# DSX-S100

# SERVICE MANUAL

**Ver. 1.0 2010.04**

*US Model*
*Canadian Model*
*AEP Model*
*UK Model*
*E Model*

- This model is not equipped with a mechanism deck.

## SPECIFICATIONS

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

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

### AUDIO POWER SPECIFICATIONS (US, Canadian only)

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

### Tuner section (US, Canadian)

**FM**

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

**AM**

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

### Tuner section (AEP, Russian, UK)

**FM**

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

**MW/LW**

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

### Tuner section (E, Indian)

**FM**

**Tuning range:**
87.5 – 108.0 MHz (at 50 kHz step)
87.5 – 107.9 MHz (at 200 kHz step)
**FM tuning interval:** 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:**
531 – 1,602 kHz (at 9 kHz step)
530 – 1,710 kHz (at 10 kHz step)
**AM tuning interval:** 9 kHz/10 kHz switchable
**Antenna (aerial) terminal:**
External antenna (aerial) connector
**Intermediate frequency:** 25 kHz
**Sensitivity:** 26 µV

### USB Player section

**Interface:** USB (Full-speed)
**Maximum current:** 500 mA

### Power amplifier section

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

### General

**Outputs:**
Audio outputs terminal (front, sub/rear switchable)
Power antenna (aerial) relay control terminal
Power amplifier control terminal
**Inputs:**
BUS control input terminal (US, Canadian)
BUS audio input terminal (US, Canadian)
Remote controller input terminal
Antenna (aerial) input terminal
Telephone ATT control terminal
Illumination control terminal
AUX input jack (stereo mini jack)
USB signal input connector

**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 (earth))
**Dimensions:** Approx. 178 × 50 × 180 mm
(7 1/8 × 2 × 7 1/8 in) (w/h/d)
**Mounting dimensions:** Approx. 182 × 53 × 163 mm
(7 1/4 × 2 1/8 × 6 1/2 in) (w/h/d)
**Mass:** Approx. 1.0 kg (2 lb 4 oz)
**Supplied accessories:**
Card remote commander: RM-X151
(US, Canadian, E, Indian)
USB connector for iPod XA-50IP
Parts for installation and connections (1 set)

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

*Design and specifications are subject to change without notice.*

## US, Canadian, E and Indian models
## FM/AM DIGITAL MEDIA PLAYER
## AEP, Russian and UK models
## FM/MW/LW DIGITAL MEDIA PLAYER

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**Audio&Video Business Group**
**Published by Sony Techno Create Corporation**

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### 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.

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

# SECTION 1
# SERVICING NOTES

### UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size)

### : LEAD FREE MARK

Unleaded solder has the following characteristics.

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

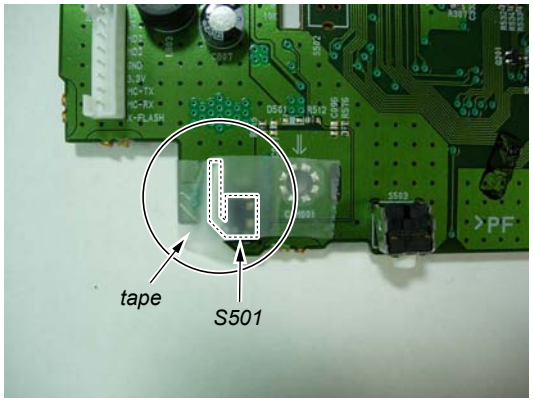
### NOTE FOR THE 16-PIN CONNECTOR (CN901)

Do not use alcohol to clean the 16-pin connector (CN901) connecting the front panel with the main body.
Do not touch the connector directly with your bare hand. Poor contact may be caused.

### NOTE FOR CHECKING THE MAIN BOARD

If removing the MAIN board from the chassis to check it separately without attaching the front panel, hold the detach detection switch (S501) ON by using tape or the like, and then start operations.

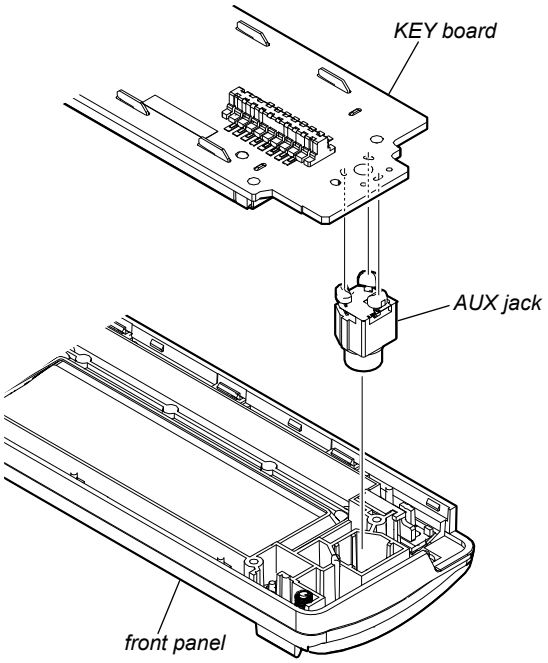
**– MAIN board (component side) –**




### NOTE FOR REPLACEMENT OF THE AUX JACK (J901)

To replace the AUX jack requires alignment.

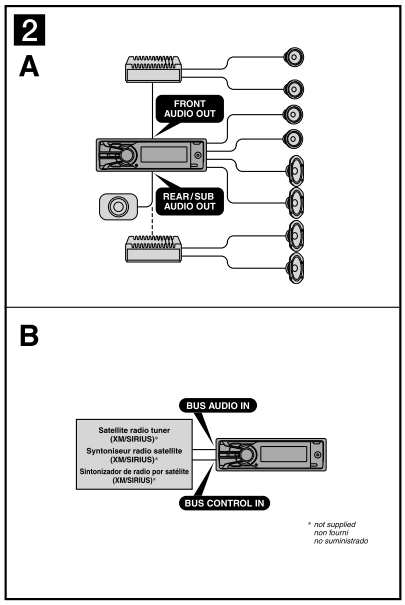
1. Insert the AUX jack into the front panel.
2. Place the KEY board on the front panel and align the terminals of the AUX jack with the holes in the KEY board.
3. Solder the three terminals of the jack.

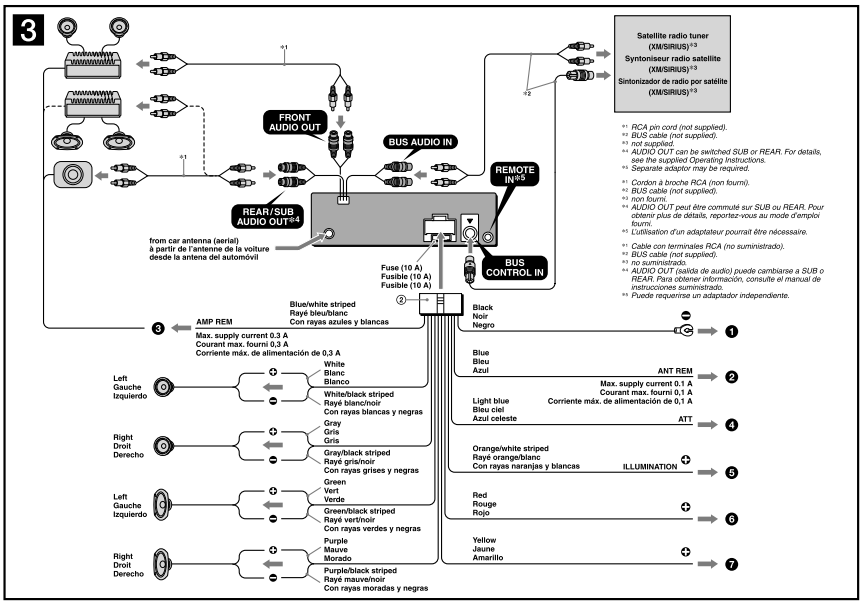


# SECTION 2
# GENERAL

This section is extracted from instruction manual.

## (US and Canadian models)




## Cautions

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

**Notes on the power supply lead (yellow)**

- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

## Connection example 2

***Notes* (2-A)**

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

**Notes on satellite radio tuner (2-B)**

This unit does not support the XM radio tuner XMDSON100.

## 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 supply leads.*

**❷ To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster**
***Notes***
- *If 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."*

**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 interface cable of a car telephone**

**❺ To a car's illumination signal**
*Be sure to connect the black ground (earth) lead to a metal surface of the car first.*

**❻ To the +12 V power terminal which is energized in the accessory position of the ignition switch**
***Notes***
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times. Be sure to connect the black ground (earth) lead to a metal surface of the car first.*
- *When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

**❼ To the +12 V power terminal which is energized at all times**
*Be sure to connect the black ground (earth) lead to a metal surface of the car first.*

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

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

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

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

## Précautions

- Cet appareil est exclusivement conçu pour fonctionner sur une tension de 12 V CC avec masse négative.
- Évitez de fixer des vis sur les câbles ou de coincer ceux-ci dans des pièces mobiles (par exemple, armature de siège).
- Avant d'effectuer les raccordements, coupez le moteur pour éviter un court-circuit.
- Raccordez les câbles d'alimentation **jaune** et **rouge** seulement après avoir terminé tous les autres raccordements.
- **Rassemblez tous les câbles de mise à la masse en un point de masse commun.**
- Pour des raisons de sécurité, veillez à isoler avec du ruban isolant tout câble libre non raccordé.
- L'utilisation d'instruments optiques avec ce produit augmente les risques pour les yeux.

**Remarques sur le câble d'alimentation (jaune)**

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

## Exemple de raccordement 2

***Remarques* (2-A)**

- *Raccordez d'abord le câble de mise à la masse avant de raccorder l'amplificateur.*
- *L'alarme est émise uniquement lorsque l'amplificateur intégré est utilisé.*

**Remarques sur le syntoniseur radio satellite (2-B)**

Cet appareil n'est pas compatible avec le syntoniseur radio XM XMDSON100.

## Schéma de raccordement 3

**❶ À un point métallique de la voiture**
*Branchez d'abord le câble de mise à la masse noir et, ensuite, les câbles d'entrée d'alimentation jaune et rouge.*

**❷ Vers le câble de commande d'antenne électrique ou vers le câble d'alimentation de l'amplificateur d'antenne**
***Remarques***
- *Il n'est pas nécessaire de raccorder ce câble s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».*

**❸ Au niveau de AMP REMOTE IN de l'amplificateur de puissance en option**
*Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.*

**❹ Vers le cordon de liaison d'un téléphone de voiture**

**❺ Vers le connecteur du signal d'éclairage de la voiture**
*Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.*

**❻ À la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires**
***Remarques***
- *S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence. Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».*

**❼ À la borne +12 V qui est alimentée en permanence**
*Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.*

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

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

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

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

## Precauciones

- Esta unidad ha sido diseñada para alimentarse sólo con cc de 12 V de masa negativa.
- No coloque los cables debajo de ningún tornillo, ni los aprisione con partes móviles (p. ej. los raíles del asiento).
- Antes de realizar las conexiones, apague el automóvil para evitar cortocircuitos.
- Conecte los cables de fuente de alimentación **amarillo** y **rojo** solamente después de haber conectado los demás.
- **Conecte todos los cables de conexión a masa a un punto común.**
- Por razones de seguridad, asegúrese de aislar con cinta aislante los cables sueltos que no estén conectados.
- El uso de instrumentos ópticos con este producto aumenta el riesgo de sufrir daños oculares.

**Notas sobre el cable de fuente de alimentación (amarillo)**

- Cuando conecte esta unidad en combinación con otros componentes estéreo, la capacidad nominal del circuito conectado del automóvil debe ser superior a la suma del fusible de cada componente.
- Si no hay circuitos del automóvil con capacidad nominal suficientemente alta, conecte la unidad directamente a la batería.

## Ejemplo de conexiones 2

***Notas* (2-A)**

- *Asegúrese de conectar primero el cable de conexión a masa antes de realizar la conexión del amplificador.*
- *La alarma sonará únicamente si se utiliza el amplificador incorporado.*

**Notas sobre el sintonizador de radio por satélite (2-B)**

Esta unidad no es compatible con el sintonizador de radio XM XMDSON100.

## Diagrama de conexión 3

**❶ 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.*

**❷ 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".*

**❸ 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.*

**❹ Al cable de interfaz de un teléfono para automóvil**

**❺ A una señal de iluminación del automóvil**
*Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.*

**❻ 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".*

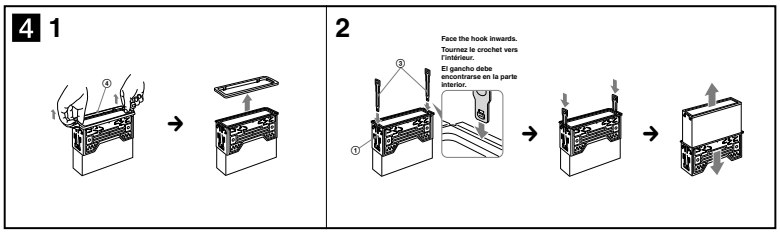
**❼ Al terminal de alimentación de +12 V que recibe energía sin interrupción**
*Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.*

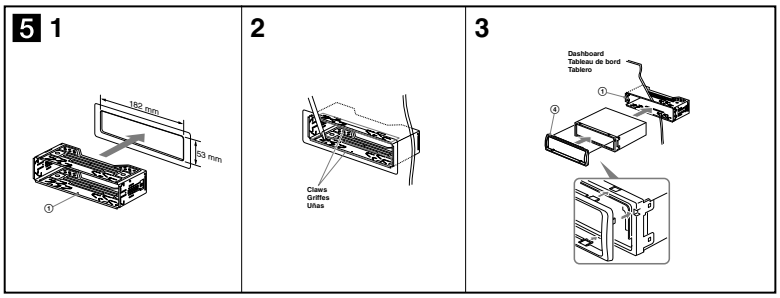
***Notas sobre los cables de control y de fuente de alimentación***
- *El cable de control de la antena motorizada (azul) suministrará cc de +12 V cuando conecte la alimentación del sintonizador.*
- *Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero o lateral, conecte el 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.*

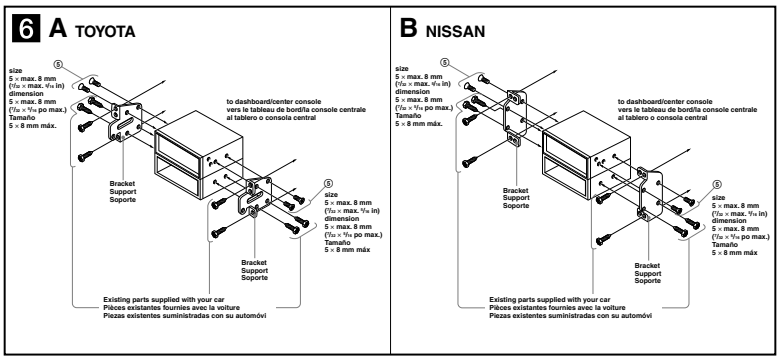
***Conexión para protección de la memoria***
*Si conecta el cable de fuente de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague el interruptor de encendido.*

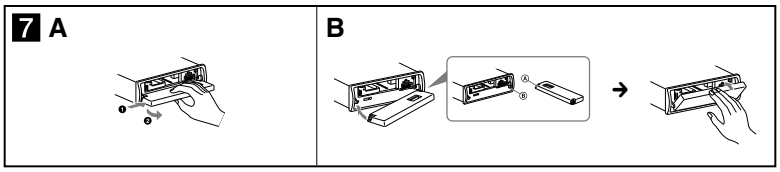
***Notas sobre la conexión de los altavoces***
- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.*
- *No conecte los terminales de altavoz al chasis del automóvil, 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.*

***Nota 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.*




## Precautions

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

### Mounting angle adjustment

Adjust the mounting angle to less than 45°.

## Removing the protection collar and the bracket 4

**Before installing the unit, remove the protection collar ④ and the bracket ① from the unit.**

1 **Remove the protection collar ④.**
Pinch both edges of the protection collar ④, then pull it out.

2 **Remove the bracket ①.**
❶ Insert both release keys ⑤ together between the unit and the bracket ① until they click.
❷ Pull down the bracket ①, then pull up the unit to separate.

## Mounting example 5

**Installation in the dashboard**

**Notes**
- Bend these claws outward for a tight fit, if necessary (**B**-2).
- Make sure that the 4 catches on the protection collar ④ are properly engaged in the slots of the unit (**B**-3).

## Mounting the unit in a Japanese car 6

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

**Note**
To prevent malfunction, install only with the supplied screws ⑤.

## How to detach and attach the front panel 7

**Before installing the unit, detach the front panel.**

### 7-A To detach

Before detaching the front panel, be sure to press and hold (SOURCE/OFF). Press (OPEN), then slide the front panel to the right, and gently pull out the left end of the front panel.

### 7-B To attach

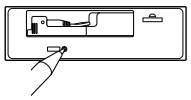
Place the hole Ⓐ of the front panel onto the spindle Ⓑ on the unit, then lightly push the left side in.

## Warning if your car's ignition has no ACC position

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

## RESET button

When the installation and connections are completed, be sure to press the RESET button with a ball-point pen, etc., after detaching the front panel.



## Précautions

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

### Réglage de l'angle de montage

Réglez l'inclinaison à un angle inférieur à 45°.

## Retrait du tour de protection et du support 4

**Avant d'installer l'appareil, retirez le tour de protection ④ et le support ① de l'appareil.**

1 **Retirez le tour de protection ④.**
Pincez les deux bords du tour de protection ④, puis sortez-le.

2 **Retirez le support ①.**
❶ Insérez les clés de déblocage ③ en même temps entre l'appareil et le support ① jusqu'au déclic.
❷ Tirez le support ① vers le bas, puis tirez sur l'appareil vers le haut pour les séparer.

## Exemple de montage 5

**Installation dans le tableau de bord**

**Remarques**
- Si nécessaire, pliez ces griffes vers l'extérieur pour assurer une prise correcte (**B**-2).
- Assurez-vous que les 4 loquets situés sur le tour de protection ④ sont correctement engagés dans les fentes de l'appareil (**B**-3).

## Montage de l'appareil dans une voiture japonaise 6

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

**Remarque**
Pour éviter tout problème de fonctionnement, utilisez uniquement les vis ⑤ fournies pour le montage.

## Retrait et fixation de la façade 7

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

### 7-A Pour la retirer

Avant de retirer la façade, n'oubliez pas de maintenir enfoncée la touche (SOURCE/OFF).
Appuyez sur (OPEN), faites glisser la façade vers la droite, puis tirez doucement l'extrémité gauche de la façade pour la dégager.

### 7-B Pour la fixer

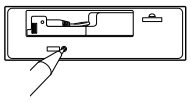
Engagez l'orifice Ⓐ de la façade sur la tige Ⓑ de l'appareil, puis poussez doucement sur le côté gauche pour l'installer en position.

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

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

## Touche RESET

Une fois que l'installation et les raccordements sont terminés, retirez la façade et appuyez sur la touche RESET à l'aide d'un stylo à bille ou d'un autre objet pointu.



## Precauciones

- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera con las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a polvo, suciedad, vibraciones excesivas o altas temperaturas como, por ejemplo, a la luz solar directa o cerca de conductos de calefacción.
- Para realizar una instalación segura y firme, utilice solamente la ferretería de montaje suministrada.

### Ajuste del ángulo de montaje

Ajuste el ángulo de montaje a menos de 45°.

## Extracción del marco de protección y del soporte 4

**Antes de instalar la unidad, retire el marco de protección ④ y el soporte ① de la misma.**

1 **Retire el marco de protección ④.**
Apriete ambos bordes del marco de protección ④ y, a continuación, tire de él hacia fuera.

2 **Retire el soporte ①.**
❶ Inserte ambas llaves de liberación ③ entre la unidad y el soporte ① hasta que encajen.
❷ Presione el soporte ① y, a continuación, levante la unidad para separar ambos elementos.

## Ejemplo de montaje 5

**Instalación en el tablero**

**Notas**
- Si es necesario, doble estos Uñas hacia fuera para que encaje firmemente (**B**-2).
- Compruebe que los 4 enganches del marco de protección ④ estén bien fijados en las ranuras de la unidad (**B**-3).

## Montaje de la unidad en un automóvil japonés 6

Es posible que no pueda instalar esta unidad en algunos automóviles japoneses. En tal caso, consulte a su distribuidor Sony.

**Nota**
Para evitar que se produzcan fallas de funcionamiento, realice la instalación solamente con los tornillos suministrados ⑤.

## Forma de extraer e instalar el panel frontal 7

**Antes de instalar la unidad, extraiga el panel frontal.**

### 7-A Para extraerlo

Antes de extraer el panel frontal, asegúrese de mantener presionado (SOURCE/OFF).
Presione (OPEN) y, a continuación, deslice el panel frontal hacia la derecha y tire suavemente de su extremo izquierdo.

### 7-B Para instalarlo

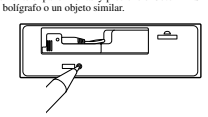
Coloque el orificio Ⓐ del panel frontal en el eje Ⓑ de la unidad y, a continuación, presione ligeramente el lado izquierdo hacia adentro.

## Advertencia: si el encendido del automóvil no dispone de una posición ACC

Asegúrese de ajustar la función de desconexión automática. Para obtener más información, consulte el manual de instrucciones suministrado.
La unidad se apagará completa y automáticamente en el tiempo establecido después de que se desconecte la unidad, lo que evita que se desgaste la batería.
Si no ha ajustado la función de desconexión automática, mantenga presionado (SOURCE/OFF) cada vez que apague el interruptor de encendido, hasta que la pantalla desaparezca.

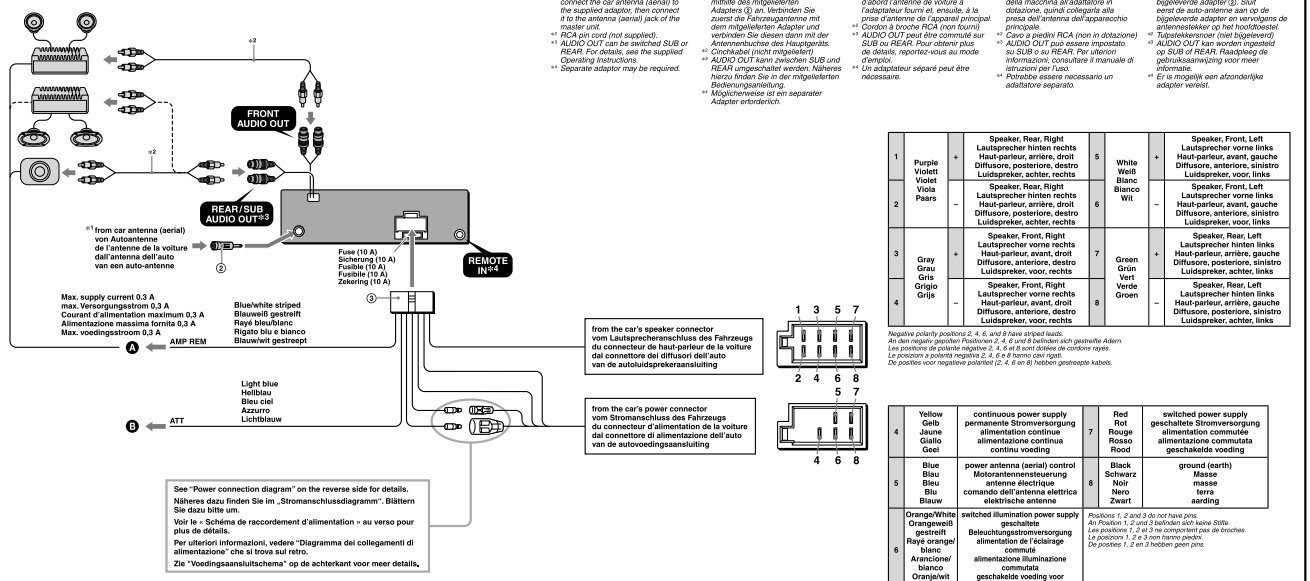
## Botón RESET

Una vez finalizada la instalación y las conexiones, desmonte el panel frontal y presione el botón RESET con un bolígrafo o un objeto similar.



## (AEP, Russian and UK models)

**3**




*1 Note for the antenna (aerial) connecting
If your car antenna (aerial) is an ISO (International Organization for Standardization) type, use the supplied adaptor ③ 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 SUB or REAR. For details, see the supplied Operating Instructions.
*4 Separate adaptor may be required.

*1 Hinweis zum Anschließen der Antenne
Wenn Ihre Fahrzeugantenne der ISO-Norm (Internationale Normungsgemeinschaft) entspricht, schließen Sie sie mithilfe des mitgelieferten Adapters ③ an. Verbinden Sie zuerst die Fahrzeugantenne mit dem mitgelieferten Adapter und verbinden Sie diesen dann mit der Antennenbuchse des Hauptgeräts.
*2 Cinchkabel (nicht mitgeliefert)
*3 AUDIO OUT kann zwischen SUB und REAR umgeschaltet werden. Näheres hierzu finden Sie in der mitgelieferten Bedienungsanleitung.
*4 Möglicherweise ist ein separater Adapter erforderlich.

*1 Remarque sur le raccordement de l'antenne
Si votre antenne de voiture est de type ISO (Organisation internationale de normalisation), utilisez l'adaptateur fourni ③ pour la raccorder. Raccordez d'abord l'antenne de voiture à l'adaptateur fourni et, ensuite, à la prise d'antenne de l'appareil principal.
*2 Cordon à broche RCA (non fourni)
*3 AUDIO OUT peut être commuté sur SUB ou REAR. Pour obtenir plus de détails, reportez-vous au mode d'emploi.
*4 Un adaptateur séparé peut être nécessaire.

*1 Nota per il collegamento dell'antenna
Se l'antenna dell'auto è di tipo ISO (International Organization for Standardization), utilizzare l'adattatore ③, in dotazione per collegarla. Collegare prima l'antenna della macchina all'adattatore in dotazione, quindi collegarla alla presa dell'antenna dell'apparecchio principale.
*2 Cavo a piedini RCA (non in dotazione)
*3 AUDIO OUT può essere impostato su SUB o su REAR. Per ulteriori informazioni, consultare il manuale di istruzioni per l'uso.
*4 Potrebbe essere necessario un adattatore separato.

*1 Opmerking bij de antenne-aansluiting
Indien uw auto is uitgerust met een antenne van het type ISO (International Organization for Standardization), moet u die aansluiten met behulp van de bijgeleverde adapter ③. Sluit eerst de auto-antenne aan op de bijgeleverde adapter en vervolgens de antennestekker op het hoofdtoestel.
*2 Tulpstekersnoer (niet bijgeleverd)
*3 AUDIO OUT kan worden ingesteld op SUB of REAR. Raadpleeg de gebruiksaanwijzing voor meer informatie.
*4 Er is mogelijk een afzonderlijke adapter vereist.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | Purple<br>Violett<br>Violet<br>Viola<br>Paars | + | Speaker, Rear, Right<br>Lautsprecher hinten rechts<br>Haut-parleur, arrière, droit<br>Diffusore, posteriore, destro<br>Luidspreker, achter, rechts | 5 | White<br>Weiß<br>Blanc<br>Bianco<br>Wit | + | Speaker, Front, Left<br>Lautsprecher vorne links<br>Haut-parleur, avant, gauche<br>Diffusore, anteriore, sinistro<br>Luidspreker, voor, links |
| 2 | | – | Speaker, Rear, Right<br>Lautsprecher hinten rechts<br>Haut-parleur, arrière, droit<br>Diffusore, posteriore, destro<br>Luidspreker, achter, rechts | 6 | | – | Speaker, Front, Left<br>Lautsprecher vorne links<br>Haut-parleur, avant, gauche<br>Diffusore, anteriore, sinistro<br>Luidspreker, voor, links |
| 3 | Gray<br>Grau<br>Gris<br>Grigio<br>Grijs | + | Speaker, Front, Right<br>Lautsprecher vorne rechts<br>Haut-parleur, avant, droit<br>Diffusore, anteriore, destro<br>Luidspreker, voor, rechts | 7 | Green<br>Grün<br>Vert<br>Verde<br>Groen | + | Speaker, Rear, Left<br>Lautsprecher hinten links<br>Haut-parleur, arrière, gauche<br>Diffusore, posteriore, sinistro<br>Luidspreker, achter, links |
| 4 | | – | Speaker, Front, Right<br>Lautsprecher vorne rechts<br>Haut-parleur, avant, droit<br>Diffusore, anteriore, destro<br>Luidspreker, voor, rechts | 8 | | – | Speaker, Rear, Left<br>Lautsprecher hinten links<br>Haut-parleur, arrière, gauche<br>Diffusore, posteriore, sinistro<br>Luidspreker, achter, links |

*Negative polarity positions 2, 4, 6, and 8 have striped leads.*
*An den negativ gepolten Positionen 2, 4, 6 und 8 befinden sich gestreifte Adern.*
*Les positions de polarité négative 2, 4, 6 et 8 sont dotées de cordons rayés.*
*Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi rigati.*
*De posities voor negatieve polariteit (2, 4, 6 en 8) hebben gestreepte kabels.*

| | | | |
|---|---|---|---|
| 4 | Yellow<br>Gelb<br>Jaune<br>Giallo<br>Geel | continuous power supply<br>permanente Stromversorgung<br>alimentation continue<br>alimentazione continua<br>continu voeding | |
| 5 | Blue<br>Blau<br>Bleu<br>Blu<br>Blauw | power antenna (aerial) control<br>Motorantennensteuerung<br>antenne électrique<br>comando dell'antenna elettrica<br>elektrische antenne | |
| 6 | Orange/White<br>Orangeweiß<br>gestreift<br>Rayé orange/<br>blanc<br>Arancione/<br>bianco<br>Oranje/wit | switched illumination power supply<br>geschaltete<br>Beleuchtungsstromversorgung<br>alimentation de l'éclairage<br>commute<br>alimentazione illuminazione<br>commutata<br>geschakelde voeding voor<br>verlichting | |
| 7 | Red<br>Rot<br>Rouge<br>Rosso<br>Rood | switched power supply<br>geschaltete Stromversorgung<br>alimentation commutée<br>alimentazione commutata<br>geschakelde voeding | |
| 8 | Black<br>Schwarz<br>Noir<br>Nero<br>Zwart | ground (earth)<br>Masse<br>masse<br>terra<br>aarding | |

*Positions 1, 2 and 3 do not have pins.*
*An Position 1, 2 und 3 befinden sich keine Stifte.*
*Les positions 1, 2 et 3 ne comportent pas de broches.*
*Le posizioni 1, 2 e 3 non hanno piedini.*
*De posities 1, 2 en 3 hebben geen pins.*

## Cautions

- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not get the leads under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the power supply lead ③ to the unit and speakers before connecting it to the auxiliary power connector.
- **Run all ground (earth) leads to a common ground (earth) point.**
- Be sure to insulate any loose unconnected leads with electrical tape for safety.

