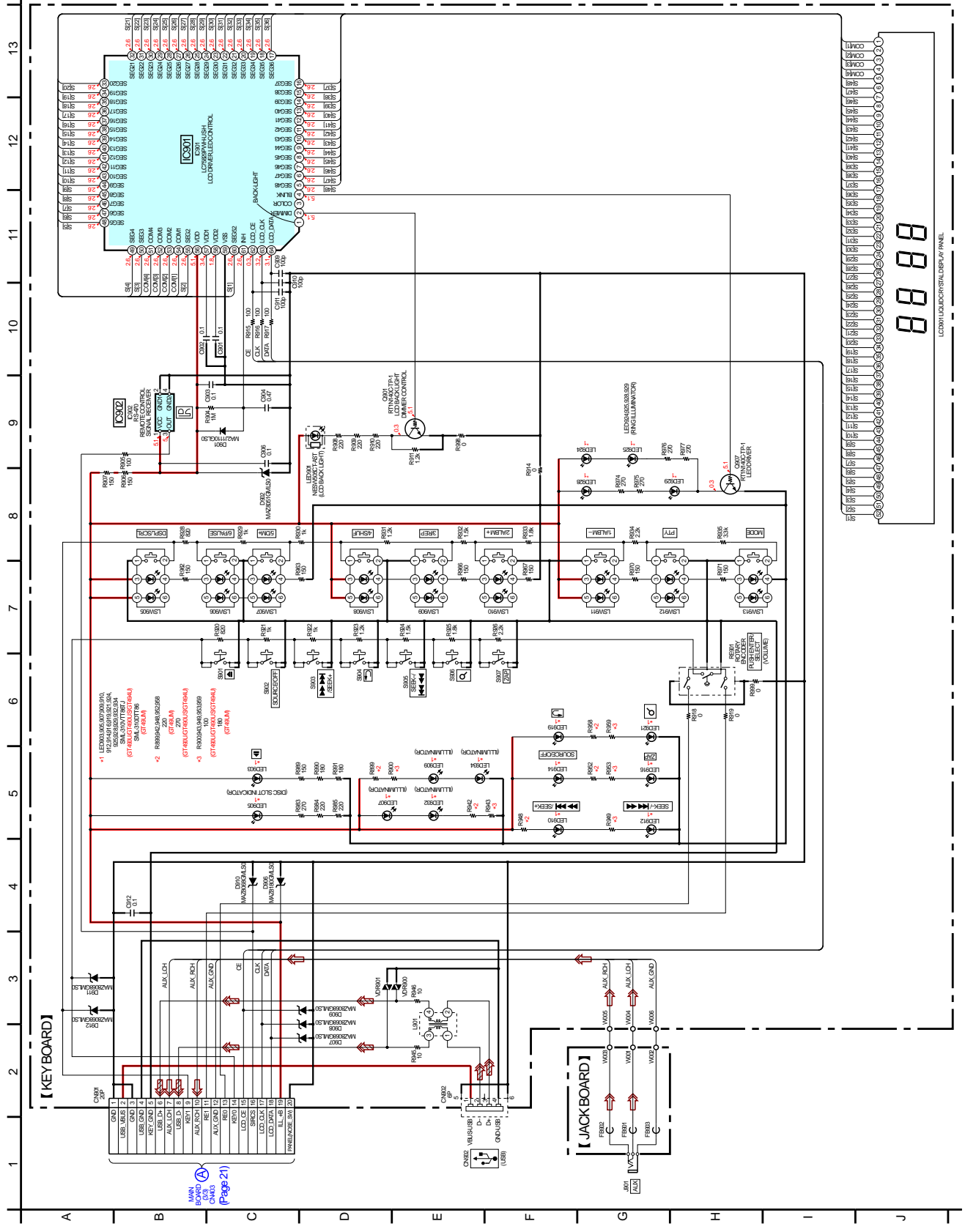
MAIN BOARD (2/3)
(Page 20)

MAIN BOARD (3/3)
(Page 21)

4-5. SCHEMATIC DIAGRAM – MAIN Section (2/3) – • See page 17 for waveforms. • See page 24 for IC Block Diagrams. • See page 27 for IC Pin Function Description.

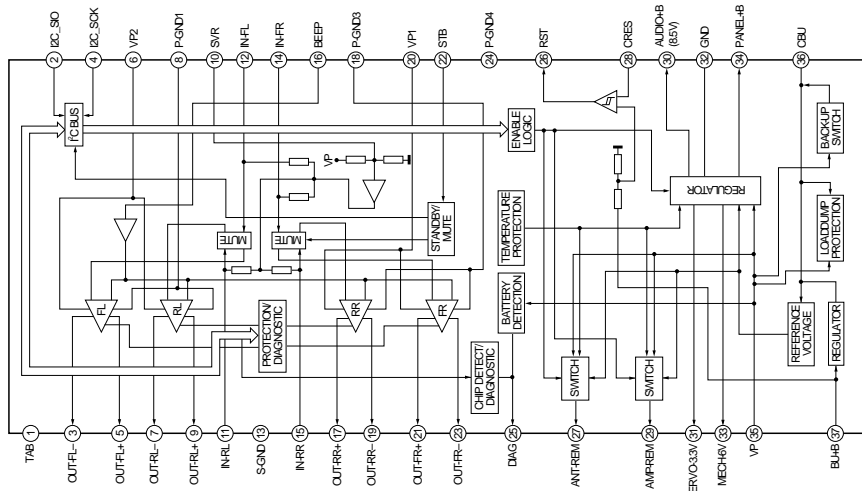


4-8. SCHEMATIC DIAGRAM – KEY SECTION –

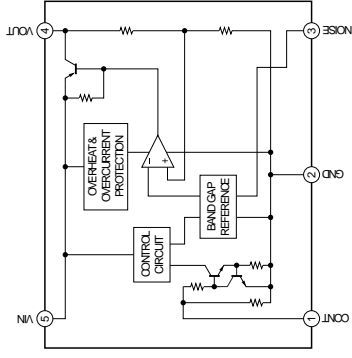


- IC Block Diagrams

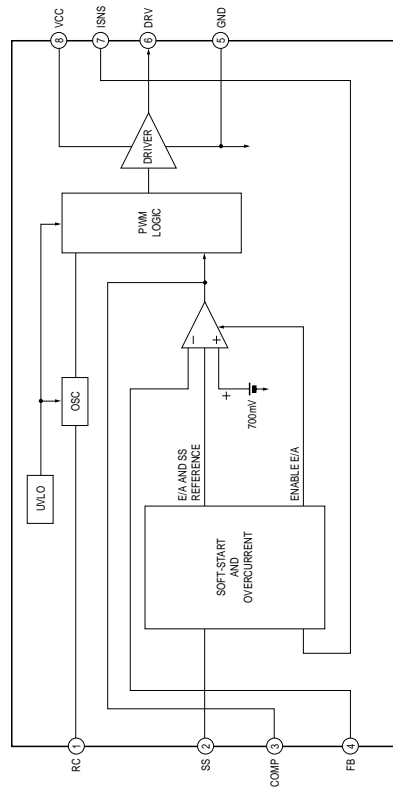
IC301 TDA8588AJN2/R1 (MAIN Board (1/3))



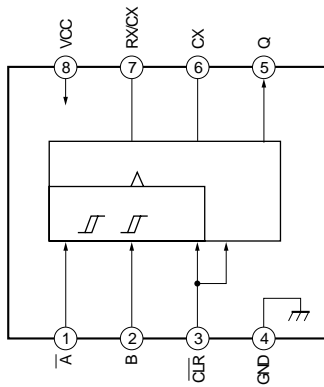
IC402 TK11133CSCL-G (MAIN Board (1/3))



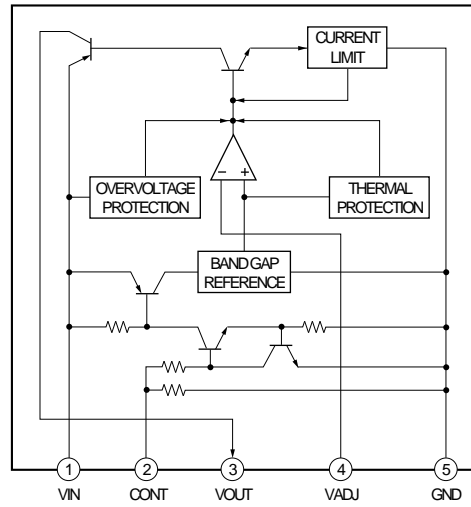
IC501 TPS40200DRG4 (MAIN Board (2/3))



