

# CDC-R30MP/X30MP

## SERVICE MANUAL

Ver 1.0 2003.05

US Model  
Canadian Model

CDC-X30MP

AEP Model

UK Model

CDC-R30MP



Photo: CDC-R30MP

- The CD section have no adjustment.

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-930M-185
Optical Pick-up Name	OPTIMA-752B2

### SPECIFICATIONS

#### RADIO SECTION

##### (FM)

Frequency Range: 87.5 MHz – 108 MHz  
Intermediate frequency: 10.7 MHz (CDC-R30MP)  
Usable Sensitivity: 12.7 dBf  
50 dB Quieting Sensitivity: 17.2 dBf  
IF Rejection: 100 dB  
Frequency Response: 30 Hz – 15,000 Hz  
S/N Ratio: 67 dB (CDC-R30MP)  
70 dB (CDC-X30MP)  
Stereo Separation: 35 dB at 1 kHz  
Alternate Channel Selectivity: 98 dB  
Capture Ratio: 3 dB

##### (AM) (CDC-X30MP)

Frequency Range: 530 kHz – 1,710 kHz  
Usable Sensitivity: 30  $\mu$ V (30 dB)

##### (MW) (CDC-R30MP)

Frequency Range: 531 kHz – 1,602 kHz  
Intermediate frequency: 10.71 MHz/450 kHz  
Usable Sensitivity: 30  $\mu$ V (30 dB)

##### (LW) (CDC-R30MP)

Frequency Range: 144 kHz – 288 kHz (1 kHz/9 kHz step)  
Intermediate frequency: 10.71 MHz/450 kHz  
Usable Sensitivity: 30  $\mu$ V (30 dB)

#### CD SECTION

Frequency Response: 17 Hz – 20 kHz +0/-3 dB  
Dynamic Range: More than 92 dB  
Channel Separation: More than 60 dB  
S/N Ratio: More than 90 dB  
Wow/Flutter: Unmeasurable  
MP3 Decoding: MPEG 1 Audio Layer 3

#### AUDIO SECTION

Max. Power Output: 45 W  $\times$  4 channels

#### AUX Input

Input sensitivity (load impedance) AUX: 300 mV (10 k $\Omega$ )

– Continued on next page –

## FM/AM COMPACT DISC PLAYER

CDC-X30MP

## FM/MW/LW COMPACT DISC PLAYER

CDC-R30MP

9-877-187-01

2003E0400-1

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**Sony Corporation**

e Vehicle Company

Published by Sony Engineering Corporation



# CDC-R30MP/X30MP

## GENERAL

Power-Supply Voltage: 14.4 V (11 to 16 V allowable),  
DC, negative ground

Load Impedance: 4  $\Omega$

Tone Control: Bass  $\pm 10$  dB at 100 Hz,  
Treble  $\pm 10$  dB at 10 kHz

Preamp Output Voltage (load impedance): 2.2 V (10 k $\Omega$ )

Installed size: 182 (W)  $\times$  53 (H)  $\times$  155 (D) mm

(7 1/4 (W)  $\times$  2 1/8 (H)  $\times$  6 1/8 (D) inches)

Supplied Accessory: Carrying case (1)

## CARD REMOTE CONTROL

Dimensions: Approx. 33 (W)  $\times$  85 (H)  $\times$  7.5 (D) mm

(1 5/16 (W)  $\times$  3 3/8 (H)  $\times$  5/16 (D) inches)

Weight: Approx. 20 g (0.7 oz.) (including battery)

• Specifications and external appearance are subject  
to change without notice due to product improvement.

## SERVICE NOTES

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

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

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

### NOTES ON LASER DIODE EMISSION CHECK

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

### Notes on Chip Component Replacement

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

### CDC-X30MP:

#### CAUTION

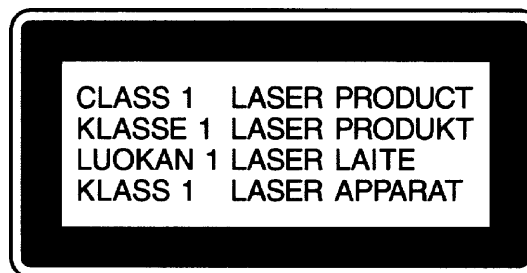
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

### CDC-R30MP:

#### CAUTION

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

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



### SAFETY-RELATED COMPONENT WARNING!!

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

### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

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

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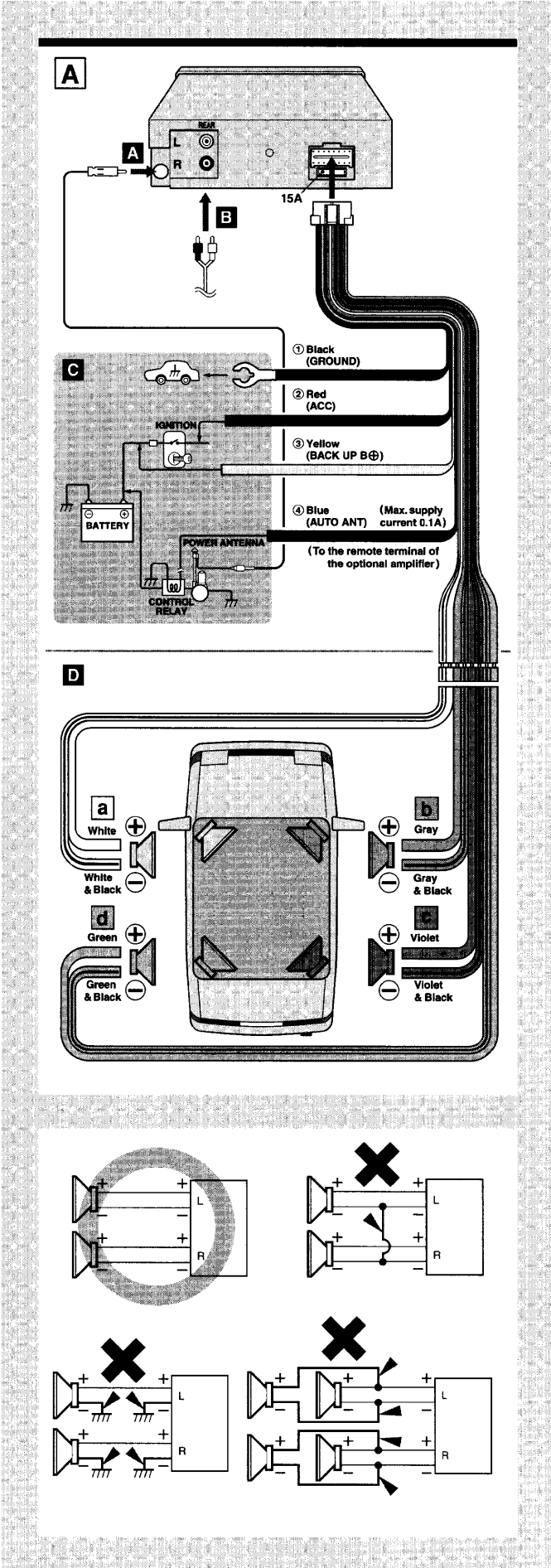
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This section is extracted from instruction manual.

CONNECTIONS (CDC-X30MP)



ENGLISH

CONNECTIONS

PRECAUTIONS

**Precaution on making connections**  
Before connecting, make sure that the ignition switch is set to OFF, and remove the ground terminal of the battery to protect the unit and your car from damage.

**Caution**  
Make the connections correctly, as illustrated in the connection diagram.  
Do not connect the negative (-) cord of each speaker wire to a common point. When replacing the fuse, be sure to use a fuse of the same rated amperage. Use of a fuse of a higher rating may cause serious damage to the unit.

CONNECTION DIAGRAM → A

- A From the car antenna
- B To the input jack of the optional power amplifier (for the rear channel)
- C To the wiring of the vehicle

Colors of leads

- 1 Black (ground lead to be connected to vehicle [metal] body.)
- 2 Red (ACC lead to be connected to the terminal from which power is supplied when the ignition switch is set to ACC.)
- 3 Yellow (battery lead to be connected to the backup terminal from which power is always supplied.)
- 4 Blue (power antenna lead to be connected to the terminal of the control relay switch for a vehicle equipped with a fully automatic power antenna. This lead is not used for a vehicle with a manual antenna or a switch-operated power antenna. If you will use the optional power amplifier with the unit, connect this lead to the remote terminal of the amplifier.)

(Max. supply current 0.1 A)

Speaker connections

Colors of leads

- White/White & Black: Front left (+/-)
- Gray/Gray & Black: Front right (+/-)
- Violet/Violet & Black: Rear right (+/-)
- Green/Green & Black: Rear left (+/-)

4-SPEAKER CONNECTIONS → a, b, d, d

2-SPEAKER CONNECTIONS → a, b, d, d

Insulate the end of the unused lead with a piece of tape.

Notes

- Use speakers with an impedance of 4 to 8 ohms and with adequate power-handling capacities. Otherwise, the speakers may be damaged.
- Do NOT connect the speakers in parallel.
- Do NOT connect the terminals of the speaker system to the car chassis.

ESPAÑOL

CONEXIONES

PRECAUCIONES

**Precauciones al hacer las conexiones**  
Antes de conectar, confirme que el interruptor de encendido está en OFF y desmonte al terminal a tierra de la batería para proteger el aparato y su coche contra daños.

**Precaución**  
Haga las conexiones correctamente, tal como se describe en el diagrama de conexiones.  
No conecte el cable negativo (-) de cada cable de altavoz a un punto común. Cuando cambie el fusible, utilice siempre uno del mismo amperaje nominal. El uso de un fusible de mayor régimen puede provocar daños importantes en el aparato.

DIAGRAMA DE CONEXIONES → A

- A De la antena del coche
- B A la toma de entrada del amplificador de potencia opcional (para el canal trasero)
- C Al cableado del vehículo

Colores de los cables

- 1 Negro (cable a tierra a conectar a la carrocería del vehículo [metal].)
- 2 Rojo (cable ACC a conectar al terminal que recibe eléctrica cuando el interruptor de encendido está en ACC.)
- 3 Amarillo (cable de batería a conectar al terminal de reserva con un flujo permanente de electricidad.)
- 4 Azul (cable de antena motriz a conectar al terminal del interruptor del relé de control para un vehículo equipado con antena motriz totalmente automática. Este cable no se debe utilizar en un vehículo con antena manual o antena motriz que funciona mediante interruptor. Si utiliza el amplificador de potencia opcional en esta unidad, conecte este cable al terminal remoto del amplificador.)

(Corriente máxima 0,1 A)

Conexiones de altavoces

Colores de los cables

- Blanco/Blanco y negro; parte frontal izquierda (+/-)
- Gris/Gris y negro; parte frontal derecha (+/-)
- Violeta/Violeta y negro; parte posterior derecha (+/-)
- Verde/Verde y negro; parte posterior izquierda (+/-)

CONEXIONES PARA 4 ALTAVOCES → a, b, d, d

CONEXIONES PARA 2 ALTAVOCES → a, b, d, d

Nota

Aísele la punta del conductor sin usar cinta.

Notas

- Utilice altavoces con una impedancia de 4 a 8 ohmios y con suficiente capacidad eléctrica. De lo contrario puede dañar los altavoces.
- NO conecte los altavoces en paralelo.
- NO conecte los terminales del sistema de altavoces al chasis del coche.

FRANCAIS

CONNEXIONS

PRECAUTIONS

**Précautions pour les connexions**  
Avant le raccordement, vérifiez que la clé d'allumage est sur OFF, et débranchez la prise de masse de la batterie pour protéger l'appareil et votre voiture des dommages.

**Attention**  
Effectuez les connexions correctement, comme indiqué sur le diagramme de connexion.  
Ne raccordez pas le cordon négatif (-) de chaque fil de haut-parleur à un point commun. Au remplacement du fusible, utilisez un fusible à ampérage nominal identique. L'emploi d'un fusible à ampérage plus élevé peut sérieusement endommager l'appareil.

DIAGRAMME DE CONNEXION → A

- A De l'antenne du véhicule
- B A la prise d'entrée de l'amplificateur de puissance en option (pour le canal arrière)
- C Vers le câblage du véhicule

Couleurs des fils

- 1 Noir (fil de mise à la terre à raccorder à la carrosserie [métal] du véhicule.)
- 2 Rouge (fil ACC à raccorder à la prise à partir de laquelle la puissance est fournie quand la clé d'allumage est réglée sur ACC.)
- 3 Jaune (fil de batterie à raccorder à la prise de secours de laquelle l'alimentation se fait toujours.)
- 4 Bleu (fil d'antenne électrique à raccorder à la prise du commutateur de relais de commande pour un véhicule équipé d'une antenne électrique entièrement automatique. Ce fil n'est pas utilisé sur les véhicules à antenne manuelle ou antenne électrique opérée par commutateur. Si vous souhaitez utiliser l'amplificateur de puissance en option avec cet appareil, raccordez ce fil à la prise de télécommande de l'amplificateur.)

(Courant d'alimentation maxi. 0,1 A)

Raccordement des enceintes

Couleurs des fils

- Blanc/Blanc et Noir; Avant gauche (+/-)
- Gris/Gris et Noir; Avant droite (+/-)
- Violet/Violet et Noir; Arrière droite (+/-)
- Vert/Vert et Noir; Arrière gauche (+/-)

RACCORDEMENT A 4 ENCEINTES → a, b, d, d

RACCORDEMENT A 2 ENCEINTES → a, b, d, d

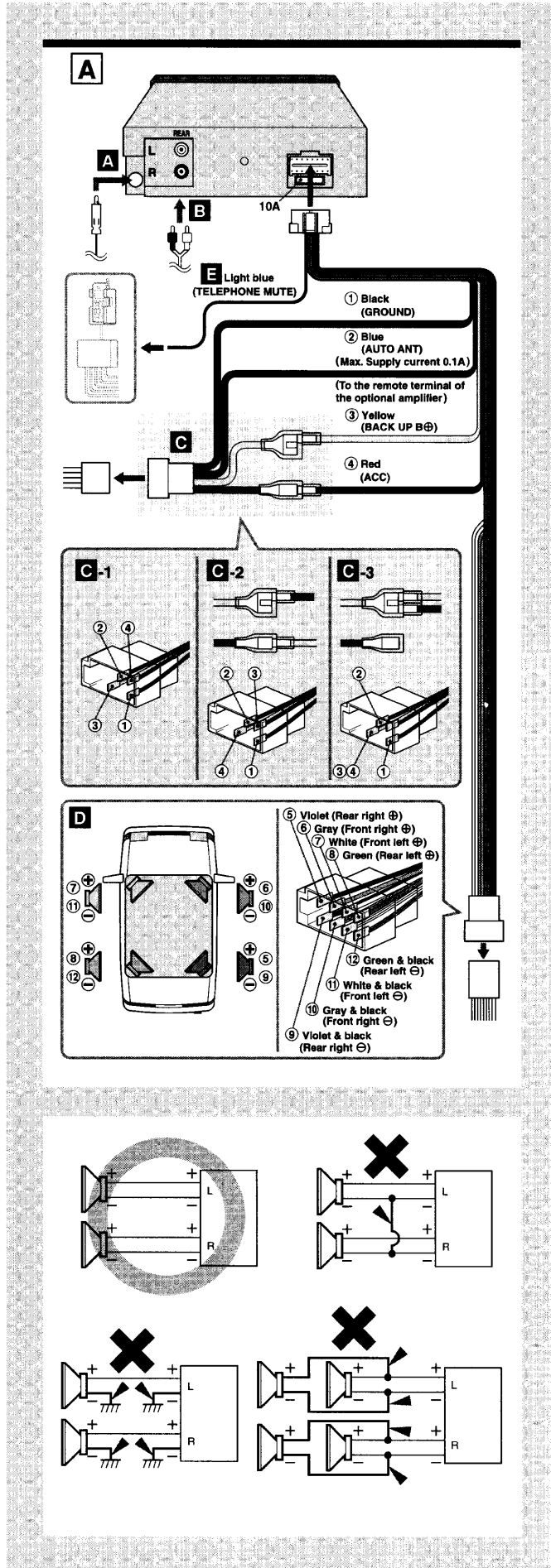
Remarque

Isoler l'extrémité du fil inutilisé avec du ruban.

Remarques

- Utilisez des enceintes à impédance de 4 à 8 ohms et puissance nominale adéquate. Sinon elles seront endommagées.
- Ne raccordez PAS les enceintes en parallèle.
- Ne raccordez PAS les prises du système d'enceintes au châssis de la voiture.

CONNECTIONS (CDC-R30MP)



ENGLISH

CONNECTIONS

PRECAUTIONS

**Precaution on making connections**  
Before connecting, make sure that the ignition switch is set to OFF, and remove the earth terminal of the battery to protect the unit and your car from damage.

**Caution**  
Make the connections correctly, as illustrated in the connection diagram.  
Do not connect the negative (-) cord of each speaker wire to a common point. When replacing the fuse, be sure to use a fuse of the same rated amperage. Use of a fuse of a higher rating may cause serious damage to the unit.

CONNECTION DIAGRAM → A

**A From the car antenna**  
**B To the input jack of the optional power amplifier (for the rear channel)**  
**C To the ISO connector of the vehicle (power supply)**  
Make sure the pin arrangement of the power-supply connector of your car conforms to that of the standard ISO connector (Fig. 1).  
Some car types may have a different pin arrangement, (Fig. 2 or Fig. 3). In that case, change the connections of the red and yellow leads as shown in Fig. 2 or Fig. 3.  
**Note**  
If your car is not pre-fitted with ISO standard connectors, you should use an adaptor available from your retailer or any good automotive accessory shop.

**Colors of leads**  
① Black (ground lead to be connected to vehicle [metal] body.)  
② Blue (power antenna lead to be connected to the terminal of the control relay switch for a vehicle equipped with a fully automatic power antenna. This lead is not used for a vehicle with a manual antenna or a switch-operated power antenna. If you will use the optional power amplifier with the unit, connect this lead to the remote terminal of the amplifier.) (Max. supply current 0.1 A.)  
③ Yellow (battery lead to be connected to the backup terminal from which power is always supplied.)  
④ Red (ACC lead to be connected to the terminal from which power is supplied when the ignition switch is set to ACC.)  
**D To the ISO connector of the vehicle (speaker connection)**  
**Colors of leads**  
⑤/⑧ Violet/Violet & Black; Rear right (+/-)  
⑥/⑨ Gray/Gray & Black; Front right (+/-)  
⑦/⑩ White/White & Black; Front left (+/-)  
⑪/⑫ Green/Green & Black; Rear left (+/-)  
**Notes**  
• Use speakers with an impedance of 4 to 8 ohms and with adequate power-handling capacities. Otherwise, the speakers may be damaged.  
• Do NOT connect the speakers in parallel.  
• Do NOT connect the terminals of the speaker system to the car chassis.

**E To the radio mute lead of the cellular phone hands-free car kit, etc.**  
When the telephone mute lead (light blue) is connected to a cellular phone hands-free car kit, etc., the unit mutes the sound from the speakers automatically during your conversation on the cellular phone. For details, refer to the instruction manual for the cellular phone hand-free car kit.  
**Note**  
This telephone mute lead supports connection only to the radio mute line. When connected to another type of output system, it will not work.

ESPAÑOL

CONEXIONES

PRECAUCIONES

**Precauciones al hacer las conexiones**  
Antes de conectar, confirme que el interruptor de encendido está en OFF y desmonte el terminal a tierra de la batería para proteger el aparato y su coche contra daños.

**Precaución**  
Haga las conexiones correctamente, tal como se describe en el diagrama de conexiones.  
No conecte el cable negativo (-) de cada cable de altavoz a un punto común. Cuando cambie el fusible, utilice siempre uno del mismo amperaje nominal. El uso de un fusible de mayor régimen puede provocar daños importantes en el aparato.

DIAGRAMA DE CONEXIONES → A

**A De la antena del coche**  
**B A la toma de entrada del amplificador de potencia opcional (para el canal trasero)**  
**C Al conector ISO del vehículo (alimentación eléctrica)**

Compruebe que la forma de patillas del conector de alimentación eléctrica de su coche es un conector que cumple con la norma ISO Fig. 1.  
Algunos tipos de coche pueden tener otra forma de patillas diferente, Fig. 2 o Fig. 3. En este caso, cambie las conexiones de los cables rojo y amarillo como se indican en Fig. 2 o Fig. 3.  
**Nota**  
Si su coche no tiene conectores que cumplan la norma ISO, debe utilizar un adaptador de venta en su distribuidor o cualquier tienda de accesorios para automóviles completa.

**Colores de los cables**  
① Negro (cable a tierra a conectar a la carrocería del vehículo [metal].)  
② Azul (cable de antena motriz a conectar al terminal del interruptor de relé de control para un vehículo equipado con antena motriz totalmente automática. Este cable no se debe utilizar en un vehículo con antena manual o antena motriz que funcione mediante interruptor. Si utiliza el amplificador de potencia opcional en esta unidad, conecte este cable al terminal remoto del amplificador.) (Corriente máxima 0,1 A.)  
③ Amarillo (cable de batería a conectar al terminal de reserva con un flujo permanente de electricidad.)  
④ Rojo (cable ACC a conectar al terminal que recibe eléctrica cuando el interruptor de encendido está en ACC.)

**D Al conector ISO del vehículo (conexión de altavoces)**  
**Colores de los cables**  
⑤/⑧ Violeta/Violeta y negro; parte posterior derecha (+/-)  
⑥/⑨ Gris/Gris y negro; parte frontal derecha (+/-)  
⑦/⑩ Blanco/Blanco y negro; parte frontal izquierda (+/-)  
⑪/⑫ Verde/Verde y negro; parte posterior izquierda (+/-)  
**Notas**  
• Utilice altavoces con una impedancia de 4 a 8 ohmios y con suficiente capacidad eléctrica. De lo contrario puede dañar los altavoces.  
• NO conecte los altavoces en paralelo.  
• NO conecte los terminales del sistema de altavoces al chasis del coche.

**E Al conductor de silenciamiento de radio del kit de manos libres para el teléfono celular de coche, etc.**  
Cuando el cable de silenciamiento (marrón) para teléfono está conectado al kit de manos libres para teléfono celular de coche, etc., la unidad silencia automáticamente los altavoces durante su conversación en el teléfono celular. Para más detalles, consulte el manual de instrucciones del kit de manos libres para teléfono celular de coche.

**Nota**  
Este cable de silenciamiento de teléfono sólo puede conectarse a la línea de silenciamiento de radio. No funcionará si lo conecta a otro tipo de sistema de salida.

FRANÇAIS

CONNEXIONS

PRECAUTIONS

**Précautions pour les connexions**  
Avant le raccordement, vérifiez que la clé d'allumage est sur OFF, et débranchez la prise de terre de la batterie pour protéger l'appareil et votre voiture des dommages.

**Attention**  
Effectuez les connexions correctement, comme indiqué sur le diagramme de connexion.  
Ne raccordez pas le cordon négatif (-) de chaque fil de haut-parleur à un point commun. Au remplacement du fusible, utilisez un fusible à ampérage nominal identique. L'emploi d'un fusible à ampérage plus élevé peut sérieusement endommager l'appareil.

DIAGRAMME DE CONNEXION → A

**A De l'antenne du véhicule**  
**B A la prise d'entrée de l'amplificateur de puissance en option (pour le canal arrière)**  
**C Au connecteur ISO du véhicule (alimentation)**  
Vérifiez que l'agencement des broches du connecteur d'alimentation du véhicule est conforme à celle du connecteur ISO standard Fig. 1.