**Notes on the power supply lead (yellow)**

- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

## Connection example 2

***Notes***

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

## Connection diagram 3

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

### Warning

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

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

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

## Warnhinweise

- Dieses Gerät ist ausschließlich für den Betrieb bei 12 V Gleichstrom (negative Erdung) bestimmt.
- Achten Sie darauf, dass die Kabel nicht unter einer Schraube oder zwischen beweglichen Teilen wie z. B. in einer Sitzschiene eingeklemmt werden.
- Schalten Sie, bevor Sie irgendwelche Anschlüsse vornehmen, die Zündung des Fahrzeugs aus, um Kurzschlüsse zu vermeiden.
- Verbinden Sie das Stromversorgungskabel ③ mit dem Gerät und den Lautsprechern, bevor Sie es mit dem Hilfsstromanschluss verbinden.
- **Schließen Sie alle Erdungskabel an einen gemeinsamen Massepunkt an.**
- Aus Sicherheitsgründen müssen alle losen, nicht angeschlossenen Drähte mit Isolierband abisoliert werden.

**Hinweise zum Stromversorgungskabel (gelb)**

- Wenn Sie dieses Gerät zusammen mit anderen Stereokomponenten anschließen, muss der Autostromkreis, an den die Geräte angeschlossen sind, eine höhere Leistung aufweisen als die Summe der Sicherungen der einzelnen Komponenten.
- Wenn kein Autostromkreis eine so hohe Leistung aufweist, schließen Sie das Gerät direkt an die Batterie an.

## Anschlussbeispiel 2

***Hinweise***

- *Schließen Sie unbedingt zuerst das Massekabel an, bevor Sie den Verstärker anschließen.*
- *Der Warnton wird nur ausgegeben, wenn der integrierte Verstärker verwendet wird.*

## Anschlussdiagramm 3

Ⓐ **An AMP REMOTE IN des gesondert erhältlichen Endverstärkers**
*Dieser Anschluss ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran an. Andernfalls kann das Gerät beschädigt werden.*
Ⓑ **An Schnittstellenkabel eines Autotelefons**

### Warnung

Wenn Sie eine Motorantenne ohne Relaiskästchen verwenden, kann durch Anschließen dieses Geräts mit dem mitgelieferten Stromversorgungskabel ③ die Antenne beschädigt werden.

***Hinweise zu den Steuer- und Stromversorgungsleitungen***

- *Die Motorantennen-Steuerleitung (blau) liefert +12 V Gleichstrom, wenn Sie den Tuner einschalten oder die AF- (Alternativfrequenzsuche) oder die TA-Funktion (Verkehrsdurchsagen) aktivieren.*
- *Wenn das Fahrzeug mit einer in der Heck-/Seitenfensterscheibe integrierten FM (UKW)/MW/LW-Antenne ausgestattet ist, schließen Sie die Motorantennen-Steuerleitung (blau) oder die Zubehörstromversorgungsleitung (rot) an den Stromversorgungsanschluss des vorhandenen Antennenverstärkers an. Näheres dazu erfahren Sie bei Ihrem Händler.*
- *Es kann nur eine Motorantenne mit Relaiskästchen angeschlossen werden.*

***Stromversorgung des Speichers***

*Wenn die gelbe Stromversorgungsleitung angeschlossen ist, wird der Speicher stets (auch bei ausgeschalteter Zündung) mit Strom versorgt.*

***Hinweise zum Lautsprecheranschluss***

- *Schalten Sie das Gerät aus, bevor Sie die Lautsprecher anschließen.*
- *Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 Ohm und ausreichender Belastbarkeit. Ansonsten können die Lautsprecher beschädigt werden.*
- *Verbinden Sie die Lautsprecheranschlüsse nicht mit dem Wagenchassis und verbinden Sie auch nicht die Anschlüsse des rechten mit denen des linken Lautsprechers.*
- *Verbinden Sie die Masseleitung dieses Geräts nicht mit dem negativen (–) Lautsprecheranschluss.*
- *Versuchen Sie nicht, Lautsprecher parallel anzuschließen.*
- *An die Lautsprecheranschlüsse dieses Geräts dürfen nur Passivlautsprecher angeschlossen werden. Schließen Sie keine Aktivlautsprecher (Lautsprecher mit eingebauten Verstärkern) an, da das Gerät sonst beschädigt werden könnte.*
- *Um Fehlfunktionen zu vermeiden, verwenden Sie nicht die im Fahrzeug installierten, integrierten Lautsprecherleitungen, wenn am Ende eine gemeinsame negative (–) Leitung für den rechten und den linken Lautsprecher verwendet wird.*
- *Verbinden Sie nicht die Lautsprecherkabel des Geräts miteinander.*

***Hinweis zum Anschließen***

*Wenn Lautsprecher und Verstärker nicht richtig angeschlossen sind, erscheint „FAILURE" im Display. Vergewissern Sie sich in diesem Fall, dass Lautsprecher und Verstärker richtig angeschlossen sind.*

## Précautions

- Cet appareil est conçu pour fonctionner uniquement sur un courant continu de 12 V avec masse négative.
- Évitez de coincer les câbles sous des vis ou dans des pièces mobiles (par exemple, armature de siège).
- Avant d'effectuer des raccordements, éteignez le moteur pour éviter les courts-circuits.
- Branchez le câble d'alimention ③ sur l'appareil et les haut-parleurs avant de le brancher sur le connecteur d'alimentation auxiliaire.
- **Rassemblez tous les câbles de mise à la masse en un point de masse commun.**
- Veillez à isoler tout câble ou câble non connecté avec du ruban isolant.

**Remarques sur le câble d'alimentation (jaune)**

- Lorsque cet appareil est raccordé à d'autres équipements stéréo, la valeur nominale des circuits du véhicule raccordés doit être supérieure à la somme des fusibles de chaque élément.
- Si aucun circuit de la voiture n'est assez puissant, raccordez directement l'appareil à la batterie.

## Exemple de raccordement 2

***Remarques***

- *Raccordez d'abord le câble de mise à la masse avant de connecter l'amplificateur.*
- *L'alarme est émise uniquement lorsque l'amplificateur intégré est utilisé.*

## Schémas de raccordement 3

Ⓐ **Au niveau du AMP REMOTE IN d'un amplificateur de puissance facultatif**
*Ce raccordement existe seulement pour les amplificateurs. Le raccordement à tout autre système peut endommager l'appareil.*
Ⓑ **Vers le cordon de liaison d'un téléphone de voiture**

### Avertissement

Si vous disposez d'une antenne électrique sans boîtier de relais, le branchement de cet appareil au moyen du cordon d'alimentation fourni ③ risque d'endommager l'antenne.

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

- *Le câble de commande (bleu) fournit du courant continu de +12 V lorsque vous mettez le tuner sous tension ou lorsque vous activez la fonction AF (fréquence alternative) ou TA (informations de circulation).*
- *Lorsque votre voiture est équipée d'une antenne FM/MW (GO)/LW (PO) intégrée dans la vitre arrière/latérale, raccordez le câble de commande d'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) au bornier de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

***Raccordement pour la conservation de la mémoire***

*Lorsque le câble de commande d'antenne jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la clé de contact est en position d'arrêt.*

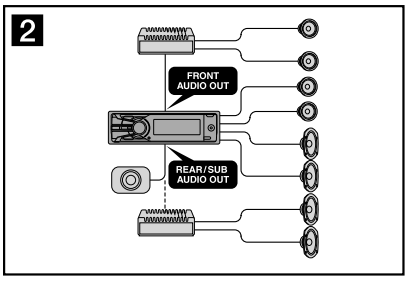
***Remarques sur le raccordement des haut-parleurs***

- *Avant de raccorder les haut-parleurs, mettre l'appareil hors tension.*
- *Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.*
- *Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne pas raccorder le câble de mise à la masse de cet appareil à la borne négative (–) du haut-parleur.*
- *Ne pas tenter de raccorder les haut-parleurs en parallèle.*
- *Connecter uniquement des haut-parleurs passifs. La connexion de haut-parleurs actifs (avec des amplificateurs intégrés) aux bornes des haut-parleurs pourrait endommager l'appareil.*
- *Pour éviter tout problème de fonctionnement, n'utilisez pas les câbles des haut-parleurs intégrés installés dans votre voiture si l'appareil dispose d'un câble négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

***Remarque sur le raccordement***

*Si les enceintes et l'amplificateur ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les enceintes et l'amplificateur sont raccordés correctement.*

**2**




## Attenzione

- Questo apparecchio è stato progettato per l'uso solo a 12 V CC con massa negativa.
- Evitare che i cavi rimangano bloccati da una vite o incastrati nelle parti mobili (ad esempio nelle guide scorrevoli dei sedili).
- Prima di effettuare i collegamenti, spegnere il motore dell'automobile onde evitare di causare cortocircuiti.
- Collegare il cavo di alimentazione ③ all'apparecchio e ai diffusori prima di collegarlo al connettore di alimentazione ausiliaria.
- **Portare tutti i cavi di messa a terra a un punto di massa comune.**
- Per sicurezza, assicurarsi di isolare qualsiasi cavo non collegato utilizzando del nastro adesivo.

**Note sul cavo di alimentazione (giallo)**

- Se questo apparecchio viene collegato in combinazione con altri componenti stereo, la potenza nominale dei circuiti dell'automobile deve essere superiore a quella prodotta dalla somma dei fusibili di ciascun componente.
- Se la potenza nominale dei circuiti dell'automobile non è sufficiente, collegare l'apparecchio direttamente alla batteria.

## Esempio di collegamento 2

***Note***

- *Assicurarsi di collegare il cavo di terra prima di collegare l'apparecchio all'amplificatore.*
- *L'allarme viene emesso solo se è in uso l'amplificatore incorporato.*

## Schema di collegamento 3

Ⓐ **Ad AMP REMOTE IN di un amplificatore di potenza opzionale**
*Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.*
Ⓑ **Al cavo di interfaccia di un telefono per auto**

### Avvertenza

Quando si collega l'apparecchio con il cavo di alimentazione in dotazione ③, si potrebbe danneggiare l'antenna elettrica se questa non dispone di scatola a relè.

***Note sul cavi di controllo e di alimentazione***

- *Il cavo (blu) di controllo dell'antenna elettrica fornisce alimentazione pari a +12 V CC quando si attiva il sintonizzatore oppure la funzione TA (notiziario sul traffico) o AF (frequenza alternativa).*
- *Se l'automobile è dotata di antenna FM/MW/LW incorporata nel vetro posteriore/laterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione accessoria al terminale di alimentazione del preamplificatore dell'antenna esistente. Per ulteriori informazioni, consultare il proprio fornitore.*
- *Non è possibile usare un'antenna elettrica senza scatola a relè con questo apparecchio.*

***Collegamento per la conservazione della memoria***

*Quando il cavo di ingresso alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando l'interruttore di accensione è spento.*

***Note sul collegamento dei diffusori***

- *Prima di collegare i diffusori spegnere l'apparecchio.*
- *Usare diffusori di impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori potrebbero venire danneggiati.*
- *Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali del diffusore destro a quelli del diffusore sinistro.*
- *Non collegare il cavo di terra di questo apparecchio al terminale negativo (–) del diffusore.*
- *Non collegare i diffusori in parallelo.*
- *Assicurarsi di collegare soltanto diffusori passivi, poiché il collegamento di diffusori attivi, dotati di amplificatori incorporati, ai terminali dei diffusori potrebbe danneggiare l'apparecchio.*
- *Per evitare problemi di funzionamento, non utilizzare i cavi dei diffusori incorporati installati nell'automobile se l'apparecchio condivide un cavo comune negativo (–) per i diffusori destro e sinistro.*
- *Non collegare fra loro i cavi dei diffusori dell'apparecchio.*

***Nota sul collegamento***

*Se l'amplificatore e il diffusore non sono collegati correttamente, "FAILURE" viene visualizzato nel display. In tal caso, accertarsi che l'amplificatore e il diffusore siano collegati correttamente.*

## Let op

- Dit apparaat is ontworpen voor gebruik op een auto-accu van 12 V gelijkstroom, negatieve aarde.
- Zorg ervoor dat de draden niet onder een schroef of tussen bewegende onderdelen (b.v. zetelrail) terechtkomen.
- Voordat u de aansluitingen maakt, moet u het contact uitzetten om kortsluiting te vermijden.
- Sluit de voedingskabel ③ aan op het apparaat en de luidsprekers voordat u het aansluit op de hulpvoedingsaansluiting.
- **Sluit alle aardingskabels op een gemeenschappelijk aardpunt aan.**
- Voorzie niet aangesloten kabels om veiligheidsredenen altijd van isolatietape.

**Opmerkingen bij de voedingskabel (geel)**

- Wanneer u dit apparaat aansluit samen met andere componenten, moet het vermogen van de aangesloten autostroomkring groter zijn dan de som van de zekeringen van elke component afzonderlijk.
- Wanneer het vermogen ontoereikend is, moet u het apparaat rechtstreeks aansluiting op de accu.

## Voorbeeldaansluitingen 2

***Opmerkingen***

- *Sluit eerst de aarddraad aan voordat u de versterker aansluit.*
- *U hoort de pieptoon alleen als de ingebouwde versterker wordt gebruikt.*

## Aansluitschema 3

Ⓐ **Naar AMP REMOTE IN van een optionele eindversterker**
*Deze aansluiting is alleen bedoeld voor versterkers. Door een ander systeem aan te sluiten kan het apparaat worden beschadigd.*
Ⓑ **Naar het interface-snoer van een autotelefoon**

### Waarschuwing

Indien u een elektrische antenne hebt zonder relaiskast, kan het aansluiten van dit apparaat met het bijgeleverde netsnoer ③ de antenne beschadigen.

***Opmerkingen over de bedienings- en voedingskabels***

- *De antennevoedingskabel (blauw) levert +12 V gelijkstroom wanneer u de tuner inschakelt of de AF (Alternative Frequency) of TA (Traffic Announcement) functie activeert.*
- *Wanneer uw auto is uitgerust met een FM/MW/LW-antenne in de achterruit/zijruit, moet u de antennevoedingskabel (blauw) of de hulpvoedingskabel (rood) aansluiten op de voedingsingang van de bestaande antenneversterker. Raadpleeg uw dealer voor meer details.*
- *Met dit apparaat is het niet mogelijk een automatische antenne zonder relaiskast te gebruiken.*

***Instandhouden van het geheugen***

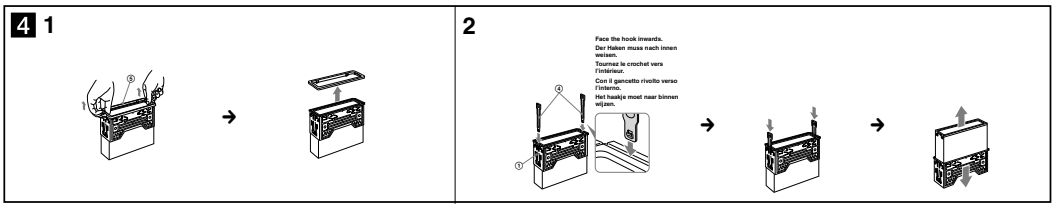
*Zolang de gele stroomdraad is aangesloten, blijft de stroomvoorziening van het geheugen intact, ook wanneer het contact van de auto wordt uitgeschakeld.*

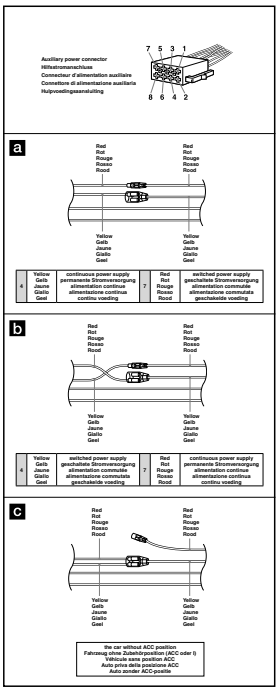
***Opmerkingen betreffende het aansluiten van de luidsprekers***

- *Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten.*
- *Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als u dit niet doet, kunnen de luidsprekers ernstig beschadigd raken.*
- *Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter- en linkerluidspreker niet op elkaar aan.*
- *Verbind de aarddraad van dit apparaat niet met de negatieve (–) aansluiting van de luidspreker.*
- *Probeer nooit de luidsprekers parallel aan te sluiten.*
- *Sluit geen actieve luidsprekers (met ingebouwde versterkers) aan op de luidsprekeraansluiting van dit apparaat. Dit zal leiden tot beschadiging van de actieve luidsprekers. Sluit dus altijd uitsluitend luidsprekers zonder ingebouwde versterker aan.*
- *Om defecten te vermijden mag u de bestaande luidsprekerbedrading in uw auto niet gebruiken wanneer er een gemeenschappelijke negatieve (–) draad is voor de rechter- en linkerluidsprekers.*
- *Verbind de luidsprekerdraden niet met elkaar.*

***Opmerking over aansluiten***

*Als de luidspreker en versterker niet correct zijn aangesloten, wordt "FAILURE" in het display weergegeven. In dit geval moet u zorgen dat de luidspreker en versterker correct zijn aangesloten.*




## Power connection diagram

Auxiliary power connector may vary depending on the car. Check your car's auxiliary power connector diagram to make sure the connections match correctly. There are three basic types (illustrated below). You may need to switch the positions of the red and yellow leads in the car stereo's power supply lead.
After matching the connections and switched power supply leads correctly, connect the unit to the car's power supply. If you have any questions and problems connecting your unit that are not covered in this manual, please consult the car dealer.

## Stromanschlussdiagramm

Der Hilfsstromanschluss kann je nach Fahrzeugtyp unterschiedlich sein. Sehen Sie im Hilfsstromanschlussdiagramm für Ihr Fahrzeug nach, wie die Verbindung ordnungsgemäß vorgenommen werden muss. Es gibt, wie unten abgebildet, drei grundlegende Typen. Sie müssen möglicherweise die rote und gelbe Leitung des Stromversorgungskabels der Autostereoanlage vertauschen.
Stellen Sie die Anschlüsse her, schließen Sie die geschalteten Stromversorgungsleitungen richtig an und verbinden Sie dann das Gerät mit der Stromversorgung Ihres Fahrzeugs. Wenn beim Anschließen des Geräts Fragen oder Probleme auftreten, die in dieser Bedienungsanleitung nicht erläutert werden, wenden Sie sich bitte an den Autohändler.

## Schéma de raccordement d'alimentation

Le connecteur d'alimentation auxiliaire peut varier suivant le type de voiture. Vérifiez le schéma du connecteur d'alimentation auxiliaire de votre voiture pour vous assurer que les connexions correspondent. Il en existe trois types de base (illustrés ci-dessous). Il se peut que vous deviez commuter la position du fil rouge et jaune du câble d'alimentation de l'autoradio.
Après avoir établi les connexions et commuté correctement les câbles d'alimentation, raccordez l'appareil à l'alimentation de la voiture. Si vous avez des questions ou des difficultés à propos de cet appareil qui ne sont pas abordées dans le présent mode d'emploi, consultez votre concessionnaire automobile.

## Diagramma dei collegamenti di alimentazione

Il connettore di alimentazione ausiliaria può variare a seconda della macchina. Controllare il diagramma del connettore di alimentazione ausiliaria della macchina per essere sicuri che i collegamenti corrispondano correttamente. Vi sono tre tipi di base (illustrazione sotto). Potrà essere necessario cambiare le posizioni dei fili rosso e giallo nel cavo di alimentazione dello stereo della macchina.
Dopo aver fatto corrispondere i collegamenti e aver commutato i cavi di alimentazione, collegare l'apparecchio all'alimentazione della macchina. Se si hanno domande o se sorgono problemi che non sono stati trattati nel manuale nel collegare l'apparecchio, contattare l'autoconcessionario.

## Voedingsaansluitschema

De hulpvoedingsaansluiting kan verschillen afhankelijk van de auto. Controleer het hulpvoedingsaansluitschema dat bij dit apparaat wordt geleverd om te zien of de aansluitingen kloppen. Er zijn drie basistypes (zie afbeelding hieronder). Het is mogelijk dat u de posities van de rode en gele kabels in de voedingskabel van het autostereosysteem van de auto moet omwisselen.
Als de aansluitingen en geschakelde voedingskabels kloppen, sluit u het apparaat aan op de voeding van de auto. Indien u nog vragen of problemen hebt in verband met het aansluiten van het apparaat die niet in deze handleiding vermeld staan, raadpleeg dan de autodealer.

## Precautions

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

### Mounting angle adjustment

Adjust the mounting angle to less than 45°.

## Removing the protection collar and the bracket 4

**Before installing the unit, remove the protection collar ⑤ and the bracket ① from the unit.**

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

## Mounting example 5

**Installation in the dashboard**

***Notes***

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

## How to detach and attach the front panel 6

**Before installing the unit, detach the front panel.**

### 6-A To detach

Before detaching the front panel, be sure to press and hold (SOURCE/OFF). Press (OPEN), then slide the front panel to the right side, and pull out the left side.

### 6-B To attach

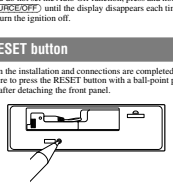
Place the hole Ⓐ in the front panel onto the spindle Ⓑ on the unit, as illustrated, then push the left side in.

## Warning if your car's ignition has no ACC position

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

## RESET button

When the installation and connections are completed, be sure to press the RESET button with a ball-point pen, etc., after detaching the front panel.



## Sicherheitshinweise

- Wählen Sie den Einbauort sorgfältig so aus, dass das Gerät beim Fahren nicht hinderlich ist.
- Bauen Sie das Gerät so ein, dass es keinen hohen Temperaturen (keinem direkten Sonnenlicht, keiner Warmluft von der Heizung), keinem Staub, keinem Schmutz und keinen starken Vibrationen ausgesetzt ist.
- Für eine sichere Befestigung verwenden Sie stets die mitgelieferten Montageteile.

### Hinweis zum Montagewinkel

Das Gerät sollte in einem Winkel von weniger als 45° montiert werden.

## Abnehmen der Schutzmrandung und der Halterung 4

**Nehmen Sie vor dem Installieren des Geräts die Schutzumrandung ⑤ und die Halterung ① vom Gerät ab.**

1 **Entfernen Sie die Schutzumrandung ⑤.**
Fassen Sie die Schutzumrandung ⑤ mit den Fingern an den Seitenkanten und ziehen Sie sie heraus.
2 **Entfernen Sie die Halterung ①.**
❶ Führen Sie beide Löseschlüssel ④ zwischen dem Gerät und der Halterung ① ein, bis sie mit einem Klicken einrasten.
❷ Ziehen Sie die Halterung ① nach unten und das Gerät nach oben, um die beiden zu trennen.

## Montagebeispiel 5

**Installation im Armaturenbrett**

***Hinweise***

- *Falls erforderlich, biegen Sie diese Klammern für einen sicheren Halt nach außen (E-2).*
- *Achten Sie darauf, die 4 Verriegelungen an der Schutzumrandung ⑤ korrekt in die Aussparungen am Gerät einzusetzen (E-3).*

## Abnehmen und Anbringen der Frontplatte 6

**Nehmen Sie die Frontplatte vor dem Einbau des Geräts ab.**

### 6-A Abnehmen

Halten Sie vor dem Abnehmen der Frontplatte unbedingt (SOURCE/OFF) gedrückt. Drücken Sie (OPEN), schieben Sie die Frontplatte nach rechts und ziehen Sie die linke Seite heraus.

### 6-B Anbringen

Setzen Sie die Aussparung Ⓐ an der Frontplatte wie in der Abbildung dargestellt am Stift Ⓑ am Gerät an und drücken Sie dann die linke Seite hinein.

## Warnhinweis, wenn die Zündung Ihres Fahrzeugs nicht über eine Zubehörposition (ACC oder I) verfügt

Aktivieren Sie unbedingt die Abschaltautomatik. Näheres dazu finden Sie in der mitgelieferten Bedienungsanleitung.
Nach dem Ausschalten wird das Gerät dann nach der voreingestellten Zeit automatisch vollständig abgeschaltet, so dass der Autobatterie kein Strom mehr entzogen wird.
Wenn Sie die Abschaltautomatik nicht aktivieren, müssen Sie jedes Mal, wenn Sie die Zündung ausschalten, die Taste (SOURCE/OFF) gedrückt halten, bis die Anzeige ausgeblendet wird.

## Taste RESET

Wenn Sie das Gerät eingebaut und alle Anschlüsse vorgenommen haben, müssen Sie die Frontplatte abnehmen und mit einem Kugelschreiber oder einem anderen spitzen Gegenstand die Taste RESET drücken.

## Précautions

- Choisir soigneusement l'emplacement de l'installation afin que l'appareil ne gêne pas la conduite normale du véhicule.
- Eviter d'installer l'appareil dans un endroit exposé à de la poussière, de la saleté, des vibrations violentes ou à des températures élevées, comme en plein soleil ou à proximité d'un conduit de chauffage.
- Pour garantir un montage sûr, n'utiliser que le matériel fourni.

### Réglage de l'angle de montage

Ajuster l'inclinaison à un angle inférieur à 45°.

## Retrait du tour de protection et du support 4

**Avant d'installer l'appareil, retirez le tour de protection ⑤ et le support ① de l'appareil.**

1 **Enclenchez le tour de protection ⑤.**
Saisissez les deux bords du tour de protection ⑤, puis tirez pour extraire l'appareil.
2 **Retirez le support ①.**
❶ Insérez les deux clés de déblocage ④ simultanément entre l'appareil et le support ① jusqu'au déclic indiquant qu'elles sont en place.
❷ Tirez le support ① vers le bas, puis tirez l'appareil vers le haut pour les séparer.

## Exemple de montage 5

**Installation dans le tableau de bord**

***Remarques***

- *Pliez ces griffes pour assurer une prise correcte si nécessaire (E-2).*
- *Assurez-vous que les 4 loquets du tour de protection ⑤ sont correctement insérés dans les fentes de l'appareil (E-3).*

## Retrait et fixation de la façade 6

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

### 6-A Pour la retirer

Avant de retirer la façade, veillez à appuyer sur la touché (SOURCE/OFF) et à la maintenir enfoncée. Appuyez ensuite sur (OPEN), puis faites glisser la façade vers la droite et retirez le côté gauche.

### 6-B Pour la fixer

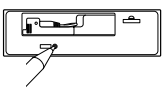
Fixez la partie Ⓐ de la façade sur la partie Ⓑ de l'appareil, comme indiqué sur l'illustration, puis appuyez sur le côté gauche.

## Avertissement au cas où le contact de votre voiture ne dispose pas d'une position ACC

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

## Touche RESET

Une fois que l'installation et les raccordements sont terminés, retirez la façade et appuyez sur le bouton RESET à l'aide d'un stylo à bille ou d'un autre objet pointu.



## Precauzioni

- Scegliere con attenzione la posizione per l'installazione in modo che l'apparecchio non interferisca con le operazioni di guida del conducente.
- Evitare di installare l'apparecchio dove sia soggetto ad alte temperature, come alla luce solare diretta o al getto di aria calda dell'impianto di riscaldamento, o dove possa essere soggetto a polvere, sporco e vibrazioni eccessive.
- Usare solo il materiale di montaggio in dotazione per un'installazione stabile e sicura.

### Regolazione dell'angolo di montaggio

Regolare l'angolo di montaggio in modo che sia inferiore a 45°.

## Rimozione della staffa e della cornice protettiva 4

**Prima di installare l'apparecchio, rimuovere la cornice protettiva ⑤ e la staffa ① dall'apparecchio.**

1 **Rimuovere la cornice protettiva ⑤.**
Afferrare la cornice di protezione ⑤ dai bordi laterali, quindi estrarla.
2 **Rimuovere la staffa ①.**
❶ Inserire contemporaneamente entrambe le chiavette di rilascio ④ tra l'apparecchio e la staffa ① fino a che non scattano in posizione.
❷ Estrarre la staffa ①, quindi sollevare l'apparecchio per rimuoverlo.