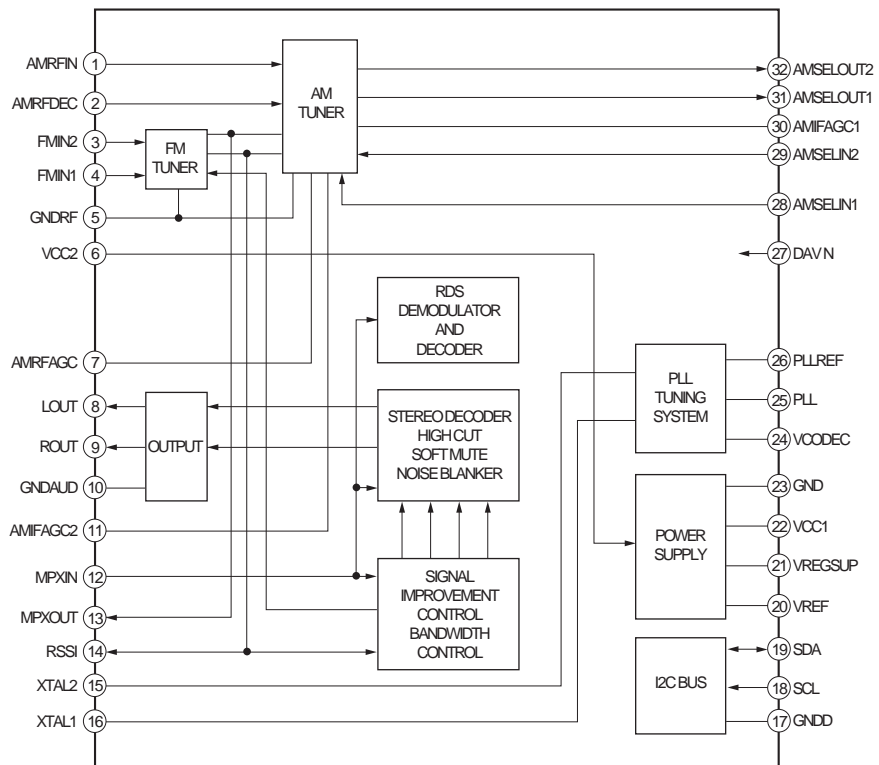
IC502 TC7WH123FU(TE12R) (MAIN Board (2/3))



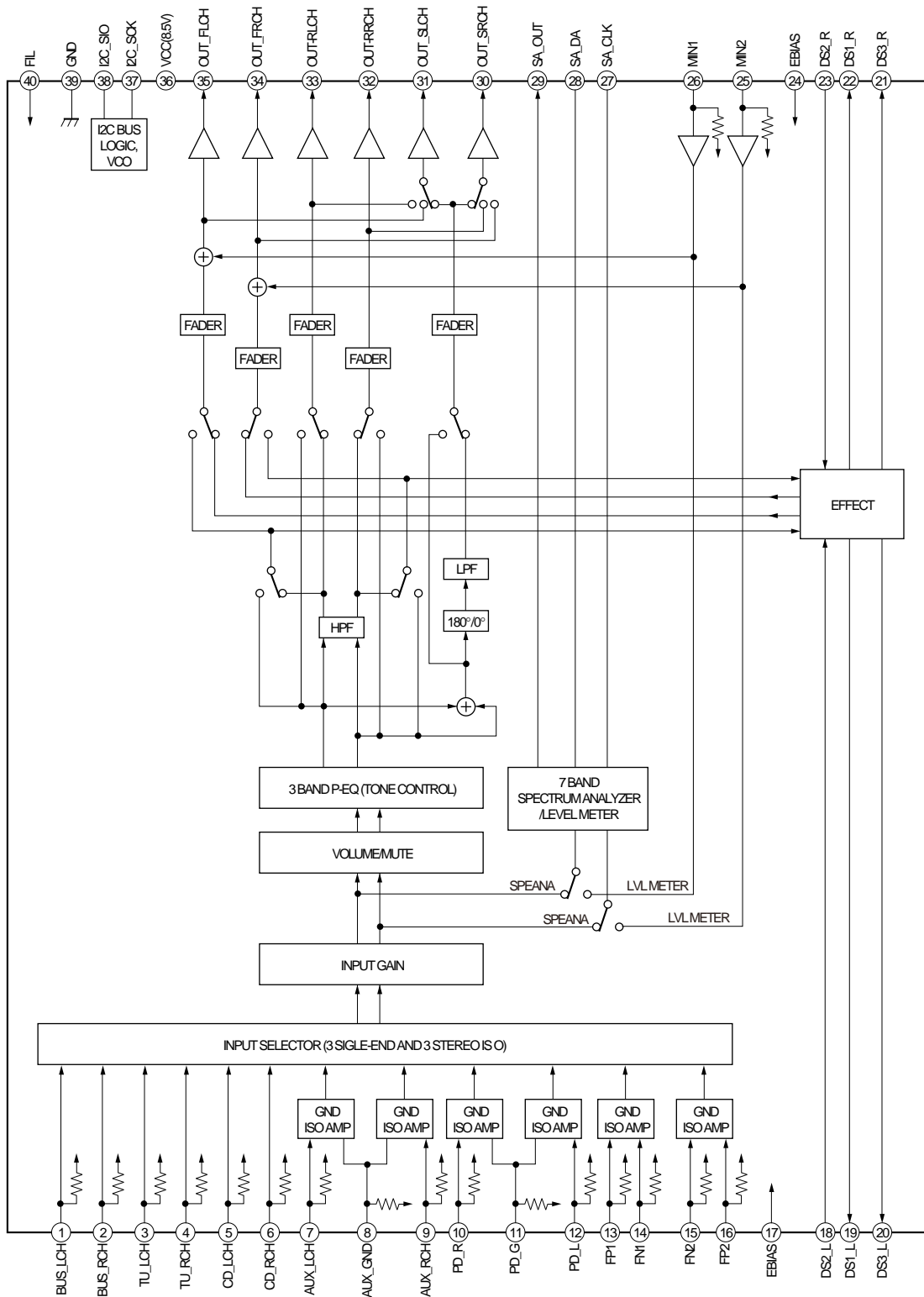
IC503 NJM2387ADL3 (TE2) (MAIN Board (2/3))



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



IC302 BD3447AFV-E2 (MAIN Board (3/3))



• IC Pin Function Description

MAIN BOARD (2/3) IC401 MB90F882PF-G-111E1 (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1	CYRIL_SEL	I	Cyril select signal input (L: No cyril select)
2	B-OUT_SEL	I	Black out setting select signal input (H: Black out)
3	COL_SW_SEL	I	Key illumination initial color setting select signal input (H: Blue)
4	ILLUMI_SEL	I	Key illumination voltage setting select signal input (H: 10.4 V)
5, 6	NCO	O	Not used. (Open)
7	NOSE_SW	I	Front panel detach/attach detect signal input (L: with front panel, H: without front panel)
8 to 10	NCO	O	Not used. (Open)
11	RE_IN0	I	Rotary encoder signal input 0
12	RE_IN1	I	Rotary encoder signal input 1
13	X_OUT	O	Low speed operation clock signal output (32.768 kHz)
14	X_IN	I	Low speed operation clock signal input (32.768 kHz)
15	VCC	—	Power supply pin (+3.3 V)
16	VSS	—	Ground
17	C	—	Regulator reference capacitor connecting pin
18	UNISI	I	SONY-BUS data input (Fixed at L in this set)
19	UNISO	O	Not used. (Open)
20	UNISCK	O	Not used. (Open)
21	USB_ON	O	USB over current detect IC control signal output
22	I2C_SIO	I/O	IIC serial data input/output
23	I2C_SCK	O	IIC serial clock signal output
24	USB_OVER	I	USB over current detect signal input
25	BUS_ON	O	BUS ON signal output (Fixed at L in this set)
26	SYS_RST	O	System reset signal output
27	CD_ON	I	CD mechanism servo power supply control request signal input
28	CDM_ON	I	CD mechanism deck power supply control request signal input
29	ACC_IN	I	Accessory power supply detect signal input
30	TEL_ATT	I	Telephone attenuator detect signal input (Fixed at L in this set)
31	ATT	O	Audio mute control signal output
32	AVCC	—	A/D converter power supply pin (+3.3 V)
33	AVRH	—	A/D converter external reference power supply pin (+3.3 V)
34	RC_IN1	I	Rotary commander shift key signal input 1
35	AVSS	—	Ground for A/D converter
36	QUALITY	I	Not used. (Open)
37	VSM	I	S meter voltage detect signal input
38	SA_IN	I	Spectrum analyzer DC input
39	KEY_IN1	I	Key signal input 1
40	KEY_IN0	I	Key signal input 0
41	RC_IN0	I	Rotary commander shift key signal input 0
42, 43	NCO	O	Not used. (Open)
44	VSS	—	Ground
45	KEY_ACK0	I	Key acknowledge detect signal input (Rotary commander)
46	KEY_ACK1	I	Key acknowledge detect signal input (Front panel)
47	EXTATT_XEN	O	L is sent when electronic volume IC has the status of CD/USB (H is sent when it has the status of other source)
48	LCD_CE	O	LCD driver chip enable signal output
49	LCD_SO	O	LCD driver serial data output
50	LCD_SCK	O	LCD driver serial clock signal output
51	MOD2	I	Micon operation mode setting signal input (active: L)
52	MOD1	I	Micon operation mode setting signal input (Fixed at H in this set)
53	MOD0	I	Micon operation mode setting signal input (active: H)
54	RESET	I	Reset signal input
55	AREA_SEL2	I	Destination setting pin 2
56	AREA_SEL1	I	Destination setting pin 1 (Fixed at L in this set)
57	AREA_SEL0	I	Destination setting pin 0 (Fixed at L in this set)
58	WAKE_UP	O	CD mechanism deck micon wake up signal output
59	MC_RX	I	MC-BUS communication and CD mechanism deck micon communication RX input
60	MC_TX	O	MC-BUS communication and CD mechanism deck micon communication TX output