Certains types de véhicules peuvent avoir un agencement de broches différent, Fig. 2 ou Fig. 3. Dans ce cas, modifiez les connexions des fils rouge et jaune comme indiqué en Fig. 2 ou Fig. 3.  
**Remarque**  
Si votre voiture n'est pas dotée d'un connecteur standard ISO, utilisez un adaptateur disponible chez votre revendeur ou dans tout bon magasin d'accessoires automobiles.

**Couleurs des fils**  
① Noir (fil de mise à la terre à raccorder à la carrosserie [métal] du véhicule.)  
② Bleu (fil d'antenne électrique à raccorder à la prise du commutateur de relais de commande pour un véhicule équipé d'une antenne électrique entièrement automatique. Ce fil n'est pas utilisé sur les véhicules à antenne manuelle ou antenne électrique opérée par commutateur. Si vous souhaitez utiliser l'amplificateur de puissance en option avec cet appareil, raccordez ce fil à la prise de télécommande de l'amplificateur.) (Courant d'alimentation maxi. 0,1 A.)  
③ Jaune (fil de batterie à raccorder à la prise de secours de laquelle l'alimentation se fait toujours.)  
④ Rouge (fil ACC à raccorder à la prise à partir de laquelle la puissance est fournie quand la clé d'allumage est réglée sur ACC.)  
**D Au connecteur ISO du véhicule (raccordement des enceintes)**  
**Couleurs des fils**  
⑤/⑧ Violet/Violet et Noir; Arrière droite (+/-)  
⑥/⑨ Gris/Gris et Noir; Avant droite (+/-)  
⑦/⑩ Blanc/Blanc et Noir; Avant gauche (+/-)  
⑪/⑫ Vert/Vert et Noir; Arrière gauche (+/-)  
**Remarques**  
• Utilisez des enceintes à impédance de 4 à 8 ohms et puissance nominale adéquate. Sinon elles seront endommagées.  
• Ne raccordez PAS les prises du système d'enceintes au châssis de la voiture.  
**E Au conducteur d'assourdissement radio du kit téléphone cellulaire auto mains libres**  
Quand le conducteur d'assourdissement radio (bleu ciel) est relié à un kit téléphone cellulaire auto mains libres, etc., l'appareil assourdit automatiquement le son des enceintes pendant la conversation au téléphone cellulaire. Pour les détails, consultez le mode d'emploi du kit téléphone cellulaire auto mains libres.

**Remarque**  
Le fil d'assourdisseur pour téléphone automobile peut seulement être raccordé à la ligne d'assourdissement radio. Il sera sans effet s'il est raccordé à un autre type de système de sortie.

DEUTSCH

ANSCHLÜSSE

VORSICHTSMASSREGELN

**Vorsichtmaßregel zur Herstellung von Anschlüssen**  
Vor dem Herstellen von Anschlüssen sicherstellen, daß der Zündschalter auf OFF steht und die Masseklemme der Batterie entfernt, um das Gerät und das Fahrzeug vor Schäden zu schützen.

**Vorsicht**  
Die Verbindungen korrekt herstellen, wie im Anschlußdiagramm gezeigt.  
Nicht die negative (-) Leitung jedes Lautsprecherkabels an einen gemeinsamen Punkt anschließen. Beim Austauschen der Sicherung immer eine Sicherung der gleichen Stärke verwenden. Verwendung einer höheren Sicherung kann zu schweren Schäden am Gerät führen.

ANSCHLUSSDIAGRAMM → A

**A Von der Autoantenne**  
**B Verstärkerendstufe (für hinteren Kanal)**  
**C Zum ISO-Anschluß des Fahrzeuges (Betriebsstromversorgung)**  
Stellen Sie sicher, daß die Pinanordnung der Betriebsstrombuchse des Fahrzeuges der Standard-ISO-Buchse Fig. 1 entspricht.  
Bestimmte Fahrzeugtypen können eine andere Pinanordnung haben, Fig. 2 oder Fig. 3. In diesem Fall ändern Sie die Verbindungen der roten und gelben Leitungen wie in Fig. 2 oder Fig. 3 gezeigt.

**Hinweis**  
Wenn Ihr Fahrzeug nicht bereits mit ISO-Standardbuchsen ausgestattet ist, sollten Sie einen Adapter verwenden, der von Ihrem Fachhändler oder einem guten Automobilzubehörgeschäft erhältlich ist.  
**Leitungsfarben**  
① Schwarz (Masseleitung zum Anschluß an die Fahrzeugkarosserie [Metall].)  
② Blau (Motorantennenleitung zum Anschluß an die Klemme des Relaischalters für ein Fahrzeug, das mit vollautomatischer Motorantenne ausgestattet ist. Diese Leitung wird nicht für ein Fahrzeug mit manueller Antenne oder einer schalterbetriebenen Motorantenne verwendet. Wenn Sie die optionale Verstärkerendstufe mit dem Gerät verwenden wollen, ändern Sie die Verbindungsklemme des Verstärker anschließen.) (Max. Versorgungsstrom 0,1 A.)

- 3 Gelb (Batterieleitung zum Anschluss an die Reservierklemme von der immer Strom anliegt.)
4 Rot (ACC-Leitung zum Anschluss an die Klemme, von der Strom anliegt, wenn der Zündschlüssel an die ACC steuert.)
Zur ISO-Buchse des Fahrzeuges (Lautsprecher-Verbindung)
Leitungsfarben
(1) Violett/Violett & Schwarz; hinten rechts
(2) Grau/Grau & Schwarz; vorne rechts
(3) Weiß/Weiß & Schwarz; vorne links
(4) Grün/Grün & Schwarz; hinten links

Hinweise
• Verwenden Sie Lautsprecher mit einer Impedanz von 4 bis 8 Ohm und mit angemessener Belastbarkeit.
• Andernfalls können die Lautsprecher beschädigt werden.
• Schließen Sie die Lautsprecher NICHT parallel an.
• Schließen Sie die Klemmen des Lautsprechersystems NICHT an die Fahrzeugkassette an.
Zur Radio-Stummschaltung bei Handy-Telefonaten
Ist das Radio über das Stummschaltungskabel (heißlau) mit dem Handy-Freisprecheinbausatz verbunden, so wird bei Telefongesprächen mit dem Handy die Radiowiedergabe über die Lautsprecher automatisch stummgeschaltet. Näheres hierzu finden Sie in der Anleitung des Handy-Freisprecheinbausatzes.
Hinweise
Die Telefon-Stummschaltung untersützt nur die Radio-Stummschaltung. Bei Anschluss an einen anderen Typ des Ausgabesystems ist sie wirkungslos.

ITALIANO

COLLEGAMENTI

Precauzioni riguardanti i collegamenti
Prima di eseguire i collegamenti, assicurarsi che l'interruttore di ignizione sia impostato su OFF e rimuovere il terminale terra della batteria per proteggere l'apparecchio e la vostra autovettura da eventuali danneggiamenti.

Attenzione
Eseguire i collegamenti correttamente come illustrato nel diagramma dei collegamenti.
Non collegare il cavo (C) di ciascun diffusore ad un punto in comune. Quando sostituite il fusibile, assicurarsi di utilizzare un fusibile dello stesso amperaggio. L'uso di un fusibile di amperaggio superiore può essere causa di danneggiamenti dell'apparecchio.

DIAGRAMMA DEI COLLEGAMENTI

- 1 Dall'antenna dell'autovettura
2 Alla presa di entrata dell'amplificatore di potenza opzionale (per il canale posteriore)
3 Al connettore ISO dell'autovettura (allimentazione)

Accurately check the position of the pins of the connector of the alimentazione della vostra autovettura sia conforme a quella del connettore ISO normale (C-1).
Alcuni tipi di autovetture possono avere una disposizione pin del tipo (C-2) o (C-3). In tal caso, cambiare i collegamenti dei conduttori isolati rossi e gialli come mostrato in (C-2) o (C-3).
Nota
Se la vostra autovettura non è predisposta con connettori standard ISO, utilizzare un adattatore disponibile presso il vostro rivenditore o presso un negozi di accessori per auto ben fornito.

Colori dei conduttori isolati

- 1 Nero (conduttore isolato di terra da collegare alla carrozzeria dell'autovettura (parte metallica))
2 Blu (conduttore isolato dell'antenna di potenza da collegare al terminale dell'interruttore di scorrimento dei comandi per veicoli con antenna di potenza completamente automatica. Questo conduttore isolato non viene utilizzato per veicoli con antenna manuale o con antenne di potenza ad interruttore. Se utilizzate l'amplificatore di potenza opzionale con questo apparecchio, collegare questo conduttore isolato al terminale a distanza dell'amplificatore.)
3 Giallo (conduttore isolato della batteria da collegare al terminale di backup dal quale viene sempre fornita l'alimentazione.)
4 Rosso (conduttore isolato ACC da collegare al terminale dal quale viene fornita l'alimentazione quando l'interruttore di ignizione è impostato su ACC.)
5 Al connettore ISO del veicolo (collegamento diffusori)
Colori dei conduttori isolati
(1) Violett/Violett & nero; posteriore destro
(2) Grigio/Grigio & nero; anteriore destro
(3) Bianco/Bianco & nero; anteriore sinistro
(4) Verde/Verde & nero; posteriore sinistro

Note
• Utilizzare diffusori con una impedenza di 4 a 8 ohms e con una capacità di controllo alimentazione adeguata.
• Altrimenti, i diffusori potrebbero danneggiarsi.
• Non collegare i diffusori in parallelo.
• Non collegare i terminali del sistema diffusori all'autovetola.
Al conduttore isolato di alimentazione radio del kit viva voce per il telefono cellulare, ecc.
Quando il conduttore isolato di silenziamento del telefono (azzurro) viene collegato al kit viva voce per il telefono cellulare, ecc., l'unità interrompe automaticamente il suono proveniente dagli altoparlanti durante le conversazioni con il telefono cellulare. Per ulteriori dettagli, consultare il manuale di istruzioni del kit viva voce per il telefono cellulare.
Note
Questo conduttore isolato per il mutolo del telefonino sostiene solo la connessione alla linea di mutolo della radio. Quindi non funziona se collegato ad un altro tipo di sistema di uscita.

NEDERLANDS

AANSLUITINGEN

VOORZORGSMAATREGELEN
Voorbereidingen voor het aansluiten
Voor u het apparaat gaat aansluiten, zet u het contact van de auto op OFF en maak u de aardklem van de accu los, om kortsluiting te voorkomen.

Voorzichtig
Maak de aansluitingen zorgvuldig zoals aangegeven in het bijgaande aansluitingschema.
Sluit nooit de negatieve (C) polen van de beide luidsprekers met elkaar op hetzelfde punt aan.
Vervang de zekerings uitsluitend door één met hetzelfde amperage. Gebruik van een zekering met hoger amperage kan ernstige schade aan het apparaat veroorzaken.

AANSLUITSHEMA

- 1 Vanaf de auto-antenne
2 Vanaf de ingangspunt van de auto verkrijgbare eindversterker (voor het achterkanaal)

Naar de ISO aansluitstekker van de auto (voor de stroomvoorziening)

Controleer of de stekkerconfiguratie van de stroomvoorziening aansluiting in uw auto overeenkomt met de standaard ISO aansluitstekker (C-1).
In sommige auto's is de stekkerconfiguratie anders, zoals in (C-2) of (C-3). In dat geval dient u de aansluitingen van de auto te veranderen, zoals getoond in (C-2) of (C-3).

- 1 Zwart (massadraad, verbinden met een metaal) carrossedeel van de auto.
2 Blauw (automatische antenne draad, verbinden met de aansluiting van de bedieningsrelaisachseleer bij een auto voorzien van een volautomatische antenne. Deze draad niet gebruiken bij een auto met een handmatig bediende of halfautomatische antenne. Als u een los verkrijgbare eindversterker aansluit op dit apparaat, verbind deze draad dan met de inschakelaarsluiting van de versterker.)
3 Geel (accudraad, verbinden met de reserve-aansluiting die altijd stroom levert.)
4 Rood (ACC adapter draad, verbinden met de aansluiting die stroom levert wanneer het contact van de auto in de ACC stand staat.)

Naar de ISO aansluitstekker van de auto (luidspreker-aansluiting)

- 1 Kleuren van de stroomdraden
(1) Paars/Paars en zwart, Rechtsachter
(2) Grijs/Grijs en zwart, Rechtsvoor
(3) Wit/Wit en zwart, Linksvoor
(4) Groen/Groen en zwart, Linksachter

Opmerkingen
• Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm, die het geluidsvermogen kunnen verwerken. Anders kunnen de luidsprekers beschadigd worden.
• NOOIT de luidsprekers met aansluitingen op de carrosserie van de auto.
• Naar de radio-dempingsdraad van de hands-free auto's e.d. van een mobiele telefoon
Als de telefoon-dempingsdraad (lichtblauw) op de hands-free auto's e.d. van een mobiele telefoon wordt aangesloten, zal de geluidsweg via de luidsprekers automatisch gedempt worden wanneer u de mobiele telefoon gebruikt. Zie voor nadere bijzonderheden de handleiding van de hands-free auto's van de mobiele telefoon.
Opmerking
Deze draad is alleen geschikt voor aansluiting op een radio-dempingsdraad bij aansluiting op een ander type weergavesysteem zal de geluidsdemping niet werken.

POLSKI

POŁĄCZENIA

ŚRODKI OSTROŻNOŚCI
Środki ostrożności dotyczące połączeń
W czasie wypracowywania połączeń upewnij się, że klucz zestyk wyjęty ze stacyjki zapłon, która ustawiona jest w pozycji OFF, po czym odłączyć przewód masy od ujemnego bieguna akumulatora przed uchronianiu samochodu oraz obciążnika przed uszkodzeniem.

Uwaga
Połączenia wykonać poprawnie, jak pokazano na schemacie połączeń.
Nie podłączaj ujemnych przewodów do głośnikowych do wspólnej masy. W przypadku wymiany bezpiecznika pamiętaj o założeniu bezpiecznika o tej samej mocy. Założenie bezpiecznika o wyższych parametrach może spowodować uszkodzenie zestawu.

SCHEMAT POŁĄCZEŃ

- 1 Od anteny samochodu
2 Do gniazda wejściowego opcjonalnego wzmacniacza mocy (dla tylnego kanału)
3 Do złącza ISO pojazdu (źródło zasilania)

Uwaga
Upewnij się, że układ styków zasilania pojazdu zwraca się z układem styków konektora w standardzie ISO (C-1).
Pojaży niektórych typów mogą być wyposażone w konektor on i układ styków, jak (C-2) lub (C-3). W takim wypadku należy zmienić połączenia przewodu czerwonego oraz przewodu żółtego, jak pokazano na rysunku (C-2) lub (C-3).
Uwaga
Jeżeli samochód, w którym zestaw ma zostać zamontowany, nie jest wyposażony w konektor odpowiadający standardowi ISO, należy użyć odpowiedniej przejściówki, która powinna być dostępna u dealera samochodowego albo w sklepie z artykułami motoryzacyjnymi.

Kolory przewodów

- 1 Czarny (przewód masy, który ma być podłączony do masy metalowej części pojazdu.)
2 Niebieski (przewód anteny automatycznej, który ma być podłączony do złącza przekaźnika w pojazdach wyposażonych w pełni automatyczną antenę. Przewód ten nie jest wykorzystywany w pojazdach wyposażonych w antenę nieautomatyczną, czy antenę sterowaną ręcznie przekaźnikiem. W przypadku wykorzystania z niniejszym zestawem opcjonalnego wzmacniacza mocy, podłączyć ten przewód do złącza zdalnego sterowania wzmacniacza.)
3 Żółty (przewód zasilania, który ma być podłączony do zapasowego złącza, od którego podawany będzie prąd do zasilania.)
4 Czerwony (przewód ACC, który ma być podłączony do złącza, od którego prąd jest podawany w czasie, kiedy stacyjka ustawiona jest w pozycji Akc.)
5 Do złącza ISO pojazdu (połączenia głośnikowe)
Kolory przewodów
(1) Fioletowy/fioletowo-czarny; prawa strona z tyłu
(2) Szary/szaro-czarny; prawa strona z przodu
(3) Biały/biało-czarny; lewa strona z przodu
(4) Zielony/zielono-czarny; lewa strona z tyłu

Uwagi

• Używać głośników o impedancji 4 lub 8 Ohm oraz o odpowiedniej mocy. W przeciwnym wypadku głośniki mogą zostać uszkodzone.
• Nie podłączaj głośników równolegle.
• Nie podłączaj złącza zestawu głośnikowego do masy samochodu.
Do przewodu wyciągającego radio zestawu głośnomówiącego telefonu komórkowego itp.
Gdy podłączysz przewód wyciągający radio (jasnoniebieski) do zestawu głośnomówiącego telefonu komórkowego itp., zestaw automatycznie wycisza dźwięk z głośników podczas rozmowy z telefonem komórkowego itp. Szczegóły podane w instrukcji obsługi zestawu głośnomówiącego.
Uwaga
Niniejszy przewód wyciągający głośników funkcjonuje tylko w przypadku połączenia z przewodem zasilania radia. Nie będzie on działał w przypadku połączenia z innym systemem wyciszym.

MAGYAR

CSATLAKOZTATÁSOK

BIZTONSÁGI ÖVINTÉZKEDÉSEK

A csatlakoztatások elkészítésével kapcsolatos övintézkedések
A készülék beszerelése előtt feltétlenül állítsa az indítókulcs OFF pozícióra és a rovdáránál elkülönítse áramkörök távolítsa el a gépjármű-akkumulátor (-) pólusának saruját.

Figyelemztetés
A csatlakoztatásokat pontosan, a kapcsolási rajznak megfelelően végezze el.
Soha ne használjon közös (+) kábelt az egyes hangszórókhoz. Biztonságkéséres esetén csak az eredeti vagy azonos amperértékű biztosítékot használjon. Az eredetinel magasabb amperértékű biztosíték használata a készülék súlyos károsodását okozhatja.

KAPCSOLÁSI RAJZ

- 1 Gépkoisantennától
2 Az opcionális teljesítményerősítő bemeneti csatlakozójához (a hátsó csatoma számára)
3 A gépkoicsi ISO konektorához (tápellátás)

Ellenőrizze, hogy a gépkoicsi tápellátású csatlakozójának tocsátása megfelel-e a szabvány ISO csatlakozóknak (C-1).
Néhány gépkoicsi eltérő típusalással rendelkezik (C-2) vagy (C-3), ilyen esetben az (C-2) vagy (C-3) ábrának megfelelően változtassa meg a piros és sárga vezeték bekötését.
Megjegyzés
Ha az Ön gépkocaja nem rendelkezik ISO szabványú csatlakozóval, adaptált kell használnia, amelynek mátkerácsolásánál vagy bármelyik jó gépkoicsi felszerelés szakkifejtésénél tud beszerezni.

A vezeték színe

- 1 Fekete (test vezeték, a gépkoicsi (fém) karosszékétől a csatlakozóhoz)
2 Kék (a motoros antenna vezeték; a motoros antennával ellátott gépkoicsk vezérlő relékapcsolójához van csatlakoztatva. A vezetékkel és féltautomata antennával rendelkező gépkoicsk esetén nem használható. Ha a készülékhez opcionális teljesítményerősítőt használ, ezt a vezeték az erősítő tápellátás termináljához csatlakoztassa.)
3 Sárga (akkumulátor vezeték; amely az áramot folyamatosan biztosít backup terminálhoz van csatlakoztatva.)
4 Piros (ACC vezeték; indító a terminálhoz van csatlakoztatva, amely az indítókulcs ACC állásban áramot szolgáltat.)

A gépkoicsi ISO csatlakozójához (hangszóró csatlakoztatása)

- 1 A vezeték színe
(1) Lila/Lila & Fekete; Jobb hátsó
(2) Szürke/Szürke & Fekete; Jobb első
(3) Fehér/Fehér & Fekete; Bal első
(4) Zöld/Zöld & Fekete; Bal hátsó

Megjegyzések
• Csak akkor használja az megfelelő teljesítményű hangszórókat használjon. Ellenkező esetben károsodhatnak a hangszórók.
• NE kösse párhuzamosan a hangszórókat.
• NE csatlakoztassa a hangszórórendszer terminálját a gépkoicsi karosszékéhez.
A mobiltelefon kihangosított autós készletét, stb. rádió-némítő kivezetéséhez
Ha a telefonát vezeték (világoskék) a mobiltelefon kihangosított autós készletét, stb. van csatlakoztatva, akkor az zsigység automatikusan elnémítja a hangszórók hangját a mobiltelefonon folytatott beszélgetés ideje alatt. Erőli részletekesebben a mobiltelefon kihangosított autós készletnek kezelési kézikönyvében olvashat.
Megjegyzés
Ez a telefonátémítő vezeték csak a rádió-némítőhöz való csatlakoztatásnál támogatja. Ha más kimenetelt köti össze, nem fog működni.

ČESKY

PROPOJENÍ

BEZPEČNOSTNÍ OPATŘENÍ

Bezpečnostní opatření k provedení propojení
Před propojením se přešvéděte, že spínač zapalování je nastaven na OFF a odpojte uzemňující terminál automobilového akumulátoru ochrání přístroj a Váš automobil před poškozením.

UPOZORNĚNÍ
Při provádění propojení správně tak, jak je zobrazeno na propojovacím diagramu.
Nepropojujte negativní (+) šňůru jednotlivých reproduktorových vodičů do společného bodu. Pokud vyměníte pojistku, přešvéděte se, že použijete pojistku stejného jmenovitého proudového zatížení. Použití pojistky o vyšším zatížení může způsobit vážné poškození přístroje.

PROPOJOVACÍ DIAGRAM

- 1 Od automobilové antény
2 Ke vstupní zdičce volitelného výkonového zesilovače (pro zadní kanál)
3 Ke konektoru ISO vozidla (přívod napájení)

Přešvéděte se, že uspořádání trmů v přívodním napájecím konektoru Vašeho automobilu vyhovuje standardnímu ISO konektoru (C-1).
Některé typy automobilů mohou mít jiné uspořádání trmů, (C-2 nebo C-3). V tomto případě změňte propojení červených a žlutých vodičů tak, jak ukázáno na (C-2) nebo (C-3).
Poznámka
Jestliže Váš automobil není předvybaven standardními ISO konektory, musíte použít adaptér dostupný od Vašeho prodejce anebo z technického dobrého obchodu automobilových příslušenství.
Barva vodičů
1 Černý (zemnicí vodič, který se propojí na kostru (kovovou) vozidla.)
2 Modrý (vodič motorové antény, který se propojí na terminál ovládající reléového přepínače pro automobilový vybavené plně automatickou výkonovou antenu. Tento vodič se nepoužívá pro automobil s ruční anténou anebo připojeném ovládanou výkonovou antenu. Jestliže použijete volitelný výkonový zesilovač s tímto přístrojem, zapojte tento vodič do odkávaného terminálu zesilovače.)
3 Žlutý (bateriový vodič, který se propojí na záložní terminál, ze kterého je vždy přiváděno napájení.)
4 Červený (ACC vodič, který se propojí na terminál, ze kterého je přiváděno napájení, pokud je přepínač zapalování nastaven na ACC.)