## Esempio di montaggio 5

**Installazione nel cruscotto**

***Note***

- *Piegare verso l'esterno questi morsetti per un'installazione più sicura, se necessario (E-2).*
- *Assicurarsi che i 4 fermi sulla cornice protettiva ⑤ siano correttamente inseriti negli alloggiamenti dell'apparecchio (E-3).*

## Come rimuovere e reinserire il pannello anteriore 6

**Prima di installare l'apparecchio rimuovere il pannello anteriore.**

### 6-A Per rimuoverlo

Prima di rimuovere il pannello anteriore, assicurarsi di tenere premuto (SOURCE/OFF). Premere (OPEN), quindi fare scorrere il pannello anteriore verso destra ed estrarre il lato sinistro.

### 6-B Per reinserirlo

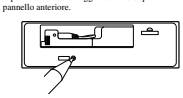
Posizionare il foro Ⓐ del pannello anteriore nel mandrino Ⓑ dell'apparecchio come mostrato nell'illustrazione, quindi spingere il lato sinistro verso l'interno.

## Avvertenza relativa all'installazione su un'auto sprovvista della posizione ACC (accessoria) sul blocchetto di accensione

Accertarsi di impostare la funzione di spegnimento automatico. Per ulteriori informazioni, fare riferimento alle istruzioni per l'uso in dotazione.
L'apparecchio si spegne completamente e automaticamente all'ora impostata dopo che è stato disattivato, onde evitare che la batteria si scarichi.
Se la funzione di spegnimento automatico non è stata impostata, ogni volta che il motore viene spento tenere premuto (SOURCE/OFF) finché il display non viene disattivato.

## Tasto RESET

Una volta completate le procedure di installazione e i collegamenti, accertarsi di premere il tasto RESET con una penna a sfera o un oggetto simile dopo avere rimosso il pannello anteriore.



## Voorzorgsmaatregelen

- Kies de installatieplaats zorgvuldig zodat het apparaat de bestuurder niet hindert tijdens het rijden.
- Installeer het apparaat niet op plaatsen waar het blootgesteld wordt aan hoge temperaturen, b.v. in direct zonlicht of bij de warme luchtstroom van de autoverwarming, aan sterke trillingen, of waar het in contact komt met veel stof of vuil.
- Gebruik voor het veilig en stevig monteren van het apparaat uitsluitend de bijgeleverde montage-onderdelen.

### Maximale montagehoek

Installeer het apparaat nooit onder een hoek van meer dan 45° met het horizontale vlak.

## De beschermende rand en de beugel verwijderen 4

**Voordat u het apparaat gaat installeren, moet u de beschermende rand ⑤ en de beugel ① verwijderen van het apparaat.**

1 **Verwijder de beschermende rand ⑤.**
Druk beide zijden van de beschermende rand ⑤ in en trek de rand naar u toe.
2 **Verwijder de beugel ①.**
❶ Plaats de ontgrendelingssleutels ④ tussen het toestel en de beugel ① tot deze vastklikken.
❷ Trek de beugel ① omlaag en trek het apparaat omhoog om deze van elkaar te scheiden.

## Montagevoorbeeld 5

**Montage in het dashboard**

***Opmerkingen***

- *Indien nodig kunt u deze klemhaken ombuigen voor een steviger bevestiging (E-2).*
- *De 4 grepen op de beschermende rand ⑤ moeten goed in de sleuven van het apparaat zijn geplaatst (E-3).*

## Het voorpaneel verwijderen en bevestigen 6

**Verwijder, alvorens met het installeren te beginnen, het afneembare voorpaneel.**

### 6-A Verwijderen

Voordat u het voorpaneel verwijdert, moet u (SOURCE/OFF) ingedrukt houden. Druk vervolgens op de (OPEN) toets en schuif het voorpaneel naar de rechterzijde en trek de linkerzijde naar u toe.

### 6-B Bevestigen

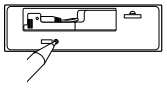
Breng deel Ⓐ van het voorpaneel aan op deel Ⓑ van het apparaat zoals afgebeeld en druk op de linkerzijde tot deze vastklikt.

## Waarschuwing als het contactslot van de auto geen ACC-positie heeft

Zorg ervoor dat u de functie voor automatisch uitschakelen instelt. Raadpleeg de bijgeleverde gebruiksaanwijzing voor meer informatie.
Het apparaat wordt na de ingestelde tijd automatisch volledig uitgeschakeld nadat het apparaat is uitgeschakeld. Zo wordt voorkomen dat de accu leegloopt.
Als u de functie voor automatisch uitschakelen niet instelt, moet u (SOURCE/OFF) ingedrukt houden tot het display verdwijnt telkens wanneer u het contact uitschakelt.

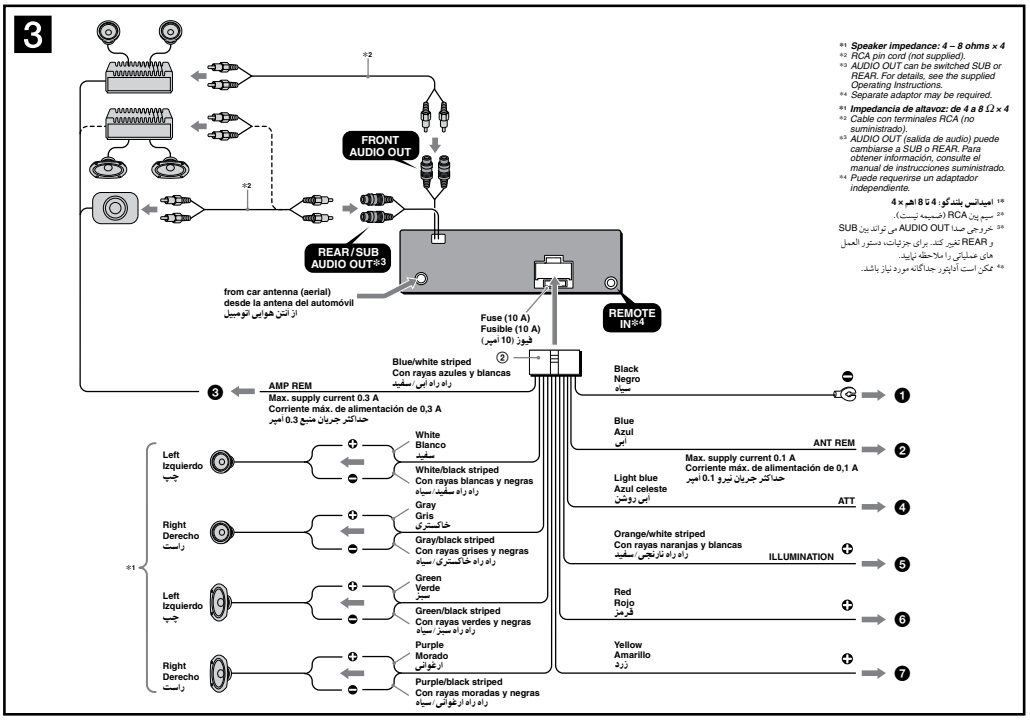
## RESET-toets

Als u de installatie en aansluitingen hebt voltooid, moet u met een puntig voorwerp, zoals de punt van een balpen, op RESET drukken nadat u het voorpaneel hebt verwijderd.



# DSX-S100

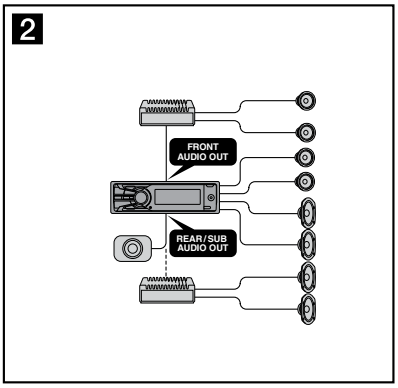
## (E and Indian models)




*1 ***Speaker impedance: 4 – 8 ohms × 4***
*2 *RCA pin cord (not supplied).*
*3 *AUDIO OUT can be switched SUB or REAR. For details, see the supplied Operating Instructions.*
*4 *Separate adaptor may be required.*

*1 ***Impedancia de altavoz: de 4 a 8 Ω × 4***
*2 *Cable con terminales RCA (no suministrado).*
*3 *AUDIO OUT (salida de audio) puede cambiarse a SUB o REAR. Para obtener información, consulte el manual de instrucciones suministrado.*
*4 *Puede requerirse un adaptador independiente.*

*1 **امپدانس بلندگو: 4 تا 8 اهم × 4**
*2 سیم پین RCA (ضمیمه نیست).
*3 خروجی صدا AUDIO OUT می تواند بین SUB و REAR تغییر کند. برای جزئیات، دستور العمل های عملیاتی را ملاحظه نمایید.
*4 ممکن است آداپتور جداگانه مورد نیاز باشد.




## Cautions

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

**Notes on the power supply lead (yellow)**
- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

## Connection example 2

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

## 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 supply leads.*

❷ **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."*

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 interface cable of a car telephone**

❺ **To a car's illumination signal**
*Be sure to connect the black ground (earth) lead to a metal surface of the car first.*

❻ **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."*

❼ **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.*

## Precauciones

- Esta unidad ha sido diseñada para alimentarse sólo con cc de 12 V de masa negativa.
- No coloque los cables debajo de ningún tornillo, ni los aprisione con partes móviles (p. ej. los railes del asiento).
- Antes de realizar las conexiones, apague el automóvil para evitar cortocircuitos.
- Conecte los cables de fuente de alimentación **amarillo** y **rojo** solamente después de haber conectado los demás.
- **Conecte todos los cables de conexión a masa a un punto común.**
- Por razones de seguridad, asegúrese de aislar con cinta aislante los cables sueltos que no estén conectados.

**Notas sobre el cable de fuente de alimentación (amarillo)**
- Cuando conecte esta unidad en combinación con otros componentes estéreo, la capacidad nominal del circuito conectado del automóvil debe ser superior a la suma del fusible de cada componente.
- Si no hay circuitos del automóvil con capacidad nominal suficientemente alta, conecte la unidad directamente a la batería.

## Ejemplo de conexiones 2

***Notas***
- *Asegúrese de conectar primero el cable de conexión a masa antes de realizar la conexión del amplificador.*
- *La alarma sonará únicamente si se utiliza el amplificador incorporado.*

## Diagrama de conexión 3

❶ **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.*

❷ **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".*

❸ **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.*

❹ **Al cable de interfaz de un teléfono para automóvil**

❺ **A una señal de iluminación del automóvil**
*Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.*

❻ **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".*

❼ **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.*

***Nota 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.*

## نمودار اتصال 3

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

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

❸ **به AMP REMOTE IN یک آمپلی فایر برقی اختیاری**
این اتصال تنها برای آمپلی فایرها است. اتصال هر سیستم دیگری می تواند باعث صدمه به دستگاه شود.

❹ **به کابل رابط تلفن اتومبیل**

❺ **به سیگنال روشنایی اتومبیل**
حتما ابتدا سیم سیاه زمین را به سطح فلزی اتومبیل وصل کنید.

❻ **به ترمینال برق 12+ ولت که در موقعیت جانبی کلید احتراق نیرو می گیرد**
***نکات***
- اگر هیچ موقعیت جانبی وجود ندارد، به ترمینال برقی (باتری) 12+ ولت که همواره برقی گیرد وصل کنید. حتما ابتدا سیم سیاه زمین را به سطح فلزی اتومبیل وصل کنید.
- هنگامی که اتومبیل شما دارای یک آنتن هوایی FM/AM در شیشه عقب/ کناری می باشد، "نکات در مورد سیم های کنترل و منبع برق" را ملاحظه نمایید.

❼ **به ترمینال برق 12+ ولت که همواره نیرو می گیرد**
حتما ابتدا سیم سیاه زمین را به سطح فلزی اتومبیل وصل کنید.

***نکات در مورد سیم های کنترل و منبع برق***
- هنگامی که شما موج رادیو را روشن می کنید سیم کنترل آنتن هوایی برقی (آبی) برق مستقیم 12+ ولت را تامین می کند.
- هنگامی که اتومبیل شما دارای یک آنتن هوایی FM/AM در شیشه عقب/ 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 شده است، برق همواره به مدار حافظه داده می شود حتی هنگامی که کلید احتراق خاموش باشد.

***نکات در مورد اتصال بلندگو***
- پیش از وصل کردن بلندگوها، دستگاه را خاموش کنید.
- از بلندگوها با امپدانس 4 تا 8 اهم، و با ظرفیت بالای برق استفاده کنید تا از صدمه به آن جلوگیری شود.
- 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 بلندگو های راست و چپ می باشد استفاده نکنید.
- سیم های بلندگوی دستگاه را به یکدیگر وصل نکنید.

***نکته در مورد اتصال***
اگر بلندگو و آمپلی فایر بطور صحیح وصل نشده باشند، "FAILURE" در صفحه نمایش ظاهر می شود. در چنین حالتی، مطمئن شوید که بلندگو و آمپلی فایر بطور صحیح نصب شده اند.

## احتیاطات

- این دستگاه تنها برای عملیات برق مستقیم 12 ولت منفی زمین طراحی شده است.
- سیم را زیر یک پیچ قرار ندهید، یا میان قطعات متحرک (برای مثال ریل صندلی) گیر ندهید.
- قبل از ایجاد اتصالات، احتراق اتومبیل را خاموش کنید تا از اتصالات کوتاه جلوگیری کنید.
- سیم های منبع برق **زرد** و **قرمز** را تنها هنگامی که سایر سیم ها وصل شده اند وصل کنید.
- **تمام سیم های زمین را به یک نقطه مشترک زمین بکشید.**
- حتما به منظور ایمنی هر سیم وصل نشده شل را با نوار چسب برقی عایق بندی کنید.

**نکات در مورد سیم منبع برق (زرد)**
- هنگام وصل کردن این دستگاه در ترکیب با دستگاه های استریو دیگر، سطح مدار اتومبیل وصل شده باید از مجموع فیوز هر دستگاه بالاتر باشد.
- هنگامی که هیچ مدار اتومبیل به اندازه کافی بالا نیست، دستگاه را مستقیما به باتری وصل کنید.

## نمونه اتصال 2

***نکات***
- حتما سیم زمین را پیش از اتصال آمپلی فایر وصل کنید.
- تنها هنگام استفاده از آمپلی فایر داخلی زنگ صدا می کند.

## Precautions

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

### Mounting angle adjustment

Adjust the mounting angle to less than 45°.

## Removing the protection collar and the bracket 4

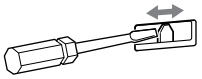
**Before installing the unit, remove the protection collar ④ and the bracket ① from the unit.**

1 **Remove the protection collar ④.**
Pinch both edges of the protection collar ④, then pull it out.

2 **Remove the bracket ①.**
❶ Insert both release keys ③ together between the unit and the bracket ① until they click.
❷ Pull down the bracket ①, then pull up the unit to separate.

## Frequency select switch

The AM (FM) tuning interval is factory-set to the 9 kHz (50 kHz) position. If the frequency allocation system of your country is based on 10 kHz (200 kHz) interval, set the switch on the bottom of the unit to the 10 kHz (200 kHz) position before making connections.



## Mounting example 5

**Installation in the dashboard**

***Notes***

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

## Mounting the unit in a Japanese car 6

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

***Note***

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

## How to detach and attach the front panel 7

**Before installing the unit, detach the front panel.**

### 7-A To detach

Before detaching the front panel, be sure to press and hold (SOURCE/OFF). Press (OPEN), then slide the front panel to the right, and gently pull out the left end of the front panel.

### 7-B To attach

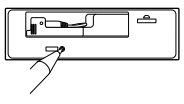
Place the hole Ⓐ of the front panel onto the spindle Ⓑ on the unit, then lightly push the left side in.

## Warning if your car's ignition has no ACC position

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

## RESET button

When the installation and connections are completed, be sure to press the RESET button with a ball-point pen, etc., after detaching the front panel.



## Precauciones

- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera con las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a polvo, suciedad, vibraciones excesivas o altas temperaturas como, por ejemplo, a la luz solar directa o cerca de conductos de calefacción.
- Para realizar una instalación segura y firme, utilice solamente elementos de instalación suministrados.

### Ajuste del ángulo de montaje

Ajuste el ángulo de montaje a menos de 45°.

## Extracción del marco de protección y del soporte 4

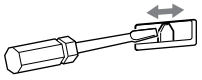
**Antes de instalar la unidad, retire el marco de protección ④ y el soporte ① de la misma.**

1 **Retire el marco de protección ④.**
Apriete ambos bordes del marco de protección ④ y, a continuación, tire de él hacia fuera.

2 **Retire el soporte ①.**
❶ Inserte ambas llaves de liberación ③ entre la unidad y el soporte ① hasta que encajen.
❷ Presione el soporte ① y, a continuación, levante la unidad para separar ambos elementos.

## Selector de frecuencia

El intervalo de sintonía de AM (FM) ha sido ajustado en fábrica a la posición 9 kHz (50 kHz). Si el sistema de asignación de frecuencias de su país se basa en el intervalo de 10 kHz (200 kHz), ponga este selector, situado en la base de la unidad, en la posición 10 kHz (200 kHz) antes de realizar las conexiones.



## Ejemplo de montaje 5

**Instalación en el tablero**

***Notas***

- *Si es necesario, doble estos uñas hacia fuera para que encaje firmemente (5-2).*
- *Compruebe que los 4 enganches del marco de protección ④ estén bien fijados en las ranuras de la unidad (5-3).*

## Montaje de la unidad en un automóvil japonés 6

Es posible que no pueda instalar esta unidad en algunos automóviles japoneses. En tal caso, consulte a su distribuidor Sony.

***Nota***

*Para evitar que se produzcan fallas de funcionamiento, realice la instalación solamente con los tornillos suministrados ⑦.*

## Forma de extraer e instalar el panel frontal 7

**Antes de instalar la unidad, extraiga el panel frontal.**

### 7-A Para extraerlo

Antes de extraer el panel frontal, asegúrese de mantener presionado (SOURCE/OFF).
Presione (OPEN) y, a continuación, deslice el panel frontal hacia la derecha y tire suavemente de su extremo izquierdo.

### 7-B Para instalarlo

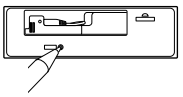
Coloque el orificio Ⓐ del panel frontal en el eje Ⓑ de la unidad y, a continuación, presione ligeramente el lado izquierdo hacia adentro.

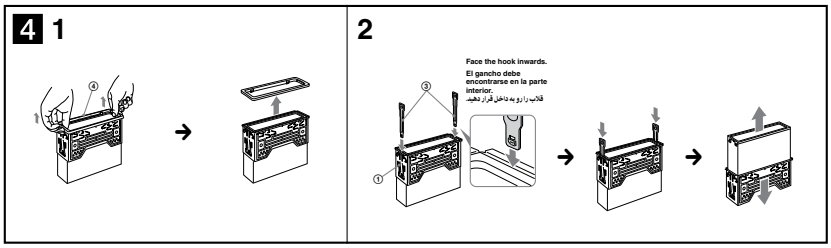
## Advertencia: si el encendido del automóvil no dispone de una posición ACC

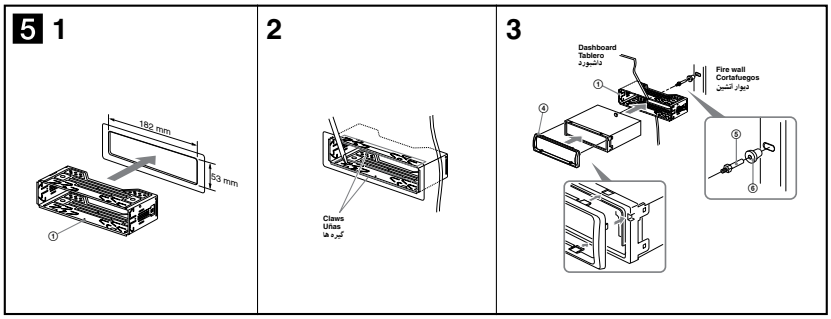
Asegúrese de ajustar la función de desconexión automática. Para obtener más información, consulte el manual de instrucciones suministrado.
La unidad se apagará completa y automáticamente en el tiempo establecido después de que se desconecte la unidad, lo que evita que se desgaste la batería.
Si no ha ajustado la función de desconexión automática, mantenga presionado (SOURCE/OFF) cada vez que apague el interruptor de encendido, hasta que la pantalla desaparezca.

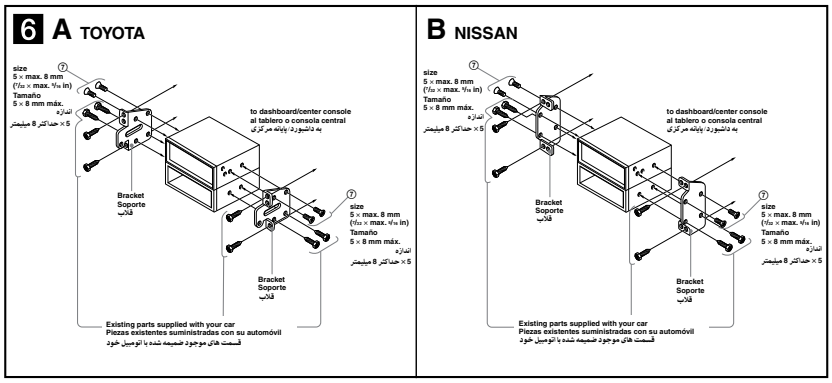
## Botón RESET

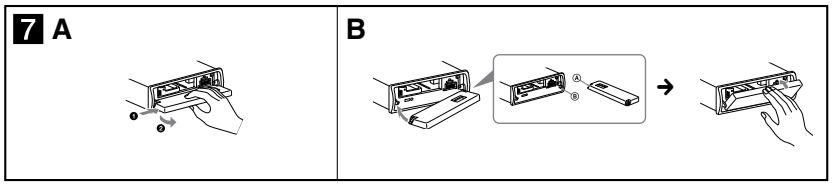
Una vez finalizada la instalación y las conexiones, desmonte el panel frontal y presione el botón RESET con un bolígrafo o un objeto similar.






## اخطارها

- محل نصب را به دقت انتخاب کنید تا دستگاه با عملیات معمول رانندگی تداخل پیدا نکند.
- از نصب دستگاه در مناطقی که در معرض گرد و خاک، کثیفی، لرزش بیش از حد، یا دماهای بالا، مانند نور مستقیم خورشید یا نزدیک کانال های گرمایی خودداری کنید.
- برای یک نصب ایمن و مطمئن تنها از دستگاه نصب ضمیمه شده استفاده کنید.

### تنظیم زاویه نصب

زاویه نصب را به کمتر از 45 درجه تنظیم کنید.

## خارج کردن بدنه محافظ و قلاب 4

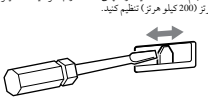
**پیش از نصب دستگاه، بدنه محافظ ④ و قلاب ① را از دستگاه جدا کنید.**

1 **بدنه محافظ ④ را خارج کنید.**
هر دو گوشه بدنه محافظ ④ را فشار دهید، سپس آن را بیرون بکشید.

2 **قلاب ① را خارج کنید.**
❶ هر دو کلید آزادسازی ③ را با یکدیگر به میان دستگاه و قلاب ① وارد کنید تا صدای تیک بدهند.
❷ قلاب ① را به پایین بکشید، سپس دستگاه را به بالا بکشید تا جدا شود.

## کلید انتخاب فرکانس

فاصله موج یابی AM (FM) به موقعیت 9 کیلو هرتز (50 کیلو هرتز) در کارخانه تنظیم شده است. در صورتی که سیستم تخصیص فرکانس کشور شما بر پایه فاصله 10 کیلوهرتز (200 کیلوهرتز) می باشد، پیش از انجام اتصالات، کلید در انتهای دستگاه را به موقعیت 10 کیلو هرتز (200 کیلو هرتز) تنظیم کنید.



## نمونه نصب 5

**نصب در داشبورد**

**نکات**

- این گیره ها را برای جاگیری محکم، در صورت نیاز، به بیرون خم کنید (5-2).
- اطمینان حاصل کنید که 4 گیره بر روی بدنه محافظ ④ بطور صحیح در شکاف های دستگاه جا افتاده اند (5-3).

## نصب کردن دستگاه در یک اتومبیل ژاپنی 6

شما ممکن است قادر نباشید دستگاه را در بعضی از اتومبیل های ساخت ژاپن نصب کنید. در چنین حالتی، با فروشنده سونی Sony خود مشورت نمایید.

**نکته**

برای جلوگیری از سوء عملکرد، تنها با پیچ های ضمیمه شده ⑦ نصب کنید.

## نحوه جدا کردن و وصل کردن پانل جلویی 7

**پیش از نصب کردن دستگاه، پانل جلویی را جدا کنید.**

### 7-A برای جدا کردن

قبل از جداکردن صفحه جلو، حتماً (SOURCE/OFF) را فشار داده و نگه دارید. (OPEN) را فشار دهید، سپس پانل جلویی را به راست بلغزانید، و انتهای سمت چپ پانل جلویی را به آرامی بیرون بکشید.

### 7-B برای وصل کردن

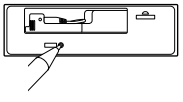
سوراخ Ⓐ از پانل جلویی را بر روی دسته Ⓑ بر روی دستگاه قرار دهید، سپس قسمت سمت چپ را به آرامی به داخل بکشید.

## هشدار در صورتی که احتراق اتومبیل شما دارای موقعیت ACC نمی باشد

اطمینان حاصل کنید که عملکرد خاموشی خودکار Auto Off را تنظیم می کنید. برای جزئیات، دستورالعمل های عملیاتی ضمیمه شده را ملاحظه نمایید.
دستگاه بعد از خاموش در زمان تعیین شده بطور کامل و خودکار خاموش می شود، که از خالی شدن باتری جلوگیری می کند.
اگر شما عملکرد خاموشی خودکار Auto Off را تنظیم نکرده اید، هر بار که شما احتراق را خاموش می کنید (SOURCE/OFF) را فشار داده و نگاه دارید تا صفحه نمایش محو شود.

## دکمه RESET

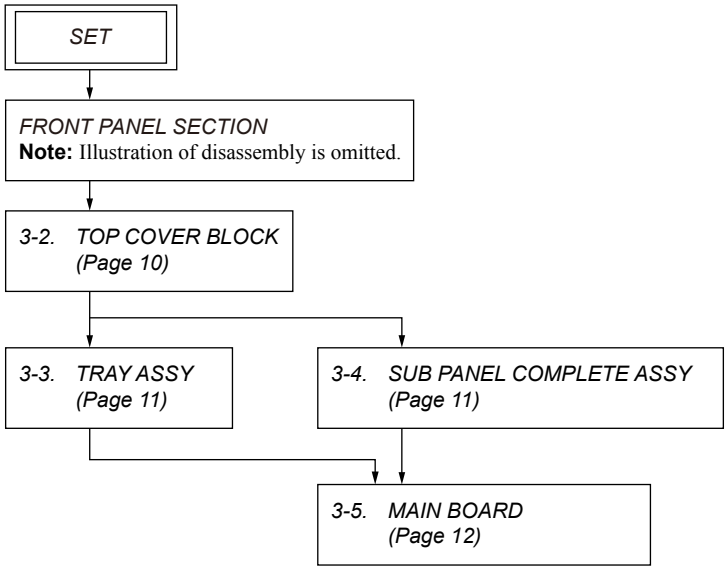
هنگامی که نصب و اتصالات کامل شد، مطمئن شوید که دکمه RESET را بعد از جدا کردن پانل جلویی، با یک خودکار فشار دهید.



# SECTION 3
# DISASSEMBLY

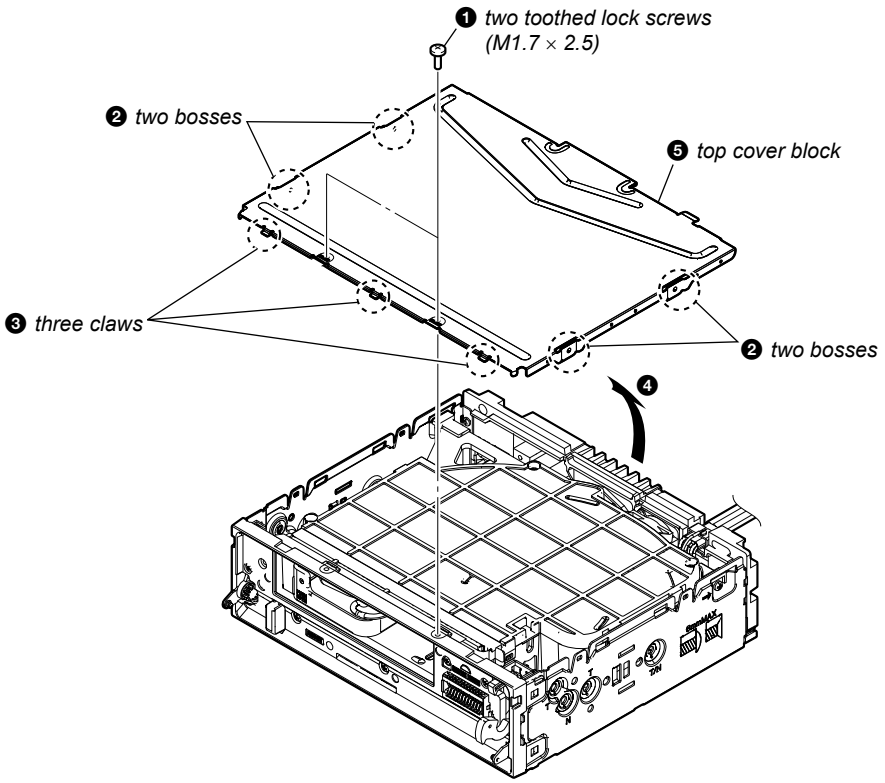
- This set can be disassembled in the order shown below.