Pin No.	Pin Name	I/O	Description
61	CLK_IN	I	Flash programming serial clock signal input
62	Z_MUTE	I	Z mute signal input
63	NCO	O	Not used. (Open)
64	TEST	O	Not used. (Open)
65	VCC	—	Power supply pin (+3.3 V)
66	VSS	—	Ground
67	NCO	O	Not used. (Open)
68	AMP_STB	O	Standby signal output for power regulator IC
69	DIAG	I	Condition signal input from power amp IC
70	VBUS_ON	I	VBUS power supply control signal input (L: VBUS OFF, H: VBUS ON)
71	SA_OUT	O	Spectrum analyzer serial data output
72	SA_CLK	O	Spectrum analyzer serial clock signal output
73	NCO	O	Not used. (Open)
74	TU_ATT	O	Not used. (Open)
75	NSMASK	O	Not used. (Open)
76	RDS_ON	O	Not used. (Open)
77	FLASH_EN0	I	Flash writer programming wake up signal input (Fixed at L)
78	FLASH_EN1	I	Flash writer programming wake up signal input
79 to 81	NCO	O	Not used. (Open)
82	TU_ATTIN	O	Not used. (Open)
83	BU_CHECK	I	Back up power supply detect signal input
84	EQ_TYPE_SEL	I	Equalizer type setting signal input (L: general model)
85 to 89	NCO	O	Not used. (Open)
90	VCC	—	Power supply pin (+3.3 V)
91	VSS	—	Ground
92	OSC_OUT	O	High speed operation clock signal output (7.92 MHz)
93	OSC_IN	I	High speed operation clock signal input (7.92 MHz)
94	NCO	O	Not used. (Open)
95	SIRCS	I	Remote control signal input
96	NCO	O	Not used. (Open)
97	BEEP	O	Beep signal output for power amplifier IC
98	ZAPPIN	O	Zappin beep signal output
99	SYNC_OUT	O	DC/DC converter oscillation frequency control signal output
100	DD_ON	O	DC/DC converter power supply ON/OFF control signal output

CDX-GT49UM/GT490U/GT490US/GT494U

SECTION 5 EXPLODED VIEWS

Ver. 1.1

Note:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

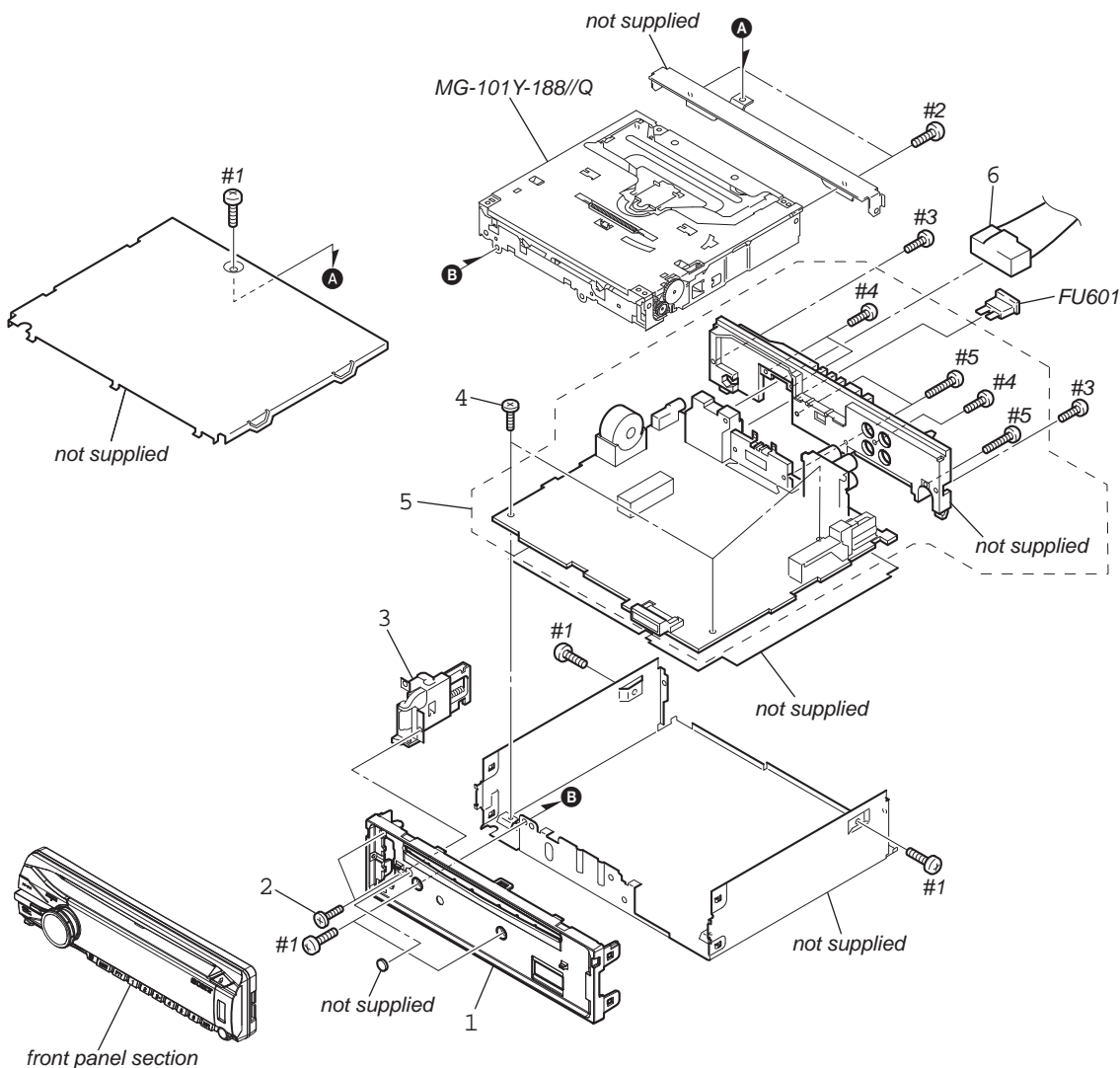
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) . . . (RED)

↑ Parts Color ↑ Cabinet's Color
- Accessories are given in the last of the electrical parts list.

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

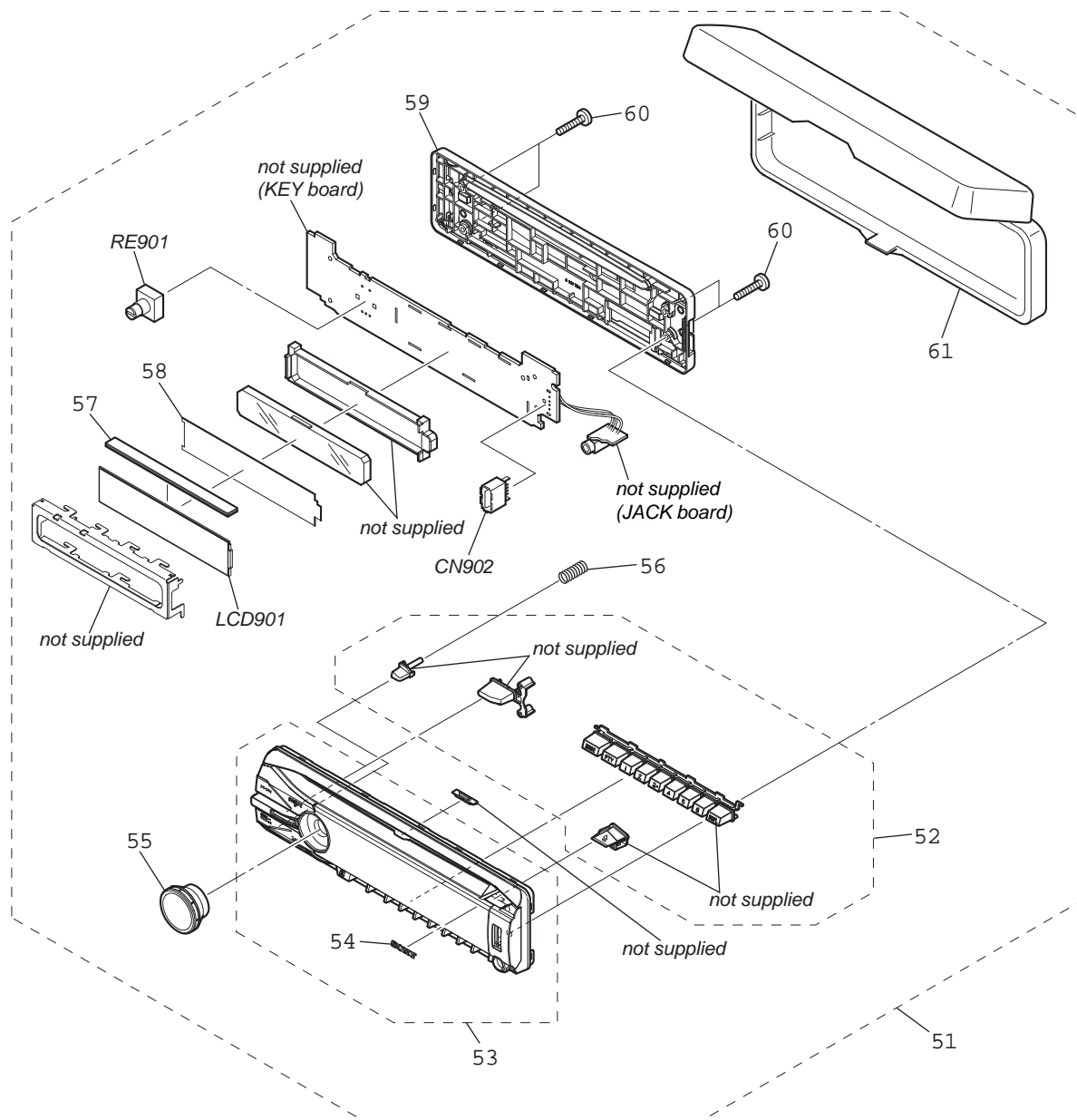
- Abbreviation
 AR : Argentina model
 EA : Saudi Arabia model
 MX : Mexican model