K ISO konektoru automobilu (propojení reproduktorů)

- 1 Barva vodičů
(1) Fialový/fialový & černý; pravý zadní
(2) Šedý/šedý & černý; pravý přední
(3) Bílý/bílý & černý; levý přední
(4) Zelený/zelený & černý; levý zadní

Poznámky
• Používejte reproduktory s impedancí 4 až 8 ohmů a s patřičnou kapacitou pro zpracování výkonu. Jinak může dojít k poškození reproduktorů.
• NEZAPOJUJTE reproduktory paralelně.
• NEZAPOJUJTE terminály reproduktorového systému na šasi automobilu.
K vodiči zřídění rádia z automobilové soupravy pro ovládní mobilního telefonu s volným rukama
Pokud je vodič zřídění telefonu (světlé modrý) zapojen do automobilové soupravy pro ovládní mobilního telefonu s volným rukama apod., jednodlna automaticky zřídí zvuk z reproduktorů během Vašeho rozhovoru na mobilním telefonu. Oheďné podrobnosti nahlédněte do návodu k obuze pro automobilovou soupravy pro ovládní mobilního telefonu s volným rukama.

РУССКИЙ

СОЕДИНЕНИЯ

ПРЕДОСТОРОЖНОСТИ

Предосторожности относительно выполнения соединений
Перед соединением убедитесь, что выключатель зажигания установлен в положение OFF и снимите клемму заземления с аккумулятора автомобиля для защиты аппарата и Вашего автомобиля от повреждения.

Предостережение

Выполняйте соединения надлежащим образом, как показано на схеме соединений.
Не подсоединяйте отрицательный шнур (+) к каждому акустической системы к общей точке.
При замене плавающего предохранителя обязательно используйте плавающий предохранитель с такой же номинальной силой тока в амперах. Использование плавающего предохранителя с более высоким номинальным значением может вызвать серьезное повреждение аппарата.

СХЕМА СОЕДИНЕНИЙ

- 1 От автомобильной антенны
2 К входному гнезду отдельно приобретаемого усилителя мощности (для заднего канала)
3 К разъему ISO на автомобиле (источник питания)

Убедитесь, что расположение штырьков на разъеме для источника питания Вашего автомобиля соответствует разъему источника питания ISO (C-1).
Некоторые типы автомобилей могут иметь другое расположение штырьков, как например (C-2) или (C-3). В этом случае измените соединения красного и желтого проводов как показано на рисунке (C-2) или (C-3).
Примечание
Если Ваш автомобиль предваращен не оснащен стандартными разъемами ISO, Вы должны использовать адаптер, имеющийся в наличии у Вашего дилера или в любом другом магазине автомобильных принадлежностей.

Цвета проводов

- 1 Черный (провод заземления для подсоединения к корпусу автомобиля (металлической части).)
2 Синий (провод антенны с электроприводом для подсоединения к гнезду релевого выключателя управления для автомобиля, оснащенного антенной с автоматическим электроприводом. Данный провод не используется в автомобиле с ручной антенной или с антенной с управляемым электроприводом. Если Вы используете отдельно приобретаемый усилитель мощности сданным аппаратом, подсоедините этот провод к гнезду дистанционного управления усилителя.)
3 Желтый (провод аккумуляторной батареи для подсоединения к гнезду резервного питания, от которого всегда подается питание.)
4 Красный (провод ACC для подсоединения к гнезду от которого питание подается тогда, когда выключатель зажигания установлен в положение ACC.)

К разъему ISO на автомобиле (соединение акустической системы)

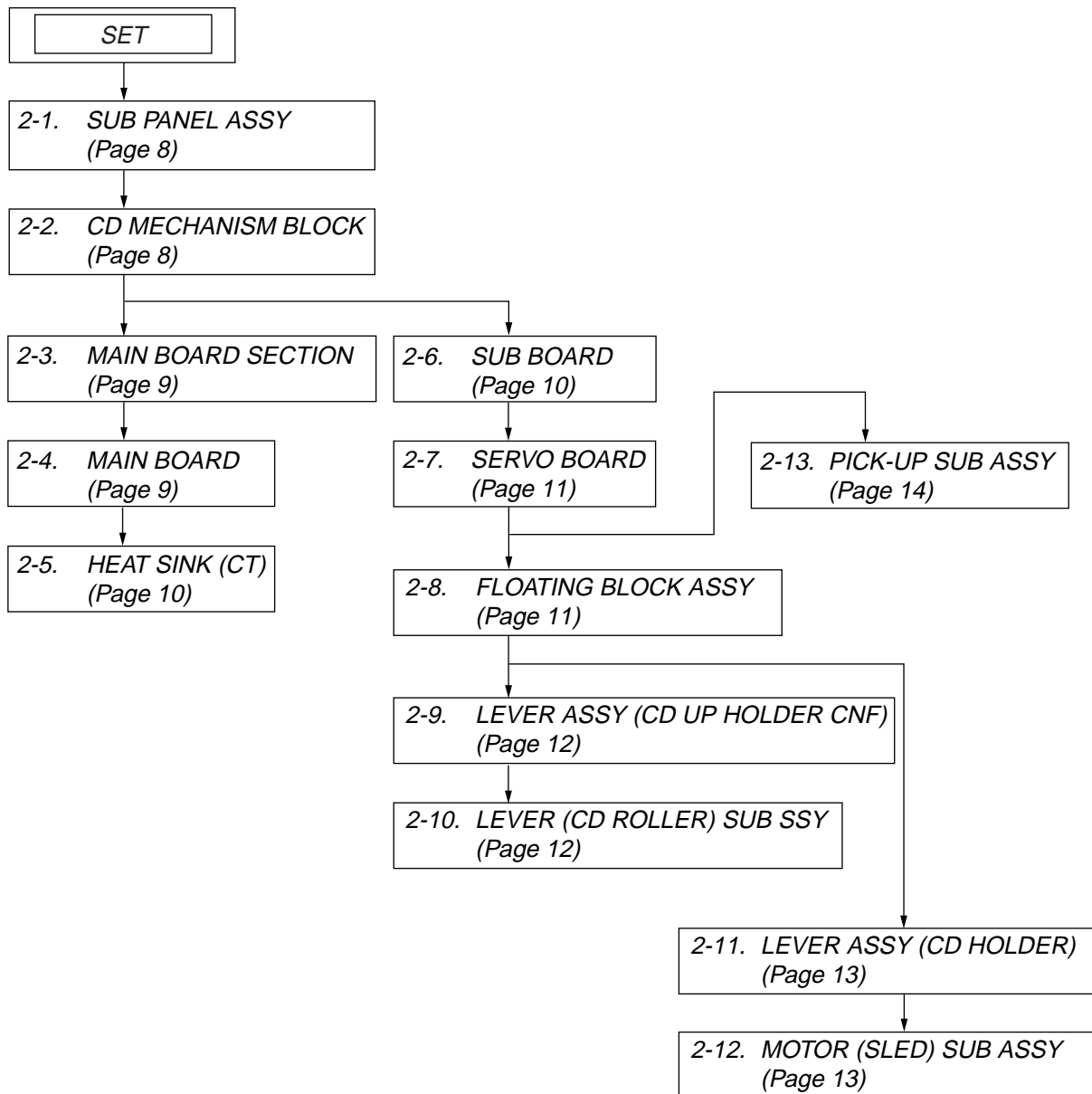
- 1 Цвета проводов
(1) Фиолетовый/фиолетовый & черный; правый задний
(2) Серый/серый & черный; правый передний
(3) Белый/белый & черный; левый передний
(4) Зеленый/зеленый & черный; левый задний

Примечания

• Используйте акустические системы с импедансом 4 - 8 Ом и адекватным рабочим сопротивлением. В противном случае акустические системы могут быть повреждены.
• НЕ соединяйте акустические системы параллельно.
• НЕ соединяйте разъемы акустической системы с шасси автомобиля.
К проводу для подведения звука радиоприемника, автомобильного комплекта сотового телефона и т.п. (такой комплект позволяет пользоваться сотовым телефоном в автомобиле без помощи рук)
При подсоединении провода для подведения звука радиоприемника (голубой) к автомобильному комплекту сотового телефона и т.п., устройство автоматически подает звук радиоприемника на время Вашего разговора по сотовому телефону. Для более детальной информации обращайтесь к инструкции по использованию автомобильного комплекта сотового телефона.
Примечание
Данный провод автомобильного телефона работает при подсоединении только к линии приговора радиоприемника. При подсоединении к другому типу системы выходного сигнала он не будет работать.

## SECTION 2 DISASSEMBLY

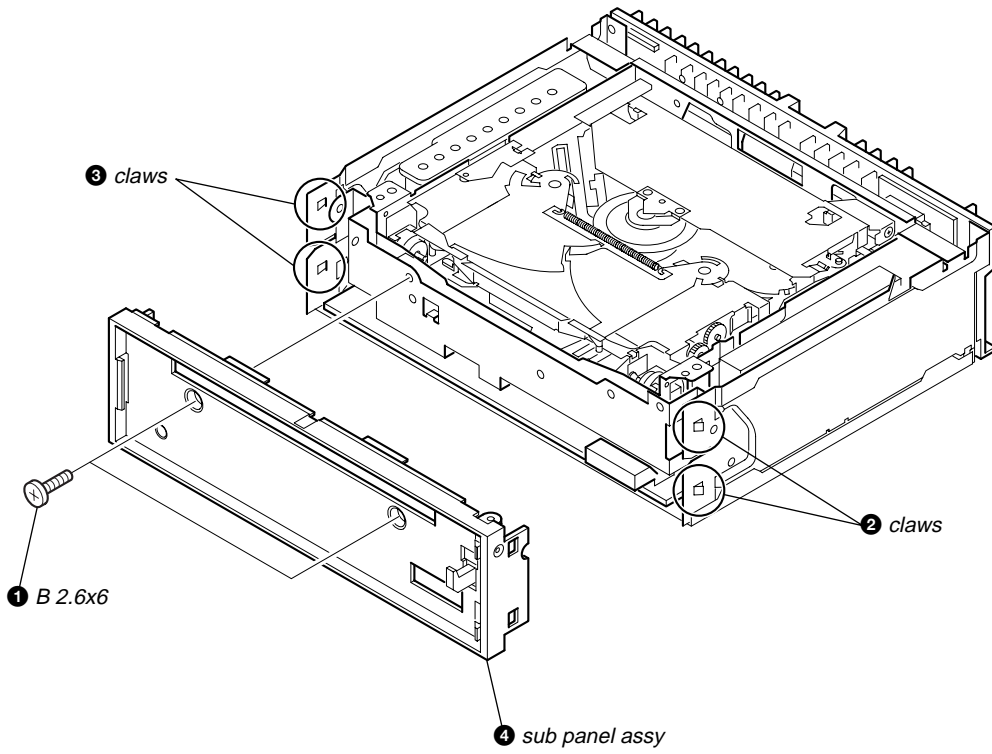
**Note :** This set can be disassemble according to the following sequence.



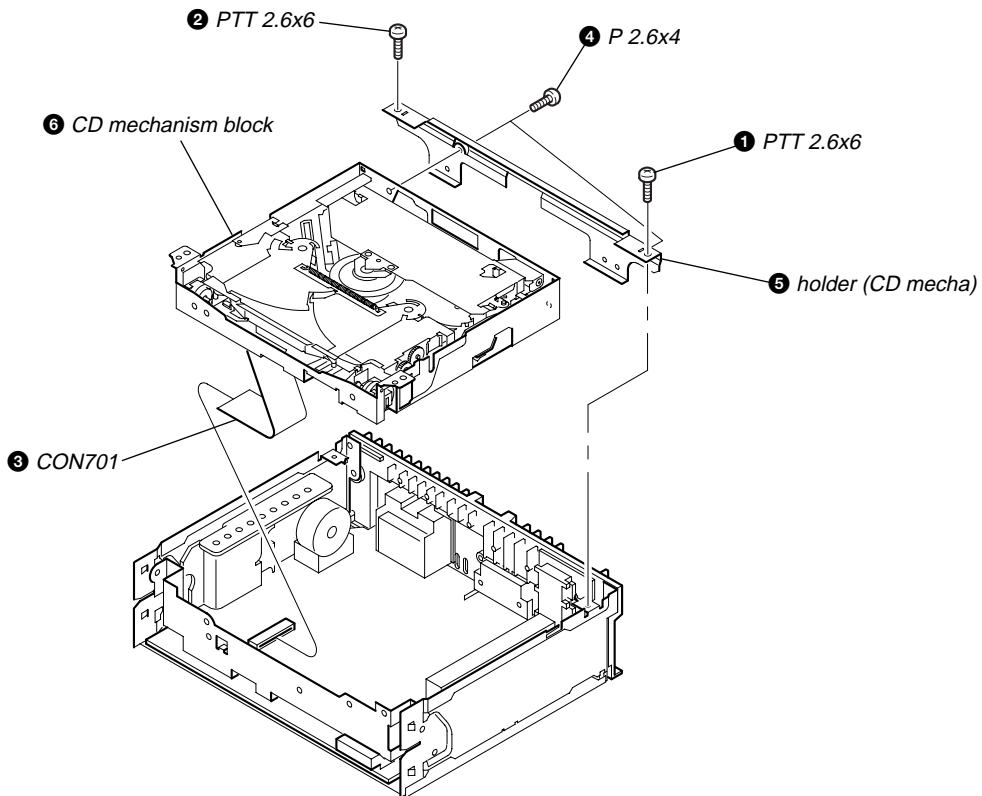
# CDC-R30MP/X30MP

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

## 2-1. SUB PANEL ASSY

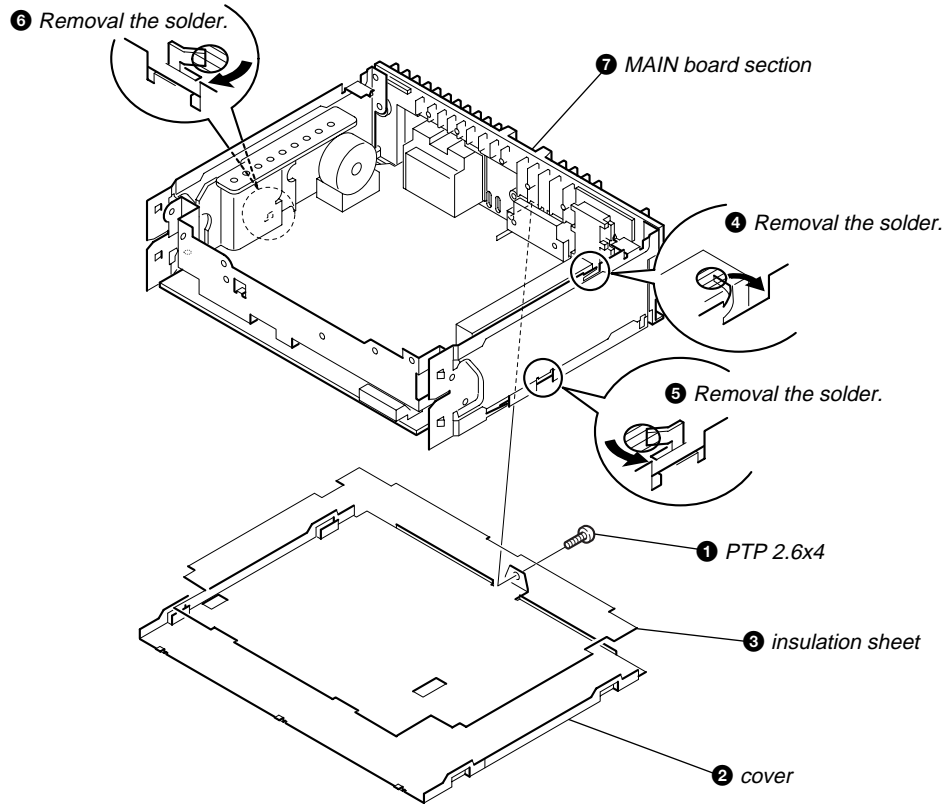


## 2-2. CD MECHANISM BLOCK

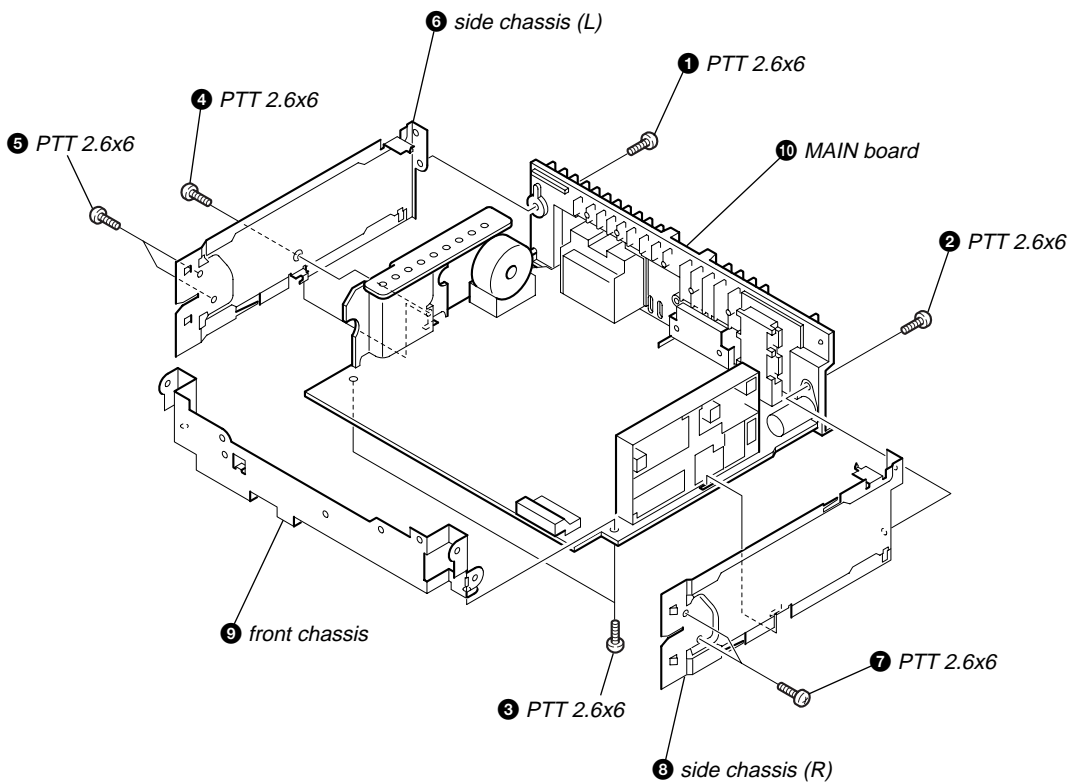




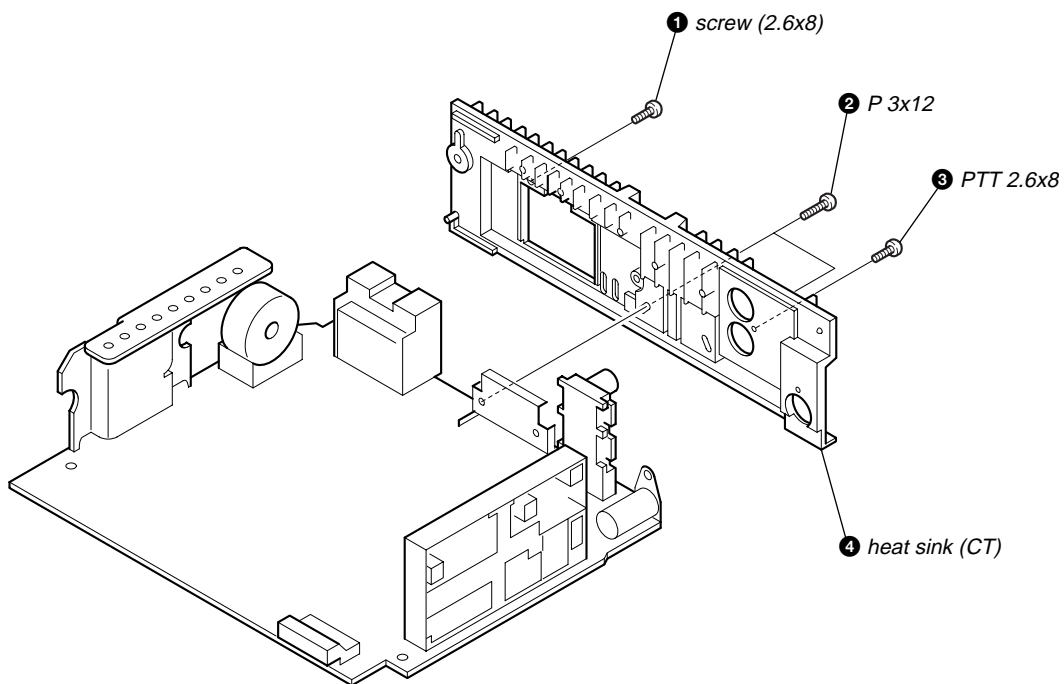
2-3. MAIN BOARD SECTION



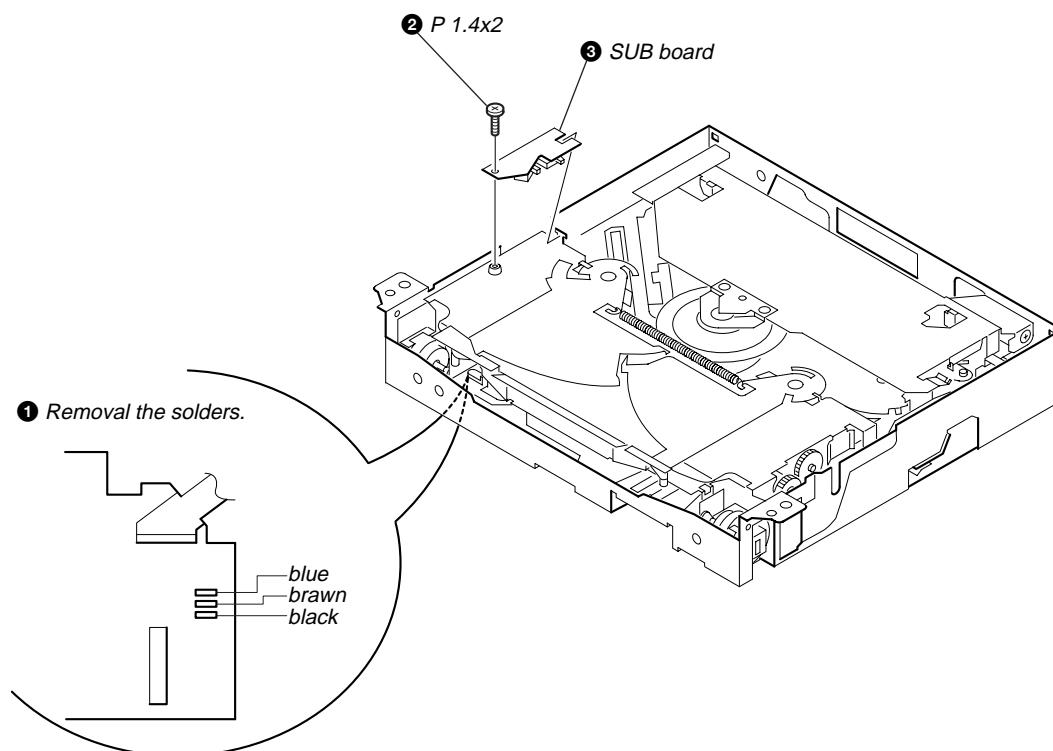
2-4. MAIN BOARD



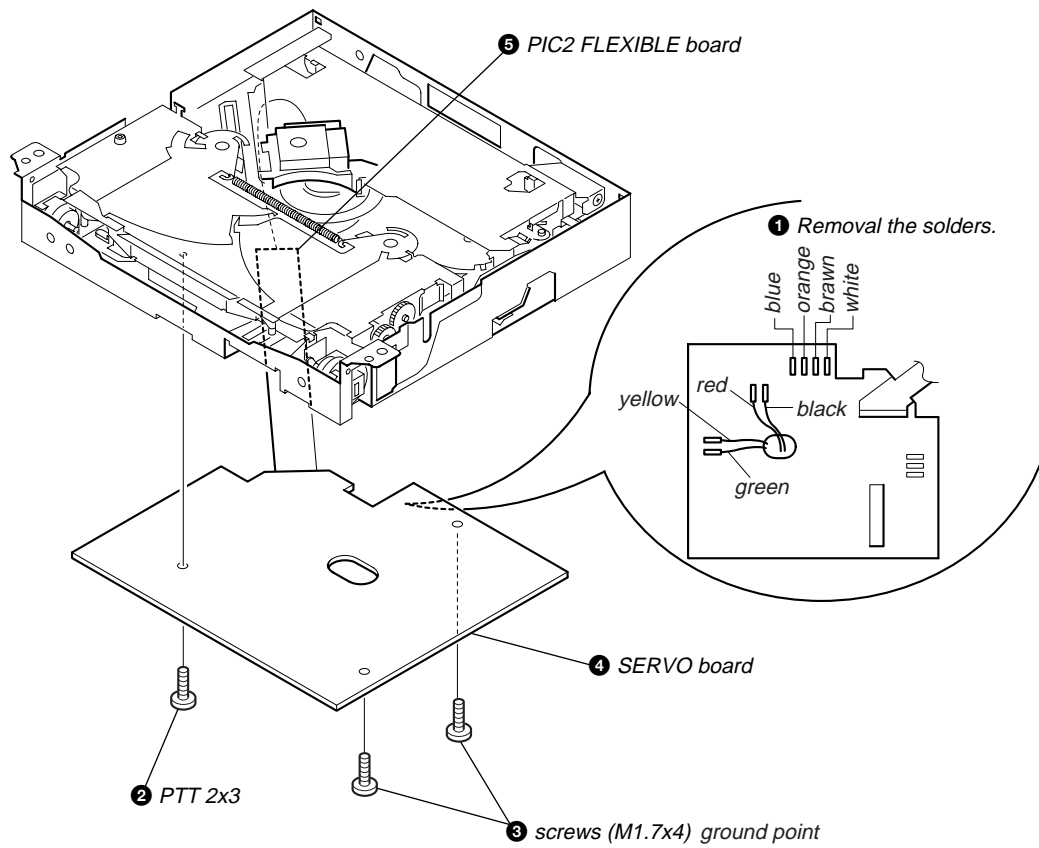
2-5. HEAT SINK (CT)