## 3-1. DISASSEMBLY FLOW

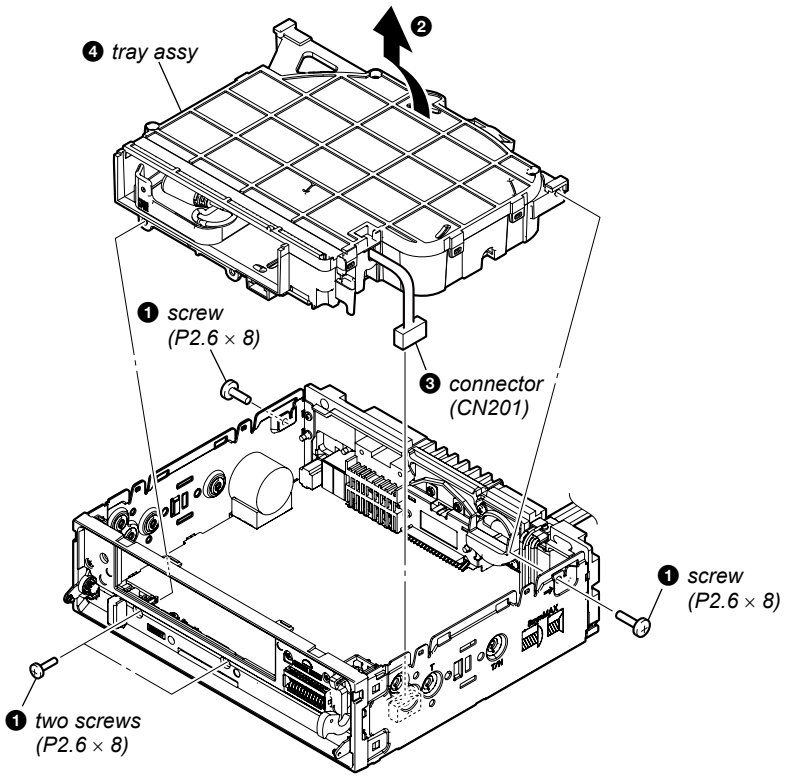



**Note:** Follow the disassembly procedure in the numerical order given.

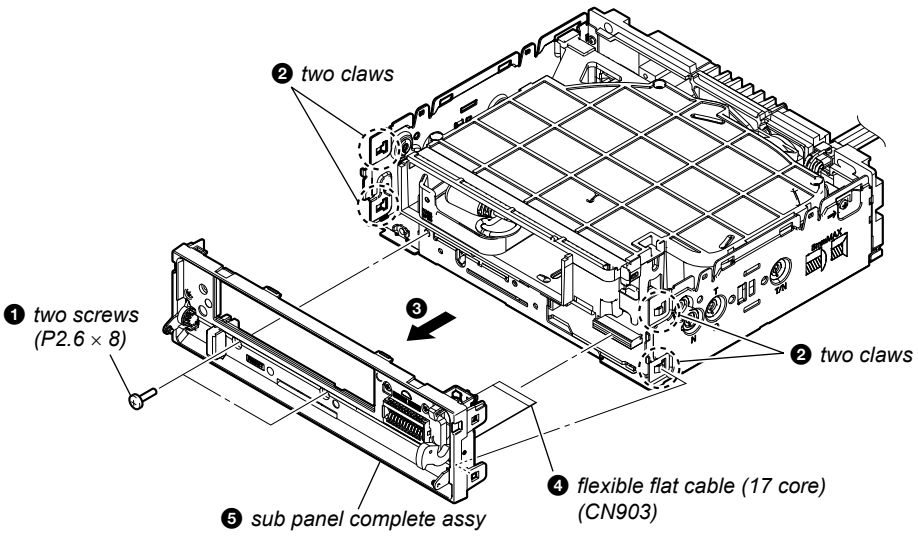
## 3-2. TOP COVER BLOCK



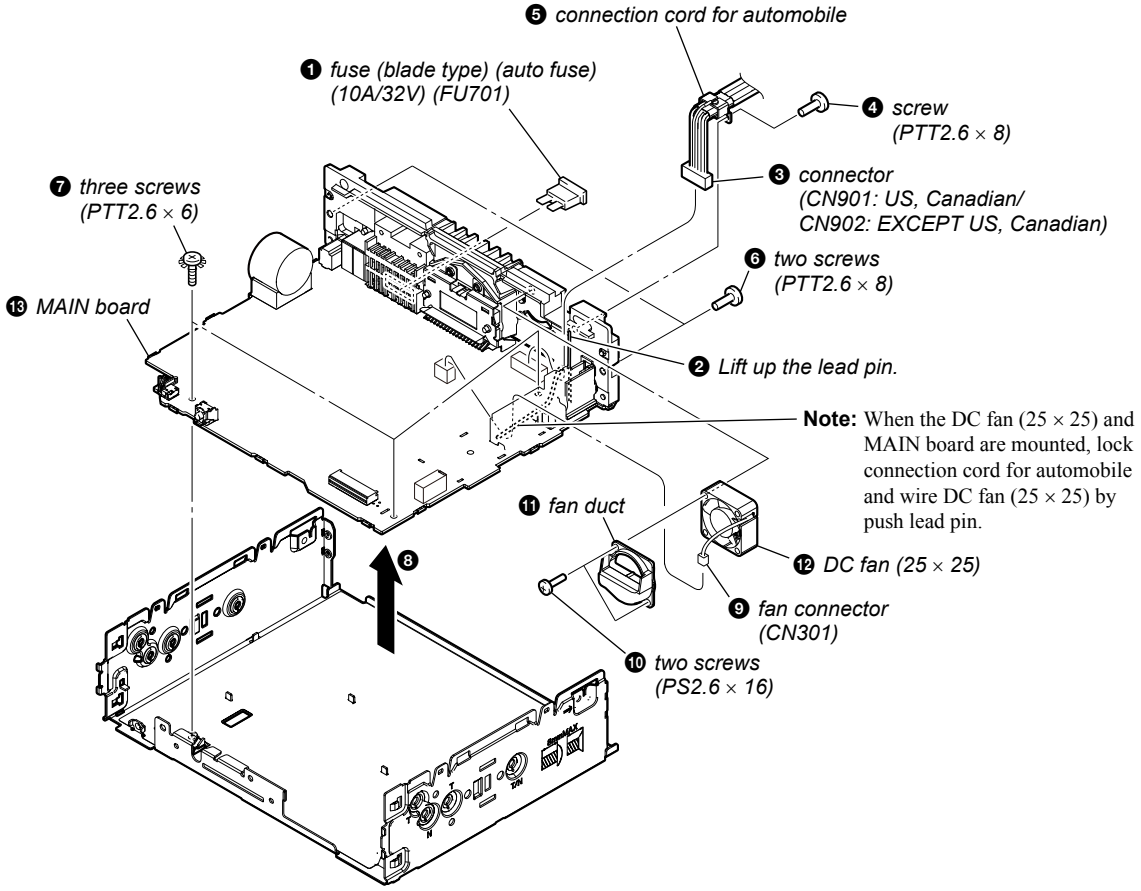
### 3-3. TRAY ASSY




### 3-4. SUB PANEL COMPLETE ASSY

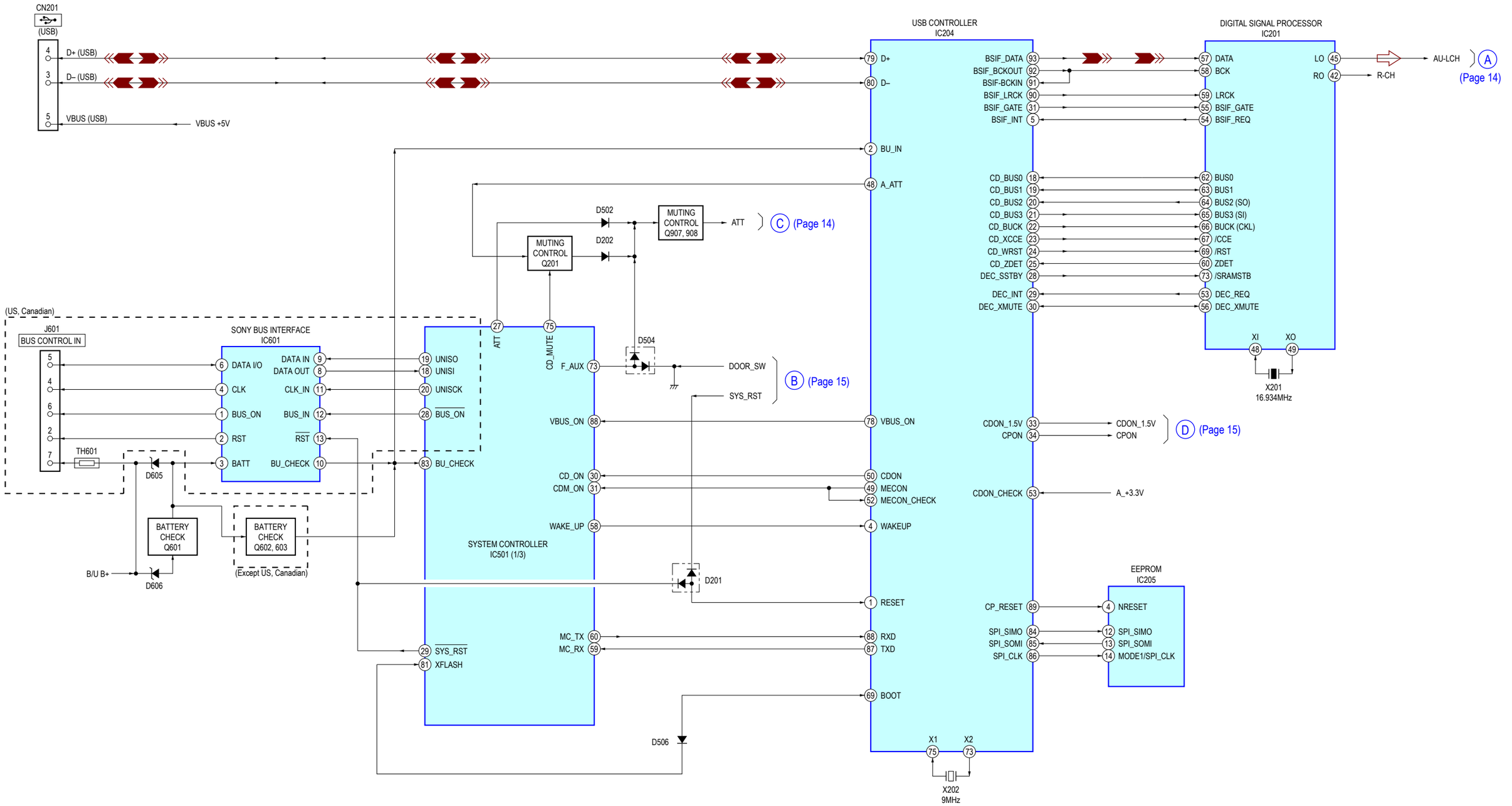


### 3-5. MAIN BOARD



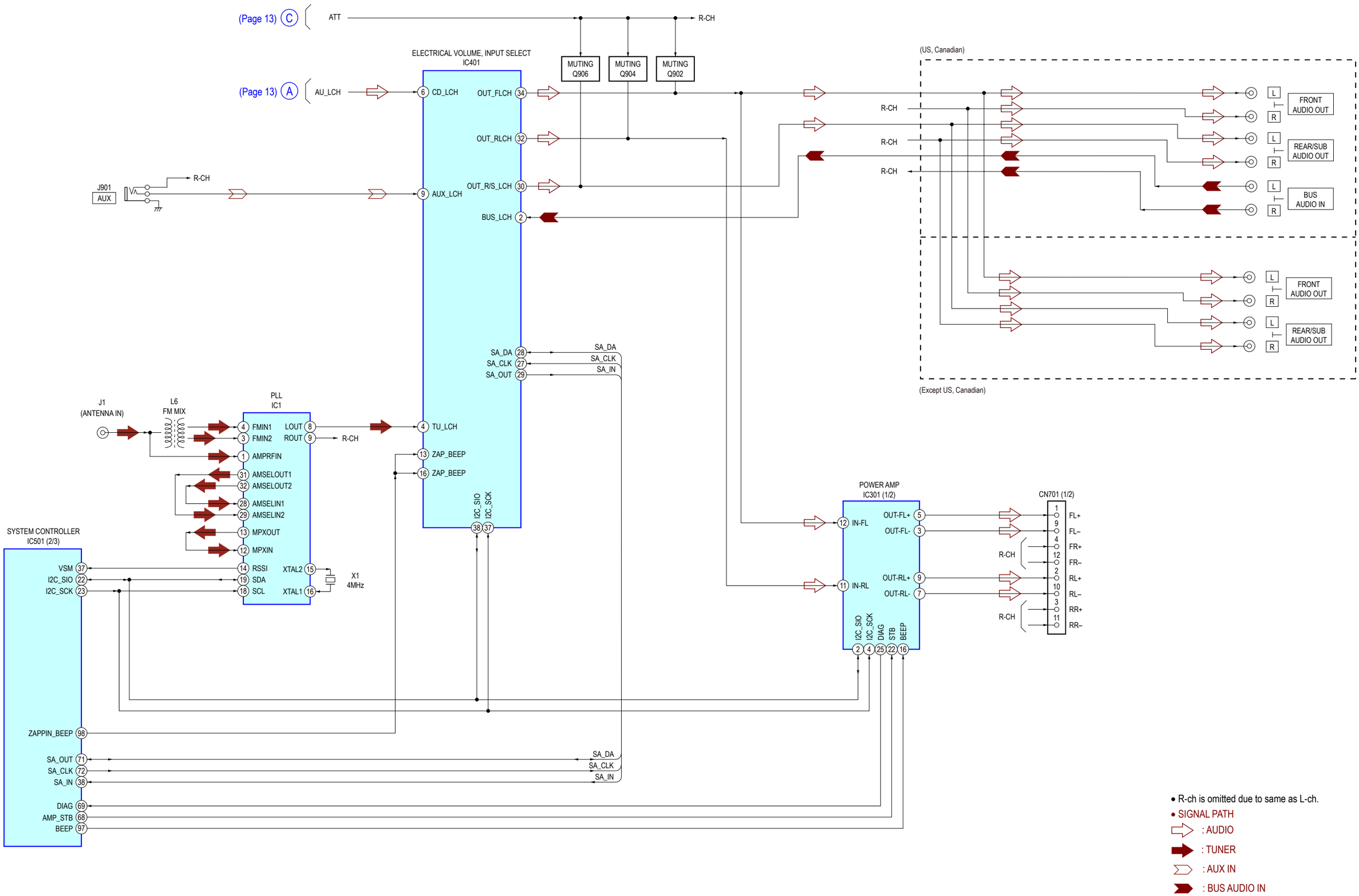
# SECTION 4
# DIAGRAMS

## 4-1. BLOCK DIAGRAM - AUDIO Section (1/2) -



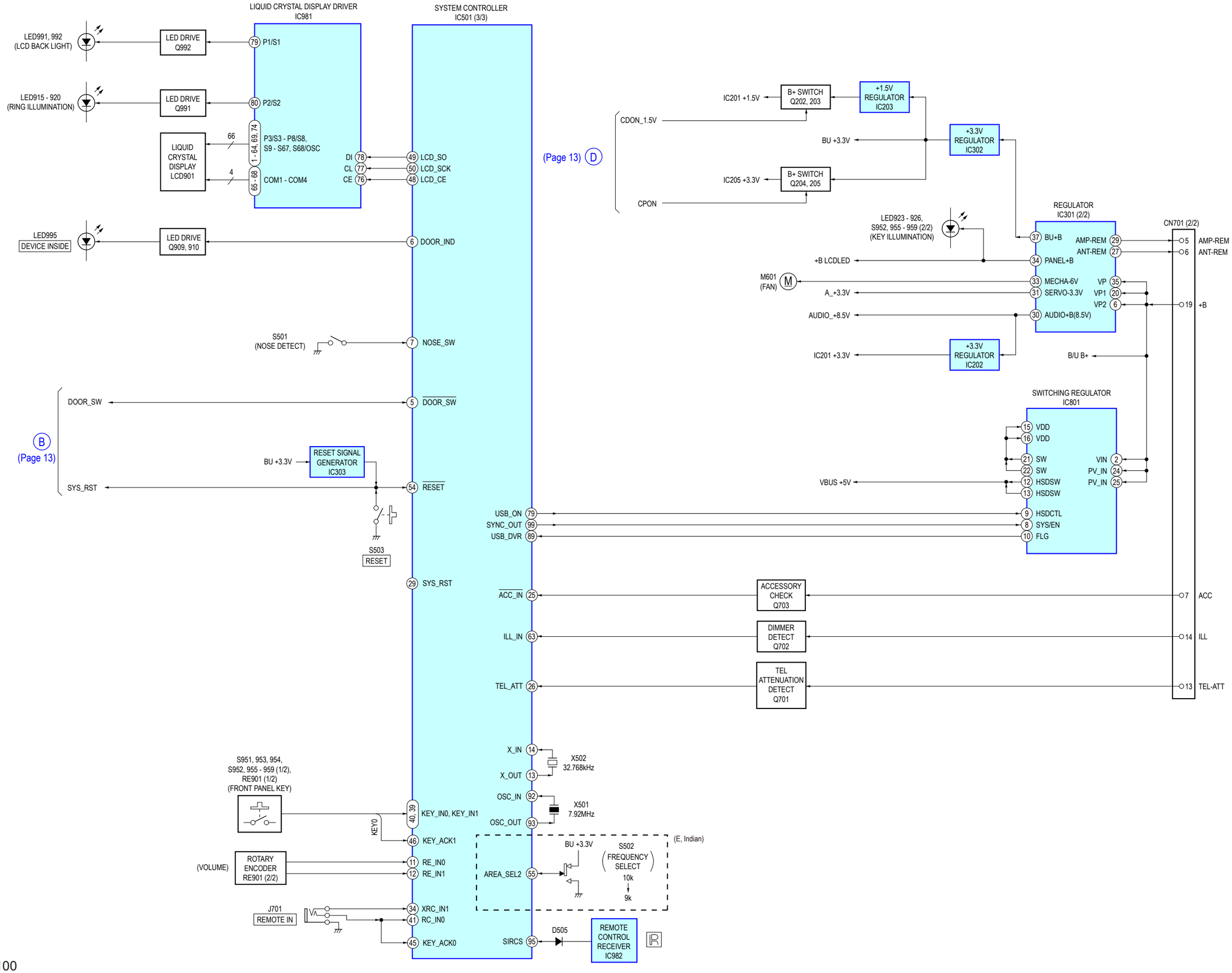

- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - ⇨ : AUDIO
  - ⇛ : USB

## 4-2. BLOCK DIAGRAM - AUDIO Section (2/2) -




- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : AUDIO
  - : TUNER
  - : AUX IN
  - : BUS AUDIO IN

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



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

### For Printed Wiring Boards.

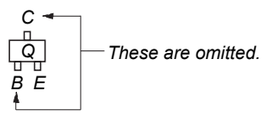
**Note:**

- ○——: Parts extracted from the component side.
- ——: Parts extracted from the conductor side.
- : Indicates side identified with part number.
- △ : Internal component.
- : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

| **Caution:** | |
|---|---|
| Pattern face side: (Conductor Side) | Parts on the pattern face side seen from the pattern face are indicated. |
| Parts face side: (Component Side) | Parts on the parts face side seen from the parts face are 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. |

- Indication of transistor.




- Abbreviation
  CND : Canadian model
  IND : Indian model
  RU : Russian model

### For Schematic Diagrams.

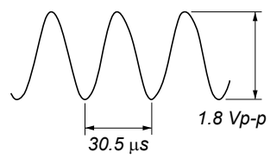
**Note:**

- 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.
- △ : internal component.
- : panel designation.
- : B+ Line.
- Power voltages is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER
- 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.
  : AUDIO
  : TUNER
  : USB
  : AUX IN
  : BUS AUDIO IN
- Abbreviation
  CND : Canadian model
  IND : Indian model
  RU : Russian model

- **Waveforms**

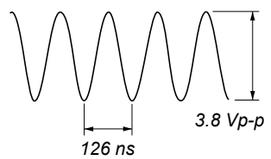
**– MAIN Board –**

① **IC501 ⑬ (X_OUT)**



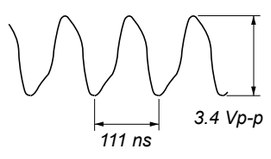

*1 V/DIV, 10 µs/DIV*

② **IC501 ㉝ (OSC_OUT)**



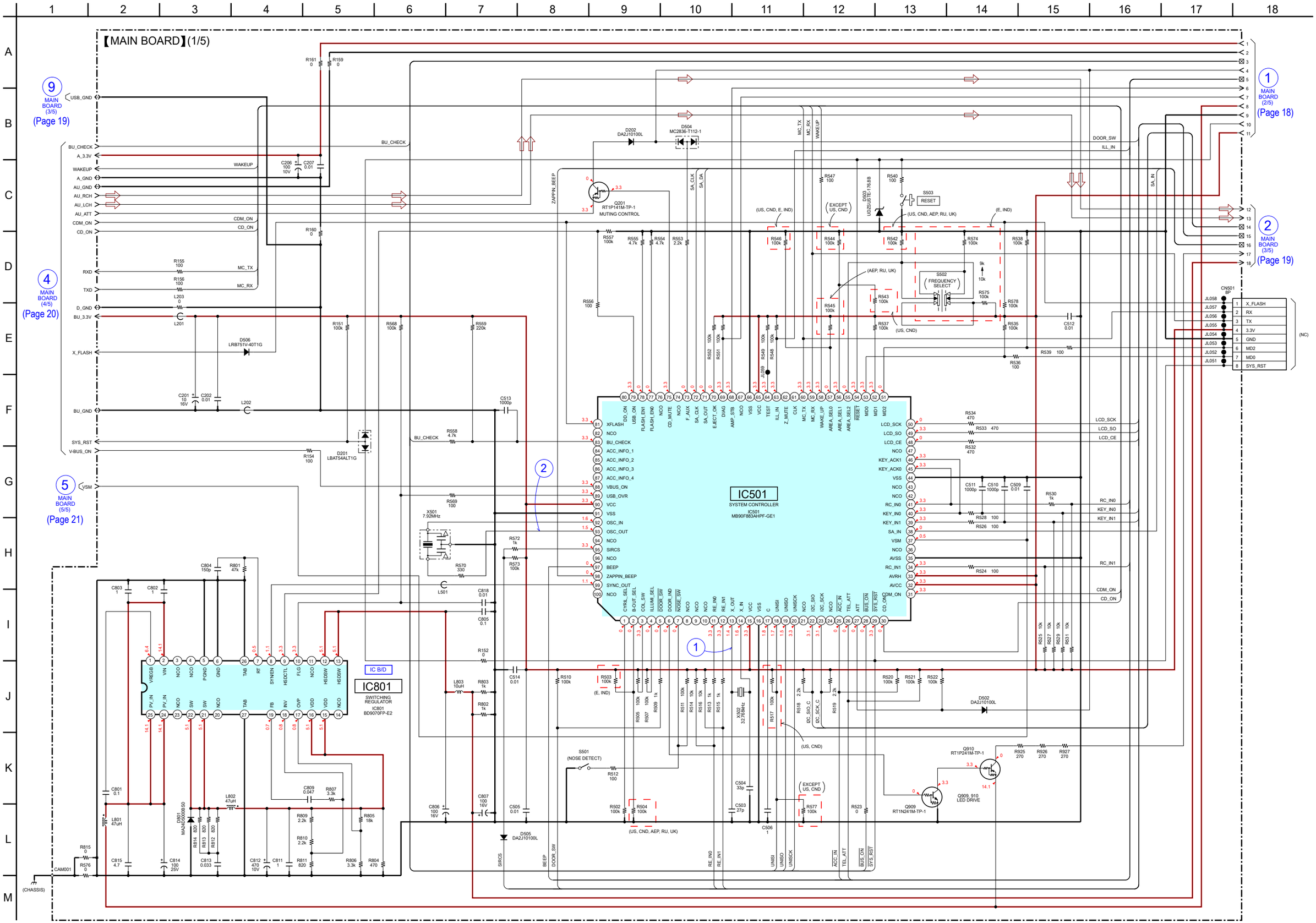

*1 V/DIV, 50 ns/DIV*

③ **IC204 ㉓ (X2)**

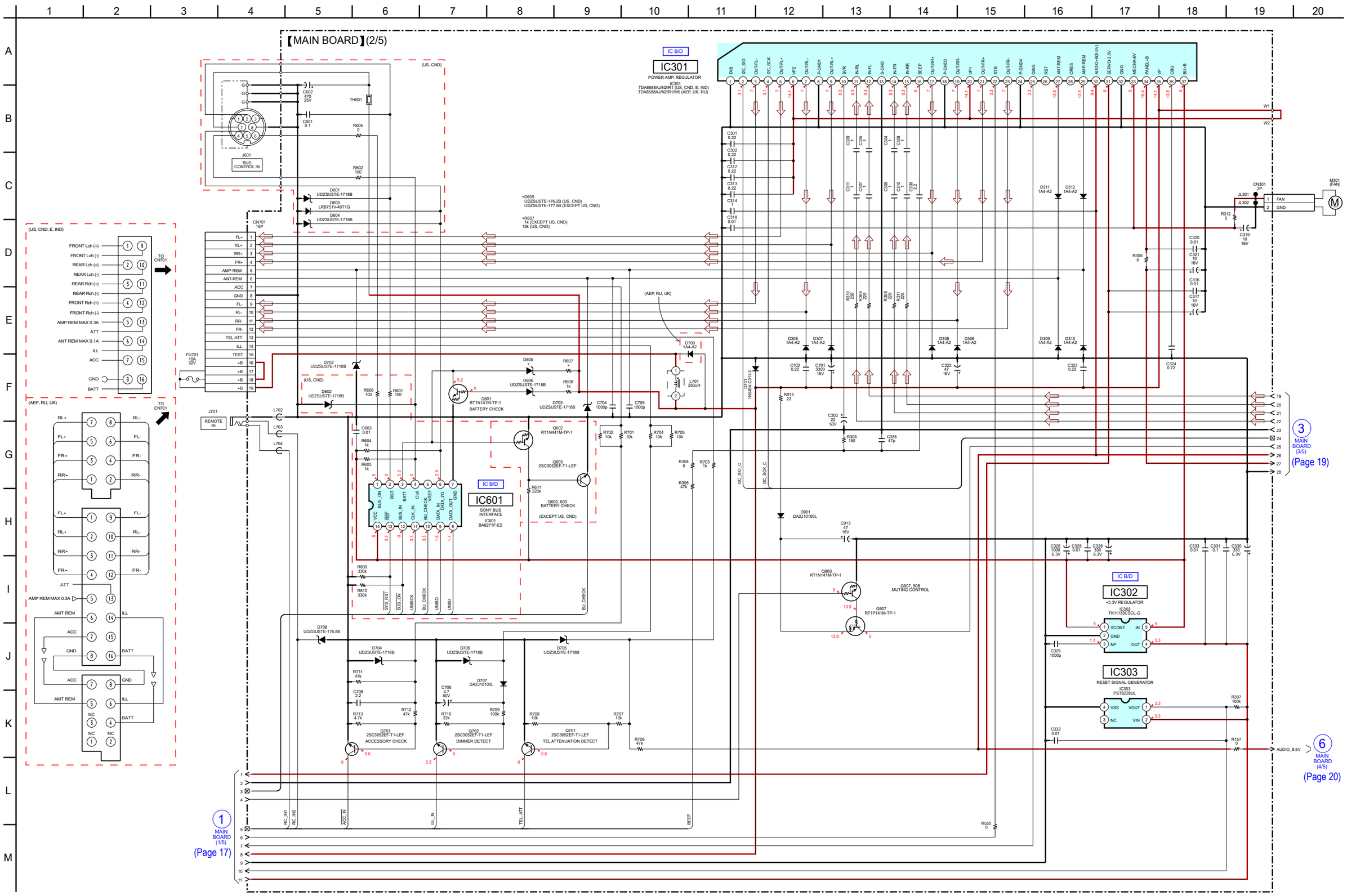



*1 V/DIV, 50 ns/DIV*

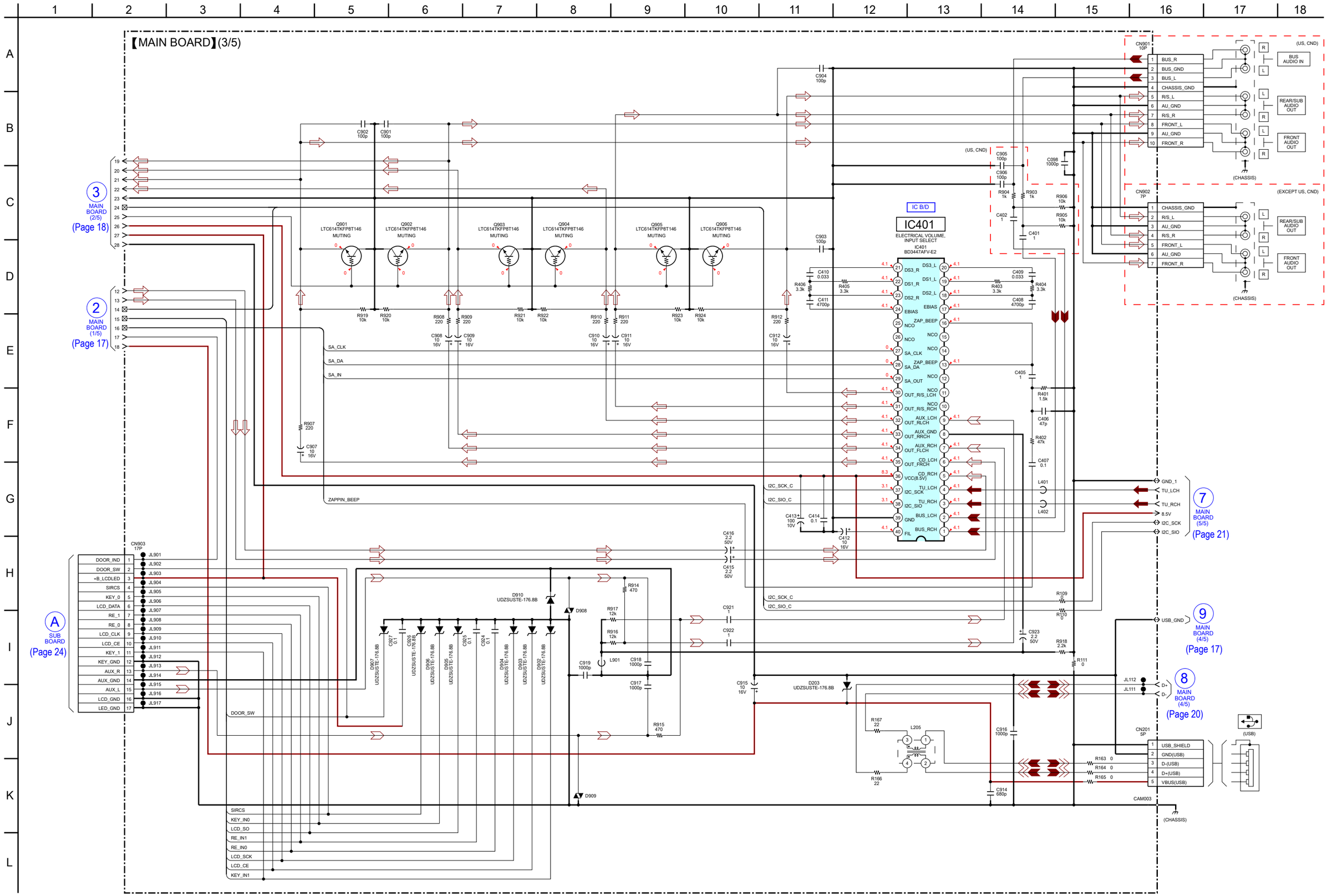
## 4-4. SCHEMATIC DIAGRAM - MAIN Section (1/5) - • See page 16 for Waveforms. • See page 27 for IC Block Diagrams. • See page 31 for IC Pin Function Description.