5-1. MAIN SECTION



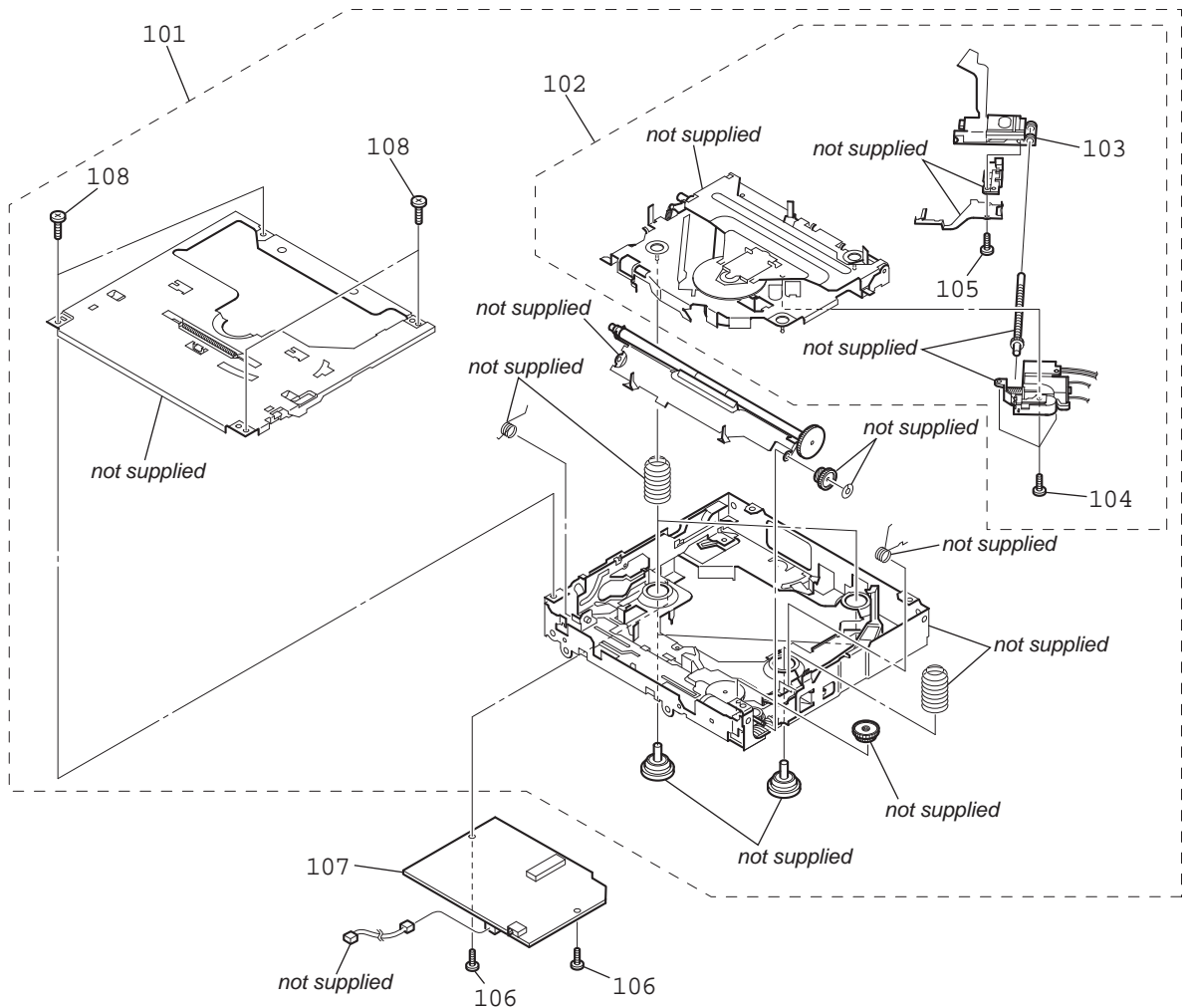
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-2320-690-3	PANEL ASSY, SUB		6	1-833-974-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (GT490U/GT490US:E,EA,MX/GT494U)	
2	3-042-244-11	SCREW (T)		6	1-834-307-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (for Maruti Suzuki:Diesel Car) (GT49UM)	
3	X-2179-399-1	LOCK ASSY (S)		FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
4	2-050-124-01	SCREW +BTT 2.6X5		#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
5	A-1733-610-A	MAIN BOARD, COMPLETE (EXCEPT EA)		#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
5	A-1733-611-A	MAIN BOARD, COMPLETE (EA)		#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
6	1-776-527-11	CORD (WITH CONNECTOR) (ISO) (POWER) (GT490US:AR)		#4	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
6	1-833-762-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (for Maruti Suzuki:Gasoline Car) (GT49UM)		#5	7-685-794-09	SCREW +PTT 2.6X10 (S)	

5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	A-1734-432-A	PANEL COMPLETE ASSY, FRONT (GT49UM)		55	X-2514-264-1	KNOB (VOL) (SV) ASSY	
51	A-1734-669-A	PANEL COMPLETE ASSY, FRONT (GT490U)		56	2-639-881-01	SPRING (RELEASE)	
51	A-1734-673-A	PANEL COMPLETE ASSY, FRONT (GT490US)		57	1-780-789-12	CONDUCTIVE BOARD, CONNECTION	
51	A-1734-687-A	PANEL COMPLETE ASSY, FRONT (GT494U)		58	4-144-557-01	ILLUMINATOR (LCD)	
52	X-2514-265-1	BUTTON ASSY (S) (GT490U/GT494U)		59	4-141-754-01	PANEL, BACK	
52	X-2514-413-1	BUTTON ASSY (S) (GT49UM/GT490US)		60	3-250-543-21	SCREW (+B P-TITE M2)	
53	X-2514-350-1	PANEL (SV) ASSY, FRONT (GT490U)		61	X-2187-544-2	CASE ASSY (for FRONT PANEL)	
53	X-2514-351-1	PANEL (SV) ASSY, FRONT (GT490US)		CN902	1-822-798-11	CONNECTOR, USB 6P (USB)	
53	X-2515-123-1	PANEL (SV) ASSY, FRONT (GT494U)		LCD901	1-802-952-11	DISPLAY PANEL, LIQUID CRYSTAL	
53	X-2515-124-1	PANEL (SV) ASSY, FRONT (GT49UM)		RE901	1-479-902-32	ENCODER, ROTARY (PUSH ENTER/SELECT (VOLUME))	
54	3-251-320-01	EMBLEM (NO. 2.5), SONY					

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



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-1313-179-A	MECHANICAL BLOCK (U) ASSY (08)		105	3-686-458-21	SCREW (P1.4), TAPPING	
102	A-1284-705-A	DAXEV08//Q		106	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
△ 103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)		107	A-1555-002-A	SERVO BOARD, COMPLETE	
104	2-626-869-31	SCREW (M2X3), SERRATION		108	2-134-636-71	SCREW (M1.7X2.5)	

SECTION 6
ELECTRICAL PARTS LIST

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
uF: μF

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

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

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

- Abbreviation
AR : Argentina model
EA : Saudi Arabia model
IND : Indian model
MX : Mexican model

Ref. No.	Part No.	Description	Remark
		JACK BOARD *****	
		< FERRITE BEAD >	
FB901	1-414-760-21	INDUCTOR, FERRITE BEAD	
FB902	1-414-760-21	INDUCTOR, FERRITE BEAD	
FB903	1-414-760-21	INDUCTOR, FERRITE BEAD	
		< JACK >	
J901	1-821-687-31	JACK, 3.5 SMALL TYPE (AUX)	

		KEY BOARD *****	
	1-780-789-12	CONDUCTIVE BOARD, CONNECTION	
	4-144-557-01	ILLUMINATOR (LCD)	
		< CAPACITOR >	
C901	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C902	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C903	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C904	1-125-891-11	CERAMIC CHIP 0.47uF 10% 10V	
C906	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C909	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C910	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C911	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C912	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
		< CONNECTOR >	
CN901	1-820-619-11	PLUG, CONNECTOR 20P	
CN902	1-822-798-11	CONNECTOR, USB 6P (USB)	
		< DIODE >	
D901	6-501-817-01	DIODE MA2J1110GLS0	
D902	6-501-730-01	DIODE MAZ8051GMLS0	
D906	6-501-782-01	DIODE MAZ8180GMLS0	
D907	6-501-743-01	DIODE MAZ8068GMLS0	
D908	6-501-743-01	DIODE MAZ8068GMLS0	
D909	6-501-743-01	DIODE MAZ8068GMLS0	
D910	6-501-743-01	DIODE MAZ8068GMLS0	
D911	6-501-743-01	DIODE MAZ8068GMLS0	
D912	6-501-743-01	DIODE MAZ8068GMLS0	
		< IC >	
IC901	6-714-396-01	IC LC75829PWH-US-H	