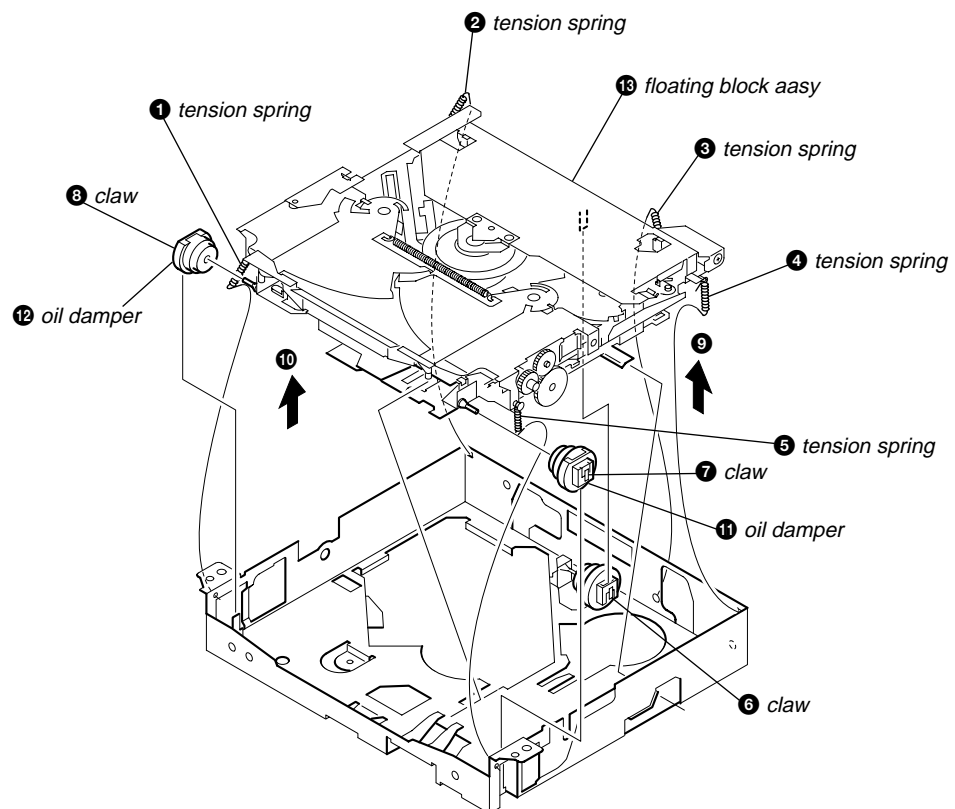
2-6. SUB BOARD



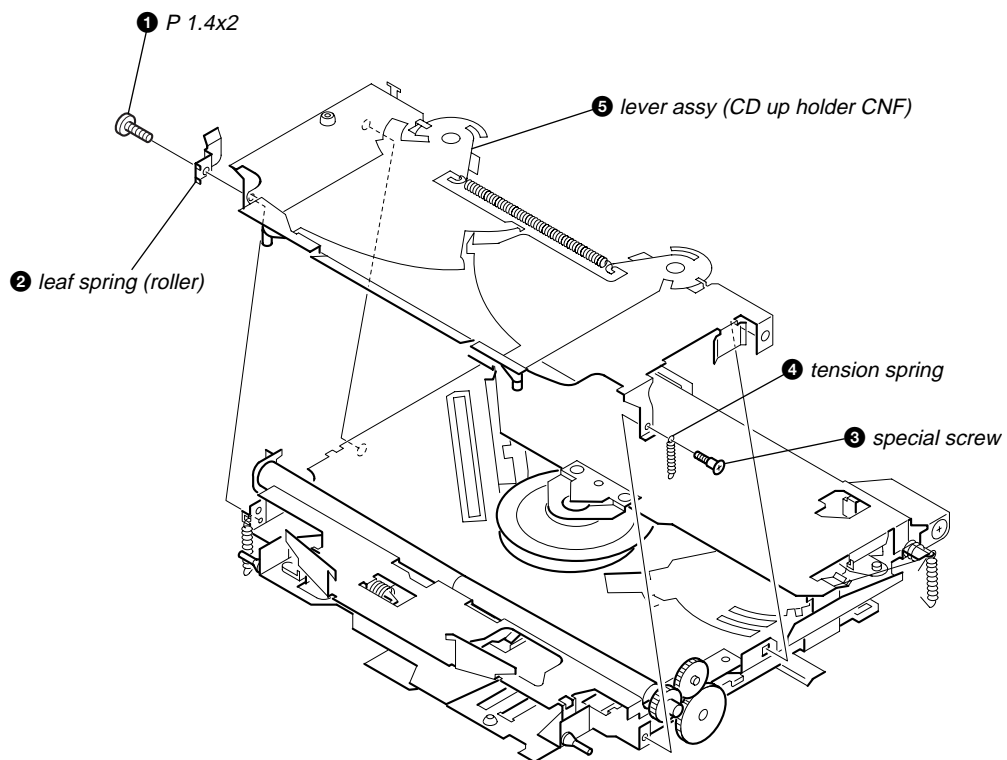
2-7. SERVO BOARD



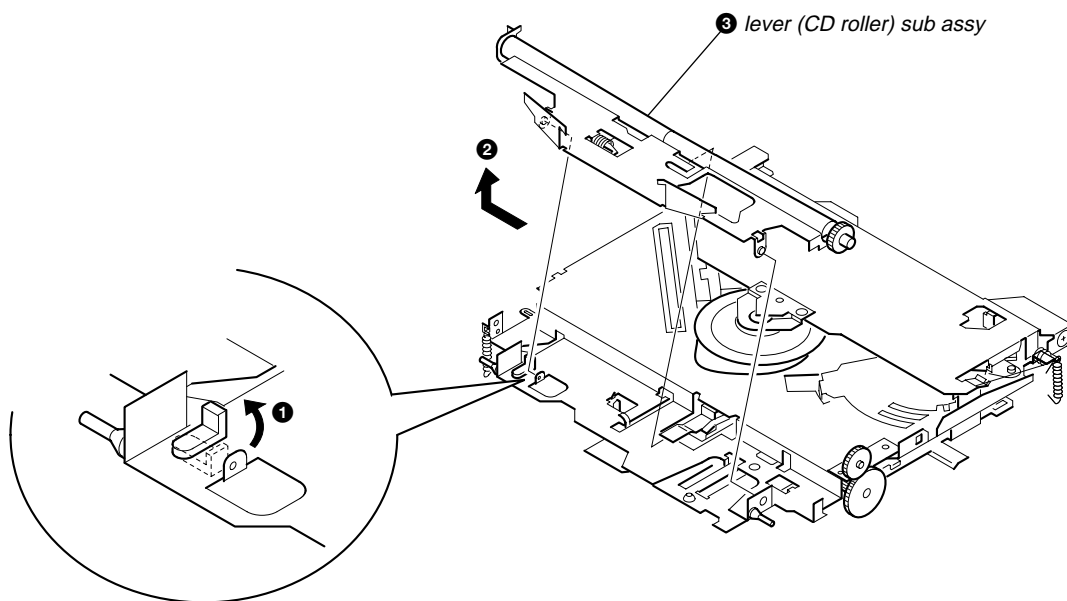
2-8. FLOATING BLOCK ASSY



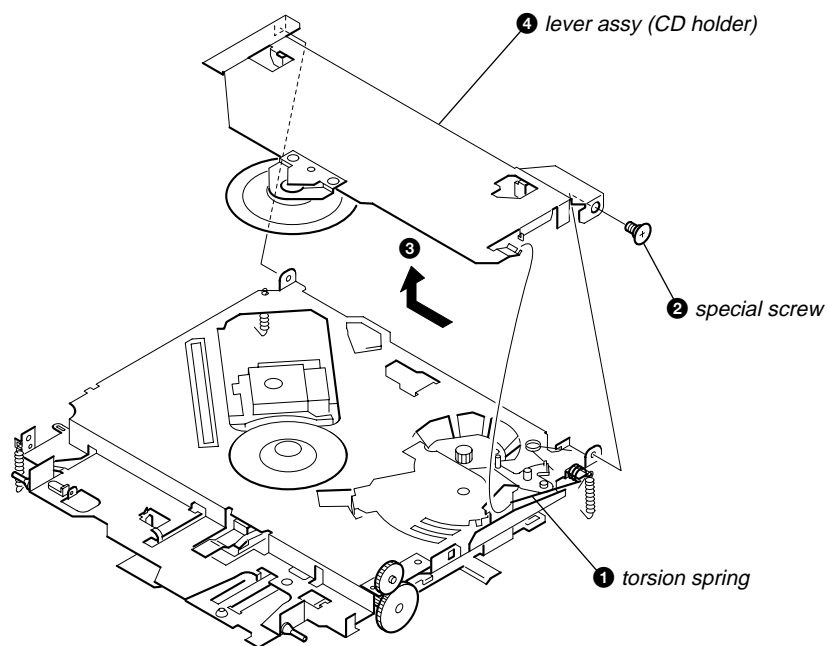
2-9. LEVER ASSY (CD UP HOLDER CNF)



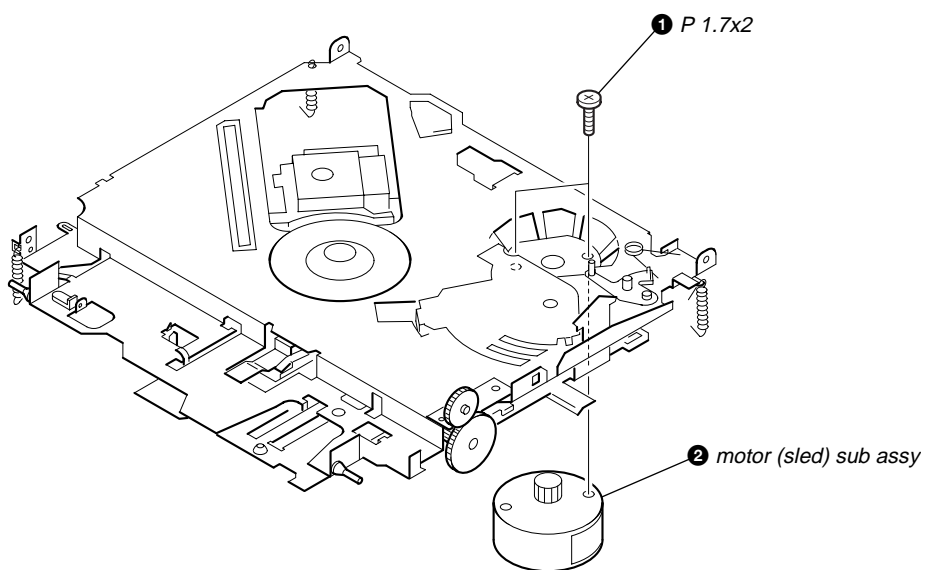
2-10. LEVER (CD ROLLER) SUB ASSY



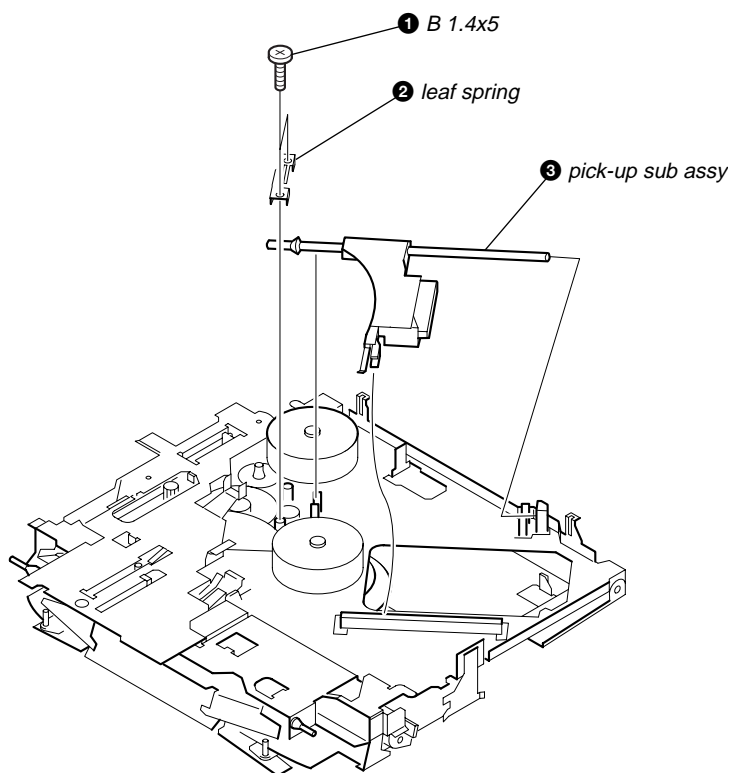
2-11. LEVER ASSY (CD HOLDER)



2-12. MOTOR (SLED) SUB ASSY



2-13. PICK-UP SUB ASSY



## SECTION 3 ELECTRICAL ADJUSTMENT

**RDS Adjustment (CDC-R30MP only)**

**Setting:** 98 MHz

31 dB $\mu$ V (EMF)

1 kHz (Modulation Frequency)

45 kHz DEV

**Check point:** S.METER test point

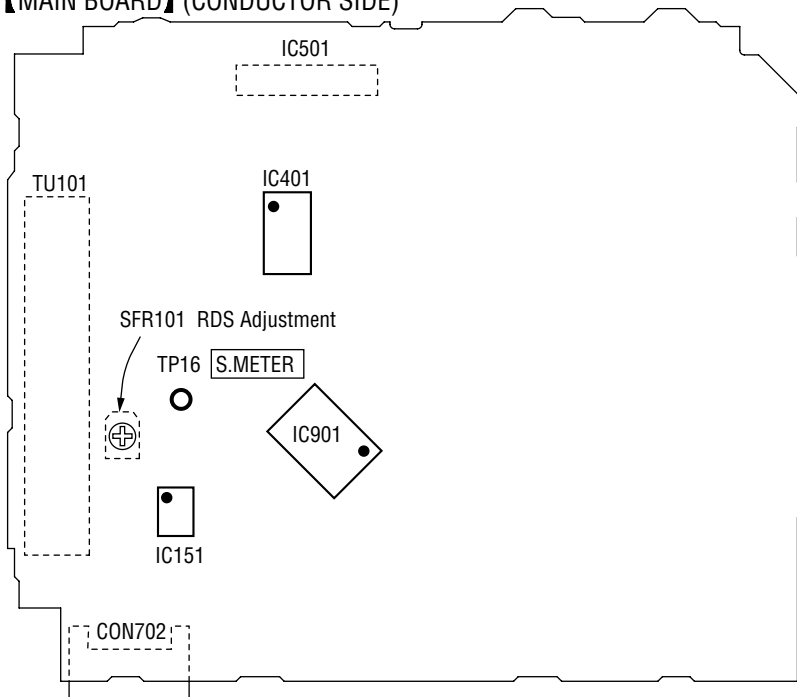
**Adjustment location:** SFR101

**Specification:** 2.0 $\pm$ 0.1 V

**Procedure:** Set to FM98.0 MHz and adjust SFR101 so that the test point is 2.0 $\pm$ 0.2 V.

**Adjustment Location:**

**【MAIN BOARD】 (CONDUCTOR SIDE)**



## SECTION 4 DIAGRAMS

### 4-1. IC PIN DESCRIPTIONS

• IC201  $\mu$ PD63760GJ-8EN (RF AMP, DSP, DEC) (SERVO BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	R GND	—	Ground pin for DRAM I/F
2	RST	I	Reset signal input from the mechanism control IC (IC301)
3 – 7	AB12 – AB8	I	Address bus signal input from the mechanism control IC (IC301)
8 – 15	AD7 – AD0	I/O	Address/data bus signal input from the mechanism control IC (IC301)
16	CS	I	Chip select signal input from the mechanism control IC (IC301)
17	ASTB	I	Address strob signal input from the mechanism control IC (IC301)
18	READ	I	Read control signal input from the mechanism control IC (IC301)
19	WRITE	I	Write control signal input from the mechanism control IC (IC301)
20	WAIT	O	Wait control signal output to the mechanism control IC (IC301)
21	INTQ	O	Interruption signal output to the mechanism control IC (IC301)
22	IFMODE	I	16 bit/8 bit data bus change signal output
23	D VDD	—	Power supply pin for digital circuit (+3 V)
24	XTALEN1	I	Oscillation permission pin (16.9344 MHz)
25	XTALEN2	I	Oscillation permission pin (24.576 MHz)
26	DA VDD	—	Power supply pin for DAC (+3 V)
27	ROUT	O	R channel audio signal output
28	DA GND	—	Ground pin for DAC
29	R+	O	R channel audio PDM signal output 1 Not used in this set. (Open)
30	R–	O	R channel audio PDM signal output 2 Not used in this set. (Open)
31	REGC	—	Capacitor connection pin for bandgap
32	L–	O	L channel audio PDM signal output 2 Not used in this set. (Open)
33	L+	O	L channel audio PDM signal output 1 Not used in this set. (Open)
34	DA GND	—	Ground pin for DAC
35	LOUT	O	L channel audio signal output
36	DA VDD	—	Power supply pin for DAC (+3 V)
37	XVDD	—	Power supply pin for crystal oscillator (+3 V)
38	XTAL1 I	I	Crystal oscillator connection pin (16.9344 MHz)
39	XTAL1 O	O	Crystal oscillator connection pin (16.9344 MHz)
40, 41	XGND	—	Ground pin for crystal oscillator
42	XTAL2 O	O	Crystal oscillator connection pin (24.576 MHz) Not used in this set. (Open)
43	XTAL2 I	I	Crystal oscillator connection pin (24.576 MHz) Not used in this set. (Open)
44	XVDD	—	Power supply pin for crystal oscillator (+3 V)
45	D GND	—	Ground pin for digital circuit
46	DIN	I	Audio data signal input
47	DOUT	O	Audio data signal output Not used in this set. (Open)
48	SCKIN	I	Clock signal input for audio data
49	SCKO	O	Clock signal output for audio data Not used in this set. (Open)
50	LRCKIN	I	LRCK signal input for audio data
51	LRCK	O	LRCK signal output for audio data Not used in this set. (Open)
52	TESTX	O	Test output Not used. (Open)
53	RFOK	O	RFOK signal output to the mechanism control IC (IC301)
54	C16M	O	16.9344 MHz output Not used in this set. (Open)
55	TESTEN	—	Connected to ground.
56	TEST4	—	Connected to ground.
57	VDD	—	Power supply pin 1 for digital circuit (+3 V)
58	RFCK/HOLD	O	RFCK signal output/HOLD signal output Not used in this set. (Open)
59	WFCK/MIRR	O	WFCK signal output/MIRR signal output Not used in this set. (Open)
60	PLCK	O	PLCK signal output Not used in this set. (Open)



Pin No.	Pin Name	I/O	Pin Description
61	LOCK	O	LOCK signal output to the mechanism control IC (IC301)
62	C1D1	O	Error correction information output Not used in this set. (Open)
63	C1D2	O	Error correction information output Not used in this set. (Open)
64	C2D1 (RMUTE)	O	Error correction information output (Mute signal output for R channel) (Open)
65	C2D2 (LMUTE)	O	Error correction information output (Mute signal output for L channel) (Open)
66	C2D3	O	Error correction information output Not used in this set. (Open)
67	GND	—	Ground pin 1 for digital circuit
68	RAS	O	DRAM RAS signal output to the DRAM IC (IC202)
69	CAS0	O	DRAM lower CAS signal output to the DRAM IC (IC202)
70	CAS1	O	DRAM upper CAS signal output to the DRAM IC (IC202)
71	WE	O	DRAM WE signal output to the DRAM IC (IC202)
72	OE	O	DRAM OE signal output to the DRAM IC (IC202)
73 – 88	RDB0 – RDB15	I/O	DRAM data 0 – 15 signal input/output
89	GND	—	Ground pin 1 for digital circuit
90 – 99	RA0 – RA9	O	DRAM address 0 – 9 signal output to the DRAM IC (IC202)
100	VDD	—	Power supply pin 2 for digital circuit
101 – 104	TEST0 – TEST3	I	Connected to ground.
105	FD	O	Focus drive PWM signal output to the motor drive IC (IC351)
106	TD	O	Tracking drive PWM signal output to the motor drive IC (IC351)
107	SD	O	Sled drive PWM signal output to the motor drive IC (IC351)
108	MD	O	Spindle drive PWM signal output to the motor drive IC (IC351)
109	A VDD	—	Power supply pin for analog
110	ATEST	O	Analog test pin
111	EFM	O	EFM signal output
112	ASY	I	Asymmetry signal input
113	C3T	—	Capacitor connection pin for 3T detection
114	A GND	—	Ground pin for analog
115	RFI	I	EFM comparator signal input
116	AGCO	O	AGC amplifier signal output
117	AGCI	I	AGC amplifier signal input
118	RFO	O	RF amplifier signal output
119	EQ2	—	Equalizer pin 2 Not used in this set. (Open)
120	EQ1	—	Equalizer pin 1
121	RF2–	I	RF2 inversion input Not used in this set. (Open)
122	RF–	I	RF inversion input
123	A GND	—	Ground pin for analog
124	A	I	RF A signal input
125	C	I	RF C signal input
126	B	I	RF B signal input
127	D	I	RF D signal input
128	F	I	RF F signal input
129	E	I	RF E signal input
130	AVDD	—	Power supply pin for analog
131	REFOUT	O	Reference voltage output
132	REFC	—	Capacitor connection pin for REFOUT output
133	FE–	I	Focus error inversion input
134	FEO	O	Focus error output
135	TE–	I	Tracking error inversion input