## 4-5. SCHEMATIC DIAGRAM - MAIN Section (2/5) - • See page 27 for IC Block Diagrams.



## 4-6. SCHEMATIC DIAGRAM - MAIN Section (3/5) - • See page 27 for IC Block Diagrams.



## 4-7. SCHEMATIC DIAGRAM - MAIN Section (4/5) - • See page 16 for Waveforms. • See page 27 for IC Block Diagrams. • See page 31 for IC Pin Function Description.

【MAIN BOARD】(4/5)

IC201
DIGITAL SIGNAL PROCESSOR
IC201
TC94A92FG-301 (S,D)

IC204
USB CONTROLLER
IC204
92FD28AFG-7B32(JZ

IC202
+3.3V REGULATOR
IC202
NJM2878F3-33 (TE2)

IC203
+1.5V REGULATOR
IC203
NJM2878F3-15 (TE2)

IC205
EEPROM
IC205
MFI34152159

IC B/D

8 MAIN BOARD (3/5) (Page 19)

6 MAIN BOARD (2/5) (Page 18)

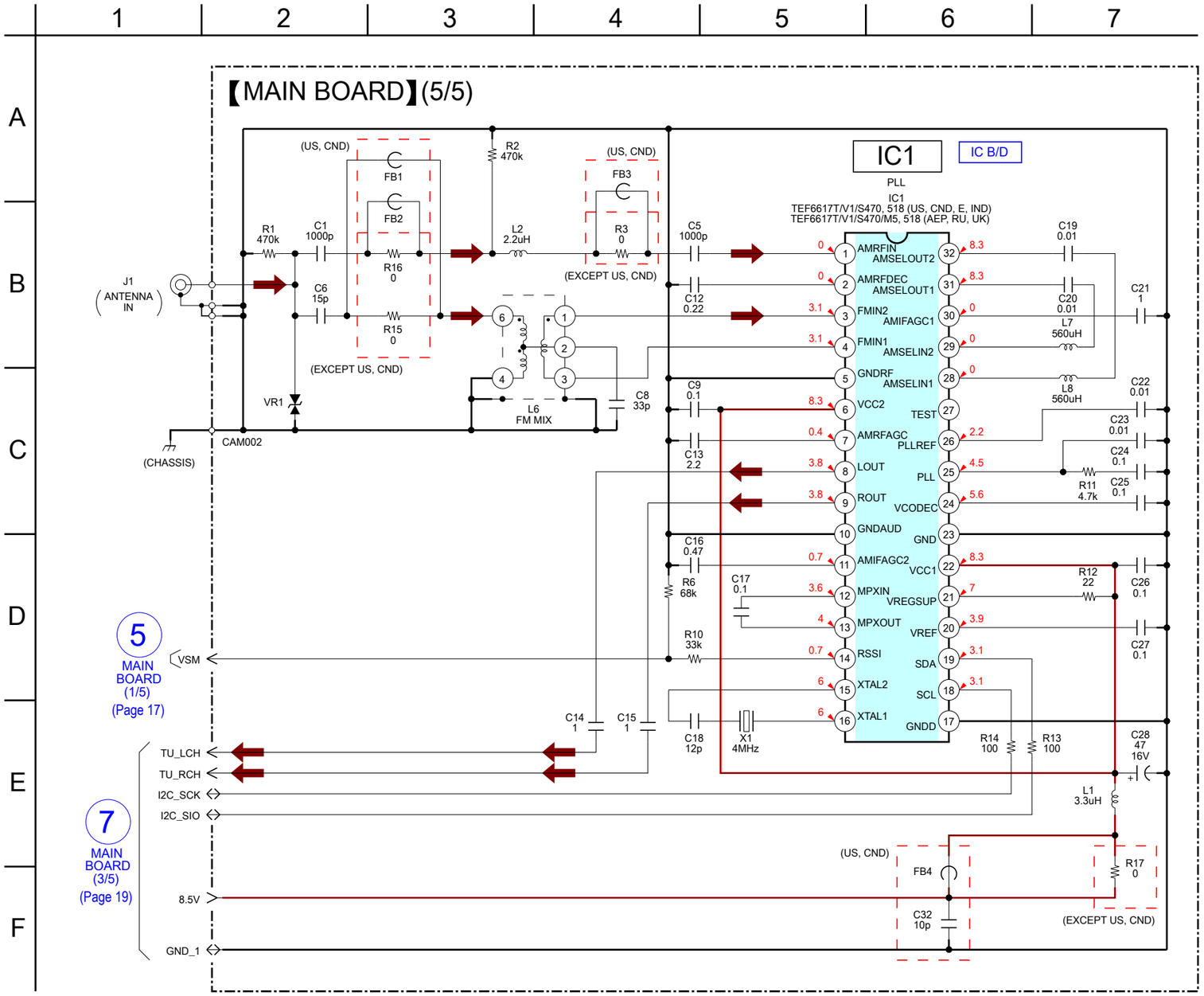
4 MAIN BOARD (1/5) (Page 17)

3

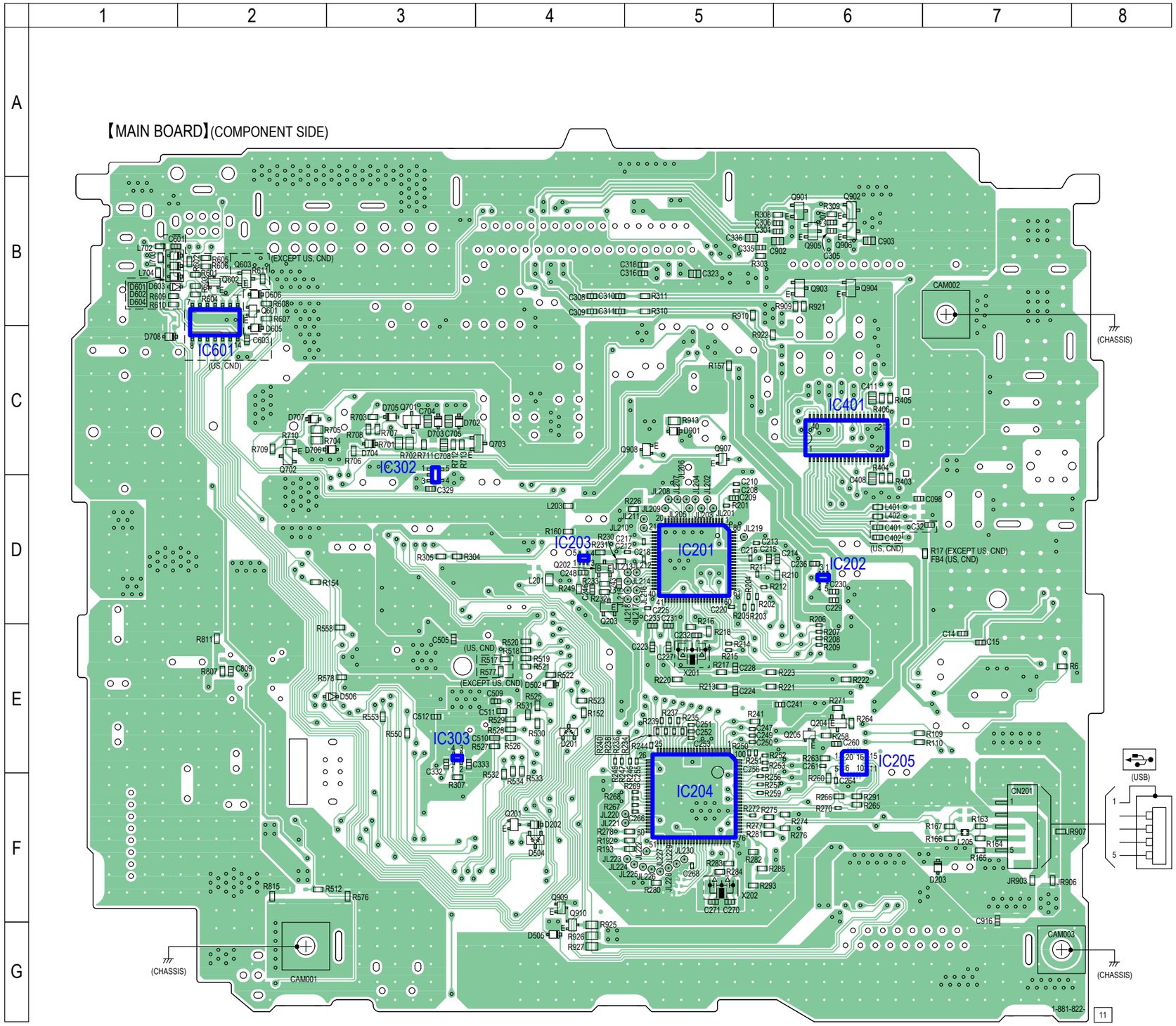
Q202_203 B+ SWITCH

Q204_205 B+ SWITCH

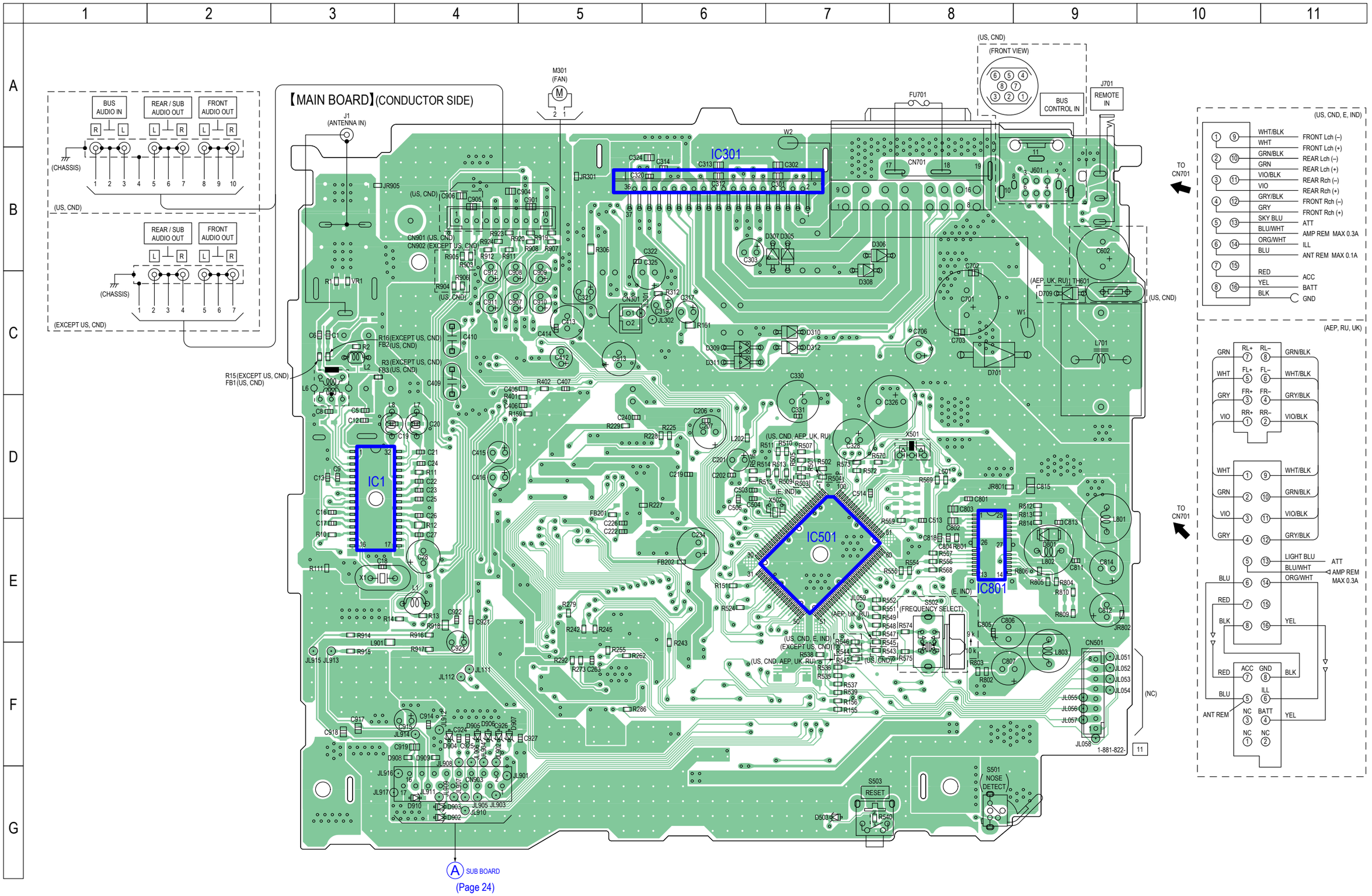
## 4-8. SCHEMATIC DIAGRAM - MAIN Section (5/5) - • See page 27 for IC Block Diagrams.



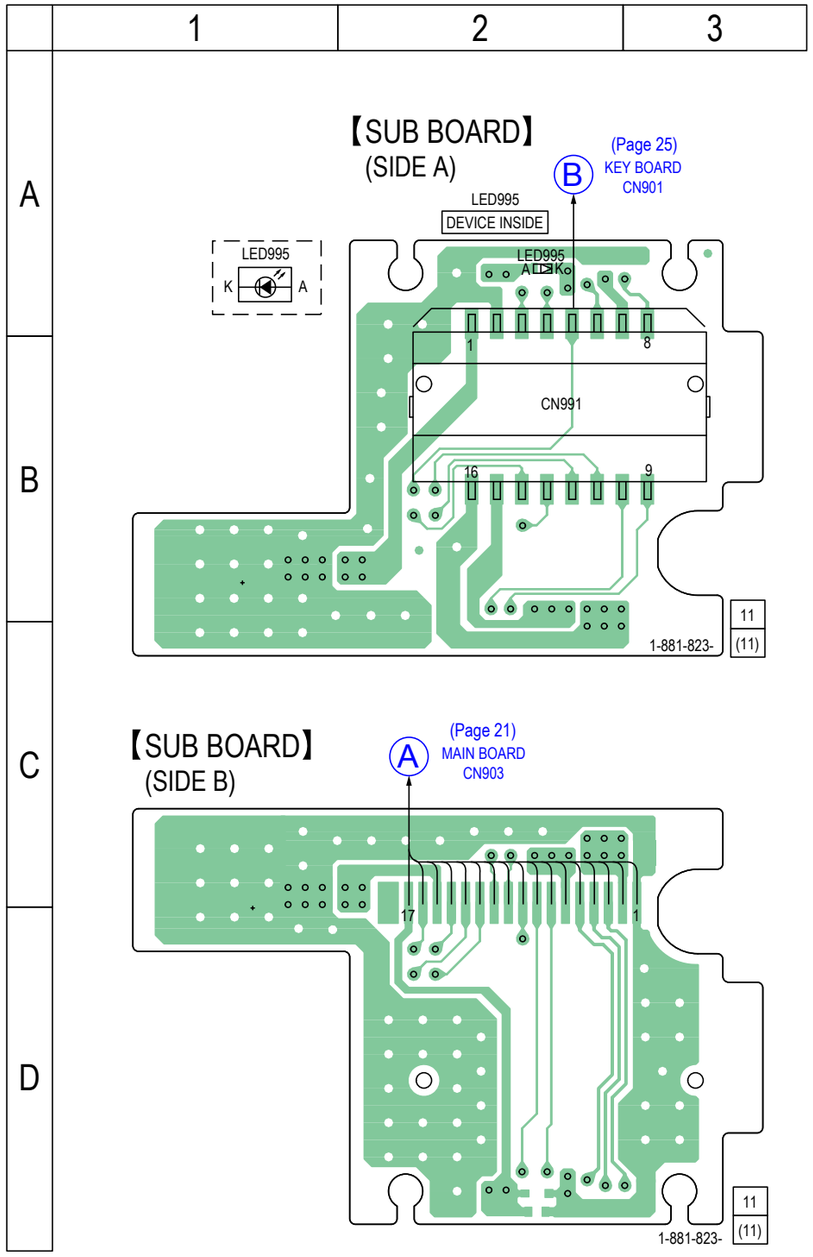
## 4-9. PRINTED WIRING BOARD - MAIN Board (Component Side) - • : Uses unleaded solder.



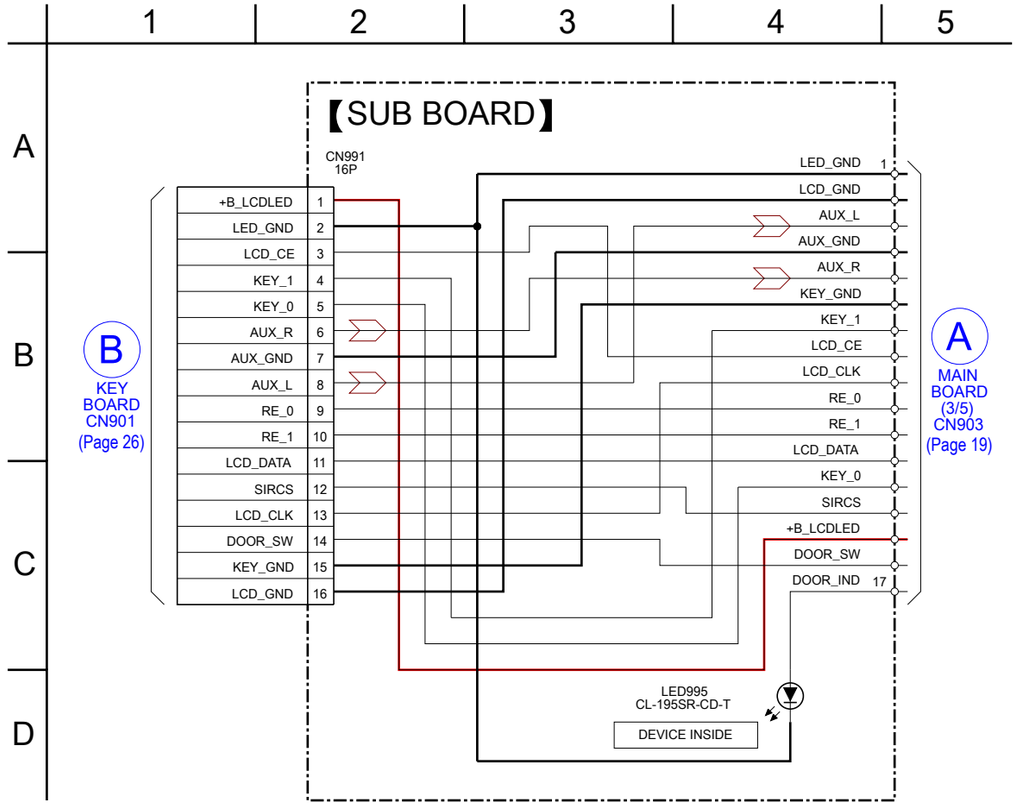
## 4-10. PRINTED WIRING BOARD - MAIN Board (Conductor Side) - • : Uses unleaded solder.



## 4-11. PRINTED WIRING BOARD - SUB Board - • : Uses unleaded solder.

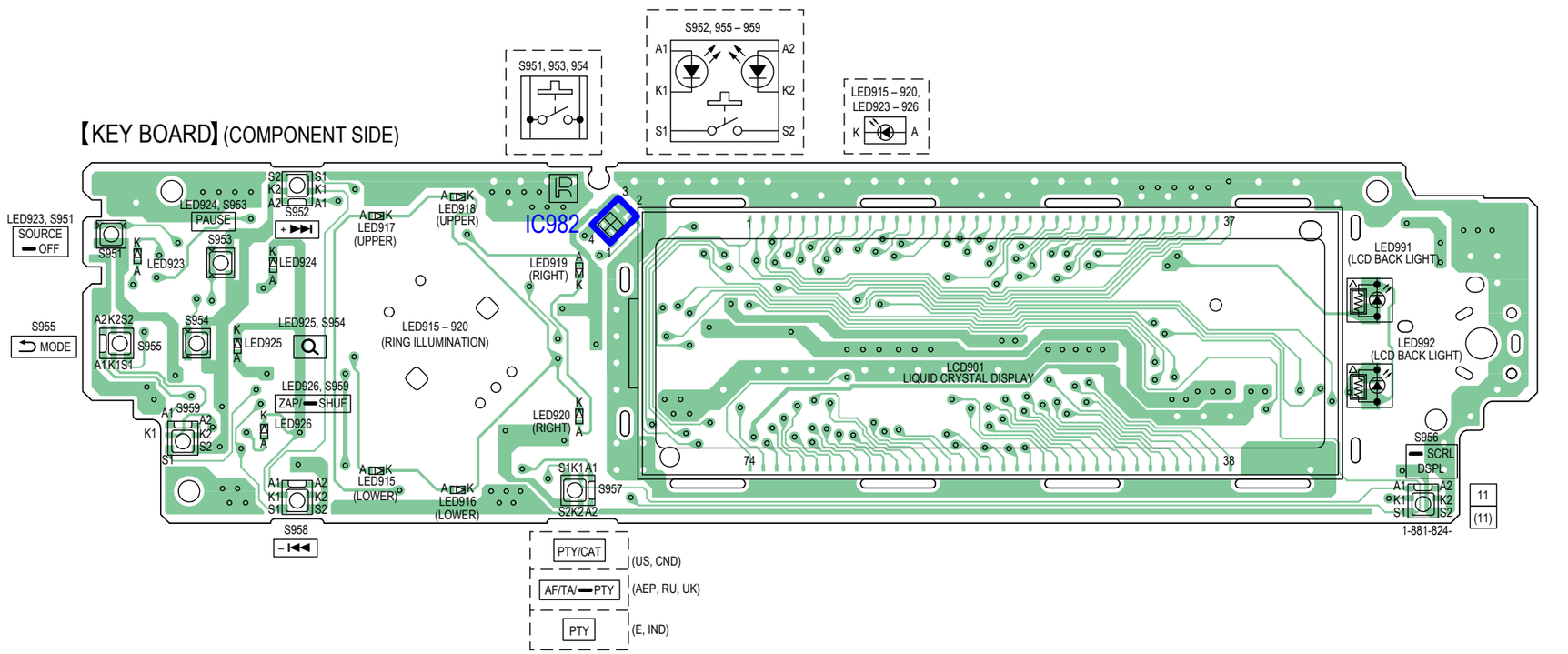



## 4-12. SCHEMATIC DIAGRAM - SUB Board -

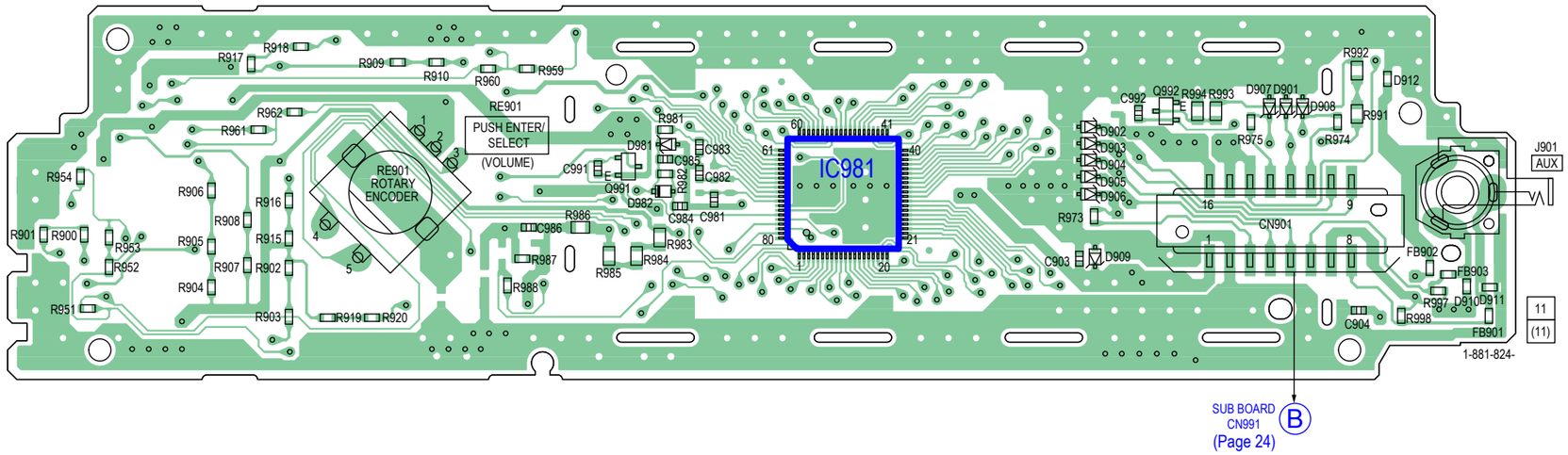


## 4-13. PRINTED WIRING BOARD - KEY Board - • : Uses unleaded solder.

【KEY BOARD】(COMPONENT SIDE)

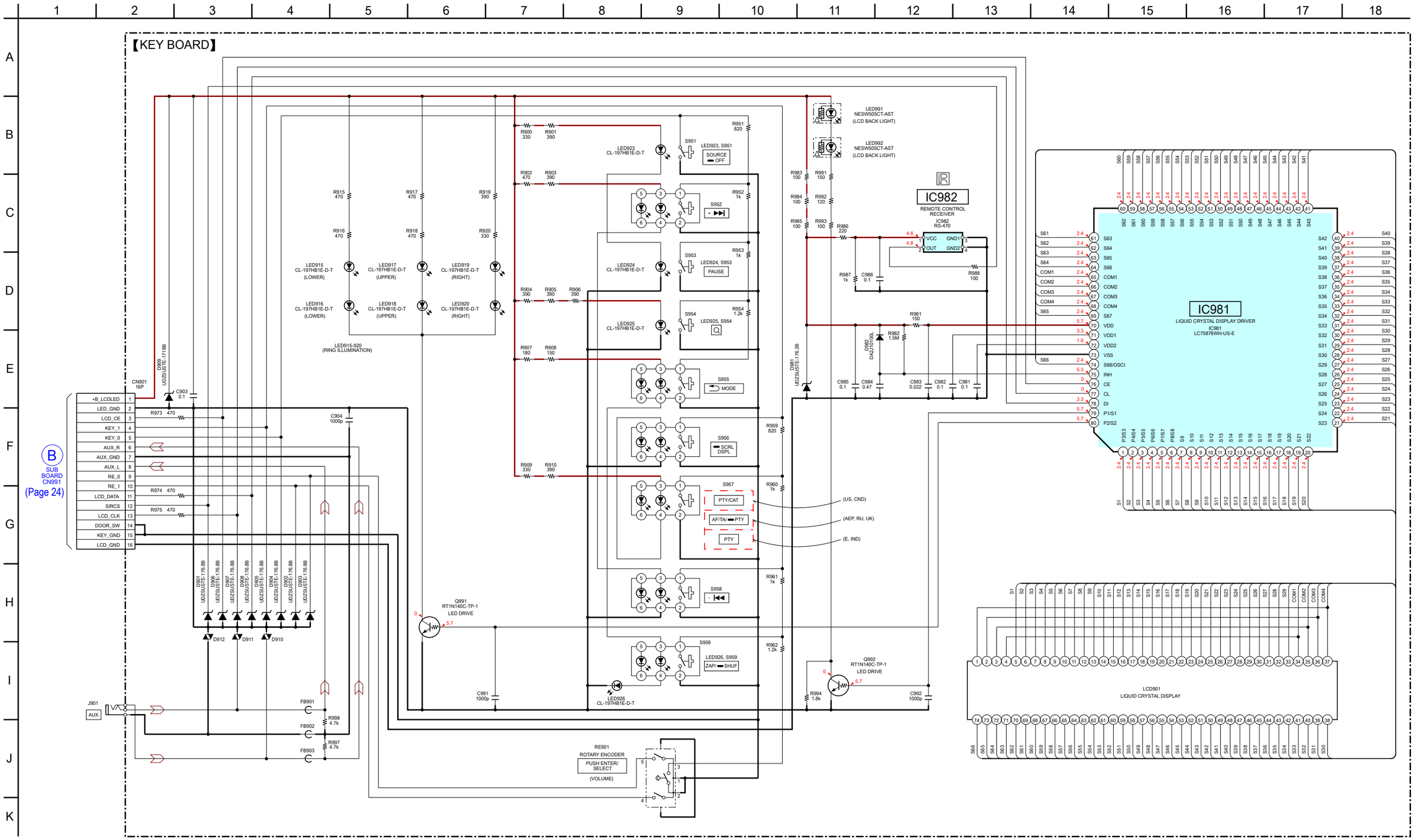



【KEY BOARD】(CONDUCTOR SIDE)




**Note:** Refer to the servicing notes “NOTE FOR REPLACEMENT OF THE AUX JACK (J901)” (See page 3), if replacing the Ref. No. J901.