Ref. No.	Part No.	Description	Remark
IC902	6-600-629-01	IC RS-470 (IR)	
		< COIL >	
L901	1-457-223-11	COIL, COMMON MODE CHOKE	
		< LIQUID CRYSTAL DISPLAY >	
LCD901	1-802-952-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< DIODE >	
LED901	6-501-339-01	LED NESW505CT-AST (LCD BACK LIGHT)	
LED903	6-502-877-01	LED SML-310VTT86TJ (\triangle) (GT490U/GT490US/GT494U)	
LED903	8-719-053-08	LED SML-310DTT86 (\triangle) (GT49UM)	
LED905	6-502-877-01	LED SML-310VTT86TJ (DISC SLOT INDICATOR) (GT490U/GT490US/GT494U)	
LED905	8-719-053-08	LED SML-310DTT86 (DISC SLOT INDICATOR) (GT49UM)	
LED907	6-502-877-01	LED SML-310VTT86TJ (ILLUMINATOR) (GT490U/GT490US/GT494U)	
LED907	8-719-053-08	LED SML-310DTT86 (ILLUMINATOR) (GT49UM)	
LED909	6-502-877-01	LED SML-310VTT86TJ (ILLUMINATOR) (GT490U/GT490US/GT494U)	
LED909	8-719-053-08	LED SML-310DTT86 (ILLUMINATOR) (GT49UM)	
LED910	6-502-877-01	LED SML-310VTT86TJ ($\blacktriangleright\blacktriangleright\blacktriangleright\blacktriangleright$ /SEEK+) (GT490U/GT490US/GT494U)	
LED910	8-719-053-08	LED SML-310DTT86 ($\blacktriangleright\blacktriangleright\blacktriangleright\blacktriangleright$ /SEEK+) (GT49UM)	
LED912	6-502-877-01	LED SML-310VTT86TJ (SEEK - / $\blacktriangleleft\blacktriangleleft\blacktriangleleft\blacktriangleleft$) (GT490U/GT490US/GT494U)	
LED912	8-719-053-08	LED SML-310DTT86 (SEEK - / $\blacktriangleleft\blacktriangleleft\blacktriangleleft\blacktriangleleft$) (GT49UM)	
LED914	6-502-877-01	LED SML-310VTT86TJ (SOURCE/OFF) (GT490U/GT490US/GT494U)	
LED914	8-719-053-08	LED SML-310DTT86 (SOURCE/OFF) (GT49UM)	
LED916	6-502-877-01	LED SML-310VTT86TJ (ZAP) (GT490U/GT490US/GT494U)	
LED916	8-719-053-08	LED SML-310DTT86 (ZAP) (GT49UM)	
LED919	6-502-877-01	LED SML-310VTT86TJ (\blacktriangleright (BACK)) (GT490U/GT490US/GT494U)	
LED919	8-719-053-08	LED SML-310DTT86 (\blacktriangleright (BACK)) (GT49UM)	
LED921	6-502-877-01	LED SML-310VTT86TJ (\circ (BROWSE)) (GT490U/GT490US/GT494U)	
LED921	8-719-053-08	LED SML-310DTT86 (\circ (BROWSE)) (GT49UM)	
LED924	6-502-877-01	LED SML-310VTT86TJ (RING ILLUMINATOR) (GT490U/GT490US/GT494U)	
LED924	8-719-053-08	LED SML-310DTT86 (RING ILLUMINATOR) (GT49UM)	

KEY

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
LED925	6-502-877-01	LED SML-310VTT86TJ (RING ILLUMINATOR) (GT490U/GT490US/GT494U)		R900	1-216-812-11	METAL CHIP 180 5%	1/10W (GT49UM)
LED925	8-719-053-08	LED SML-310DTT86 (RING ILLUMINATOR) (GT49UM)		R904	1-216-857-11	METAL CHIP 1M 5%	1/10W
LED928	6-502-877-01	LED SML-310VTT86TJ (RING ILLUMINATOR) (GT490U/GT490US/GT494U)		R905	1-216-809-11	METAL CHIP 100 5%	1/10W
LED928	8-719-053-08	LED SML-310DTT86 (RING ILLUMINATOR) (GT49UM)		R906	1-216-811-11	METAL CHIP 150 5%	1/10W
LED929	6-502-877-01	LED SML-310VTT86TJ (RING ILLUMINATOR) (GT490U/GT490US/GT494U)		R907	1-216-811-11	METAL CHIP 150 5%	1/10W
LED929	8-719-053-08	LED SML-310DTT86 (RING ILLUMINATOR) (GT49UM)		R908	1-216-813-11	METAL CHIP 220 5%	1/10W
LED932	6-502-877-01	LED SML-310VTT86TJ (ILLUMINATOR) (GT490U/GT490US/GT494U)		R909	1-216-813-11	METAL CHIP 220 5%	1/10W
LED932	8-719-053-08	LED SML-310DTT86 (ILLUMINATOR) (GT49UM)		R910	1-216-813-11	METAL CHIP 220 5%	1/10W
LED934	6-502-877-01	LED SML-310VTT86TJ (ILLUMINATOR) (GT490U/GT490US/GT494U)		R911	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
LED934	8-719-053-08	LED SML-310DTT86 (ILLUMINATOR) (GT49UM)		R914	1-216-864-11	SHORT CHIP 0	
		< SWITCH >		R915	1-216-809-11	METAL CHIP 100 5%	1/10W
LSW905	1-798-282-11	SWITCH, TACTILE (WITH LED) (DSPL/SCRL) (GT49UM)		R916	1-216-809-11	METAL CHIP 100 5%	1/10W
LSW905	1-798-287-11	SWITCH, TACTILE (WITH LED) (DSPL/SCRL) (GT490U/GT490US/GT494U)		R917	1-216-809-11	METAL CHIP 100 5%	1/10W
LSW906	1-798-282-11	SWITCH, TACTILE (WITH LED) (6/PAUSE) (GT49UM)		R918	1-216-864-11	SHORT CHIP 0	
LSW906	1-798-287-11	SWITCH, TACTILE (WITH LED) (6/PAUSE) (GT490U/GT490US/GT494U)		R919	1-216-864-11	SHORT CHIP 0	
LSW907	1-798-282-11	SWITCH, TACTILE (WITH LED) (5/DM+) (GT49UM)		R920	1-216-820-11	METAL CHIP 820 5%	1/10W
LSW907	1-798-287-11	SWITCH, TACTILE (WITH LED) (5/DM+) (GT490U/GT490US/GT494U)		R921	1-216-821-11	METAL CHIP 1K 5%	1/10W
LSW908	1-798-282-11	SWITCH, TACTILE (WITH LED) (4/SHUF) (GT49UM)		R922	1-216-821-11	METAL CHIP 1K 5%	1/10W
LSW908	1-798-287-11	SWITCH, TACTILE (WITH LED) (4/SHUF) (GT490U/GT490US/GT494U)		R923	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
LSW909	1-798-282-11	SWITCH, TACTILE (WITH LED) (3/REP) (GT49UM)		R924	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
LSW909	1-798-287-11	SWITCH, TACTILE (WITH LED) (3/REP) (GT490U/GT490US/GT494U)		R925	1-216-824-11	METAL CHIP 1.8K 5%	1/10W
LSW910	1-798-282-11	SWITCH, TACTILE (WITH LED) (2/ALBM +) (GT49UM)		R926	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
LSW910	1-798-287-11	SWITCH, TACTILE (WITH LED) (2/ALBM +) (GT490U/GT490US/GT494U)		R928	1-216-820-11	METAL CHIP 820 5%	1/10W
LSW911	1-798-282-11	SWITCH, TACTILE (WITH LED) (1/ALBM -) (GT49UM)		R929	1-216-821-11	METAL CHIP 1K 5%	1/10W
LSW911	1-798-287-11	SWITCH, TACTILE (WITH LED) (1/ALBM -) (GT490U/GT490US/GT494U)		R930	1-216-821-11	METAL CHIP 1K 5%	1/10W
LSW912	1-798-282-11	SWITCH, TACTILE (WITH LED) (PTY) (GT49UM)		R931	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
LSW912	1-798-287-11	SWITCH, TACTILE (WITH LED) (PTY) (GT490U/GT490US/GT494U)		R932	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
LSW913	1-798-282-11	SWITCH, TACTILE (WITH LED) (MODE) (GT49UM)		R933	1-216-824-11	METAL CHIP 1.8K 5%	1/10W
LSW913	1-798-287-11	SWITCH, TACTILE (WITH LED) (MODE) (GT490U/GT490US/GT494U)		R934	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
		< TRANSISTOR >		R935	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q901	8-729-027-44	TRANSISTOR DTC114TKA-T146		R942	1-216-813-11	METAL CHIP 220 5%	1/10W (GT49UM)
Q907	8-729-027-44	TRANSISTOR DTC114TKA-T146		R942	1-216-814-11	METAL CHIP 270 5%	1/10W (GT490U/GT490US/GT494U)
		< RESISTOR >		R943	1-216-809-11	METAL CHIP 100 5%	1/10W (GT490U/GT490US/GT494U)
R899	1-216-813-11	METAL CHIP 220 5%	1/10W (GT49UM)	R943	1-216-812-11	METAL CHIP 180 5%	1/10W (GT49UM)
R899	1-216-814-11	METAL CHIP 270 5%	1/10W (GT490U/GT490US/GT494U)	R945	1-216-797-11	METAL CHIP 10 5%	1/10W
R900	1-216-809-11	METAL CHIP 100 5%	1/10W (GT490U/GT490US/GT494U)	R946	1-216-797-11	METAL CHIP 10 5%	1/10W
				R948	1-216-813-11	METAL CHIP 220 5%	1/10W (GT49UM)
				R948	1-216-814-11	METAL CHIP 270 5%	1/10W (GT490U/GT490US/GT494U)
				R949	1-216-809-11	METAL CHIP 100 5%	1/10W (GT490U/GT490US/GT494U)
				R949	1-216-812-11	METAL CHIP 180 5%	1/10W (GT49UM)
				R952	1-216-813-11	METAL CHIP 220 5%	1/10W (GT49UM)
				R952	1-216-814-11	METAL CHIP 270 5%	1/10W (GT490U/GT490US/GT494U)
				R953	1-216-809-11	METAL CHIP 100 5%	1/10W (GT490U/GT490US/GT494U)
				R953	1-216-812-11	METAL CHIP 180 5%	1/10W (GT49UM)
				R958	1-216-813-11	METAL CHIP 220 5%	1/10W (GT49UM)
				R958	1-216-814-11	METAL CHIP 270 5%	1/10W (GT490U/GT490US/GT494U)
				R959	1-216-809-11	METAL CHIP 100 5%	1/10W (GT490U/GT490US/GT494U)