## CDC-R30MP/X30MP

Pin No.	Pin Name	I/O	Pin Description
136	TEO	O	Tracking error output
137	TE2	O	Tracking error 2 output Not used in this set. (Open)
138	TEC	I	TEC input
139	A GND	—	Ground pin for analog
140	LDREGO	O	REG voltage output for APC Not used in this set. (Open)
141	PD	I	PD signal input
142	LD	O	LD signal output
143	PN	I	Pick-up polarity designation signal input Connected to ground in this set.
144	A VDD	—	Power supply pin for analog

• IC301  $\mu$ PD703033BGC-019-8EU (MECHANISM CONTROL) (SERVO BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	NC	O	Not used in this set. (Open)
2	DRV CONT	O	Motor driver control signal output to the motor drive IC (IC351)
3	NC	I	Not used in this set. (Connected to ground.)
4	NC	O	Not used in this set. (Open)
5	POWER CONT	O	Power control signal output for DSP
6	EVDD	—	Power supply pin (+5 V)
7	EVSS	—	Ground pin
8	NC	O	Not used in this set. (Open)
9	$\overline{\text{POWER CONT}}$	O	Power control inversion signal output
10 – 17	NC	O	Not used in this set. (Open)
18	VPP	—	Write applied voltage pin
19 – 26	NC	O	Not used in this set. (Open)
27	WAIT	I	Wait control signal input
28 – 30	NC	O	Not used in this set. (Open)
31	RESET IN	I	Reset signal input
32	XT1	I	Oscillator connection pin for sub clock
33	XT2	—	Not used in this set. (Open)
34	REGC	—	Regulator stabilized output capacitance connection pin
35	X2	—	Oscillator connection pin for main clock
36	X1	I	Oscillator connection pin for main clock
37	VSS	—	Ground pin
38	VDD	—	Power supply pin (+5 V)
39	NC	O	Not used in this set. (Open)
40	WRITE	O	Write control signal output to the DSP IC (IC201)
41	NC	O	Not used in this set. (Open)
42	HR/WB	O	Not used in this set. (Open)
43	READ/HDESTB	O	Read control signal output to the DSP IC (IC201)
44	ASTB/HAST	O	Address strobe signal output to the DSP IC (IC201)
45	XTALEN2	O	Not used in this set. (Open)
46	XTALEN1	O	Not used in this set. (Connected to ground.)
47 – 54	AD0/HAD0 – AD7/HAD7	I/O	Address data bus signal input/output
55	BVDD	—	Power supply pin (+3.3 V)
56	BVSS	—	Ground pin
57 – 61	AD8/HAD8 – AD12/HAD12	O	Address data bus signal output
62	HAD13	O	Not used in this set. (Open)
63	HAD14	O	Not used in this set. (Connected to ground.)
64	HAD15	O	Not used in this set. (Connected to ground.)
65	CS	I	Chip select signal input
66	DAC MUTE	O	DAC mute control signal output Not used in this set.
67	RESET OUT	O	Reset signal output to the DSP IC (IC201)
68	RFOK	I	RFOK signal input from the DSP IC (IC201)
69	LOCK	I	LOCK signal input from the DSP IC (IC201)
70	NC	O	Not used in this set. (Open)
71	AVDD	—	Power supply pin (+5 V)
72	AVSS	—	Ground pin
73	AVREF	I	Not used in this set. (Connected to ground.)
74 – 85	NC	I	Not used in this set. (Connected to ground.)
86	SW3	I	Disc detection SW3 signal input
87	INTQ	I	Interruption signal input from the DSP IC (IC201)
88	SW1	I	Disc detection SW1 signal input
89	SW2	I	Disc detection SW2 signal input
90	READY	I	Ready signal input

## CDC-R30MP/X30MP

Pin No.	Pin Name	I/O	Pin Description
91	MS CS	I	MS chip select signal input
92	BATT IN	I	BATT signal input
93	LIMIT SW	I	LIMIT switch signal input (Inner track of pick-up)
94	DMSCD	I	DMSCD data signal input
95	DCDMS	O	DCDMS data signal output
96	CLK	I	Sync clock signal input
97	MS SRQ	O	MS serial request signal output
98	NC	O	Not used in this set. (Open)
99	EJECT MUTE	O	EJECT MUTE signal output
100	NC	O	Not used in this set. (Open)

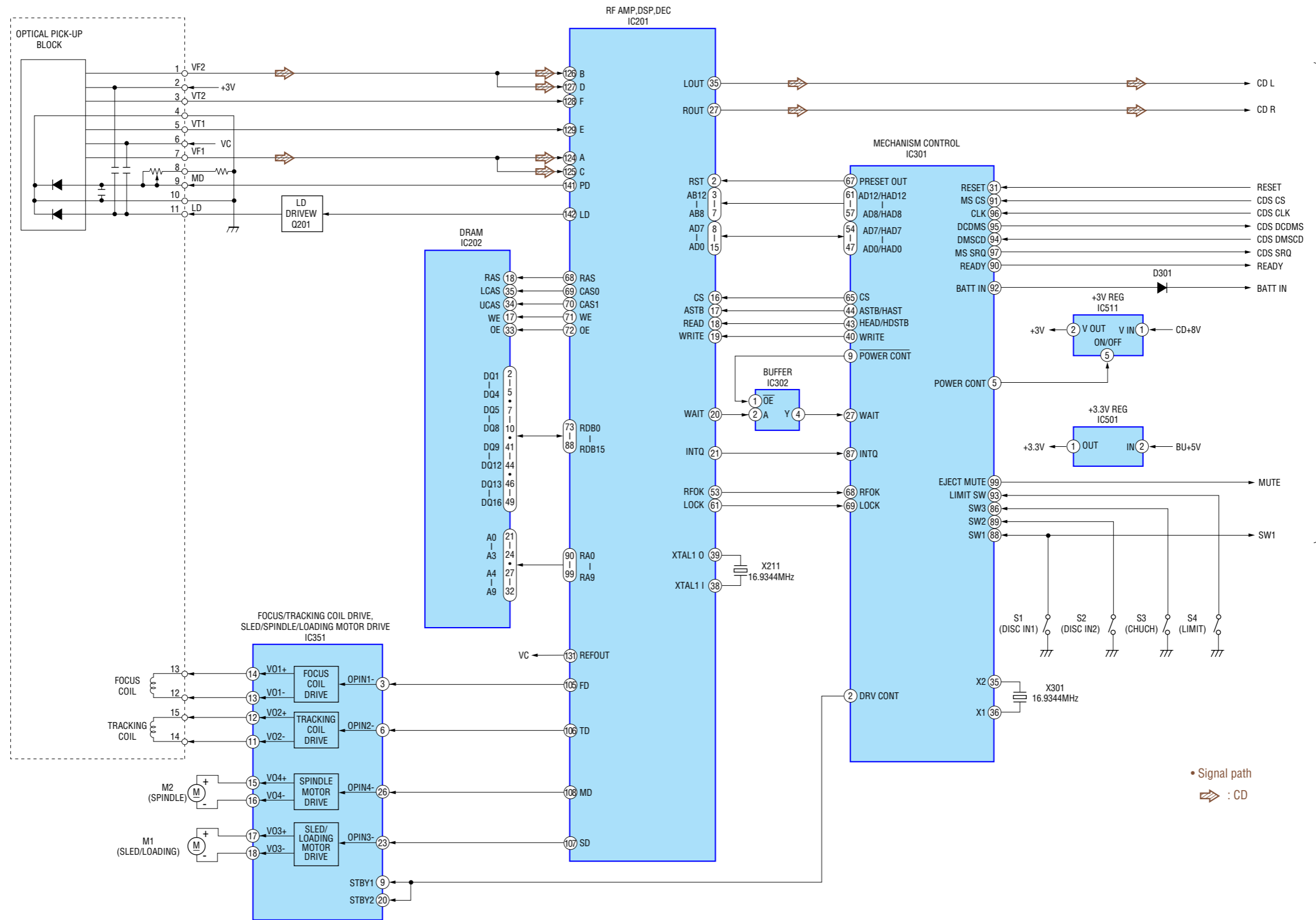
- IC901  $\mu$ PD178076GF-572-3BA (SYSTEM CONTROL) (MAIN BOARD) (CDC-X30MP)
- IC901  $\mu$ PD178078GF-590-3BA (SYSTEM CONTROL) (MAIN BOARD) (CDC-R30MP)

Pin No.	Pin Name	I/O	Pin Description
1	BATT IN	I	BATT signal input
2	DFP IN	I	Front panel with/without detection signal input
3	LCD DI	I	LCD data signal input from the LCD driver IC (IC601)
4	LCD DO	O	LCD data signal output to the LCD driver IC (IC601)
5	LCD CLO	O	LCD sync clock signal output to the LCD driver IC (IC601)
6	LCD CE	O	LCD driver CE signal output to the LCD driver IC (IC601)
7	BBE1	O	BBE on/off change signal output to the electronic volume IC (IC401)
8	CDS DI	I	CDS data signal input from the mechanism control IC (IC301)
9	CDS DO	O	CDS data signal output to the mechanism control IC (IC301)
10	CDS CLO	O	CDS sync clock signal output from mechanism control IC (IC301)
11 – 15	NC	O	Not used in this set. (Open)
16	BBE2	O	BBE effect change signal output
17	NC	O	Not used in this set. (Open)
18	EVOL CLO	O	Clock signal output to the electronic volume IC (IC401)
19	EVOL DO	O	Data signal output to the electronic volume IC (IC401)
20	EVOL CE	O	CE signal output to the electronic volume IC (IC401)
21	LOC/DX	O	LOC/DX change signal output when radio seek to the tuner unit (TU101)
22	DSSA CONT	O	DSSA control signal output DSSA L/R operation: “H”
23	ACC DETECTOR	I	Power overvoltage detection signal input
24	PHONE MUTE	I	Mute control signal input from external
25	LEVELIND	I	Voltage detection signal input for level indicator
26	TEST	—	CDS test mode pin “L”: Test mode
27	AVDD	—	Power supply pin (+5 V)
28 – 30	NC	I	Not used in this set. (Connected to ground.)
31	FM/AM S METER	I	CDC-R30MP: RDS AF signal input CDC-X30MP: FM/AM S meter signal input
32	AVSS	—	Ground pin
33	REGCPU	—	Regulator pin for CPU power supply
34	VDD	—	Power supply pin (+5 V)
35	REGOSC	—	Regulator pin for oscillation circuit
36	X2	—	System clock oscillation connection pin (6.3 MHz)
37	X1	—	System clock oscillation connection pin (6.3 MHz)
38	GND	—	Ground pin
39	IF REQ	O	IF count request signal output from the tuner unit (TU101)
40	GND	—	Ground pin
41	AM IF	I	AM IF count signal input from the tuner unit (TU101)
42	FM IF	I	FM IF count signal input
43	VDD PLL	—	Power supply pin for PLL (+5 V)
44	FM OSC	I	FM local oscillator signal input from the tuner unit (TU101)
45	AM OSC	I	AM local oscillator signal input from the tuner unit (TU101)
46	GND PLL	—	Ground pin for PLL
47, 48	EO 0, EO 1	O	Error out signal output from the charge pump
49	IC	—	Not used in this set. (Connected to ground.)
50	RESET	I	System reset signal input from the SW901
51	RDS CLK IN	I	CDC-R30MP: RDS clock signal input from the RDS IC (IC151) CDC-X30MP: Not used in this set. (Connected to ground.)
52	ACC IN	I	Accessory on/off detection signal input
53	RMT IN	I	Remote control signal input from the remote control receiver IC (IC681)
54	ST IND/SD IN	I	Stereo signal input when FM/AM receive “H”: Mono, “L”: Stereo Broadcasting station signal input when seek “H”: LOC, “L”: DX
55	NC	—	Not used in this set. (Open)

## CDC-R30MP/X30MP

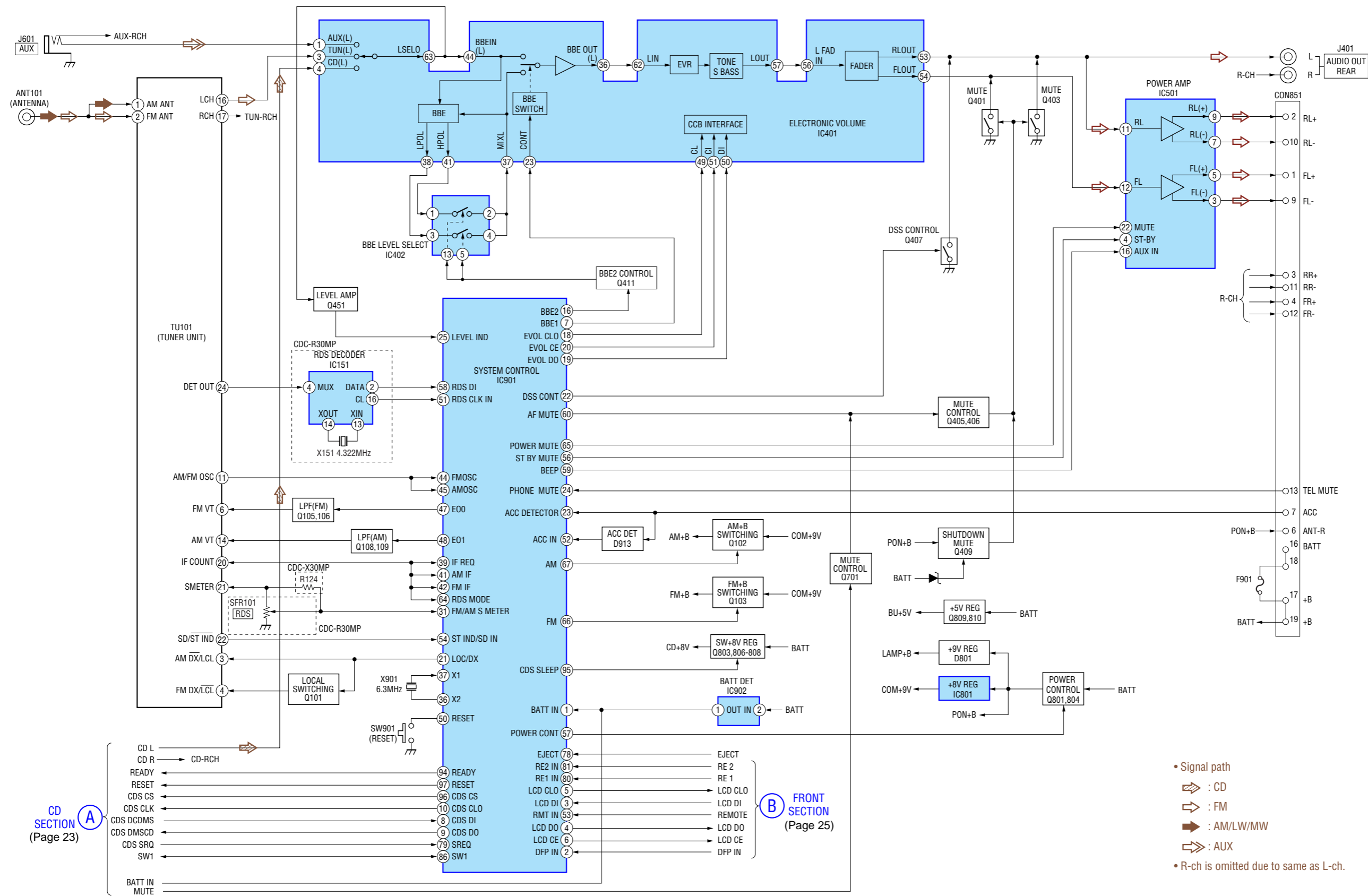
Pin No.	Pin Name	I/O	Pin Description
56	ST-BY MUTE	O	Standby mute signal output to the power amp IC (IC501)
57	POWER CONT	O	Power control signal output
58	RDS DI	I	CDC-R30MP: RDS data signal input from the RDS IC (IC151) CDC-X30MP: Not used in this set. (Connected to ground.)
59	BEEP	O	Beep signal output to the power amp IC (IC501)
60	AF MUTE	O	Audio mute control signal output
61 – 63	NC	O	Not used in this set. (Open)
64	RDS MODE	O	CDC-R30MP: RDS mode signal output “H”: RDS AF operation CDC-X30MP: Not used in this set.
65	POWER MUTE	O	Power mute control signal output to the power amp IC (IC501)
66	FM	O	FM band change signal output
67	AM	O	AM band change signal output
68 – 70	NC	O	Not used in this set. (Open)
71, 72	MI 1, MI 2	I	Diode matrix signal input for initial setting
73	TEST MODE	I	Test mode pin for CD mechanism durability “L”: Normal mode
74 – 77	MO 1 – MO 4	O	Diode matrix signal output for initial setting
78	EJECT	I	Disc eject interrupt port signal input
79	S REQ	I	CDS S-REQ signal input
80	RE1 IN	I	Rotary encoder signal input 1
81	RE2 IN	I	Rotary encoder signal input 2
82	GND	—	Ground pin
83 – 85	NC	O	Not used in this set. (Open)
86	SW1	I	Disc detection SW1 signal input
87	NC (SW2)	I	Not used in this set. (Open) Disc detection SW2 signal input
88	NC (SW3)	I	Not used in this set. (Open) Disc detection SW3 signal input
89 – 93	NC	O	Not used in this set. (Open)
94	READY	O	Ready signal output to the mechanism control IC (IC301)
95	CDS SLEEP	O	CDS sleep signal output to the mechanism control IC (IC301)
96	CDS CS	O	CDS CS signal output to the mechanism control IC (IC301)
97	RESET	O	Reset signal output to the mechanism control IC (IC301)
98	RADIO CONT	O	Not used in this set. (Open)
99	VDDPORT	—	Power supply pin (+5 V)
100	GND	—	Ground pin

4-2. BLOCK DIAGRAM — CD SECTION —



A MAIN SECTION (Page 24)

4-3. BLOCK DIAGRAM — MAIN SECTION —







4-6. PRINTED WIRING BOARDS — CD MECHANISM SECTION — • Refer to page 25 for Circuit Boards Location.

14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

【SERVO BOARD】(SIDE B)

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

**for schematic diagram:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{pF}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
- % : indicates tolerance.
- $\Delta$  : internal component.
- $\square$  : panel designation.

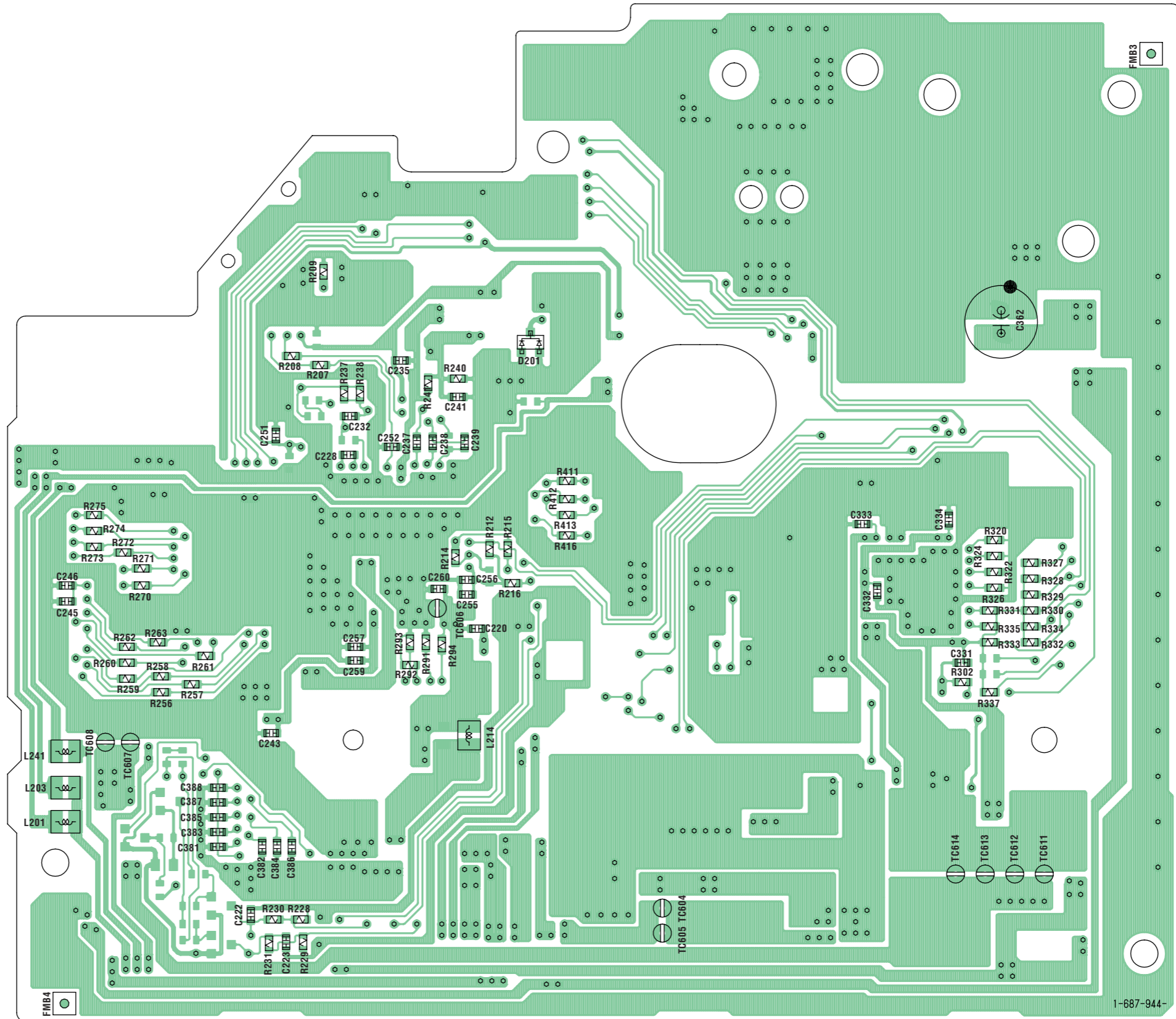
**Note:** The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

- — : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - $\rightarrow$  : FM
  - $\rightarrow$  : AM/MW/LW
  - $\rightarrow$  : CD