## 4-14. SCHEMATIC DIAGRAM - KEY Board -

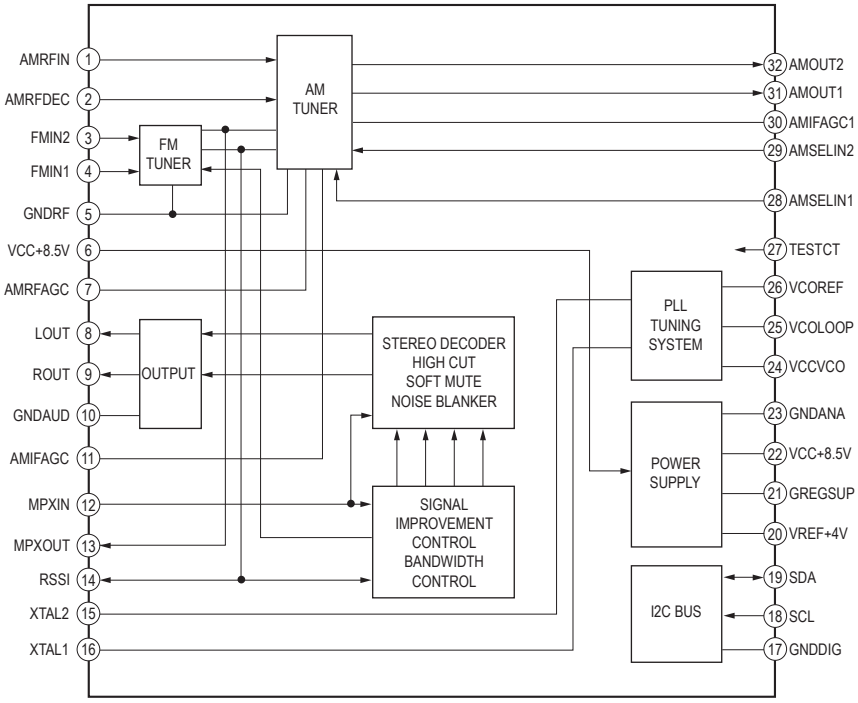



**Note:** Refer to the servicing notes "NOTE FOR REPLACEMENT OF THE AUX JACK (J901)" (See page 3), if replacing the Ref. No. J901.

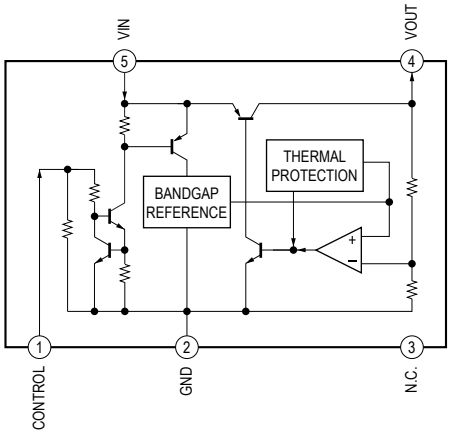
• **IC Block Diagrams**

**– MAIN Board –**

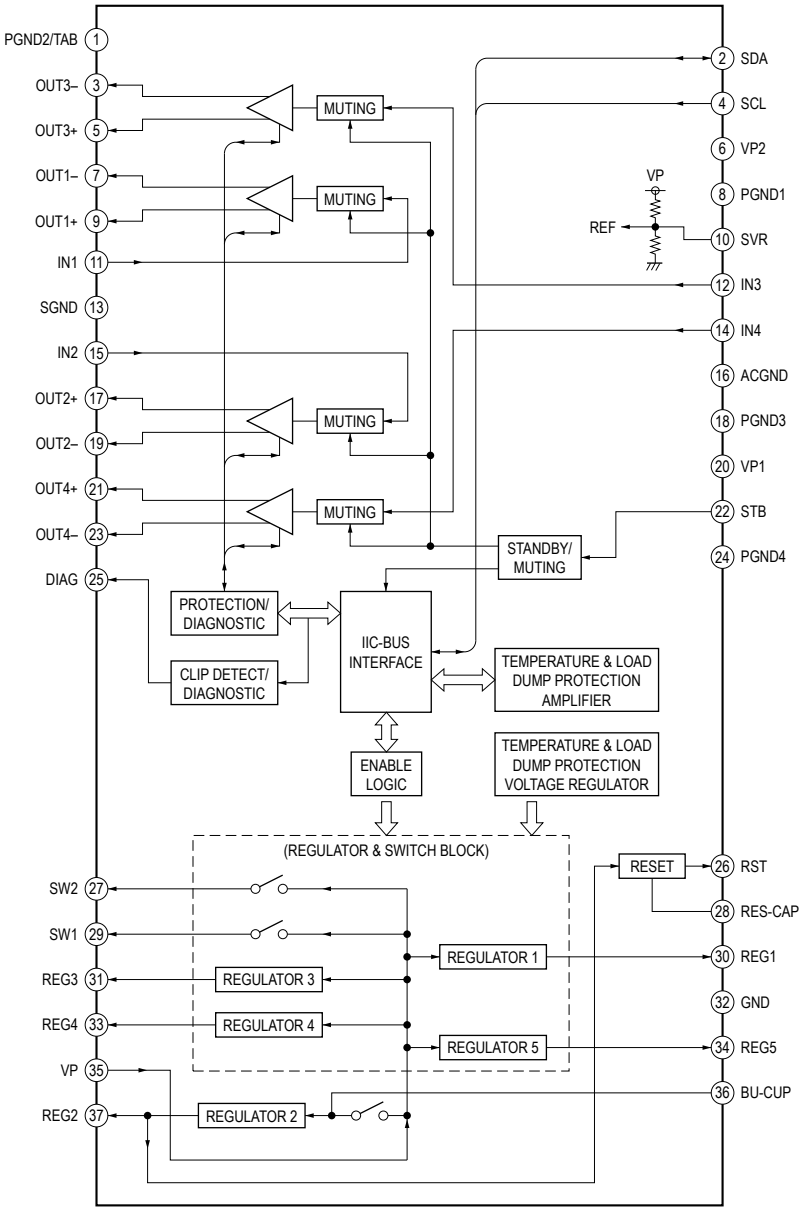
**IC1 TEF6617T/V1/S470, 518 (US, Canadian, E and Indian models)**
**TEF6617T/V1/S470/M5, 518 (AEP, Russian and UK models)**



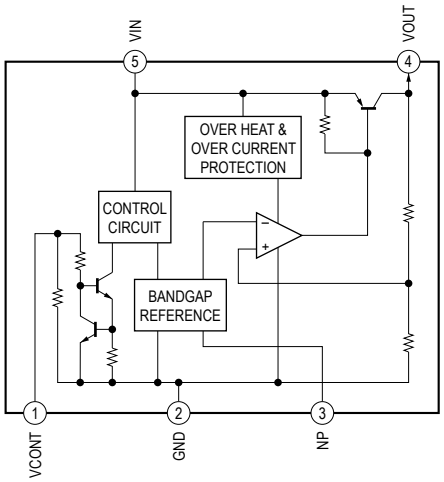

**IC202 NJM2878F3-33 (TE2)**
**IC203 NJM2878F3-15 (TE2)**



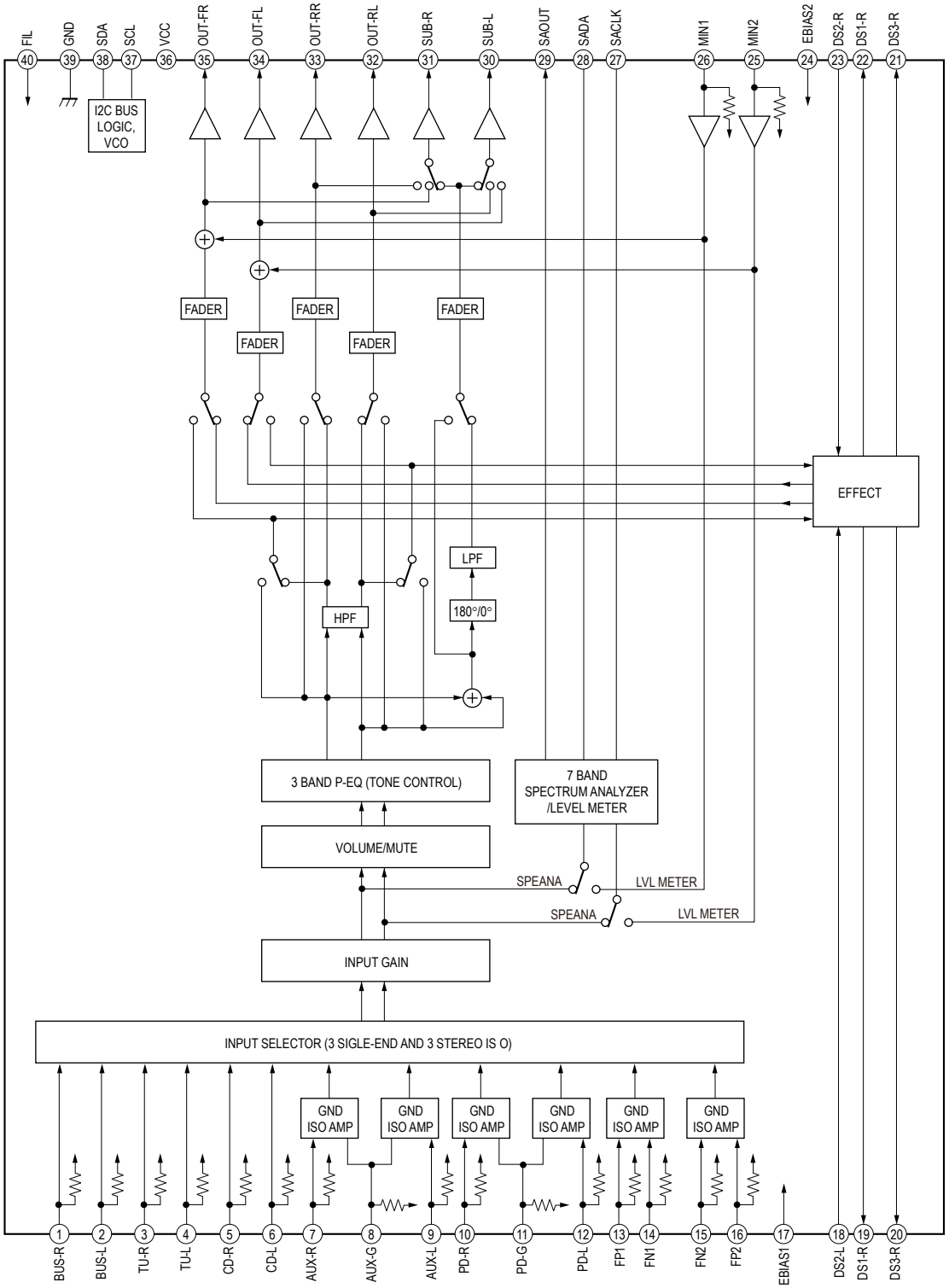
## IC301 TDA8588AJ/N2/R1 (US, Canadian, E and Indian models)
## IC301 TDA8588AJ/N2/R1/M5 (AEP, Russian and UK models)



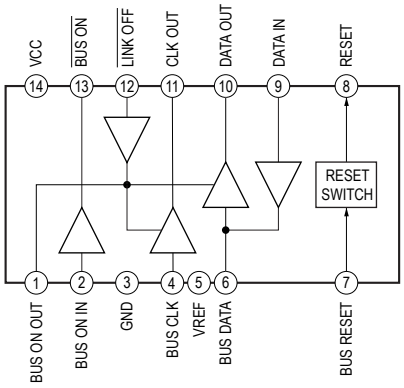

## IC302 TK11133CSCL-G



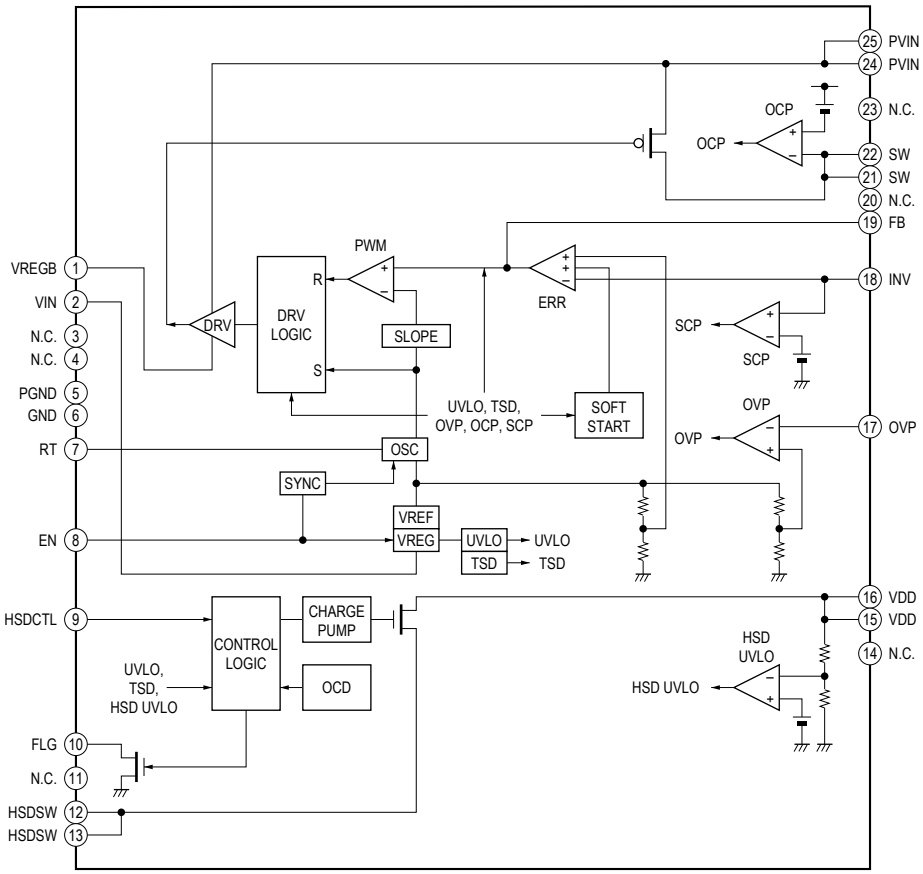
## IC401 BD3447AFV-E2



## IC601 BA8271F-E2




## IC801 BD9070FP-E2



• **IC Pin Function Description**

**MAIN BOARD IC201 TC94A92FG-301 (M) (DIGITAL SIGNAL PROCESSOR)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | VCOI | I | DSP VCO control voltage input terminal |
| 2 | RVDD3 | - | Power supply terminal (+3.3V) |
| 3 | SLCO | O | EFM slice level output terminal Not used |
| 4 | RFI | I | RF signal input terminal Not used |
| 5 | RFRPI | I | RF ripple signal input terminal Not used |
| 6 | RFEQO | O | EFM slice level output terminal Not used |
| 7 | DCOFC | O | Not used |
| 8 | AGCI | I | RF signal amplitude adjustment amplification input terminal Not used |
| 9 | RFO | O | RF signal generation amplification output terminal Not used |
| 10 | RVSS3 | - | Ground terminal |
| 11 | FNI2 | I | Main beam input terminal (Connect with pin diode C) Not used |
| 12 | FNI1 | I | Main beam input terminal (Connect with pin diode A) Not used |
| 13 | FPI2 | I | Main beam input terminal (Connect with pin diode D) Not used |
| 14 | FPI1 | I | Main beam input terminal (Connect with pin diode B) Not used |
| 15 | TPI | I | Sub beam amplification input terminal (Connect with pin diode F) Not used |
| 16 | TNI | I | Sub beam amplification input terminal (Connect with pin diode E) Not used |
| 17 | VRO | O | Reference voltage (+1.65V) output terminal Not used |
| 18 | AVSS3 | - | Ground terminal |
| 19 | MDI | I | Monitor photo diode amplification input terminal Not used |
| 20 | LDO | O | Laser diode amplification output terminal Not used |
| 21 | FE/SBAD | O | Subbeam addition signal output/RF peak detecting phase signal output for hologram selection terminal Not used |
| 22 | RFZI | I | RF ripple zero crossing signal input terminal Not used |
| 23 | RFRP | O | RF ripple signal output terminal Not used |
| 24 | TEI | I | Tracking error signal input terminal Not used |
| 25 | AVDD3 | - | Power supply terminal (+3.3V) |
| 26 | FOO | O | Focus servo equalizer signal output terminal Not used |
| 27 | TRO | O | Tracking servo equalizer signal output terminal Not used |
| 28 | VSS | - | Ground terminal |
| 29 | FMO | O | Feeding servo equalizer signal output terminal Not used |
| 31 | DMO | O | Disc servo equalizer signal output terminal Not used |
| 32 | VDDI-3 | - | Power supply terminal (+1.5V) |
| 33 | Plo8/TxD (SPDIF) | - | Not used |
| 34 | Plo9/RxD (DATA) | - | Not used |
| 35 | Plo10/RTS (BLK) | - | Not used |
| 36 | Plo11/CTS (LRCK) | - | Not used |
| 37 | CDMON0 (DFCT) | - | Not used |
| 38 | CDMON1 (FOK) | - | Not used |
| 39 | CDMON2 (RFOK) | - | Not used |
| 40 | CDMON3 (SBSY) | O | Not used |
| 41 | DVSS3R | - | Ground terminal |
| 42 | RO | O | R channel data (positive) output terminal |
| 43 | DVDD3R | - | Power supply terminal (+3.3V) |
| 44 | DVDD3L | - | Power supply terminal (+3.3V) |
| 45 | LO | O | L channel data (positive) output terminal |
| 46 | DVSS3L | - | Ground terminal |
| 47 | XVSS3 | - | Ground terminal |
| 48 | XI | I | System clock input terminal (16.9344 MHz) |
| 49 | XO | O | System clock output terminal (16.9344 MHz) |
| 50 | XVDD3 | - | Power supply terminal (+3.3V) |
| 51 | VDD1-2 | - | Power supply terminal (+1.5V) |
| 52 | VSS | - | Ground terminal |
| 53 | DEC_REQ | O | Request signal output to the USB controller |
| 54 | BSIF-REQ | O | Request signal output to the USB controller |
| 55 | BSIF-GATE | I | Gate signal input from the USB controller |
| 56 | DEC_XMUTE | O | Muting on/off control signal output to the USB controller |
| 57 | DATA | I | Audio data input from the the USB controller |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 58 | BCK | I | Bit clock signal input from the USB controller |
| 59 | LRCK | I | L/R sampling clock signal (44.1 kHz) input terminal for audio data input |
| 60 | ZDET | O | Zero detection signal output terminal |
| 61 | VDD3 | - | Power supply terminal (+3.3V) |
| 62, 63 | BUS0, BUS1 | I/O | Bus data input/output with the USB controller |
| 64 | BUS2 (SO) | O | Serial data output to the USB controller |
| 65 | BUS3 (SI) | I | Serial data input from the USB controller |
| 66 | BUCK (CLK) | I | Bus clock signal input from the USB controller |
| 67 | /CCE | I | Chip enable signal input from the USB controller |
| 68 | MS | I | I/F mode selection signal input terminal Fixed at “H” in this set |
| 69 | /RST | I | Reset signal input from the USB controller |
| 70 | TEST | I | Setting terminal for test mode Normally fixed at “L” |
| 71 | VDD1-2 | - | Power supply terminal (+1.5V) |
| 72 | VSS | - | Ground terminal |
| 73 | /SRAMSTB | I | Strobe signal input from the USB controller “L”: standby mode |
| 74 | VDDM1 | - | Power supply terminal (+1.5V) |
| 75 | PDO | O | Phase error margin signal between EFM signal and PLCK signal output terminal Not used |
| 76 | TMAX | O | TMAX detection result output terminal Not used |
| 77 | LPFN | I | Inverted signal input from the operation amplifier for PLL loop filter Not used |
| 78 | LPFO | O | Signal output from the operation amplifier for PLL loop filter Not used |
| 79 | PVREF | I | Reference voltage (+1.65V) input terminal Not used |
| 80 | VCOF | O | Terminal for VCO filter Not used |

**MAIN BOARD IC204 92FD28AFG7F88 (SYJZ) (USB CONTROLLER)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | RESET | I | Reset signal input from the system controller "L": reset |
| 2 | BU_IN | I | Back up power supply detection signal input terminal "H": back up power on |
| 3 | MEC_SELFSW | I | Detection input terminal from the disc self store detect switch on the mechanism deck section Fixed at "H" in this set |
| 4 | WAKEUP | I | Wakeup signal input from the system controller |
| 5 | BSIF-INT | I | Request signal input from the digital signal processor |
| 6 | DVCC3B | - | Power supply terminal (+3.3V) |
| 7 | XT1 | I | Fixed at "H" in this set |
| 8 | XT2 | - | Not used |
| 9 | PWE | - | Not used |
| 10 | DVSS | - | Ground terminal |
| 11 | DVCC1B | - | Power supply terminal (+3.3V) |
| 12 | RVOUT1 | O | Reference voltage (+3.3V) output terminal |
| 13, 14 | RVIN | I | Reference voltage (+3.3V) input terminal |
| 15 | RVOUT2 | O | Reference voltage (+3.3V) output terminal |
| 16 | DVCC1A | - | Power supply terminal |
| 17 | DVSS | - | Ground terminal |
| 18, 19 | CD_BUS0, CD_BUS1 | I/O | Bus data input/output with digital signal processor |
| 20 | CD_BUS2 | I | Serial data input from the digital signal processor |
| 21 | CD_BUS3 | O | Serial data output to the digital signal processor |
| 22 | CD_BUCK | O | Serial data transfer clock signal output to the digital signal processor |
| 23 | CD_XCCE | O | Chip enable signal output to the digital signal processor |
| 24 | CD_WRST | O | Reset signal output to the digital signal processor "L": reset |
| 25 | CD_ZDET | I | Zero detection signal input from the digital signal processor |
| 26 | DVSS | - | Ground terminal |
| 27 | DVCC3A | - | Power supply terminal (+3.3V) |
| 28 | DEC_SSTBY | O | "Standby on/off control signal output to the digital signal processor "L" : standby mode |
| 29 | DEC_INT | I | Request signal input from the digital signal processor |
| 30 | DEC_XMUTE | I | Muting on/off control signal input from the digital signal processor |
| 31 | BSIF_GATE | O | Gate signal output to the digital signal processor |
| 32 | NC | - | Not used |
| 33 | CDON_1.5V | O | Power supply on/off control signal output terminal |
| 34 | CPON | O | Power supply on/off control signal output terminal "H": power on |
| 35 | NC | - | Not used |
| 36 | DRV_ON | - | Not used |
| 37 | MEC_LOAD | - | Not used |
| 38 | MEC_EJECT | - | Not used |
| 39 | MEC_LIMIT | I | Fixed at "H" in this set |
| 40 | MEC_INSW | I | Fixed at "H" in this set |
| 41 | MEC_DSW | I | Fixed at "H" in this set |
| 42, 43 | NC | - | Not used |
| 44 | DVSS | - | Ground terminal |
| 45 | DVCC3A | - | Power supply terminal (+3.3V) |
| 46 | EJECT_OK | - | Not used |
| 47 | OPEN_REQ | - | Not used |
| 48 | A-ATT | O | Muting on/off control signal output terminal |
| 49 | MECON | O | CD mecha power supply control request output terminal |
| 50 | CDON | O | CD servo power supply control request output terminal |
| 51 | ZMUTE | - | Not used |
| 52 | MECON_CHECK | I | Check detection signal input terminal |
| 53 | CDON_CHECK | I | Check detection signal input terminal |
| 54 to 61 | NC | - | Not used |
| 62 | DVSS | - | Ground terminal |
| 63 | DVCC3A | - | Power supply terminal (+3.3V) |
| 64 | XLINE | - | Not used |
| 65 | XINTO | - | Not used |
| 66 | FE/SBAD_SEL | - | Not used |
| 67 | Z/Y_SEL | - | Not used |
| 68 | NC | - | Not used |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 69 | BOOT | I | Boot mode selection signal input terminal “L”: boot mode |
| 70, 71 | NC | - | Not used |
| 72 | AM1 | I | Function mode selection signal input terminal Fixed at “H” in this set |
| 73 | X2 | O | System clock output terminal (9 MHz) |
| 74 | DVSS | - | Ground terminal |
| 75 | X1 | I | System clock input terminal (9 MHz) |
| 76 | DVCC3A | - | Power supply terminal (+3.3V) |
| 77 | NC | - | Not used |
| 78 | VBUS_ON | O | VBUS power on/off control signal output terminal “H”: power on |
| 79 | D+ | I/O | Two-way USB data (positive) with the USB connector |
| 80 | D- | I/O | Two-way USB data (negative) with the USB connector |
| 81 | AM0 | I | Function mode selection signal input terminal Fixed at “H” in this set |
| 82 | NC | - | Fixed at “L” in this set |
| 83 | DVSS | - | Ground terminal |
| 84 | SPI_SIMO | O | Serial data output to the EEPROM |
| 85 | SPI_SOMI | I | Serial data input from the EEPROM |
| 86 | SPI_CKL | O | Serial data transfer clock signal output to the EEPROM |
| 87 | TXD | O | Serial transmit data output to the system controller |
| 88 | RXD | I | Serial receive data input from the system controller |
| 89 | CP_RESET | O | Reset signal output to the EEPROM |
| 90 | BSIF_LRCK | O | L/R sampling clock signal output to the digital signal processor |
| 91 | BSIF_BCKIN | I | Bit clock signal input terminal |
| 92 | BSIF_BCKOUT | O | Bit clock signal output to the digital signal processor |
| 93 | BSIF_DATA | O | Audio data output to the digital signal processor |
| 94 | NC | - | Not used |
| 95 | DVCC3A | - | Power supply terminal (+3.3V) |
| 96 to 99 | NC | - | Fixed at “L” in this set |
| 100 | DVSS | - | Ground terminal |