CDX-GT49UM/GT490U/GT490US/GT494U

KEY MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R959	1-216-812-11	METAL CHIP	180 5% 1/10W (GT49UM)	C24	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R962	1-216-811-11	METAL CHIP	150 5% 1/10W	C25	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R963	1-216-811-11	METAL CHIP	150 5% 1/10W	C26	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R966	1-216-811-11	METAL CHIP	150 5% 1/10W	C27	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R967	1-216-811-11	METAL CHIP	150 5% 1/10W	C28	1-126-947-11	ELECT	47uF 20% 35V
R970	1-216-811-11	METAL CHIP	150 5% 1/10W	C101	1-164-739-11	CERAMIC CHIP	560PF 5% 50V
R971	1-216-811-11	METAL CHIP	150 5% 1/10W	C103	1-126-961-11	ELECT	2.2uF 20% 50V
R974	1-216-814-11	METAL CHIP	270 5% 1/10W	C104	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
R975	1-216-814-11	METAL CHIP	270 5% 1/10W	C105	1-126-960-11	ELECT	1uF 20% 50V
R976	1-216-814-11	METAL CHIP	270 5% 1/10W	C106	1-126-964-11	ELECT	10uF 20% 50V
R977	1-216-814-11	METAL CHIP	270 5% 1/10W	C107	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
R983	1-216-814-11	METAL CHIP	270 5% 1/10W	C108	1-126-964-11	ELECT	10uF 20% 50V
R984	1-216-813-11	METAL CHIP	220 5% 1/10W	C109	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
R985	1-216-813-11	METAL CHIP	220 5% 1/10W	C110	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
R989	1-216-811-11	METAL CHIP	150 5% 1/10W	C111	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
R990	1-216-812-11	METAL CHIP	180 5% 1/10W	C112	1-126-964-11	ELECT	10uF 20% 50V
R991	1-216-812-11	METAL CHIP	180 5% 1/10W	C113	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
R998	1-216-864-11	SHORT CHIP	0	C114	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
R999	1-216-295-91	SHORT CHIP	0	C115	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
		< ROTARY ENCODER >		C116	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
RE901	1-479-902-32	ENCODER, ROTARY (PUSH ENTER/SELECT (VOLUME))		C201	1-164-739-11	CERAMIC CHIP	560PF 5% 50V
		< SWITCH >		C203	1-126-961-11	ELECT	2.2uF 20% 50V
S901	1-798-284-11	SWITCH, TACTILE (▲)		C204	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
S902	1-798-284-11	SWITCH, TACTILE (SOURCE/OFF)		C205	1-126-960-11	ELECT	1uF 20% 50V
S903	1-798-284-11	SWITCH, TACTILE (▶▶▶▶/SEEK+)		C206	1-126-964-11	ELECT	10uF 20% 50V
S904	1-798-284-11	SWITCH, TACTILE (↵ (BACK))		C207	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
S905	1-798-284-11	SWITCH, TACTILE (SEEK -/◀◀◀)		C208	1-126-964-11	ELECT	10uF 20% 50V
S906	1-798-284-11	SWITCH, TACTILE (Q (BROWSE))		C209	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
S907	1-798-284-11	SWITCH, TACTILE (ZAP)		C210	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
		< VARISTOR >		C211	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
VDR900	1-804-988-21	VARISTOR, CHIP (1608)		C212	1-126-964-11	ELECT	10uF 20% 50V
VDR901	1-804-988-21	VARISTOR, CHIP (1608)		C213	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
*****				C214	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
A-1733-610-A	MAIN BOARD, COMPLETE (EXCEPT EA)			C215	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
A-1733-611-A	MAIN BOARD, COMPLETE (EA)			C216	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
*****				C301	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			C302	1-162-923-11	CERAMIC CHIP	47PF 5% 50V
7-685-794-09	SCREW +PTT 2.6X10 (S)			C303	1-128-551-11	ELECT	22uF 20% 63V
		< CAPACITOR >		C304	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V
C1	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C305	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V
C5	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C306	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C6	1-162-917-11	CERAMIC CHIP	15PF 5% 50V	C307	1-124-589-11	ELECT	47uF 20% 16V
C8	1-162-921-11	CERAMIC CHIP	33PF 5% 50V	C308	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C9	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C309	1-124-233-11	ELECT	10uF 20% 16V
C12	1-127-715-11	CERAMIC CHIP	0.22uF 10% 16V	C311	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C13	1-100-742-91	CERAMIC CHIP	2.2uF 20% 10V	C312	1-124-233-11	ELECT	10uF 20% 16V
C16	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V	C313	1-124-233-11	ELECT	10uF 20% 16V
C17	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C314	1-162-923-11	CERAMIC CHIP	47PF 5% 50V
C18	1-162-916-11	CERAMIC CHIP	12PF 5% 50V	C315	1-125-889-11	CERAMIC CHIP	2.2uF 10% 10V
C19	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C316	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C20	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C317	1-126-934-11	ELECT	220uF 20% 16V
C21	1-165-908-11	CERAMIC CHIP	1uF 10% 10V	C318	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C22	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C319	1-126-964-11	ELECT	10uF 20% 50V
C23	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C322	1-126-947-11	ELECT	47uF 20% 35V
				C323	1-126-961-11	ELECT	2.2uF 20% 50V
				C401	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
				C402	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
				C403	1-128-057-11	ELECT	330uF 20% 6.3V
				C404	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V
				C405	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C406	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C815	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C407	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			< CONNECTOR >			
C409	1-126-926-11	ELECT	1000uF	20%	10V						
C411	1-126-924-11	ELECT	330uF	20%	10V						
C413	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	* CN401	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
						CN403	1-820-622-21	SOCKET, CONNECTOR 20P			
C416	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN501	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
C417	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN701	1-820-611-11	CONNECTOR, BOARD TO BOARD 28P			
C418	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN802	1-774-701-21	PIN, CONNECTOR 16P			
C419	1-162-920-11	CERAMIC CHIP	27PF	5%	50V			< DIODE >			
C420	1-162-921-11	CERAMIC CHIP	33PF	5%	50V						
C421	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D101	1-805-043-11	ABSORBER, CHIP SURGE			
C422	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	D104	6-502-643-01	DIODE 1A4-A2			
C423	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D105	6-502-643-01	DIODE 1A4-A2			
C424	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D201	1-805-043-11	ABSORBER, CHIP SURGE			
C425	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D204	6-502-643-01	DIODE 1A4-A2			
C426	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D205	6-502-643-01	DIODE 1A4-A2			
C427	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D301	8-719-978-33	DIODE DTZ-TT11-6.8B			
C428	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D302	6-502-643-01	DIODE 1A4-A2			
C429	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D303	6-502-643-01	DIODE 1A4-A2			
C433	1-124-589-11	ELECT	47uF	20%	16V	D304	6-502-643-01	DIODE 1A4-A2			
C434	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D305	6-502-643-01	DIODE 1A4-A2			
C435	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D306	6-501-817-01	DIODE MA2J1110GLS0			
C436	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D308	6-501-817-01	DIODE MA2J1110GLS0			
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D309	6-501-817-01	DIODE MA2J1110GLS0			
C502	1-165-727-31	ELECT	120uF	20%	16V	D401	6-502-131-01	DIODE LRB751V-40T1G			
C503	1-100-352-91	CERAMIC CHIP	1uF	20%	16V	D403	6-501-743-01	DIODE MAZ8068GMLS0			
C504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D404	6-501-743-01	DIODE MAZ8068GMLS0			
C505	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	D410	6-501-743-01	DIODE MAZ8068GMLS0			
C506	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	D411	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V	
C507	1-100-352-91	CERAMIC CHIP	1uF	20%	16V	D502	6-501-817-01	DIODE MA2J1110GLS0			
C508	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	D503	6-501-768-01	DIODE MAZ8120GMLS0			
C509	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	D504	6-501-657-01	DIODE MA24D5000BS0			
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D505	6-501-734-01	DIODE MAZ8056GMLS0			
C514	1-126-924-11	ELECT	330uF	20%	10V	D510	6-501-718-01	DIODE MAZ8039GLLS0			
C515	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	D511	6-501-817-01	DIODE MA2J1110GLS0			
C516	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D512	6-501-817-01	DIODE MA2J1110GLS0			
C517	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D701	6-501-656-01	DIODE LBAT54ALT1G			
C518	1-126-934-11	ELECT	220uF	20%	16V	D806	6-501-747-01	DIODE MAZ8075GMLS0			
C519	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	D807	6-501-782-01	DIODE MAZ8180GMLS0			
C520	1-124-584-00	ELECT	100uF	20%	10V	D809	6-501-782-01	DIODE MAZ8180GMLS0			
C521	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	D810	6-501-782-01	DIODE MAZ8180GMLS0			
C523	1-104-665-11	ELECT	100uF	20%	25V	D811	6-501-782-01	DIODE MAZ8180GMLS0			
C524	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D812	6-501-571-01	DIODE 1N5404-C311-3			
C701	1-124-584-00	ELECT	100uF	20%	10V			< FUSE >			
C702	1-124-234-00	ELECT	22uF	20%	16V						
C703	1-124-233-11	ELECT	10uF	20%	16V	F501	1-576-416-21	FUSE, MICRO (1608) 2A			
C704	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			< FERRITE BEAD >			
C705	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C706	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	FB101	1-400-334-21	FERRITE, EMI (SMD) (1608)			
C707	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	FB201	1-400-334-21	FERRITE, EMI (SMD) (1608)			
C803	1-100-385-91	CERAMIC CHIP	0.47uF		25V	FB301	1-469-876-11	INDUCTOR, FERRITE BEAD			
C804	1-100-385-91	CERAMIC CHIP	0.47uF		25V	FB701	1-469-844-11	INDUCTOR 2.2uH			
C805	1-163-009-91	CERAMIC CHIP	0.001uF	10%	50V	FB702	1-414-595-11	INDUCTOR, FERRITE BEAD			
C806	1-163-009-91	CERAMIC CHIP	0.001uF	10%	50V						
C807	1-112-302-11	ELECT	3300uF	20%	16V	FB705	1-414-228-11	INDUCTOR, FERRITE BEAD			
C808	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	FB707	1-414-228-11	INDUCTOR, FERRITE BEAD			
C810	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V			< IC >			
C811	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	IC001	6-714-162-01	IC TEF6617T/V1/S470,518			
C812	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	IC301	6-705-359-02	IC TDA8588A/J/N2/R1			
C813	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	IC302	6-713-080-11	IC BD3447AFV-E2			