**for printed wiring boards:**

- $\circ$  : parts extracted from the component side.
- $\square$  : parts extracted from the conductor side.
- $\blacksquare$  : parts mounted on the conductor side.
- $\circ$  : Through hole.
- $\square$  : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

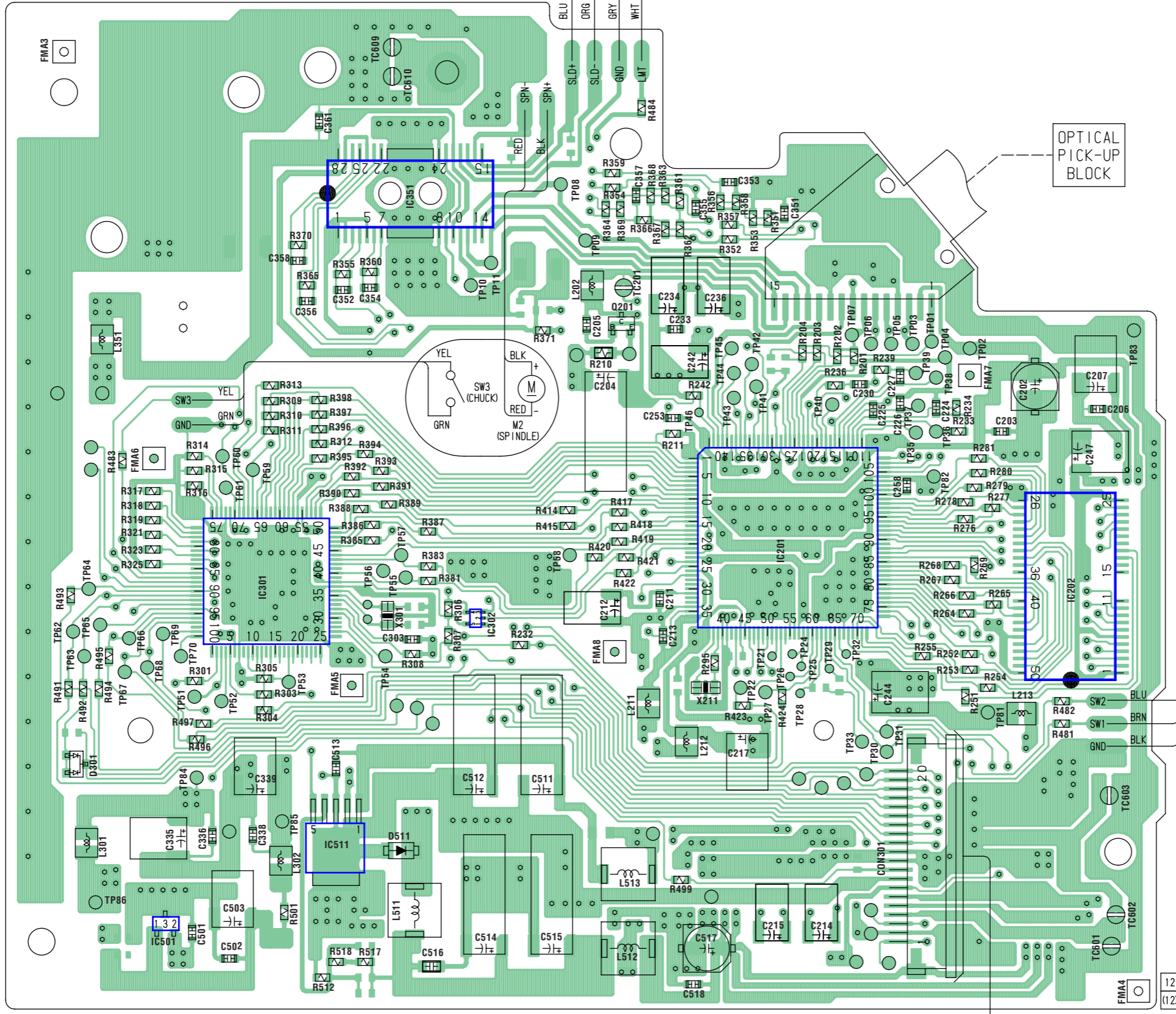
**Caution:**  
Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.  
Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.



1 2 3 4 5 6 7 8 9 10 11 12 13

A  
B  
C  
D  
E  
F  
G  
H  
I  
J

【SERVO BOARD】(SIDE A)

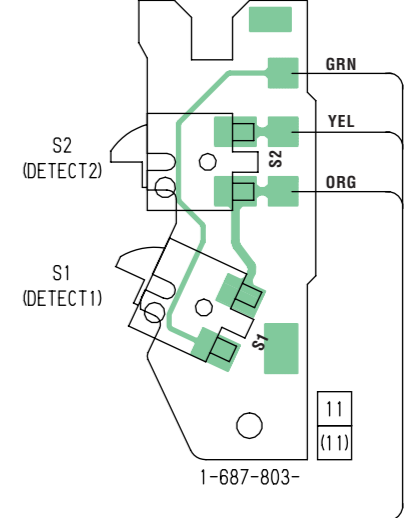


• Semiconductor Location

Ref. No.	Location
(D201)	D-7
D301	H-2
D511	I-5
IC201	F-8
IC202	F-11
IC301	F-4
IC302	G-6
IC351	C-5
IC501	I-3
IC511	I-4
Q201	D-7

( ) : SIDE B

【SUB BOARD】

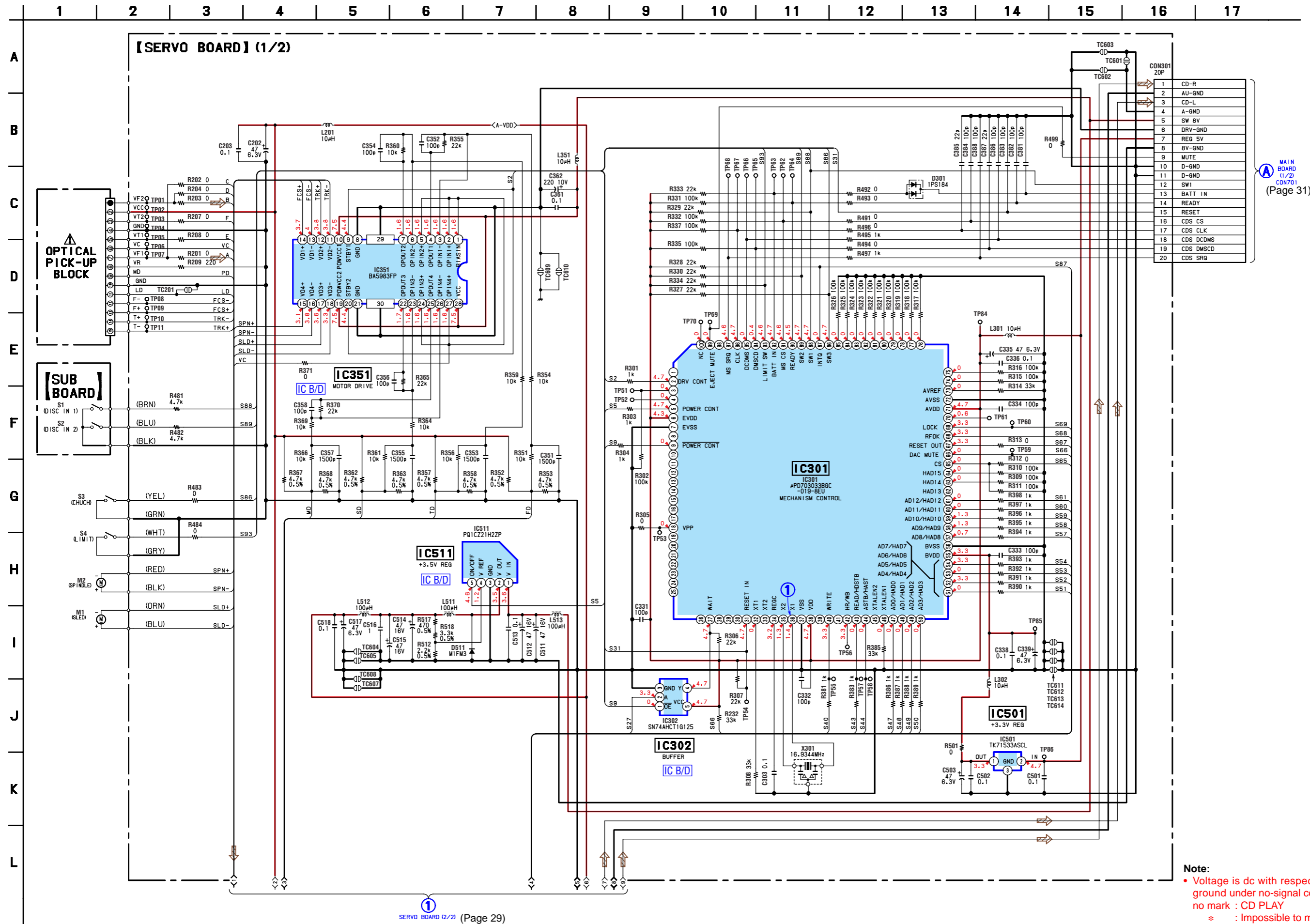


MAIN BOARD (Page 30)  
CON701

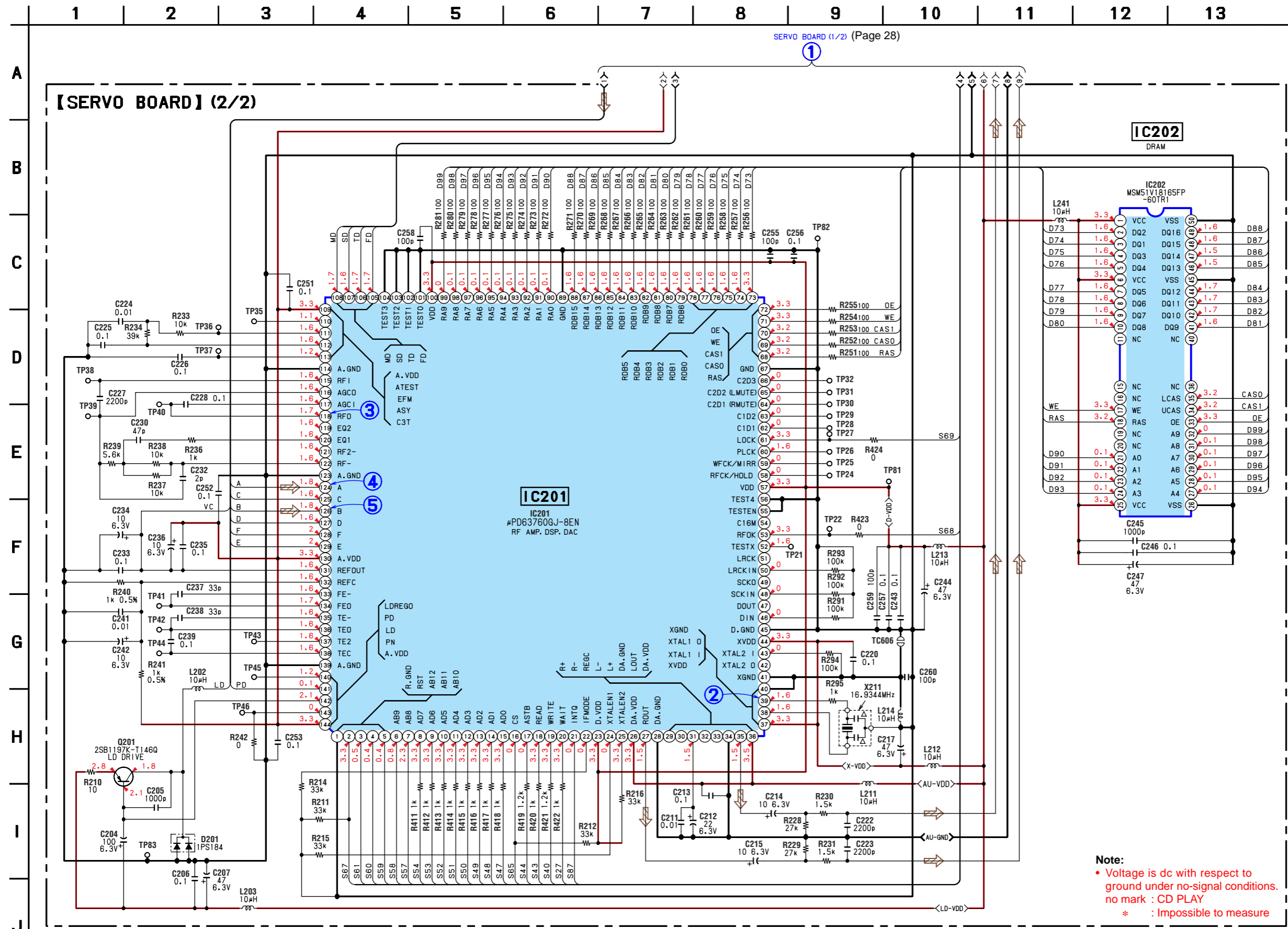
1-687-944-

• Refer to page 25 for Waveform.

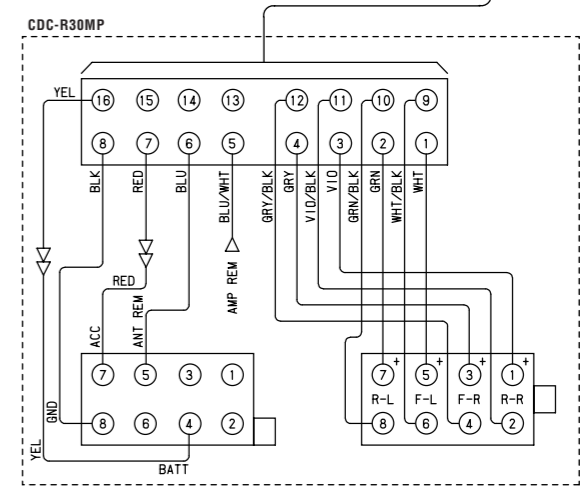
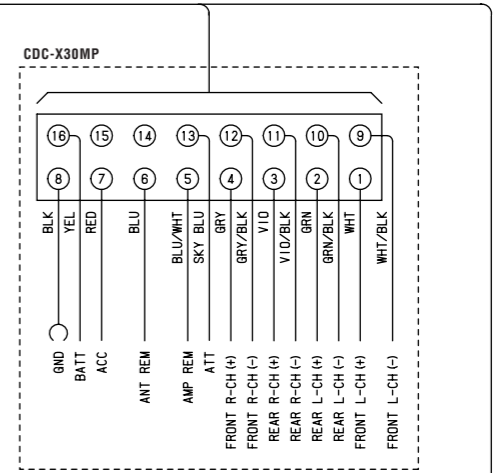
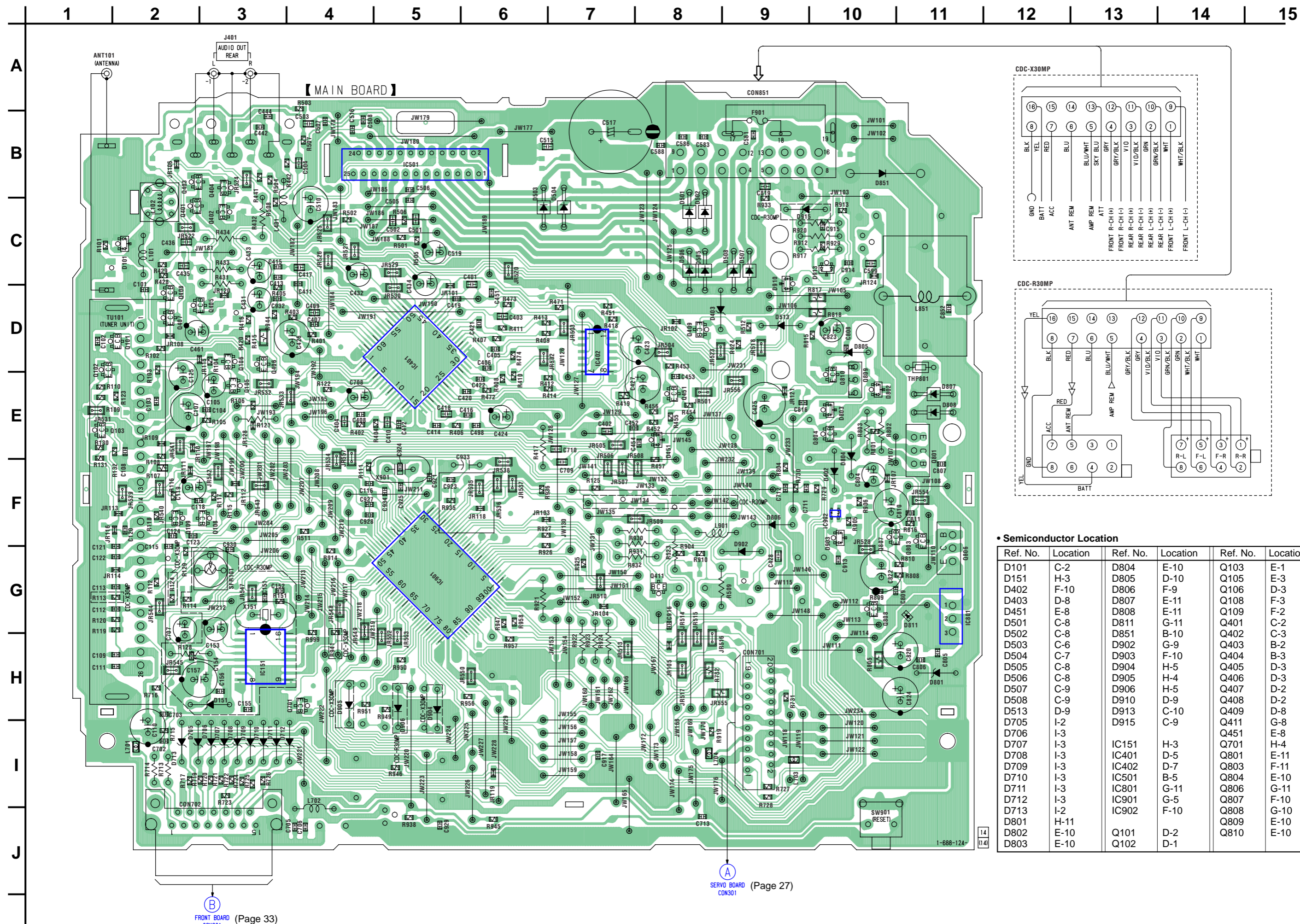
4-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) — • Refer to page 35 for IC Block Diagrams.



4-8. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (2/2) — • Refer to page 25 for Waveforms.



4-9. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 25 for Circuit Boards Location.



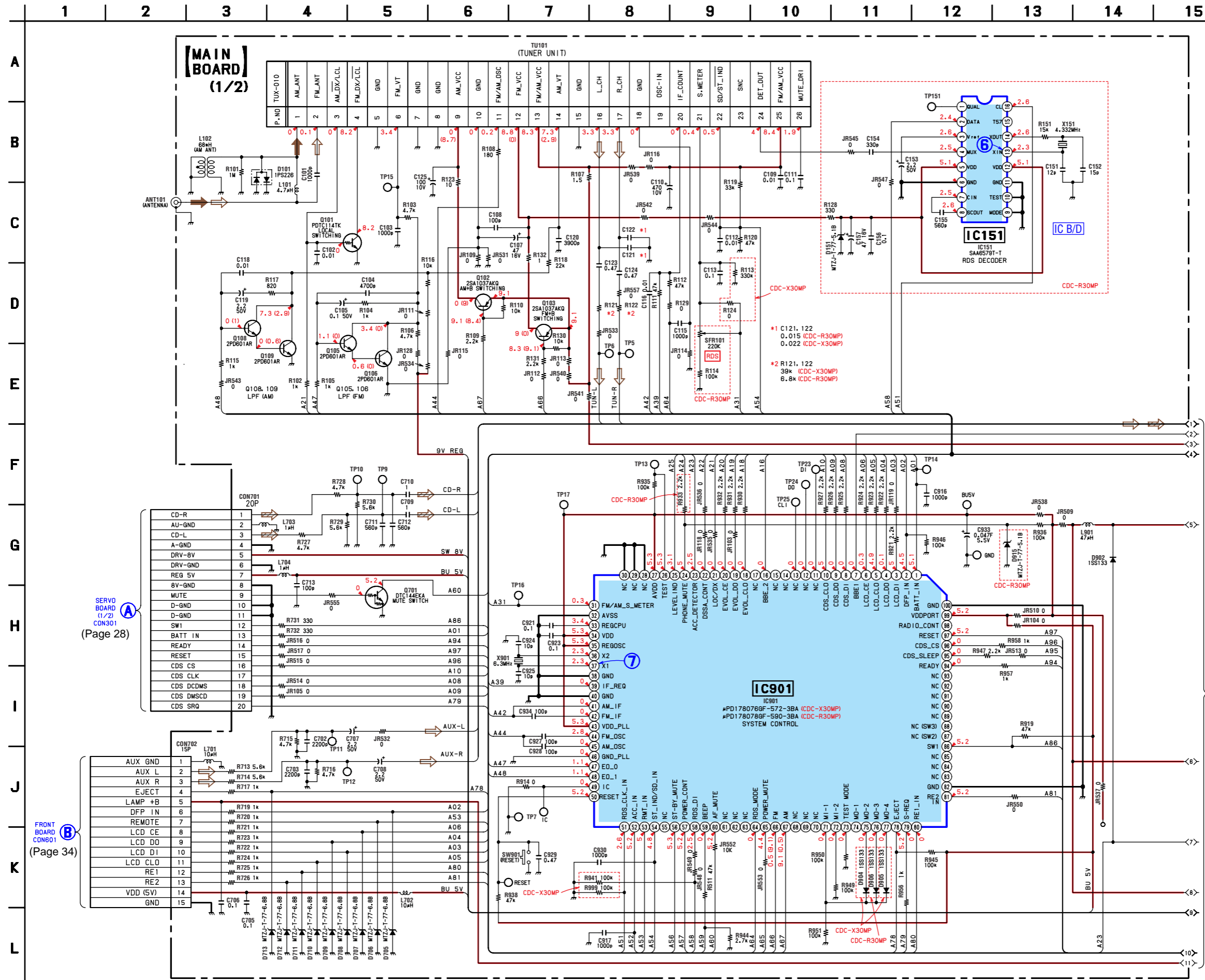
**• Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	C-2	D804	E-10	Q103	E-1
D151	H-3	D805	D-10	Q105	E-3
D402	F-10	D806	F-9	Q106	D-3
D403	D-8	D807	E-11	Q108	F-3
D451	E-8	D808	E-11	Q109	F-2
D501	C-8	D811	G-11	Q401	C-2
D502	C-8	D851	B-10	Q402	C-3
D503	C-6	D902	G-9	Q403	B-2
D504	C-7	D903	F-10	Q404	B-3
D505	C-8	D904	H-5	Q405	D-3
D506	C-8	D905	H-4	Q406	D-3
D507	C-9	D906	H-5	Q407	D-2
D508	C-9	D910	D-9	Q408	D-2
D513	D-9	D913	C-10	Q409	D-8
D705	I-2	D915	C-9	Q411	G-8
D706	I-3			Q451	E-8
D707	I-3	IC151	H-3	Q701	H-4
D708	I-3	IC401	D-5	Q801	E-11
D709	I-3	IC402	D-7	Q803	F-11
D710	I-3	IC501	B-5	Q804	E-10
D711	I-3	IC801	G-11	Q806	G-11
D712	I-3	IC901	G-5	Q807	F-10
D713	I-2	IC902	F-10	Q808	G-10
D801	H-11			Q809	E-10
D802	E-10	Q101	D-2	Q810	E-10
D803	E-10	Q102	D-1		

FRONT BOARD CON601 (Page 33)

SERVO BOARD CON301 (Page 27)

4-10. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — Refer to page 25 for Waveforms. Refer to page 35 for IC Block Diagram.