**MAIN BOARD IC501 MB90F058PF-G-119-JNE1 (SYSTEM CONTROLLER)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | CYRIL_SEL | I | Cyrillic letter response setting terminal "H": corresponds to Cyrillic letter |
| 2 | B-OUT_SEL | I | Blackout setting terminal "H": blackout effective |
| 3 | COL_SW | I | Setting terminal for the illumination color<br>"L": 2 colors, "H": 1 color Fixed at "H" in this set |
| 4 | ILLUMI_SEL | I | Setting terminal for the illumination color<br>"L": 2 colors, "H": 1 color Fixed at "H" in this set |
| 5 | $\overline{\text{DOOR SW}}$ | I | Front panel remove/attach detection signal input terminal<br>"L": front panel is attached |
| 6 | DOOR_IND | O | LED drive signal output terminal |
| 7 | $\overline{\text{NOSE_SW}}$ | I | Front panel remove/attach detection signal input terminal "L": front panel is attached |
| 8 to 10 | NCO | - | Not used |
| 11, 12 | RE_IN0, RE_IN1 | I | Jog dial pulse input from the rotary encoder |
| 13 | X_OUT | O | Sub system clock output terminal (32.768 kHz) |
| 14 | X_IN | I | Sub system clock input terminal (32.768 kHz) |
| 15 | VCC | - | Power supply terminal (+3.3V) |
| 16 | VSS | - | Ground terminal |
| 17 | C | - | Regulator stabilization capacity connecting pin |
| 18 | UNISI | I | SONY bus data input terminal (US and Canadian models only) |
| 19 | UNISO | O | SONY bus data output terminal (US and Canadian models only) |
| 20 | UNISCK | O | SONY bus clock signal output terminal (US and Canadian models only) |
| 21 | NCO | - | Not used |
| 22 | I2C_SIO | I/O | IIC two-way data bus |
| 23 | I2C_SCK | O | IIC data transfer clock signal output terminal |
| 24 | NCO | O | Not used |
| 25 | $\overline{\text{ACC_IN}}$ | I | Accessory power detection signal input terminal "L": accessory power on |
| 26 | TEL_ATT | I | Telephone muting detection signal input terminal<br>At input of "H", the audio signal is attenuated by 20 dB |
| 27 | ATT | O | Muting on/off control signal output terminal |
| 28 | BUS_ON | O | SONY bus on/off control signal output to the SONY bus interface<br>"L": bus on (US and Canadian models only) |
| 29 | $\overline{\text{SYS_RST}}$ | O | Reset signal output terminal |
| 30 | CD_ON | I | CD servo power supply control request input terminal |
| 31 | CDM_ON | I | CD mecha power supply control request input terminal |
| 32 | AVCC | - | Power supply terminal (+3.3V) |
| 33 | AVRH | I | Reference voltage (+3.3V) input terminal |
| 34 | RC_IN1 | I | Rotary remote commander shift key input terminal |
| 35 | AVSS | - | Ground terminal |
| 36 | NCO | - | Not used |
| 37 | VSM | I | FM and AM signal-meter voltage detection signal input from the PLL |
| 38 | SA_IN | I | Spectrum analyzer display data select signal input terminal |
| 39, 40 | KEY_IN1, KEY_IN0 | I | Front panel key input terminal |
| 41 | RC_IN0 | I | Rotary remote commander shift key input terminal |
| 42, 43 | NCO | - | Not used |
| 44 | VSS | - | Ground terminal |
| 45 | KEY_ACK0 | I | Acknowledge signal (wake up signal) input terminal for the rotary remote commander<br>On at input of "H" |
| 46 | KEY_ACK1 | I | Acknowledge signal (wake up signal) input terminal for the front panel key On at input of "H" |
| 47 | NCO | O | Not used |
| 48 | LCD_CE | O | Chip enable signal output to the liquid crystal display driver |
| 49 | LCD_SO | O | Serial data output to the liquid crystal display driver |
| 50 | LCD_SCK | O | Serial data transfer clock signal output to the liquid crystal display driver |
| 51 to 53 | MD2, MD1, MD0 | I | Operation mode setting terminal |
| 54 | $\overline{\text{RESET}}$ | I | System reset signal input from the reset signal generator and reset switch "L": reset" |
| 55 to 57 | AREA_SEL2 to<br>AREA_SEL0 | I | Setting terminal for the destination |
| 58 | WAKE_UP | O | Wakeup signal output to the USB controller |
| 59 | MC_RX | I | Serial receive data input from the USB controller |
| 60 | MC_TX | O | Serial transmit data output to the USB controller |
| 61 | CLK | O | Not used |
| 62 | Z_MUTE | O | Not used |

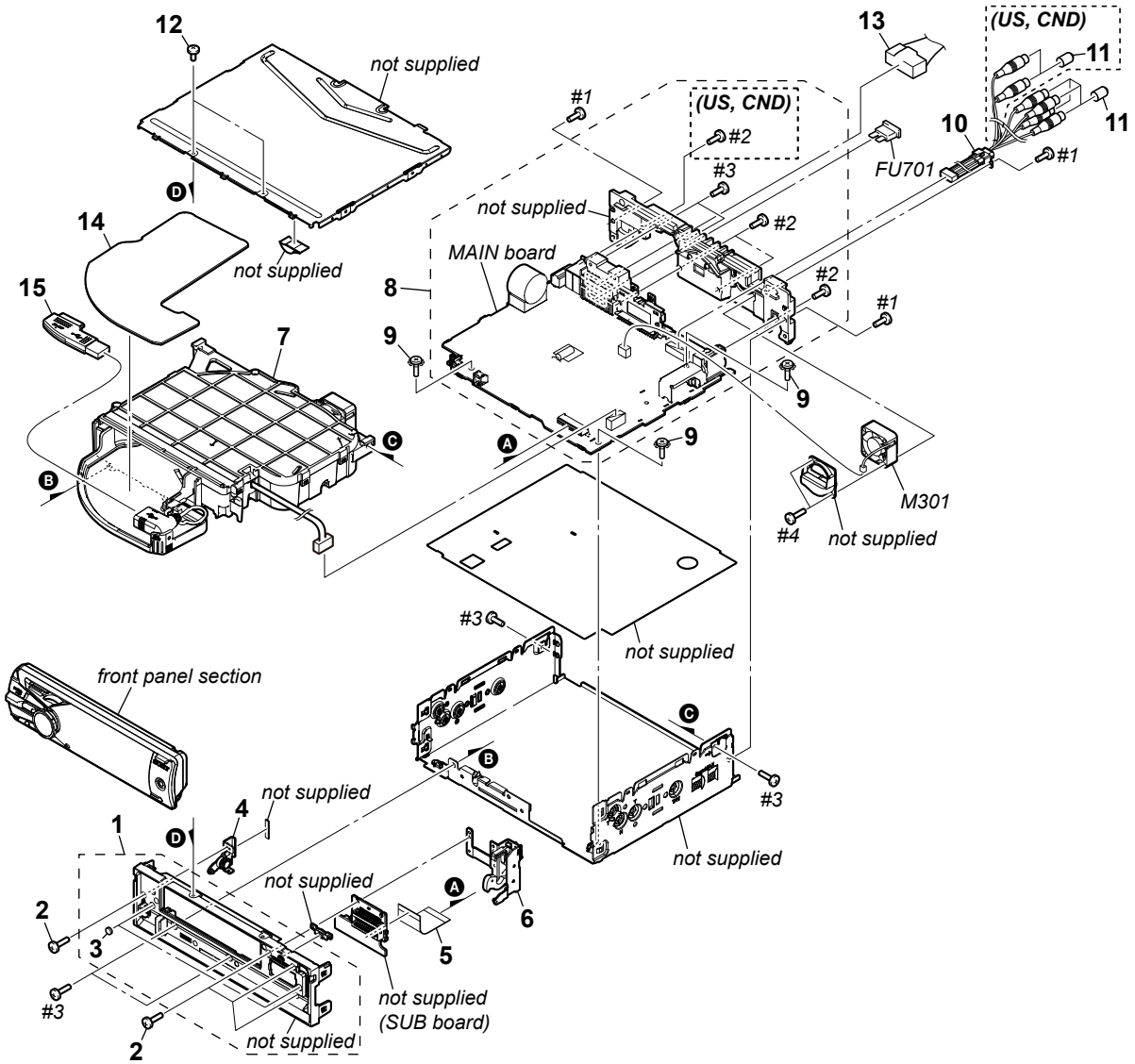
| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 63 | ILL_IN | I | Illuminate line detect signal input for the auto dimmer control<br>Dimmer is present at input of “L” |
| 64 | TEST | I | TEST Mode detect input terminal |
| 65 | VCC | - | Power supply terminal (+3.3V) |
| 66 | VSS | - | Ground terminal |
| 67 | NCO | - | Not used |
| 68 | AMP_STB | O | Standby control signal output to the power amplifier |
| 69 | DIAG | I | Diagnostic signal input from the power amplifier |
| 70 | EJECT_OK | O | Eject OK signal output terminal |
| 71 | SA_OUT | O | Serial data output to the electrical volume |
| 72 | SA_CLK | O | Serial data transfer clock signal output to the electrical volume |
| 73 | F_AUX | O | Muting on/off control signal output terminal |
| 74 | NCO | O | Not used |
| 75 | CD_MUTE | O | Muting on/off control signal output terminal |
| 76 | NCO | - | Not used |
| 77 | FLASH_EN0 | I | Flash writing program start terminal |
| 78 | FLASH_EN1 | I | Flash writing program start input terminal |
| 79 | USB_ON | O | Power supply on/off control signal output terminal for USB section |
| 80 | DD_ON | O | Not used |
| 81 | XFLASH | I | Not used |
| 82 | NCO | - | Not used |
| 83 | BU_CHECK | I | Back up power supply detection signal input terminal “L” is input at low voltage |
| 84 to 87 | ACC_INFO_1 to<br>ACC_INFO_4 | I | Not used |
| 88 | VBUS_ON | I | VBUS input terminal “H”: VBUS ON |
| 89 | XUSB_OVR | I | Over voltage detection signal input terminal for USB power supply section |
| 90 | VCC | - | Power supply terminal (+3.3V) |
| 91 | VSS | - | Ground terminal |
| 92 | OSC_IN | I | Main system clock input terminal (7.92 MHz) |
| 93 | OSC_OUT | O | Main system clock output terminal (7.92 MHz) |
| 94 | NCO | - | Not used |
| 95 | SIRCS | I | Remote control signal input from the remote control receiver |
| 96 | NCO | - | Not used |
| 97 | BEEP | O | Beep sound drive signal output to the power amplifier |
| 98 | ZAPPIN_BEEP | O | Beep sound drive signal output to the ellectrical volume |
| 99 | SYNC_OUT | O | Synchronize signal output to the switching regulator |
| 100 | NCO | - | Not used |

# SECTION 5
# EXPLODED VIEWS

**Note:**

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

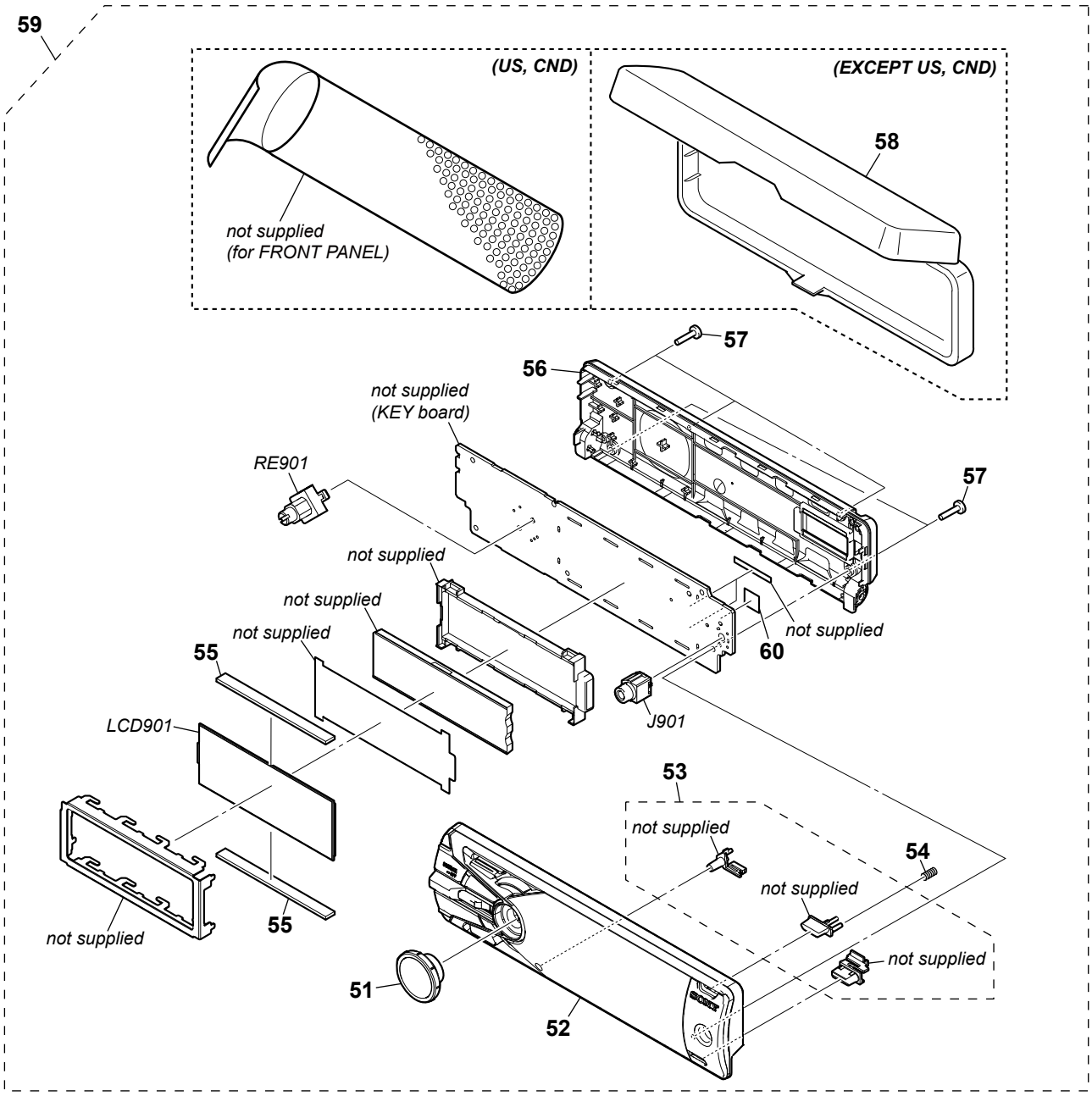
## 5-1. MAIN SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | X-2549-212-1 | SUB, PANEL (SV) ASSY | |
| 2 | 3-042-244-01 | SCREW (T) | |
| 3 | 3-260-247-01 | CUSHION (SUB PANEL) | |
| 4 | X-2515-757-1 | GEAR ASSY | |
| 5 | 1-837-758-11 | CABLE, FLEXIBLE FLAT (17 CORE) | |
| 6 | X-2515-755-1 | LOCK ASSY | |
| 7 | X-2541-775-1 | TRAY ASSY (Including USB connector) | |
| 8 | A-1767-392-A | MAIN BOARD, COMPLETE (AEP, RU, UK) | |
| 8 | A-1767-393-A | MAIN BOARD, COMPLETE (US, CND) | |
| 8 | A-1767-394-A | MAIN BOARD, COMPLETE (E, IND) | |
| 9 | 3-376-464-11 | SCREW (+PTT 2.6X6), GROUND POINT | |
| 10 | 1-837-747-11 | CONNECTION CORD FOR AUTOMOBILE (FRONT AUDIO OUT, REAR/SUB AUDIO OUT) (EXCEPT US, CND) | |
| 10 | 1-837-748-11 | CONNECTION CORD FOR AUTOMOBILE (BUS AUDIO IN, FRONT AUDIO OUT, REAR/SUB AUDIO OUT) (US, CND) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 11 | 3-264-798-01 | CAP | |
| 12 | 3-352-758-31 | SCREW (M1.7X2.5), TOOTHED LOCK | |
| 13 | 1-776-527-71 | CORD (WITH CONNECTOR) (ISO) (POWER) (AEP, RU, UK) | |
| 13 | 1-833-972-11 | CONNECTION CODE FOR AUTOMOBILE (POWER) (US, CND, E, IND) | |
| 14 | 4-177-653-01 | CUSHION (TRAY) | |
| 15 | 1-842-192-11 | PLUG, CONVERSION (IPOD) (USB connector for iPod) (XA-50IP) | |
| FU701 | 1-532-877-11 | FUSE (BLADE TYPE) (AUTO FUSE) (10A/32V) | |
| M301 | 1-787-976-11 | FAN, DC (25X25) | |
| #1 | 7-685-793-09 | SCREW +PTT 2.6X8 (S) | |
| #2 | 7-685-794-09 | SCREW +PTT 2.6X10 (S) | |
| #3 | 7-685-134-19 | SCREW +P 2.6X8 TYPE2 NON-SLIT | |
| #4 | 7-628-254-50 | SCREW +PS 2.6X16 | |

## 5-2. FRONT PANEL SECTION




**Note:** Refer to the servicing notes "NOTE FOR REPLACEMENT OF THE AUX JACK (J901)" (See page 3), if replacing the Ref. No. J901.

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | X-2547-365-1 | KNOB (VOL) (SV) ASSY | |
| 52 | X-2547-368-1 | PANEL (SV) ASSY, FRONT (AEP, RU, UK) | |
| 52 | X-2547-369-1 | PANEL (SV) ASSY, FRONT (US, CND) | |
| 52 | X-2547-370-1 | PANEL (SV) ASSY, FRONT (E, IND) | |
| 53 | X-2547-366-1 | BUTTON ASSY (S) | |
| 54 | 2-639-881-01 | SPRING (RELEASE) | |
| 55 | 1-780-563-11 | CONDUCTIVE BOARD, CONNECTION | |
| 56 | X-2547-367-1 | PANEL (SV) ASSY, BACK | |
| 57 | 3-250-543-21 | SCREW (+B P-TITE M2) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 58 | X-2187-544-3 | CASE ASSY (EXCEPT US, CND) | |
| 59 | A-1767-444-A | PANEL COMPLETE ASSY, FRONT (AEP, RU, UK) | |
| 59 | A-1767-445-A | PANEL COMPLETE ASSY, FRONT (US, CND) | |
| 59 | A-1767-446-A | PANEL COMPLETE ASSY, FRONT (E, IND) | |
| 60 | 4-198-895-01 | SHEET (BLIND) | |
| J901 | 1-822-148-11 | SMALL TYPE JACK (VERTICAL) (AUX) | |
| LCD901 | 1-811-126-11 | DISPLAY PANEL, LIQUID CRYSTAL | |
| RE901 | 1-479-902-41 | ENCODER, ROTARY (PUSH ENTER/SELECT) | |

# SECTION 6
# ELECTRICAL PARTS LIST

KEY

**Note:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .
- Abbreviation
  CND : Canadian model
  IND : Indian model
  RU : Russian model

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

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | KEY BOARD | |
| | | ********* | |
| | | < CAPACITOR > | |
| C903 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% 16V | |
| C904 | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% 50V | |
| C981 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% 16V | |
| C982 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% 16V | |
| C983 | 1-164-227-11 | CERAMIC CHIP 0.022uF 10% 25V | |
| C984 | 1-125-891-11 | CERAMIC CHIP 0.47uF 10% 10V | |
| C985 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% 16V | |
| C986 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% 16V | |
| C991 | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% 50V | |
| C992 | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% 50V | |
| | | < CONNECTOR > | |
| CN901 | 1-819-783-11 | PLUG, CONNECTOR 16P | |
| | | < DIODE/VARISTOR > | |
| D901 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D902 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D903 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D904 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D905 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D906 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D907 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D908 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D909 | 8-719-083-66 | DIODE UDZSUSTE-1718B | |
| D910 | 1-805-043-11 | ABSORBER, CHIP SURGE | |
| D911 | 1-805-043-11 | ABSORBER, CHIP SURGE | |
| D912 | 1-805-043-11 | ABSORBER, CHIP SURGE | |
| D981 | 8-719-069-56 | DIODE UDZSUSTE-176.2B | |
| D982 | 6-502-961-01 | DIODE DA2J10100L | |
| | | < FERRITE BEAD > | |
| FB901 | 1-414-385-21 | INDUCTOR, FERRITE BEAD | |
| FB902 | 1-414-385-21 | INDUCTOR, FERRITE BEAD | |
| FB903 | 1-414-385-21 | INDUCTOR, FERRITE BEAD | |
| | | < IC > | |
| IC981 | 6-707-064-01 | IC LC75876WH-US-E | |
| IC982 | 6-600-629-01 | IC RS-470 | |
| | | < JACK > | |
| J901 | 1-822-148-11 | SMALL TYPE JACK (VERTICAL) (AUX) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < LIQUID CRYSTAL DISPLAY > | |
| LCD901 | 1-811-126-11 | DISPLAY PANEL, LIQUID CRYSTAL | |
| | | < LED > | |
| LED915 | 6-501-547-02 | LED CL-197HB1E-D-T (RING ILLUMINATION (UPPER)) | |
| LED916 | 6-501-547-02 | LED CL-197HB1E-D-T (RING ILLUMINATION (UPPER)) | |
| LED917 | 6-501-547-02 | LED CL-197HB1E-D-T (RING ILLUMINATION (LOWER)) | |
| LED918 | 6-501-547-02 | LED CL-197HB1E-D-T (RING ILLUMINATION (LOWER)) | |
| LED919 | 6-501-547-02 | LED CL-197HB1E-D-T (RING ILLUMINATION (RIGHT)) | |
| LED920 | 6-501-547-02 | LED CL-197HB1E-D-T (RING ILLUMINATION (RIGHT)) | |
| LED923 | 6-501-547-02 | LED CL-197HB1E-D-T (SOURCE/OFF) | |
| LED924 | 6-501-547-02 | LED CL-197HB1E-D-T (PAUSE) | |
| LED925 | 6-501-547-02 | LED CL-197HB1E-D-T (Q) | |
| LED926 | 6-501-547-02 | LED CL-197HB1E-D-T (ZAP/SHUF) | |
| LED991 | 6-501-339-01 | LED NESW505CT-AST (LCD BACK LIGHT) | |
| LED992 | 6-501-339-01 | LED NESW505CT-AST (LCD BACK LIGHT) | |
| | | < TRANSISTOR > | |
| Q991 | 8-729-038-22 | TRANSISTOR RT1N140C-TP-1 | |
| Q992 | 8-729-038-22 | TRANSISTOR RT1N140C-TP-1 | |
| | | < RESISTOR > | |
| R900 | 1-216-815-11 | METAL CHIP 330 5% 1/10W | |
| R901 | 1-216-816-11 | METAL CHIP 390 5% 1/10W | |
| R902 | 1-216-817-11 | METAL CHIP 470 5% 1/10W | |
| R903 | 1-216-816-11 | METAL CHIP 390 5% 1/10W | |
| R904 | 1-216-816-11 | METAL CHIP 390 5% 1/10W | |
| R905 | 1-216-816-11 | METAL CHIP 390 5% 1/10W | |
| R906 | 1-216-816-11 | METAL CHIP 390 5% 1/10W | |
| R907 | 1-216-812-11 | METAL CHIP 180 5% 1/10W | |
| R908 | 1-216-811-11 | METAL CHIP 150 5% 1/10W | |
| R909 | 1-216-815-11 | METAL CHIP 330 5% 1/10W | |
| R910 | 1-216-816-11 | METAL CHIP 390 5% 1/10W | |
| R915 | 1-216-817-11 | METAL CHIP 470 5% 1/10W | |
| R916 | 1-216-817-11 | METAL CHIP 470 5% 1/10W | |
| R917 | 1-216-817-11 | METAL CHIP 470 5% 1/10W | |
| R918 | 1-216-817-11 | METAL CHIP 470 5% 1/10W | |
| R919 | 1-216-816-11 | METAL CHIP 390 5% 1/10W | |
| R920 | 1-216-815-11 | METAL CHIP 330 5% 1/10W | |

**KEY** **MAIN**

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R951 | 1-216-820-11 | METAL CHIP | 820 | 5% | 1/10W |
| R952 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R953 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R954 | 1-216-822-11 | METAL CHIP | 1.2K | 5% | 1/10W |
| R959 | 1-216-820-11 | METAL CHIP | 820 | 5% | 1/10W |
| R960 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R961 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R962 | 1-216-822-11 | METAL CHIP | 1.2K | 5% | 1/10W |
| R973 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R974 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R975 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R981 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W |
| R982 | 1-216-859-11 | METAL CHIP | 1.5M | 5% | 1/10W |
| R983 | 1-216-025-11 | METAL CHIP | 100 | 5% | 1/10W |
| R984 | 1-216-025-11 | METAL CHIP | 100 | 5% | 1/10W |
| R985 | 1-216-025-11 | METAL CHIP | 100 | 5% | 1/10W |
| R986 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R987 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R988 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R991 | 1-216-029-00 | METAL CHIP | 150 | 5% | 1/10W |
| R992 | 1-216-027-00 | METAL CHIP | 120 | 5% | 1/10W |
| R993 | 1-216-025-11 | METAL CHIP | 100 | 5% | 1/10W |
| R994 | 1-216-055-00 | METAL CHIP | 1.8K | 5% | 1/10W |
| R997 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R998 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| | | < ROTARY ENCODER > | | | |
| RE901 | 1-479-902-41 | ENCODER, ROTARY (PUSH ENTER/SELECT) | | | |
| | | < SWITCH > | | | |
| S951 | 1-798-284-11 | TACTILE SWITCH (SOURCE/OFF) | | | |
| S952 | 1-798-285-11 | TACTILE SWITCH (WITH LED) (+ ▶▶I) | | | |
| S953 | 1-798-284-11 | TACTILE SWITCH (PAUSE) | | | |
| S954 | 1-798-284-11 | TACTILE SWITCH (Q) | | | |
| S955 | 1-798-285-11 | TACTILE SWITCH (WITH LED) (⮌ MODE) | | | |
| S956 | 1-798-285-11 | TACTILE SWITCH (WITH LED) (DSPL SCRL) | | | |
| S957 | 1-798-285-11 | TACTILE SWITCH (WITH LED) (PTY/CAT) | | | (US, CND) |
| S957 | 1-798-285-11 | TACTILE SWITCH (WITH LED) (AF/TA/PTY) | | | (AEP, RU, UK) |
| S957 | 1-798-285-11 | TACTILE SWITCH (WITH LED) (PTY) (E, IND) | | | |
| S958 | 1-798-285-11 | TACTILE SWITCH (WITH LED) (– I◀◀ ) | | | |
| S959 | 1-798-285-11 | TACTILE SWITCH (WITH LED) (ZAP/SHUF) | | | |
| ********** | | | | | |
| | A-1767-392-A | MAIN BOARD, COMPLETE (AEP, RU, UK) | | | |
| | A-1767-393-A | MAIN BOARD, COMPLETE (US, CND) | | | |
| | A-1767-394-A | MAIN BOARD, COMPLETE (E, IND) | | | |
| | | ********** | | | |
| | 7-685-134-19 | SCREW +P 2.6X8 TYPE2 NON-SLIT | | | |
| | 7-685-794-09 | SCREW +PTT 2.6X10 (S) | | | |
| | | < CAPACITOR/DIODE > | | | |
| C1 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C5 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C6 | 1-162-917-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C8 | 1-162-921-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C9 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C12 | 1-127-715-11 | CERAMIC CHIP | 0.22uF | 10% | 16V |
| C13 | 1-100-742-91 | CERAMIC CHIP | 2.2uF | 20% | 10V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C14 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C15 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C16 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V |
| C17 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C18 | 1-162-916-11 | CERAMIC CHIP | 12PF | 5% | 50V |
| C19 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C20 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C21 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C22 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C23 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C24 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C25 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C26 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C27 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C28 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| C32 | 1-162-915-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| | | | | | (US, CND) |
| C098 | 1-115-416-11 | CERAMIC CHIP | 0.001uF | 5% | 25V |
| C201 | 1-124-233-11 | ELECT | 10uF | 20% | 1 6V |
| C202 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C206 | 1-124-584-00 | ELECT | 100uF | 20% | 10V |
| C207 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C208 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C209 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C210 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C212 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C213 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C214 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C215 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C216 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C217 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C218 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C219 | 1-115-416-11 | CERAMIC CHIP | 0.001uF | 5% | 25V |
| C220 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C222 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C223 | 1-115-412-11 | CERAMIC CHIP | 680PF | 5% | 25V |
| C224 | 1-164-739-11 | CERAMIC CHIP | 560PF | 5% | 50V |
| C225 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C226 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C227 | 1-115-412-11 | CERAMIC CHIP | 680PF | 5% | 25V |
| C228 | 1-164-739-11 | CERAMIC CHIP | 560PF | 5% | 50V |
| C229 | 1-125-837-91 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C230 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C231 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C232 | 1-162-920-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C233 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C234 | 1-126-369-11 | ELECT | 220uF | 20% | 6.3V |
| C236 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C240 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C241 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C243 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C246 | 1-125-837-91 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C247 | 1-100-567-81 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C248 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C249 | 1-100-567-81 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C250 | 1-100-567-81 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C251 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C252 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C253 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C255 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C256 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C260 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C261 | 1-100-567-81 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C263 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C264 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C266 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C268 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V |
| C270 | 1-162-914-11 | CERAMIC CHIP | 9PF | 0.5PF | 50V |
| C271 | 1-162-914-11 | CERAMIC CHIP | 9PF | 0.5PF | 50V |
| C301 | 1-115-340-11 | CERAMIC CHIP | 0.22uF | 10% | 25V |
| C302 | 1-115-340-11 | CERAMIC CHIP | 0.22uF | 10% | 25V |
| C303 | 1-107-907-11 | ELECT | 22uF | 20% | 50V |
| C304 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C305 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C306 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C307 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C308 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C309 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C310 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C311 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C312 | 1-115-340-11 | CERAMIC CHIP | 0.22uF | 10% | 25V |
| C313 | 1-115-340-11 | CERAMIC CHIP | 0.22uF | 10% | 25V |
| C314 | 1-100-352-91 | CERAMIC CHIP | 1uF | 20% | 16V |
| C316 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C317 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C318 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C319 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C320 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C321 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C322 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| C323 | 1-115-340-11 | CERAMIC CHIP | 0.22uF | 10% | 25V |
| C324 | 1-115-340-11 | CERAMIC CHIP | 0.22uF | 10% | 25V |
| C325 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C326 | 1-126-611-91 | ELECT | 1000uF | 20% | 6.3V |
| C328 | 1-128-057-11 | ELECT | 330uF | 20% | 6.3V |
| C329 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C330 | 1-128-057-11 | ELECT | 330uF | 20% | 6.3V |
| C331 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C332 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C333 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C335 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C336 | 1-125-889-11 | CERAMIC CHIP | 2.2uF | 10% | 10V |
| C401 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V (US, CND) |
| C402 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V (US, CND) |
| C405 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C406 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C407 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C408 | 1-137-712-11 | CERAMIC CHIP | 4700PF | 20% | 250V |
| C409 | 1-136-159-00 | FILM | 0.033uF | 5% | 50V |
| C410 | 1-136-159-00 | FILM | 0.033uF | 5% | 50V |
| C411 | 1-137-712-11 | CERAMIC CHIP | 4700PF | 20% | 250V |
| C412 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C413 | 1-104-955-11 | ELECT | 100uF | 20% | 10V |
| C414 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C415 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C416 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C503 | 1-162-920-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C504 | 1-162-921-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C505 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C506 | 1-100-352-91 | CERAMIC CHIP | 1uF | 20% | 16V |
| C509 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C510 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C511 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C512 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C513 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C514 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C601 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V (US, CND) |
| C602 | 1-126-941-11 | ELECT | 470uF | 20% | 25V (US, CND) |
| C603 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V (US, CND) |
| C701 | 1-112-302-11 | ELECT | 3300uF | 20% | 16V |
| C702 | 1-115-340-11 | CERAMIC CHIP | 0.22uF | 10% | 25V |
| C704 | 1-163-009-91 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C705 | 1-163-009-91 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C706 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C708 | 1-165-815-91 | CERAMIC CHIP | 2.2uF | | 25V |
| C801 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C802 | 1-100-591-91 | CERAMIC CHIP | 1uF | 10% | 25V |
| C803 | 1-100-591-91 | CERAMIC CHIP | 1uF | 10% | 25V |
| C804 | 1-164-217-11 | CERAMIC CHIP | 150PF | 5% | 50V |
| C805 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C806 | 1-125-972-61 | ELECT | 100uF | 20% | 16V |
| C807 | 1-125-972-61 | ELECT | 100uF | 20% | 16V |
| C809 | 1-165-176-11 | CERAMIC CHIP | 0.047uF | 10% | 16V |
| C811 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C812 | 1-126-935-11 | ELECT | 470uF | 20% | 16V |
| C813 | 1-164-677-11 | CERAMIC CHIP | 0.033uF | 10% | 16V |
| C814 | 1-165-733-91 | ELECT | 100uF | 20% | 25V |
| C815 | 1-100-671-11 | CERAMIC CHIP | 4.7uF | 20% | 25V |
| C818 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C901 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C902 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C903 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C904 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C905 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V (US, CND) |
| C906 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V (US, CND) |
| C907 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C908 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C909 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C910 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C911 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C912 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C913 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| C914 | 1-162-963-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C915 | 1-124-233-11 | ELECT | 10uF | 20% | 16V |
| C916 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C917 | 1-163-009-91 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C918 | 1-163-009-91 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C919 | 1-163-009-91 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C921 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C922 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C923 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C924 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C925 | 1-107-826-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C926 | 8-719-973-33 | DIODE DTZ-TT11-6.8B | | | |