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC401	6-808-763-02	IC MB90F882PF-G-111E1				< TRANSISTOR >	
IC402	6-702-302-01	IC TK11133CSCL-G					
IC403	6-712-776-01	IC PST8228UL					
IC501	6-710-965-01	IC TPS40200DRG4		Q102	6-551-856-01	TRANSISTOR LTC614TKFP8T146	
IC502	8-759-586-19	IC TC7WH123FU(TE12R)		Q103	8-729-027-44	TRANSISTOR DTC114TKA-T146	
IC503	6-709-213-01	IC NJM2387ADL3(TE2)		Q104	6-551-856-01	TRANSISTOR LTC614TKFP8T146	
		< JACK >		Q202	6-551-856-01	TRANSISTOR LTC614TKFP8T146	
J1	1-815-185-13	JACK (ANTENNA)		Q203	8-729-027-44	TRANSISTOR DTC114TKA-T146	
J302	1-774-699-42	JACK, PIN 4P (REAR/SUB AUDIO OUT, FRONT AUDIO OUT)		Q204	6-551-856-01	TRANSISTOR LTC614TKFP8T146	
J801	1-566-822-81	JACK (REMOTE IN)		Q303	8-729-027-43	TRANSISTOR DTC114EKA-T146	
		< JUMPER RESISTOR >		Q304	8-729-027-23	TRANSISTOR DTA114EKA-T146	
JC101	1-216-295-91	SHORT CHIP	0	Q305	8-729-027-23	TRANSISTOR DTA114EKA-T146	
JC102	1-216-296-11	SHORT CHIP	0	Q401	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JC103	1-216-296-11	SHORT CHIP	0	Q402	8-729-027-23	TRANSISTOR DTA114EKA-T146	
JC104	1-216-296-11	SHORT CHIP	0	Q501	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JC105	1-216-295-91	SHORT CHIP	0	Q502	6-551-923-01	FET TPC6108(T5RSONYF,M	
JC106	1-216-864-11	SHORT CHIP	0	Q503	6-550-828-01	FET RSQ035P03TR	
JC107	1-216-295-91	SHORT CHIP	0	Q504	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JC108	1-216-864-11	SHORT CHIP	0	Q505	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JC109	1-216-864-11	SHORT CHIP	0	Q701	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JC110	1-216-864-11	SHORT CHIP	0	Q802	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JC111	1-216-182-00	METAL CHIP	220 5% 1/8W	Q805	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
JC112	1-216-182-00	METAL CHIP	220 5% 1/8W	Q807	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JC113	1-216-296-11	SHORT CHIP	0	Q808	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
JC114	1-216-296-11	SHORT CHIP	0			< RESISTOR >	
JC115	1-216-864-11	SHORT CHIP	0	R1	1-216-853-11	METAL CHIP 470K 5% 1/10W	
JC116	1-216-296-11	SHORT CHIP	0	R2	1-216-853-11	METAL CHIP 470K 5% 1/10W	
JC117	1-216-295-91	SHORT CHIP	0	R3	1-216-864-11	SHORT CHIP 0	
JC118	1-216-295-91	SHORT CHIP	0	R4	1-216-864-11	SHORT CHIP 0	
JC119	1-216-296-11	SHORT CHIP	0	R5	1-216-864-11	SHORT CHIP 0	
JC120	1-216-296-11	SHORT CHIP	0	R6	1-216-843-11	METAL CHIP 68K 5% 1/10W	
JC121	1-216-295-91	SHORT CHIP	0	R10	1-216-839-11	METAL CHIP 33K 5% 1/10W	
JC122	1-216-295-91	SHORT CHIP	0	R11	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
JC123	1-216-296-11	SHORT CHIP	0	R12	1-216-009-91	METAL CHIP 22 5% 1/10W	
JC124	1-216-296-11	SHORT CHIP	0	R13	1-216-809-11	METAL CHIP 100 5% 1/10W	
JC125	1-216-864-11	SHORT CHIP	0	R14	1-216-809-11	METAL CHIP 100 5% 1/10W	
JC126	1-216-295-91	SHORT CHIP	0	R15	1-216-864-11	SHORT CHIP 0	
JC127	1-216-295-91	SHORT CHIP	0	R16	1-216-864-11	SHORT CHIP 0	
JC128	1-216-295-91	SHORT CHIP	0	R101	1-216-821-11	METAL CHIP 1K 5% 1/10W	
JC129	1-216-295-91	SHORT CHIP	0	R103	1-216-817-11	METAL CHIP 470 5% 1/10W	
JC130	1-216-864-11	SHORT CHIP	0	R104	1-216-834-11	METAL CHIP 12K 5% 1/10W	
JC131	1-216-296-11	SHORT CHIP	0	R106	1-216-813-11	METAL CHIP 220 5% 1/10W	
JC132	1-216-296-11	SHORT CHIP	0	R107	1-216-833-11	METAL CHIP 10K 5% 1/10W	
JC133	1-216-296-11	SHORT CHIP	0	R112	1-216-821-11	METAL CHIP 1K 5% 1/10W	
		< COIL >		R113	1-216-833-11	METAL CHIP 10K 5% 1/10W	
L1	1-414-180-51	INDUCTOR	3.3uH	R116	1-216-813-11	METAL CHIP 220 5% 1/10W	
L2	1-410-501-61	INDUCTOR	2.2uH	R117	1-216-833-11	METAL CHIP 10K 5% 1/10W	
L6	1-457-817-11	COIL (FM MIX)		R201	1-216-821-11	METAL CHIP 1K 5% 1/10W	
L7	1-481-285-51	INDUCTOR	560uH	R203	1-216-817-11	METAL CHIP 470 5% 1/10W	
L8	1-481-285-51	INDUCTOR	560uH	R204	1-216-834-11	METAL CHIP 12K 5% 1/10W	
L301	1-469-844-11	INDUCTOR	2.2uH	R206	1-216-813-11	METAL CHIP 220 5% 1/10W	
L501	1-411-595-21	COIL, CHOKE	47uH	R207	1-216-833-11	METAL CHIP 10K 5% 1/10W	
L502	1-406-718-21	COIL, CHOKE	68uH	R212	1-216-821-11	METAL CHIP 1K 5% 1/10W	
L503	1-412-525-31	INDUCTOR	10uH	R213	1-216-833-11	METAL CHIP 10K 5% 1/10W	
L801	1-456-617-11	COIL, CHOKE		R216	1-216-813-11	METAL CHIP 220 5% 1/10W	
				R217	1-216-833-11	METAL CHIP 10K 5% 1/10W	
				R302	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
				R303	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
				R304	1-216-295-91	SHORT CHIP 0	
				R306	1-216-841-11	METAL CHIP 47K 5% 1/10W	