Note:

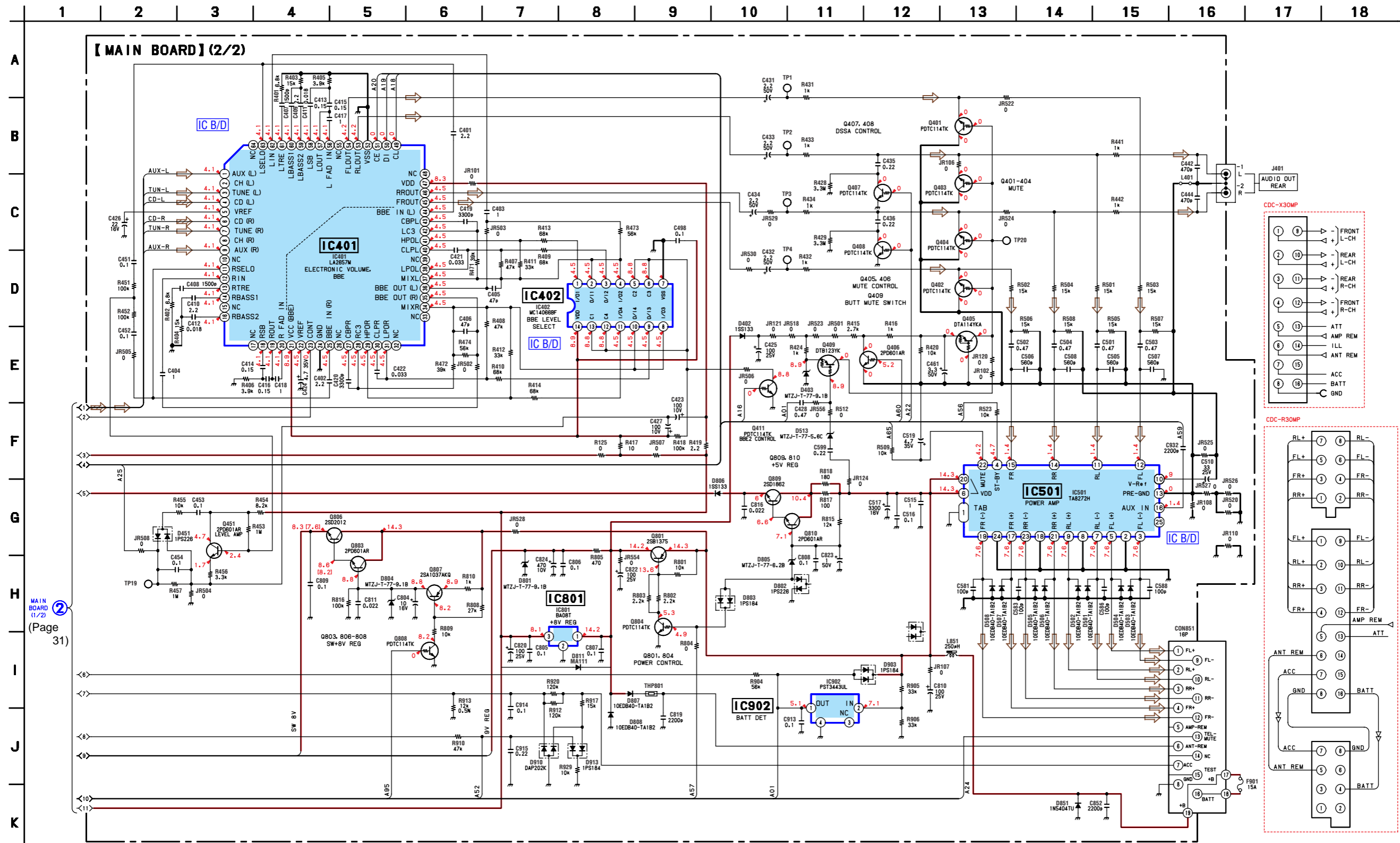
- Voltage is dc with respect to ground under no-signal conditions.
- no mark : FM
- ( ) : AM/MW/LW
- < > : CD PLAY
- \* : Impossible to measure

SERVO BOARD (1/2) CON301 (Page 28)

FRONT BOARD CON601 (Page 34)

MAIN BOARD (2/2) (Page 32)

4-11. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 36 for IC Block Diagrams.

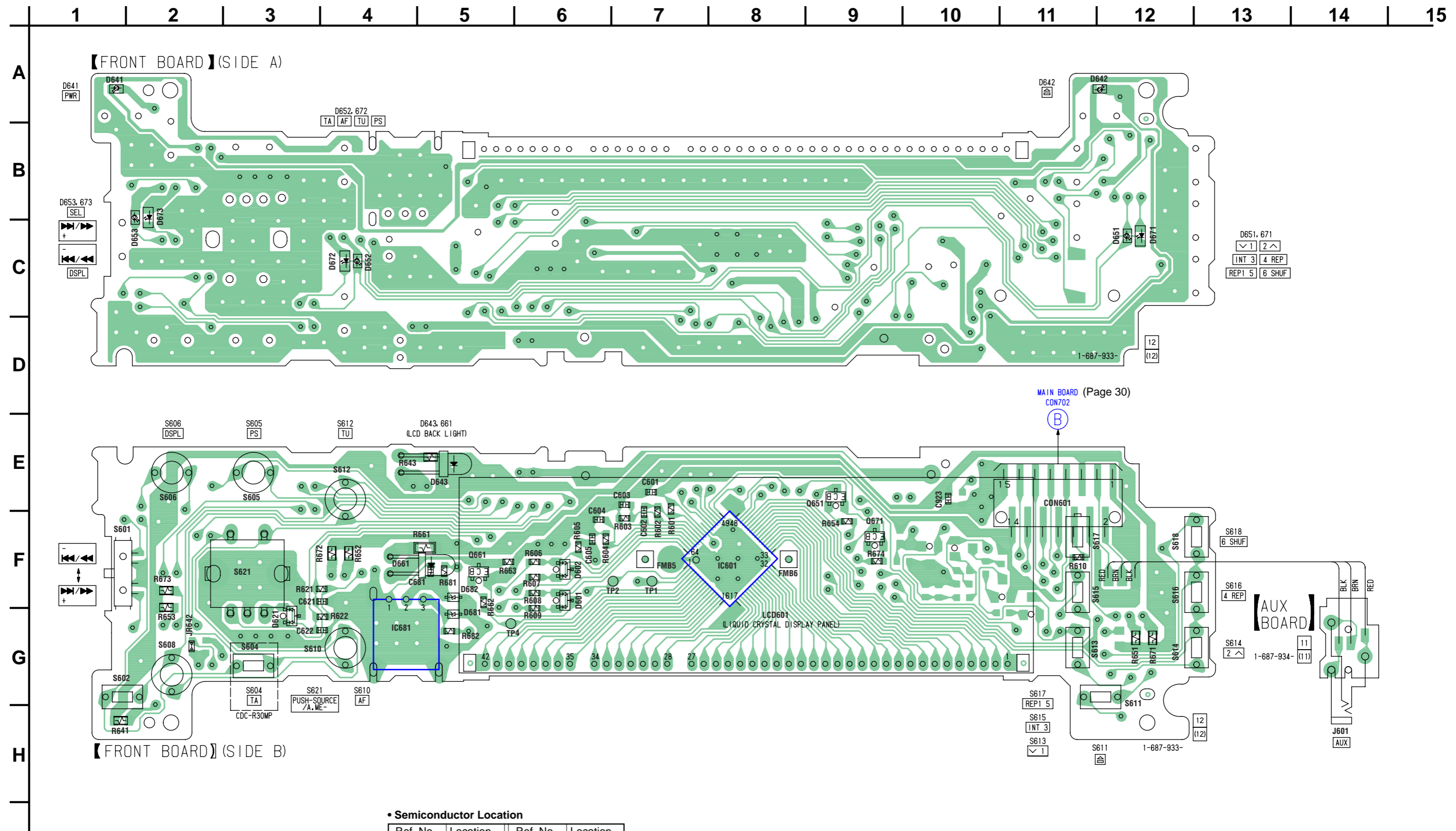


MAIN BOARD (1/2) (Page 31)

**Note:**  
 • Voltage is dc with respect to ground under no-signal conditions.  
 no mark : FM  
 ( ) : AM/MW/LW  
 < > : CD PLAY  
 \* : Impossible to measure



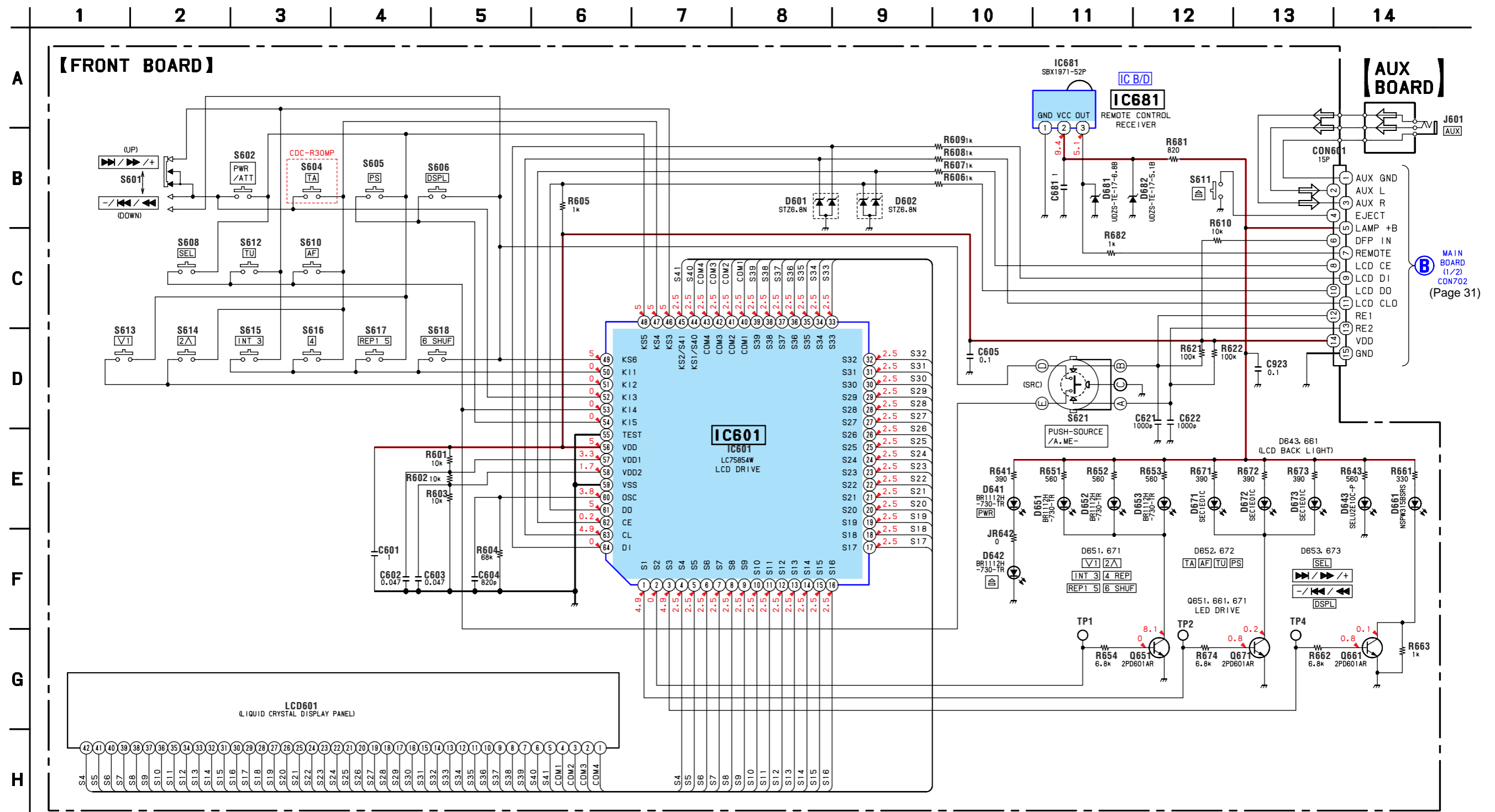
4-12. PRINTED WIRING BOARDS — FRONT SECTION — • Refer to page 25 for Circuit Boards Location.



**• Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D601	F-6	D673	B-2
D602	F-6	D681	G-5
D641	A-1	D682	F-5
D642	A-12	IC601	F-8
D643	E-5	IC681	G-4
D651	C-12	Q651	E-9
D652	C-4	Q661	F-5
D653	C-2	Q671	F-9
D661	F-4		
D671	C-12		
D672	C-4		

4-13. SCHEMATIC DIAGRAM — FRONT SECTION — • Refer to page 37 for IC Block Diagram.

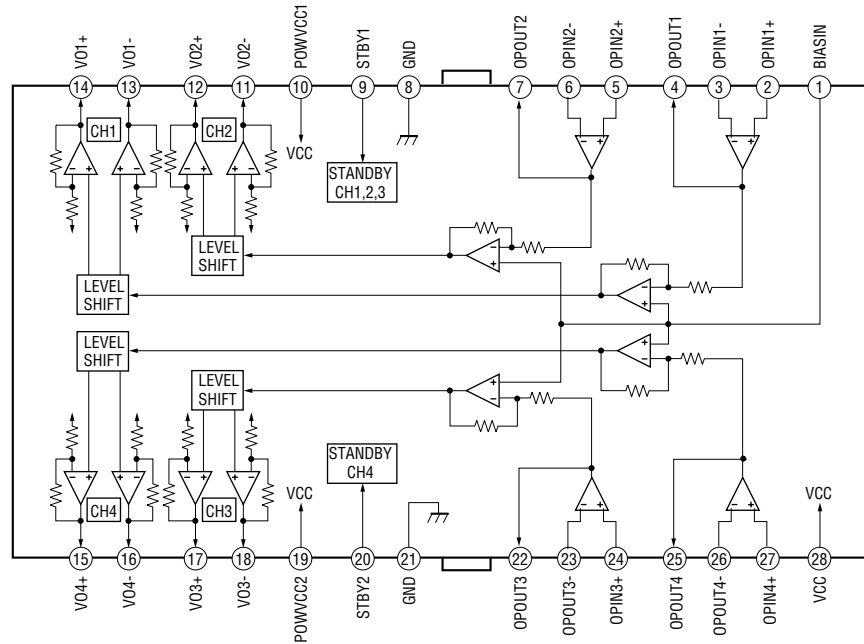


**Note:**

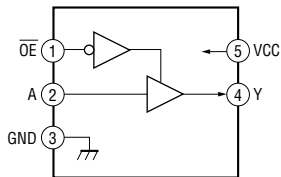
- Voltage is dc with respect to ground under no-signal conditions.
- no mark : FM
- \* : Impossible to measure

4-14. IC BLOCK DIAGRAMS

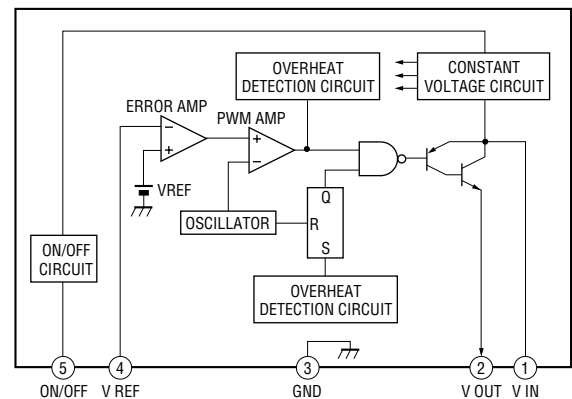
IC351 BA5983FP (SERVO Board)



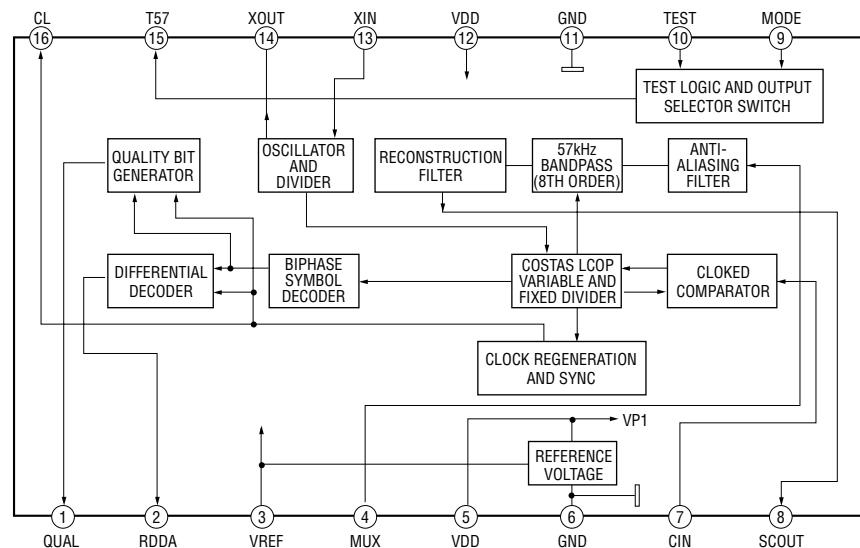
IC302 SN74AHCT (SERVO Board)



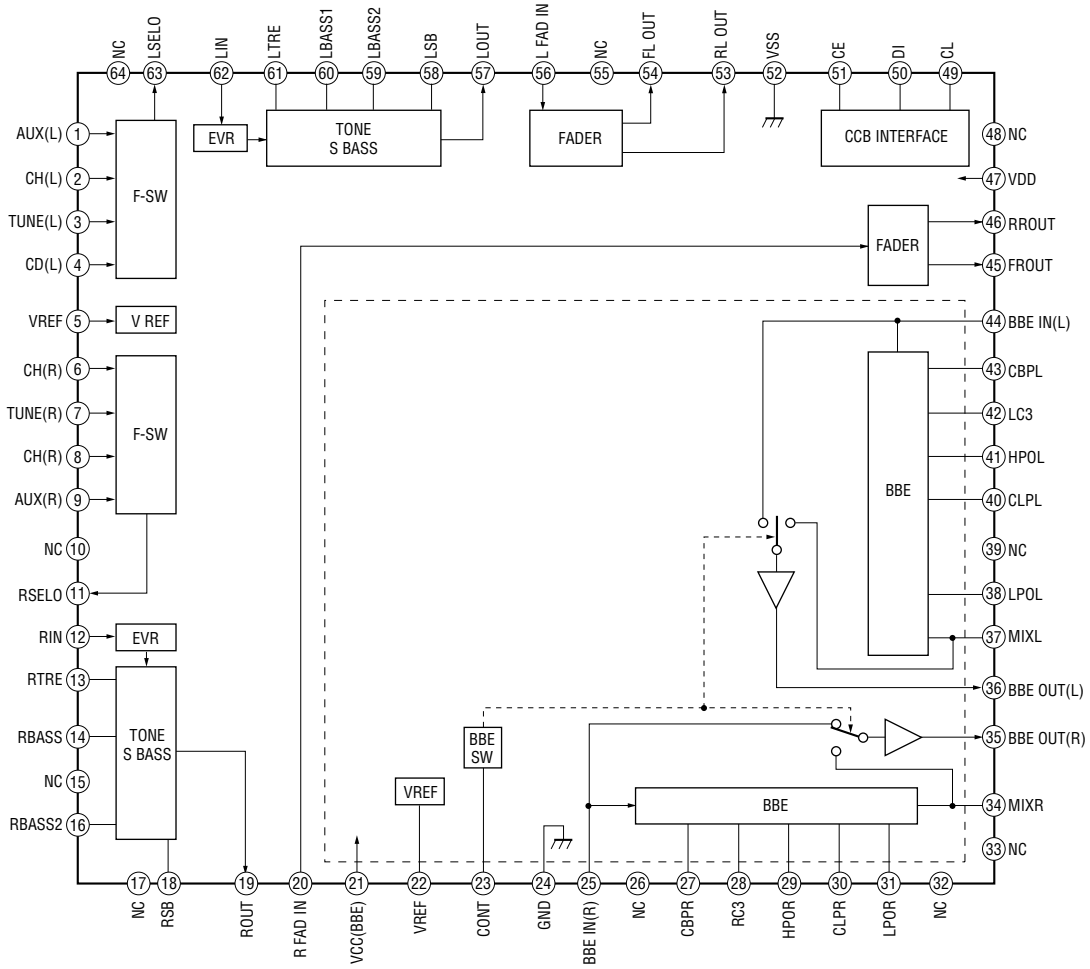
IC511 PQ1CZ21H2ZP (SERVO Board)



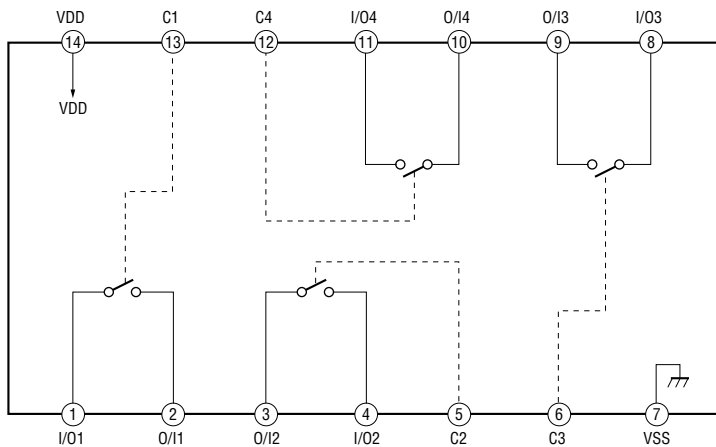
IC151 SAA6579T-T (MAIN Board)