## MAIN

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| C927 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10% 16V | |
| | | < CONNECTOR > | |
| CN201 | 1-779-993-11 | PIN, CONNECTOR (PWB) 5P | |
| CN301 | 1-564-704-41 | PIN, CONNECTOR (SMALL TYPE) 2P | |
| * CN501 | 1-564-710-11 | PIN, CONNECTOR (SMALL TYPE) 8P | |
| CN701 | 1-774-701-21 | PIN, CONNECTOR 16P | |
| * CN901 | 1-564-712-11 | PIN, CONNECTOR (SMALL TYPE) 10P (US, CND) | |
| CN902 | 1-564-709-11 | PIN, CONNECTOR (SMALL TYPE) 7P | (EXCEPT US, CND) |
| * CN903 | 1-770-524-31 | CONNECTOR, FFC/FPC 17P | |
| | | < DIODE/VARISTOR > | |
| D201 | 6-501-656-01 | DIODE LBAT54ALT1G | |
| D202 | 6-502-961-01 | DIODE DA2J10100L | |
| D203 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D305 | 6-502-643-01 | DIODE 1A4-A2 | |
| D306 | 6-502-643-01 | DIODE 1A4-A2 | |
| D307 | 6-502-643-01 | DIODE 1A4-A2 | |
| D308 | 6-502-643-01 | DIODE 1A4-A2 | |
| D309 | 6-502-643-01 | DIODE 1A4-A2 | |
| D310 | 6-502-643-01 | DIODE 1A4-A2 | |
| D311 | 6-502-643-01 | DIODE 1A4-A2 | |
| D312 | 6-502-643-01 | DIODE 1A4-A2 | |
| D502 | 6-502-961-01 | DIODE DA2J10100L | |
| D503 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D504 | 6-500-334-01 | DIODE MC2836-T112-1 | |
| D505 | 6-502-961-01 | DIODE DA2J10100L | |
| D506 | 6-502-131-01 | DIODE LRB751V-40T1G | |
| D601 | 8-719-083-66 | DIODE UDZSUSTE-1718B (US, CND) | |
| D602 | 8-719-083-66 | DIODE UDZSUSTE-1718B (US, CND) | |
| D603 | 6-502-131-01 | DIODE LRB751V-40T1G (US, CND) | |
| D604 | 8-719-083-66 | DIODE UDZSUSTE-1718B (US, CND) | |
| D605 | 8-719-069-56 | DIODE UDZSUSTE-176.2B (US, CND) | |
| D605 | 8-719-056-84 | DIODE UDZ-TE-17-7.5B (EXCEPT US, CND) | |
| D606 | 8-719-083-66 | DIODE UDZSUSTE-1718B | |
| D701 | 6-501-571-01 | DIODE 1N5404-C311-3 | |
| D702 | 8-719-083-66 | DIODE UDZSUSTE-1718B | |
| D703 | 8-719-083-66 | DIODE UDZSUSTE-1718B | |
| D704 | 8-719-083-66 | DIODE UDZSUSTE-1718B | |
| D705 | 8-719-083-66 | DIODE UDZSUSTE-1718B | |
| D706 | 8-719-083-66 | DIODE UDZSUSTE-1718B | |
| D707 | 6-502-961-01 | DIODE DA2J10100L | |
| D708 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D709 | 6-502-643-01 | DIODE 1A4-A2 (AEP, RU, UK) | |
| D801 | 6-501-657-01 | DIODE MA24D5000BS0 | |
| D901 | 6-502-961-01 | DIODE DA2J10100L | |
| D902 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D903 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D904 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D905 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D906 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D907 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| D908 | 1-805-043-11 | ABSORBER, CHIP SURGE | |
| D909 | 1-805-043-11 | ABSORBER, CHIP SURGE | |
| D910 | 8-719-069-57 | DIODE UDZSUSTE-176.8B | |
| | | < FERRITE BEAD > | |
| FB1 | 1-400-334-21 | FERRITE, EMI (SMD) (1608) (US, CND) | |
| FB2 | 1-400-334-21 | FERRITE, EMI (SMD) (1608) (US, CND) | |
| FB3 | 1-400-334-21 | FERRITE, EMI (SMD) (1608) (US, CND) | |
| FB4 | 1-400-334-21 | FERRITE, EMI (SMD) (1608) (US, CND) | |
| FB201 | 1-414-385-21 | INDUCTOR, FERRITE BEAD | |
| FB202 | 1-414-385-21 | INDUCTOR, FERRITE BEAD | |
| | | < IC > | |
| IC1 | 6-714-162-01 | IC TEF6617T/V1/S470, 518 (US, CND, E, IND) | |
| IC1 | 6-714-162-11 | IC TEF6617T/V1/S470/M5, 518 (AEP, RU, UK) | |
| IC201 | 6-713-677-01 | IC TC94A92FG-301 (M) | |
| IC202 | 6-711-237-01 | IC NJM2878F3-33 (TE2) | |
| IC203 | 6-711-238-01 | IC NJM2878F3-15 (TE2) | |
| IC204 | 6-715-374-01 | IC 92FD28AFG7F88 (SYJZ) | |
| IC205 | 6-713-126-01 | IC MFI341S2159 | |
| IC301 | 6-705-359-02 | IC TDA8588AJ/N2/R1 (US, CND, E, IND) | |
| IC301 | 6-705-359-11 | IC TDA8588AJ/N2/R1/M5 (AEP, RU, UK) | |
| IC302 | 6-702-302-01 | IC TK11133CSCL-G | |
| IC303 | 6-712-776-01 | IC PST8228UL | |
| IC401 | 6-713-080-11 | IC BD3447AFV-E2 | |
| IC501 | 6-715-369-01 | IC MB90F058PF-G-119-JNE1 | |
| IC601 | 6-703-884-01 | IC BA8271F-E2 (US) | |
| IC801 | 6-714-602-01 | IC BD9070FP-E2 | |
| | | < JACK/CONNECTOR > | |
| J1 | 1-822-949-21 | JACK (ANT) (ANTENNA IN) | |
| J601 | 1-580-907-41 | PLUG, CONNECTOR (BUS CONTROL IN) | (US, CND) |
| J701 | 1-566-822-81 | JACK (REMOTE IN) | |
| | | < JUMPER RESISTOR/CAPACITOR > | |
| JR301 | 1-216-864-11 | SHORT CHIP 0 | |
| JR801 | 1-216-864-11 | SHORT CHIP 0 | |
| JR802 | 1-216-864-11 | SHORT CHIP 0 | |
| JR903 | 1-216-864-11 | SHORT CHIP 0 | |
| JR905 | 1-115-416-11 | CERAMIC CHIP 0.001uF 5% 25V | |
| JR906 | 1-216-864-11 | SHORT CHIP 0 | |
| | | < COIL/JUMPER RESISTOR > | |
| L1 | 1-414-180-51 | INDUCTOR 3.3uH | |
| L2 | 1-410-501-61 | INDUCTOR 2.2uH | |
| L6 | 1-457-817-11 | COIL (FM MIX) | |
| L7 | 1-481-285-51 | INDUCTOR 560uH | |
| L8 | 1-481-285-51 | INDUCTOR 560uH | |
| L201 | 1-414-671-22 | INDUCTOR, FERRITE BEAD | |
| L202 | 1-469-876-11 | INDUCTOR, FERRITE BEAD | |
| L203 | 1-216-864-11 | SHORT CHIP 0 | |
| L205 | 1-457-223-11 | COMMON MODE CHOKE COIL | |
| L401 | 1-400-334-21 | FERRITE, EMI (SMD) (1608) | |
| L402 | 1-400-334-21 | FERRITE, EMI (SMD) (1608) | |
| L501 | 1-414-595-11 | INDUCTOR, FERRITE BEAD | |
| L701 | 1-456-617-11 | COIL, CHOKE | |
| L702 | 1-414-595-11 | INDUCTOR, FERRITE BEAD | |
| L703 | 1-414-595-11 | INDUCTOR, FERRITE BEAD | |
| L704 | 1-414-595-11 | INDUCTOR, FERRITE BEAD | |
| L801 | 1-411-595-21 | INDUCTOR 47uH | |
| L802 | 1-411-595-21 | INDUCTOR 47uH | |
| L803 | 1-412-525-25 | MICRO INDUCTOR 10uH | |
| L901 | 1-414-671-22 | INDUCTOR, FERRITE BEAD | |
| | | < TRANSISTOR > | |
| Q201 | 8-729-028-73 | TRANSISTOR DTA114EUA-T106 | |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| Q202 | 8-729-024-43 | TRANSISTOR | 2SA1365-T112-1EF | | | |
| Q203 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 | | | |
| Q204 | 6-551-696-01 | TRANSISTOR | ISA1235AC1TP-1EF | | | |
| Q205 | 8-729-028-96 | TRANSISTOR | DTC114EUA-T106 | | | |
| Q601 | 8-729-028-96 | TRANSISTOR | DTC114EUA-T106 | | | |
| Q602 | 8-729-029-14 | TRANSISTOR | DTC144EUA-T106 | | | (EXCEPT US, CND) |
| Q603 | 8-729-620-07 | TRANSISTOR | 2SC3052EF-T1-LEF | | | (EXCEPT US, CND) |
| Q701 | 8-729-620-07 | TRANSISTOR | 2SC3052EF-T1-LEF | | | |
| Q702 | 8-729-620-07 | TRANSISTOR | 2SC3052EF-T1-LEF | | | |
| Q703 | 8-729-620-07 | TRANSISTOR | 2SC3052EF-T1-LEF | | | |
| Q901 | 6-551-856-01 | TRANSISTOR | LTC614TKFP8T146 | | | |
| Q902 | 6-551-856-01 | TRANSISTOR | LTC614TKFP8T146 | | | |
| Q903 | 6-551-856-01 | TRANSISTOR | LTC614TKFP8T146 | | | |
| Q904 | 6-551-856-01 | TRANSISTOR | LTC614TKFP8T146 | | | |
| Q905 | 6-551-856-01 | TRANSISTOR | LTC614TKFP8T146 | | | |
| Q906 | 6-551-856-01 | TRANSISTOR | LTC614TKFP8T146 | | | |
| Q907 | 8-729-028-73 | TRANSISTOR | DTA114EUA-T106 | | | |
| Q908 | 8-729-028-96 | TRANSISTOR | DTC114EUA-T106 | | | |
| Q909 | 8-729-029-06 | TRANSISTOR | DTC124EUA-T106 | | | |
| Q910 | 8-729-028-83 | TRANSISTOR | DTA124EUA-T106 | | | |
| | | < RESISTOR/FERRITE BEAD > | | | | |
| R1 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W | |
| R2 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W | |
| R3 | 1-216-864-11 | SHORT CHIP | 0 (EXCEPT US, CND) | | | |
| R6 | 1-216-843-11 | METAL CHIP | 68K | 5% | 1/10W | |
| R10 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W | |
| R11 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R12 | 1-216-009-91 | METAL CHIP | 22 | 5% | 1/10W | |
| R13 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R14 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R15 | 1-216-864-11 | SHORT CHIP | 0 (EXCEPT US, CND) | | | |
| R16 | 1-216-864-11 | SHORT CHIP | 0 (EXCEPT US, CND) | | | |
| R17 | 1-216-864-11 | SHORT CHIP | 0 (EXCEPT US, CND) | | | |
| R109 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R110 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R111 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R151 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| R152 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R154 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R155 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R156 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R157 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R159 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R160 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R161 | 1-216-295-91 | SHORT CHIP | 0 | | | |
| R163 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R164 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R165 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R166 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W | |
| R167 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W | |
| R192 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R193 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R201 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R202 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R203 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R204 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R205 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R206 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | |
| R207 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | |
| R208 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | |
| R209 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | |
| R210 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R211 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | |
| R212 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | |
| R213 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | |
| R214 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R215 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R216 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W | |
| R217 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | |
| R218 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/10W | |
| R220 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R221 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R222 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R223 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R225 | 1-414-385-21 | INDUCTOR, FERRITE BEAD | | | | |
| R226 | 1-414-385-21 | INDUCTOR, FERRITE BEAD | | | | |
| R227 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R228 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R229 | 1-414-385-21 | INDUCTOR, FERRITE BEAD | | | | |
| R230 | 1-414-385-21 | INDUCTOR, FERRITE BEAD | | | | |
| R231 | 1-414-385-21 | INDUCTOR, FERRITE BEAD | | | | |
| R232 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | |
| R233 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W | |
| R234 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R235 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R236 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R237 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R238 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R239 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R240 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R241 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | |
| R242 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| R243 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R244 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | |
| R245 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| R246 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R247 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | |
| R248 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | |
| R249 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R250 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | |
| R251 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | |
| R252 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | |
| R253 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | |
| R255 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | |
| R256 | 1-218-990-81 | SHORT CHIP | 0 | | | |
| R257 | 1-218-990-81 | SHORT CHIP | 0 | | | |
| R258 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R259 | 1-218-990-81 | SHORT CHIP | 0 | | | |
| R260 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | |
| R262 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R263 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R264 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | |
| R265 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | |
| R266 | 1-216-864-11 | SHORT CHIP | 0 | | | |
| R267 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | |
| R268 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | |
| R269 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | |

## MAIN

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R270 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W |
| R271 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R272 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W |
| R273 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R274 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W |
| R275 | 1-216-793-11 | METAL CHIP | 4.7 | 5% | 1/10W |
| R276 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W |
| R277 | 1-216-793-11 | METAL CHIP | 4.7 | 5% | 1/10W |
| R278 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R279 | 1-414-385-21 | INDUCTOR, FERRITE BEAD | | | |
| R280 | 1-414-385-21 | INDUCTOR, FERRITE BEAD | | | |
| R281 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R282 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R283 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R284 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R285 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R286 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R291 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R292 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R293 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R303 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W |
| R304 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R305 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R306 | 1-216-295-91 | SHORT CHIP | 0 | | |
| R307 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R308 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R309 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R310 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R311 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R312 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R401 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/10W |
| R402 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R403 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R404 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R405 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R406 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R502 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R503 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W (E, IND) |
| R504 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W (US, CND, AEP, RU, UK) |
| R505 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R507 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R509 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R510 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R511 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R512 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R513 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R514 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R515 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R516 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R517 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W (US, CND) |
| R518 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R519 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R520 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R521 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R522 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R523 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R524 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R525 | 1-218-871-11 | METAL CHIP | 10K | 0.5% | 1/10W |
| R526 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R527 | 1-218-871-11 | METAL CHIP | 10K | 0.5% | 1/10W |
| R528 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R529 | 1-218-871-11 | METAL CHIP | 10K | 0.5% | 1/10W |
| R530 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R531 | 1-218-871-11 | METAL CHIP | 10K | 0.5% | 1/10W |
| R532 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R533 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R534 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R535 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R536 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R537 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R538 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R539 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R540 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R542 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W (US, CND, AEP, RU, UK) |
| R543 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W (US, CND) |
| R544 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W (EXCEPT US, CND) |
| R545 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W (AEP, RU, UK) |
| R546 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W (US, CND, E, IND) |
| R547 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R548 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R549 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R550 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R551 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R552 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R553 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R554 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R555 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R556 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R557 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R558 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R559 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| R568 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R569 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R570 | 1-216-815-11 | METAL CHIP | 330 | 5% | 1/10W |
| R572 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R573 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R574 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W (E, IND) |
| R575 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W (E, IND) |
| R576 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R577 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W (EXCEPT US, CND) |
| R578 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R601 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W (US, CND) |
| R602 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W (US, CND) |
| R603 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W (US, CND) |
| R604 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W (US, CND) |
| R605 | 1-216-864-11 | SHORT CHIP | 0 (US, CND) | | |
| R606 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W (US, CND) |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R607 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W (EXCEPT US, CND) |
| R607 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W (US, CND) |
| R608 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R609 | 1-216-851-11 | METAL CHIP | 330K | 5% | 1/10W (US, CND) |
| R610 | 1-216-851-11 | METAL CHIP | 330K | 5% | 1/10W (US, CND) |
| R611 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W (EXCEPT US, CND) |
| R701 | 1-216-073-91 | METAL CHIP | 10K | 5% | 1/10W |
| R702 | 1-216-073-91 | METAL CHIP | 10K | 5% | 1/10W |
| R703 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R704 | 1-216-073-91 | METAL CHIP | 10K | 5% | 1/10W |
| R705 | 1-216-073-91 | METAL CHIP | 10K | 5% | 1/10W |
| R706 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R707 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R708 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R709 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R710 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R711 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R712 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R713 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R801 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R802 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R803 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R804 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R805 | 1-216-836-11 | METAL CHIP | 18K | 5% | 1/10W |
| R806 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R807 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R809 | 1-245-816-11 | METAL CHIP | 2.2K | 0.5% | 1/10W |
| R810 | 1-245-816-11 | METAL CHIP | 2.2K | 0.5% | 1/10W |
| R811 | 1-245-806-11 | METAL CHIP | 820 | 0.5% | 1/10W |
| R812 | 1-216-820-11 | METAL CHIP | 820 | 5% | 1/10W |
| R813 | 1-216-820-11 | METAL CHIP | 820 | 5% | 1/10W |
| R814 | 1-216-820-11 | METAL CHIP | 820 | 5% | 1/10W |
| R815 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R903 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W (US, CND) |
| R904 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W (US, CND) |
| R905 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W (US, CND) |
| R906 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W (US, CND) |
| R907 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R908 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R909 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R910 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R911 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R912 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R913 | 1-216-009-91 | METAL CHIP | 22 | 5% | 1/10W |
| R914 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R915 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R916 | 1-216-834-11 | METAL CHIP | 12K | 5% | 1/10W |
| R917 | 1-216-834-11 | METAL CHIP | 12K | 5% | 1/10W |
| R918 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R919 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R920 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R921 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R922 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R923 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R924 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R925 | 1-216-035-00 | METAL CHIP | 270 | 5% | 1/10W |
| R926 | 1-216-035-00 | METAL CHIP | 270 | 5% | 1/10W |
| R927 | 1-216-035-00 | METAL CHIP | 270 | 5% | 1/10W |

< SWITCH >

| | | |
|---|---|---|
| S501 | 1-786-458-11 | SWITCH, PUSH (1 KEY) (NOSE DETECT) |
| S502 | 1-571-478-11 | SWITCH, SLIDE (FREQUENCY SELECT) (E, IND) |
| S503 | 1-786-826-11 | SWITCH, TACTILE (RESET) |

< THERMISTOR >

| | | |
|---|---|---|
| TH601 | 1-803-350-21 | THERMISTOR, POSITIVE (US, CND) |

< VARISTOR >

| | | |
|---|---|---|
| VR1 | 1-805-043-11 | ABSORBER, CHIP SURGE |

< VIBRATOR >

| | | |
|---|---|---|
| X1 | 1-814-302-11 | QUARTZ CRYSTAL UNIT (4MHz) |
| X201 | 1-795-561-21 | VIBRATOR, CERAMIC (16.934MHz) |
| X202 | 1-814-058-11 | VIBRATOR, CRYSTAL (9MHz) |
| X501 | 1-814-207-21 | VIBRATOR, CERAMIC (7.92MHz) |
| X502 | 1-813-202-11 | VIBRATOR, CRYSTAL (32.768kHz) |

**********

SUB BOARD
**********

< CONNECTOR >

| | | |
|---|---|---|
| CN991 | 1-819-782-11 | SOCKET, CONNECTOR 16P |

< LED >

| | | |
|---|---|---|
| LED995 | 6-500-450-01 | LED CL-195SR-CD-T (DEVICE INSIDE) |

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MISCELLANEOUS
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| | | |
|---|---|---|
| 5 | 1-837-758-11 | CABLE, FLEXIBLE FLAT (17 CORE) |
| 7 | X-2541-775-1 | TRAY ASSY (Including USB connector) |
| 10 | 1-837-747-11 | CONNECTION CORD FOR AUTOMOBILE (FRONT AUDIO OUT, REAR/SUB AUDIO OUT) (EXCEPT US, CND) |
| 10 | 1-837-748-11 | CONNECTION CORD FOR AUTOMOBILE (BUS AUDIO IN, FRONT AUDIO OUT, REAR/SUB AUDIO OUT) (US, CND) |
| 13 | 1-776-527-71 | CORD (WITH CONNECTOR) (ISO) (POWER) (AEP, RU, UK) |
| 13 | 1-833-972-11 | CONNECTION CODE FOR AUTOMOBILE (POWER) (US, CND, E, IND) |
| 15 | 1-842-192-11 | PLUG, CONVERSION (IPOD) (USB connector for iPod) (XA-50IP) |
| 55 | 1-780-563-11 | CONDUCTIVE BOARD, CONNECTION |
| FU701 | 1-532-877-11 | FUSE (BLADE TYPE) (AUTO FUSE) (10A/32V) |
| M301 | 1-787-976-11 | FAN, DC (25X25) |

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ACCESSORIES
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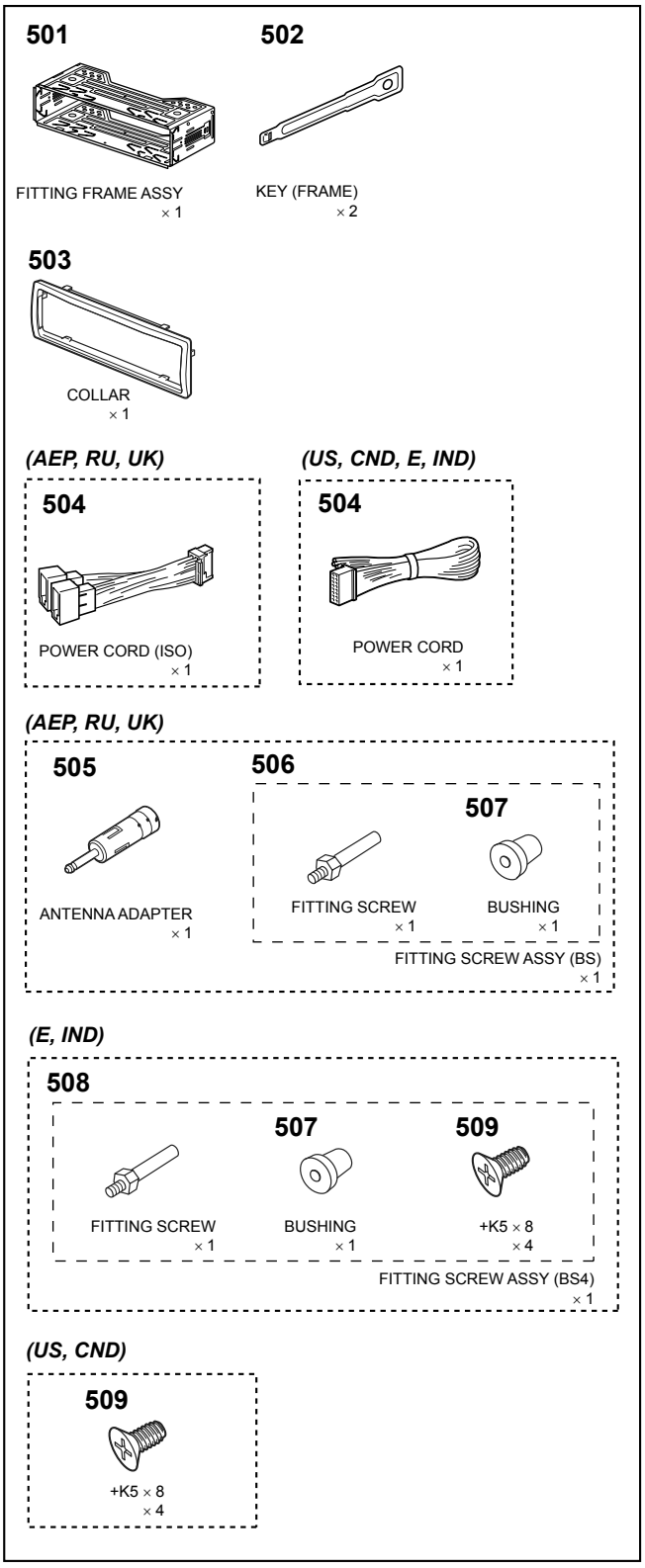
|---|---|---|
| | 1-479-077-14 | REMOTE COMMANDER (RM-X151) (Including battery case lid) (US, CND, E, IND) |

**Note:** Refer to the servicing notes "NOTE FOR REPLACEMENT OF THE AUX JACK (J901)" (See page 3), if replacing the Ref. No. J901.

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | 1-842-192-11 | PLUG CONVERSION (IPOD) (USB connector for iPod) (XA-50IP) | |
| | 2-548-729-01 | LID, BATTERY CASE (for RM-X151) (US, CND, E, IND) | |
| | 3-264-798-01 | CAP (1 piece) (for AUDIO IN/OUT jack) | |
| | 4-177-653-01 | CUSHION (TRAY) (for TUNE TRAY) | |
| | 4-180-028-11 | MANUAL, INSTRUCTION (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH) (AEP, UK) | |
| | 4-180-028-21 | MANUAL, INSTRUCTION (ENGLISH, SPANISH, PERSIAN) (E, IND) | |
| | 4-180-028-31 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (US, CND) | |
| | 4-180-028-41 | MANUAL, INSTRUCTION (RUSSIAN, UKRAINIAN) (RU) | |
| | 4-180-029-11 | MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH) (AEP, UK) | |
| | 4-180-029-21 | MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, PERSIAN) (E, IND) | |
| | 4-180-029-31 | MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, SPANISH) (US, CND) | |
| | 4-180-029-41 | MANUAL, INSTRUCTION, INSTALL (RUSSIAN, UKRAINIAN) (RU) | |
| ********** | | | |
| | | PARTS FOR INSTALLATION AND CONNECTIONS ********** | |
| 501 | X-2179-431-2 | FRAME ASSY, FITTING (EXCEPT US, CND) | |
| 501 | X-2179-455-2 | FRAME ASSY, FITTING (US, CND) | |
| 502 | 3-876-675-01 | KEY (FRAME) (1 piece) | |
| 503 | 4-168-810-01 | COLLAR | |
| 504 | 1-776-527-71 | CORD (WITH CONNECTOR) (ISO) (POWER) (AEP, RU, UK) | |
| 504 | 1-833-972-11 | CONNECTION CODE FOR AUTOMOBILE (POWER) (US, CND, E, IND) | |
| 505 | 1-465-459-41 | ADAPTOR, ANTENNA (AEP, RU, UK) | |
| 506 | X-3382-926-1 | SCREW ASSY (BS), FITTING (AEP, RU, UK) | |
| 507 | 3-349-410-11 | BUSHING (EXCEPT US, CND) | |
| 508 | X-3381-154-1 | SCREW ASSY (BS4), FITTING (E, IND) | |
| 509 | 3-934-325-01 | SCREW, +K (5X8) TAPPING (1 piece) (US, CND, E, IND) | |



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# REVISION HISTORY

Checking the version allows you to jump to the revised page.
Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

| Ver. | Date | Description of Revision |
|---|---|---|
| 1.0 | 2010.04 | New |
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