Ref. No.	Part No.	Description	Quantity	Percentage	Remark	Ref. No.	Part No.	Description	Quantity	Percentage	Remark
R308	1-216-811-11	METAL CHIP	150	5%	1/10W	R468	1-216-845-11	METAL CHIP	100K	5%	1/10W
R309	1-216-797-11	METAL CHIP	10	5%	1/10W	R501	1-216-842-11	METAL CHIP	56K	5%	1/10W
R311	1-216-841-11	METAL CHIP	47K	5%	1/10W	R502	1-216-842-11	METAL CHIP	56K	5%	1/10W
R313	1-216-801-11	METAL CHIP	22	5%	1/10W	R503	1-216-834-11	METAL CHIP	12K	5%	1/10W
R401	1-216-845-11	METAL CHIP	100K	5%	1/10W	R504	1-216-843-11	METAL CHIP	68K	5%	1/10W
R402	1-216-845-11	METAL CHIP	100K	5%	1/10W	R505	1-216-821-11	METAL CHIP	1K	5%	1/10W
R404	1-216-864-11	SHORT CHIP	0			R508	1-216-296-11	SHORT CHIP	0		
R405	1-216-849-11	METAL CHIP	220K	5%	1/10W	R510	1-216-845-11	METAL CHIP	100K	5%	1/10W
R406	1-216-845-11	METAL CHIP	100K	5%	1/10W	R511	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R407	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R512	1-216-864-11	SHORT CHIP	0		
R408	1-216-845-11	METAL CHIP	100K	5%	1/10W	R513	1-216-833-11	METAL CHIP	10K	5%	1/10W
R409	1-216-809-11	METAL CHIP	100	5%	1/10W	R514	1-216-851-11	METAL CHIP	330K	5%	1/10W
R410	1-216-817-11	METAL CHIP	470	5%	1/10W	R515	1-216-833-11	METAL CHIP	10K	5%	1/10W
R411	1-216-845-11	METAL CHIP	100K	5%	1/10W	R516	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R414	1-216-845-11	METAL CHIP	100K	5%	1/10W	R517	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R416	1-216-845-11	METAL CHIP	100K	5%	1/10W	R518	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R418	1-216-845-11	METAL CHIP	100K	5%	1/10W	R519	1-216-821-11	METAL CHIP	1K	5%	1/10W
R419	1-216-845-11	METAL CHIP	100K	5%	1/10W	R520	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R420	1-216-809-11	METAL CHIP	100	5%	1/10W	R521	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R421	1-216-833-11	METAL CHIP	10K	5%	1/10W	R523	1-216-821-11	METAL CHIP	1K	5%	1/10W
R422	1-216-809-11	METAL CHIP	100	5%	1/10W	R524	1-216-821-11	METAL CHIP	1K	5%	1/10W
R423	1-216-809-11	METAL CHIP	100	5%	1/10W	R525	1-216-821-11	METAL CHIP	1K	5%	1/10W
R424	1-216-833-11	METAL CHIP	10K	5%	1/10W	R526	1-216-797-11	METAL CHIP	10	5%	1/10W
R426	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R527	1-216-797-11	METAL CHIP	10	5%	1/10W
R427	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R600	1-216-845-11	METAL CHIP	100K	5%	1/10W
R428	1-216-845-11	METAL CHIP	100K	5%	1/10W	R701	1-216-864-11	SHORT CHIP	0		
R430	1-216-845-11	METAL CHIP	100K	5%	1/10W	R703	1-216-845-11	METAL CHIP	100K	5%	1/10W
R431	1-216-845-11	METAL CHIP	100K	5%	1/10W	R704	1-216-864-11	SHORT CHIP	0		
R432	1-216-845-11	METAL CHIP	100K	5%	1/10W	R706	1-216-809-11	METAL CHIP	100	5%	1/10W
R433	1-216-845-11	METAL CHIP	100K	5%	1/10W	R707	1-216-809-11	METAL CHIP	100	5%	1/10W
R434	1-216-845-11	METAL CHIP	100K	5%	1/10W	R709	1-216-809-11	METAL CHIP	100	5%	1/10W
R435	1-216-809-11	METAL CHIP	100	5%	1/10W	R710	1-216-845-11	METAL CHIP	100K	5%	1/10W
R436	1-216-809-11	METAL CHIP	100	5%	1/10W	R712	1-216-864-11	SHORT CHIP	0		
R437	1-216-809-11	METAL CHIP	100	5%	1/10W	R713	1-216-845-11	METAL CHIP	100K	5%	1/10W
R438	1-216-809-11	METAL CHIP	100	5%	1/10W	R714	1-216-864-11	SHORT CHIP	0		
R439	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R717	1-216-864-11	SHORT CHIP	0		
R440	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R801	1-216-864-11	SHORT CHIP	0		
R441	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R802	1-216-864-11	SHORT CHIP	0		
R442	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R815	1-216-821-11	METAL CHIP	1K	5%	1/10W
R443	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R816	1-216-821-11	METAL CHIP	1K	5%	1/10W
R444	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R817	1-216-841-11	METAL CHIP	47K	5%	1/10W
R445	1-216-845-11	METAL CHIP	100K	5%	1/10W	R818	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R446	1-216-845-11	METAL CHIP	100K	5%	1/10W	R819	1-216-841-11	METAL CHIP	47K	5%	1/10W
R447	1-216-845-11	METAL CHIP	100K	5%	1/10W	R823	1-249-425-11	CARBON	4.7K	5%	1/4W
R448	1-216-845-11	METAL CHIP	100K	5%	1/10W	R825	1-216-864-11	SHORT CHIP	0		
R450	1-216-845-11	METAL CHIP	100K	5%	1/10W	R826	1-216-864-11	SHORT CHIP	0		
R452	1-216-845-11	METAL CHIP	100K	5%	1/10W	R827	1-216-849-11	METAL CHIP	220K	5%	1/10W
R454	1-216-845-11	METAL CHIP	100K	5%	1/10W	R829	1-216-864-11	SHORT CHIP	0		
R455	1-216-809-11	METAL CHIP	100	5%	1/10W	R830	1-216-864-11	SHORT CHIP	0		
R456	1-216-833-11	METAL CHIP	10K	5%	1/10W	R832	1-216-833-11	METAL CHIP	10K	5%	1/10W
R459	1-216-809-11	METAL CHIP	100	5%	1/10W			< SWITCH >			
R460	1-216-809-11	METAL CHIP	100	5%	1/10W	S401	1-786-826-11	SWITCH, TACTILE (RESET)			
R461	1-216-809-11	METAL CHIP	100	5%	1/10W	S402	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT)			(EXCEPT EA)
R462	1-216-809-11	METAL CHIP	100	5%	1/10W			< SURGE ABSORBER >			
R463	1-216-809-11	METAL CHIP	100	5%	1/10W	VR1	1-805-043-11	ABSORBER, CHIP SURGE			
R464	1-216-809-11	METAL CHIP	100	5%	1/10W						
R465	1-216-864-11	SHORT CHIP	0								
R466	1-216-864-11	SHORT CHIP	0								
R467	1-216-864-11	SHORT CHIP	0								

CDX-GT49UM/GT490U/GT490US/GT494U

Ver. 1.1

MAIN **SERVO**

Ref. No.	Part No.	Description	Remark
		< VIBRATOR >	
X1	1-814-300-11	QUARTZ CRYSTAL UNIT (4MHz)	
X401	1-814-207-21	VIBRATOR, CERAMIC (7.92MHz)	
X402	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)	

	A-1555-002-A	SERVO BOARD, COMPLETE	

		MISCELLANEOUS	

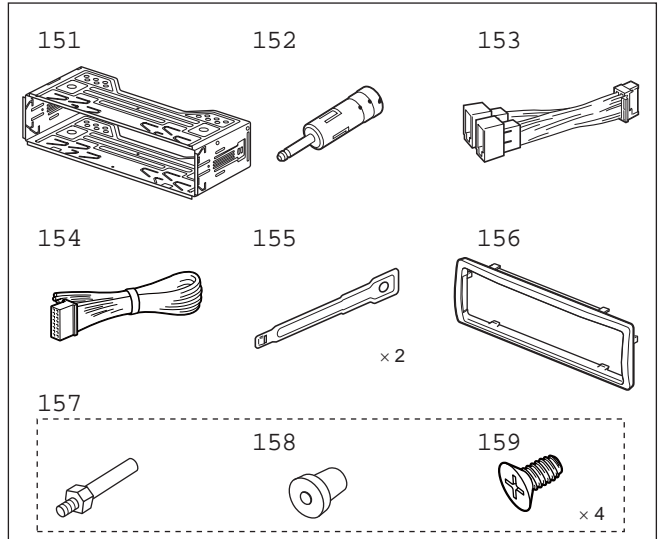
6	1-776-527-11	CORD (WITH CONNECTOR) (ISO) (POWER) (GT490US:AR)	
6	1-833-762-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (for Maruti Suzuki:Gasoline Car) (GT49UM)	
6	1-833-974-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (GT490U/GT490US:E,EA,MX/494U)	
6	1-834-307-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (for Maruti Suzuki:Diesel Car) (GT49UM)	
△ 103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)	
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	

		ACCESSORIES	

	1-479-077-14	REMOTE COMMANDER (RM-X151)	
	2-548-729-01	LID, BATTERY CASE (for RM-X151)	
	4-152-752-41	MANUAL, INSTRUCTION (ENGLISH,SPANISH) (EXCEPT EA)	
	4-152-752-51	MANUAL, INSTRUCTION (ENGLISH,ARABIC, PERSIAN) (EA)	
	4-152-753-41	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH) (E,IND,MX)	
	4-152-753-51	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH) (AR)	
	4-152-753-61	MANUAL, INSTRUCTION, INSTALL (ENGLISH, ARABIC,PERSIAN) (EA)	
	X-2187-544-2	CASE ASSY (for FRONT PANEL)	

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	

151	X-2179-431-2	FRAME ASSY, FITTING	
152	1-465-459-31	ADAPTOR, ANTENNA (GT490US:AR)	
153	1-776-527-11	CORD (WITH CONNECTOR) (ISO) (POWER) (GT490US:AR)	
154	1-833-762-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (for Maruti Suzuki:Gasoline Car) (GT49UM)	
154	1-833-974-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (GT490U/GT490US:E,EA,MX/T494U)	
154	1-834-307-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (for Maruti Suzuki:Diesel Car) (GT49UM)	
155	3-876-675-01	KEY (FRAME)	
156	3-255-785-02	COLLAR (1DIN) (GT49UM)	
156	4-144-560-01	COLLAR	
157	X-3381-154-1	SCREW ASSY (BS4), FITTING	
158	3-349-410-11	BUSHING	
159	3-934-325-01	SCREW, +K (5X8) TAPPING	



MEMO