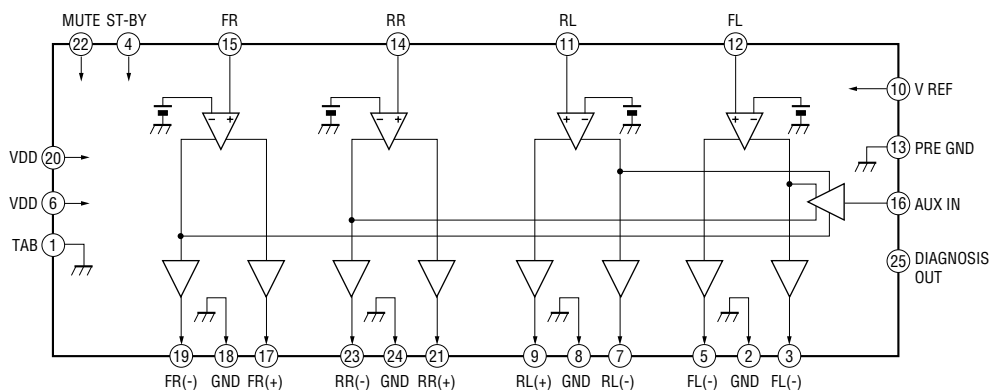
**IC401 LA2657M (MAIN Board)**



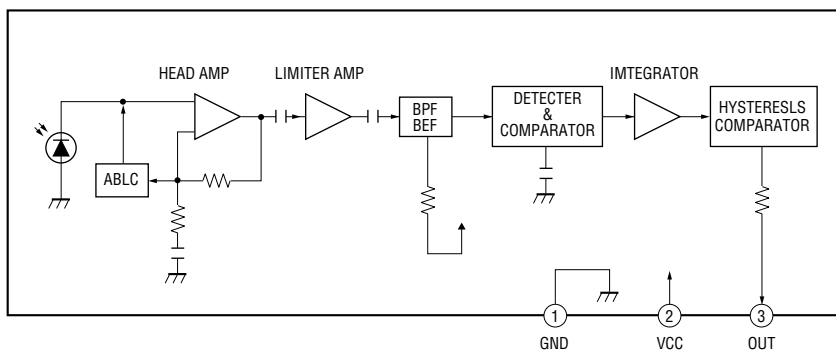
**IC402 BU4066BCF (MAIN Board)**



**IC501 TA8272H (MAIN Board)**

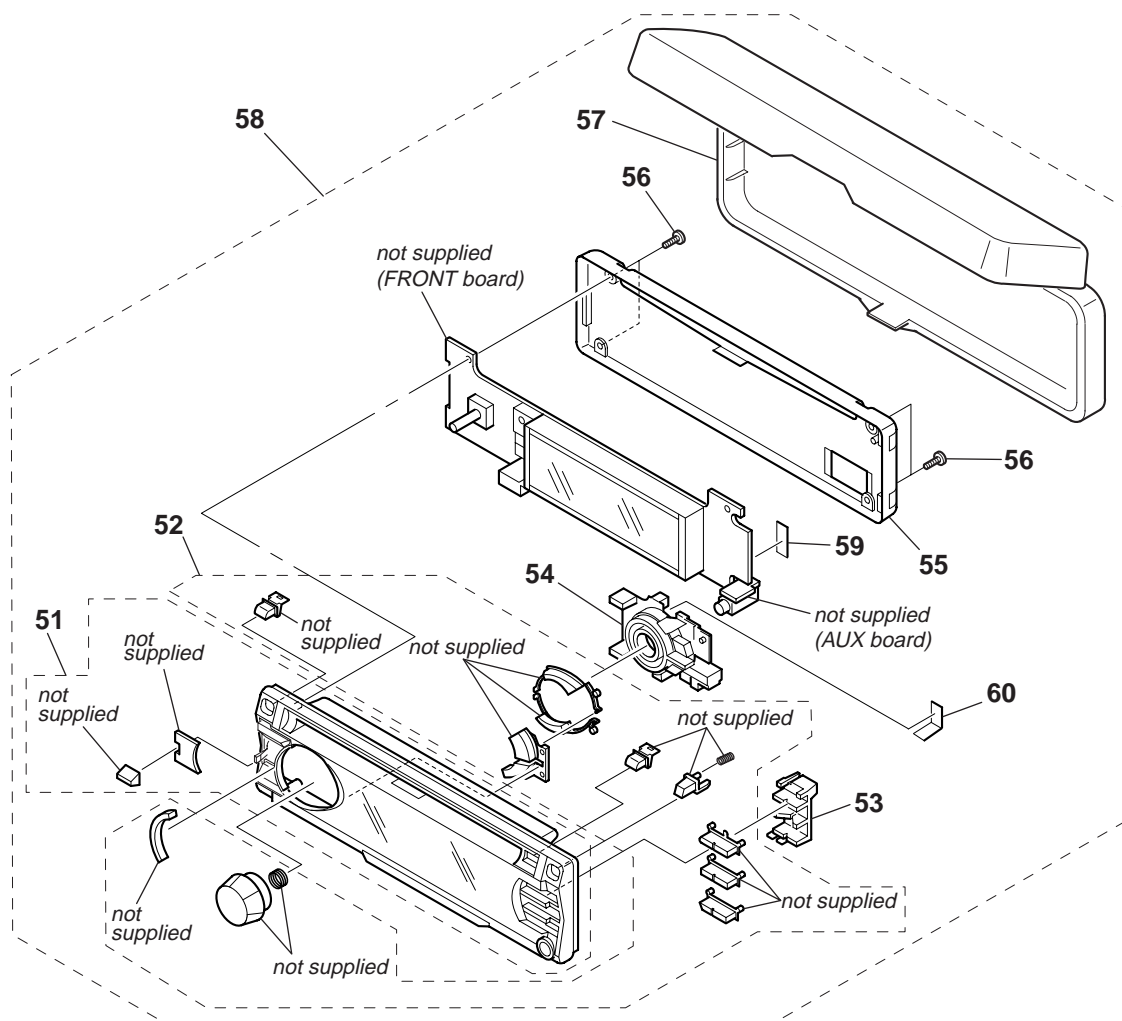


**IC681 SBX1971-52P (FRONT Board)**



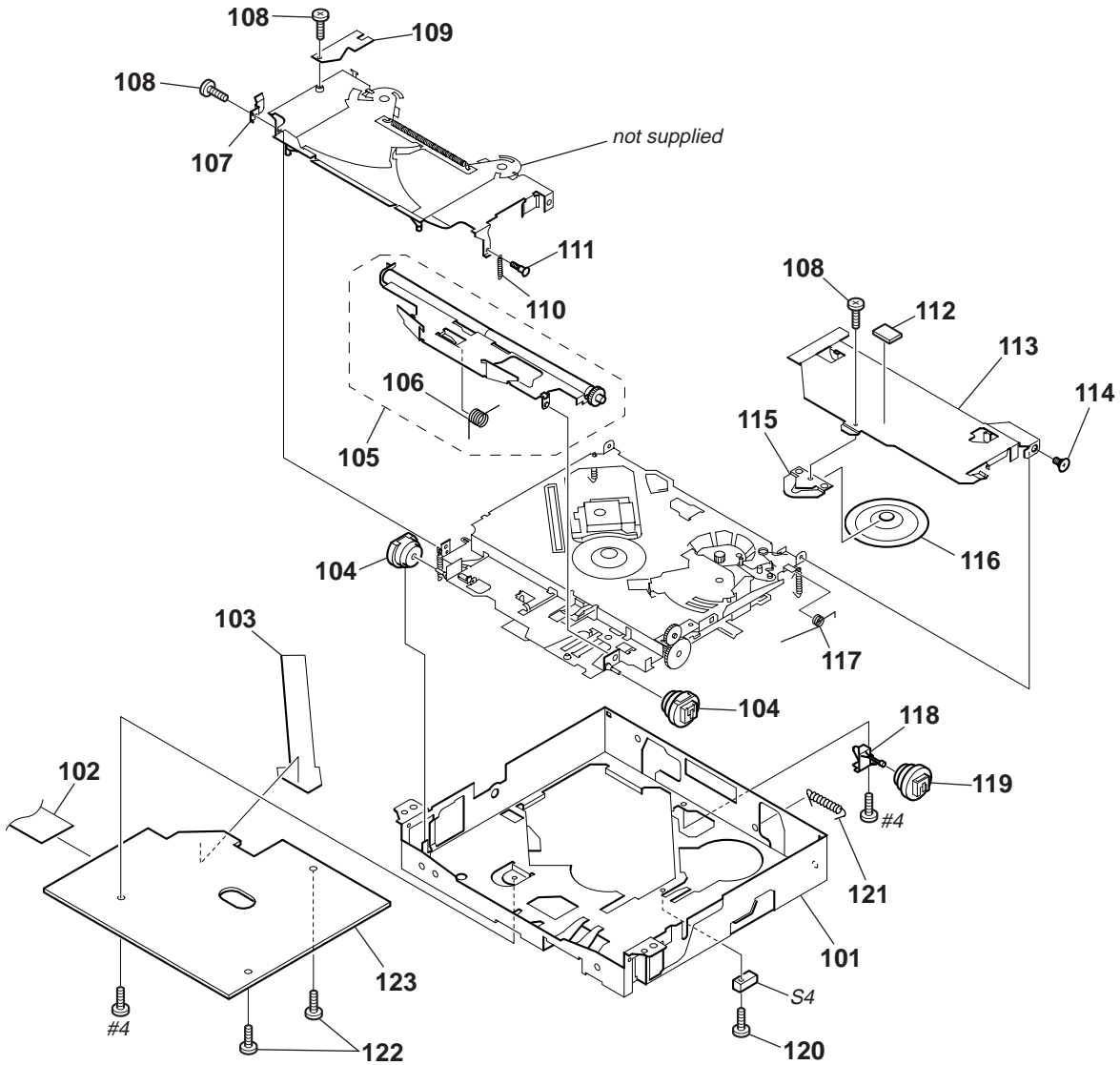


5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3383-823-1	PANEL (SVX) ASSY (X30MP)		56	3-250-543-01	SCREW (+PTP 2X8)	
51	X-3383-825-1	PANEL (SVX) ASSY (R30MP)		57	X-3383-157-1	CASE ASSY (for FRONT PANEL)	
52	X-3383-824-1	BUTTON (SVX) ASSY (X30MP)		58	A-3337-548-A	PANEL ASSY, CASE (R30MP)	
52	X-3383-826-1	BUTTON (SVX) ASSY (R30MP)		58	A-3337-555-A	PANEL ASSY, CASE (X30MP)	
53	3-249-410-01	LENS (PRESET)		59	3-229-100-01	SHEET (SW), ADHESIVE	
54	3-249-411-01	LENS (RTRY)		60	3-254-902-01	SHEET (LENS RTRY)	
55	3-249-389-01	CABINET (REAR)					

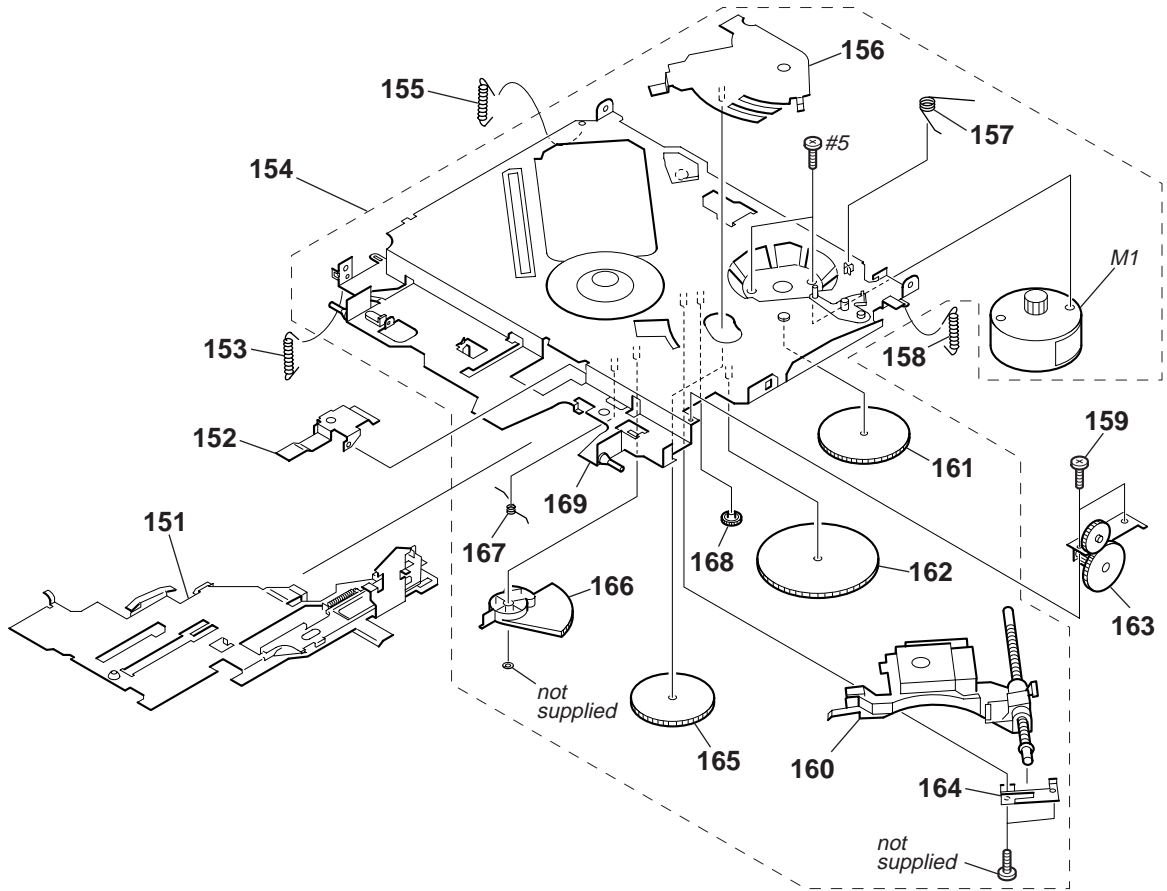
5-3. CD MECHANISM SECTION (1)  
(MG-930M-185)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-3383-095-1	CHASSIS ASSY, HOLDER CNF		114	3-250-987-01	SCREW (CD HLDR), SPECIAL	
102	1-687-801-11	FF-CABLE BOARD		115	3-251-005-01	SPRING (CLAMP), LEAF	
103	1-687-802-11	PIC2 FLEXIBLE BOARD		116	3-251-004-01	CLAMP (BZG-3)	
104	3-250-985-01	DAMPER (BZG-3), OIL		117	3-250-994-01	SPRING (CLAMP), TORSION	
105	A-3337-432-A	LEVER (CD ROLLER) SUB ASSY		118	3-250-952-01	HOLDER (FLOAT REAR)	
106	3-250-996-01	SPRING (ROLLER), TORSION		119	3-250-988-01	DAMPER (BZG-3R), OIL	
107	3-251-001-02	SPRING (ROLLER), LEAF		120	3-250-899-01	SCREW +2X6 (SLOT)	
108	3-251-482-02	SCREW +P 1.4X2 NON-SLIT TYPE2		121	3-251-050-01	SPRING (FLOAT RC), TENSION	
109	A-3274-733-A	SUB BOARD, COMPLETE		122	3-251-487-11	SCREW (M1.7X4), GROUND POINT	
110	3-251-016-01	SPRING (FLOAT FR2), TENSION		123	A-3274-796-A	SERVO BOARD, COMPLETE	
111	3-251-002-01	SCREW (CD UP HLDR), SPECIAL		S4	1-762-952-11	SWITCH, PUSH (1 KEY) (LIMIT)	
112	3-250-990-01	SHEET (CLAMP)		#4	7-685-780-01	SCREW +PTT 2X3 (S)	
113	3-250-943-02	LEVER (CD HOLDER)					



5-4. CD MECHANISM SECTION (2)  
(MG-930M-185)



<p>The components identified by mark <math>\triangle</math> or dotted line with mark <math>\triangle</math> are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque <math>\triangle</math> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
---	--

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-3337-431-A	LEVER (DIRECTION) SUB ASSY		162	3-250-963-01	GEAR (IDL DIR)	
152	3-250-936-01	LEVER (DIR DOWN)		163	X-3383-088-1	LEVER ASSY, GEAR HOLDER	
153	3-251-017-01	SPRING (FLOAT FL2), TENSION		164	3-251-006-03	SPRING (LEAD STOP2), LEAF	
154	A-3337-427-A	CHASSIS ASSY (including M1,M2)		165	3-250-957-01	GEAR (3 DIR)	
155	3-251-049-01	SPRING (FLOAT RL2), TENSION		166	3-250-973-01	GEAR (CAM)	
156	X-3383-087-1	LEVER ASSY, MODE CH		167	3-250-995-01	SPRING (CAM)	
157	3-250-997-01	SPRING (CD SENSOR), TORSION		168	3-250-969-01	GEAR (WHL SLD)	
158	3-251-018-01	SPRING (FLOAT RR2), TENSION		169	X-3383-506-1	CHASSIS ASSY	
159	3-251-482-02	SCREW +P 1.4X2 NON-SLIT TYPE2		M1	A-3337-430-A	MOTOR (SLED) SUB ASSY (SLED)	
$\triangle$ 160	A-3337-428-A	PICK-UP SUB ASSY (including OPTICAL PICK-UP)		#5	7-627-552-27	SCREW, PRECISION +P 1.7X2	
161	3-250-956-01	GEAR (CONNECT)					

**SECTION 6  
ELECTRICAL PARTS LIST**

NOTE:

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

- Items marked "\*\*\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS  
In each case, u : μ, for example:  
uA.. : μA.. uPA.. : μPA..  
uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS  
uF : μF
- COILS  
uH : μH

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

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

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

Ref. No.	Part No.	Description	Remark
		AUX BOARD *****	
		< JACK >	
J601	1-817-308-11	JACK (AUX)	
*****			
		FRONT BOARD *****	
		< CAPACITOR >	
C601	1-164-346-11	CERAMIC CHIP 1uF	16V
C602	1-165-176-11	CERAMIC CHIP 0.047uF	10% 16V
C603	1-165-176-11	CERAMIC CHIP 0.047uF	10% 16V
C604	1-164-733-11	CERAMIC CHIP 820PF	10% 50V
C605	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C621	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C622	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C681	1-164-346-11	CERAMIC CHIP 1uF	16V
C923	1-164-360-11	CERAMIC CHIP 0.1uF	16V
		< CONNECTOR >	
CON601	1-817-332-11	PLUG, CONNECTOR 15P	
		< DIODE >	
D601	8-719-067-40	DIODE STZ6.8N-T146	
D602	8-719-067-40	DIODE STZ6.8N-T146	
D641	8-719-075-89	LED BR1112H-730-TR (PWR)	
D642	8-719-075-89	LED BR1112H-730-TR (≡)	
D643	6-500-560-01	LED SELU2E10C-P (LCD BACK LIGHT)	
D651	8-719-075-89	LED BR1112H-730-TR (1, 2, INT 3, 4 REP, REP1 5, 6 SHUF)	
D652	8-719-075-89	LED BR1112H-730-TR (TA, AF, TU, PS)	
D653	8-719-075-89	LED BR1112H-730-TR (SEL, $\blacktriangleright\blacktriangleright\blacktriangleright\blacktriangleright$ +, $\blacktriangleleft\blacktriangleleft\blacktriangleleft\blacktriangleleft$ , DSPL)	
D661	6-500-083-01	LED NSPW315BSRS (LCD BACK LIGHT)	
D671	6-500-526-01	LED SEC1E01C (1, 2, INT 3, 4 REP, REP1 5, 6 SHUF)	
D672	6-500-526-01	LED SEC1E01C (TA, AF, TU, PS)	
D673	6-500-526-01	LED SEC1E01C (SEL, $\blacktriangleright\blacktriangleright\blacktriangleright\blacktriangleright$ +, $\blacktriangleleft\blacktriangleleft\blacktriangleleft\blacktriangleleft$ , DSPL)	
D681	8-719-978-33	DIODE DTZ-TT11-6.8B	
D682	8-719-069-54	DIODE UDZS-TE17-5.1B	

Ref. No.	Part No.	Description	Remark
		< IC >	
IC601	6-703-685-01	IC LC75854W	
IC681	8-742-130-00	IC SBX1971-52P (IR)	
		< JUMPER RESISTOR >	
JR642	1-216-864-11	METAL CHIP 0	5% 1/10W
JR643	1-216-864-11	METAL CHIP 0	5% 1/10W
JR644	1-216-296-11	SHORT CHIP 0	
		< LIQUID CRYSTAL DISPLAY >	
LCD601	1-805-172-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< TRANSISTOR >	
Q651	8-729-422-33	TRANSISTOR 2PD601A-Q-TX	
Q661	8-729-422-33	TRANSISTOR 2PD601A-Q-TX	
Q671	8-729-422-33	TRANSISTOR 2PD601A-Q-TX	
		< RESISTOR >	
R601	1-216-833-11	METAL CHIP 10K	5% 1/10W
R602	1-216-833-11	METAL CHIP 10K	5% 1/10W
R603	1-216-833-11	METAL CHIP 10K	5% 1/10W
R604	1-216-843-11	METAL CHIP 68K	5% 1/10W
R605	1-216-821-11	METAL CHIP 1K	5% 1/10W
R606	1-216-821-11	METAL CHIP 1K	5% 1/10W
R607	1-216-821-11	METAL CHIP 1K	5% 1/10W
R608	1-216-821-11	METAL CHIP 1K	5% 1/10W
R609	1-216-821-11	METAL CHIP 1K	5% 1/10W
R610	1-216-833-11	METAL CHIP 10K	5% 1/10W
R621	1-216-845-11	METAL CHIP 100K	5% 1/10W
R622	1-216-845-11	METAL CHIP 100K	5% 1/10W
R641	1-216-039-00	METAL CHIP 390	5% 1/10W
R643	1-216-043-11	RES-CHIP 560	5% 1/10W
R651	1-216-043-11	RES-CHIP 560	5% 1/10W
R652	1-216-043-11	RES-CHIP 560	5% 1/10W
R653	1-216-043-11	RES-CHIP 560	5% 1/10W
R654	1-218-867-11	METAL CHIP 6.8K	5% 1/10W
R661	1-216-186-00	RES-CHIP 330	5% 1/8W
R662	1-218-867-11	METAL CHIP 6.8K	5% 1/10W
R663	1-216-049-11	RES-CHIP 1K	5% 1/10W
R671	1-216-039-00	METAL CHIP 390	5% 1/10W
R672	1-216-039-00	METAL CHIP 390	5% 1/10W
R673	1-216-039-00	METAL CHIP 390	5% 1/10W
R674	1-218-867-11	METAL CHIP 6.8K	5% 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R681	1-216-820-11	METAL CHIP	820 5% 1/10W	C122	1-164-245-11	CERAMIC CHIP	0.015uF 10% 25V (R30MP)
R682	1-216-821-11	METAL CHIP	1K 5% 1/10W	C123	1-113-619-11	CERAMIC CHIP	0.47uF 10V
		< SWITCH >		C124	1-113-619-11	CERAMIC CHIP	0.47uF 10V
S601	1-786-176-11	SWITCH, SLIDE (▶▶▶/▶▶▶/+,-/◀◀◀/◀◀◀)		C125	1-124-584-00	ELECT	100uF 20% 50V
S602	1-572-596-21	SWITCH, KEYBOARD (PWR/ATT)		C151	1-162-916-11	CERAMIC CHIP	12PF 5% 50V (R30MP)
S604	1-572-596-21	SWITCH, KEYBOARD (TA) (R30MP)		C152	1-162-917-11	CERAMIC CHIP	15PF 5% 50V (R30MP)
S605	1-762-365-21	SWITCH, TACTILE (PS)		C153	1-124-257-00	ELECT	2.2uF 20% 50V (R30MP)
S606	1-762-365-21	SWITCH, TACTILE (DSPL)		C154	1-162-961-11	CERAMIC CHIP	330PF 10% 50V (R30MP)
S608	1-762-365-21	SWITCH, TACTILE (SEL)		C155	1-164-739-11	CERAMIC CHIP	560PF 5% 50V (R30MP)
S610	1-762-365-21	SWITCH, TACTILE (AF)		C156	1-164-156-11	CERAMIC CHIP	0.1uF 25V (R30MP)
S611	1-572-596-21	SWITCH, KEYBOARD (≡)		C157	1-124-589-11	ELECT	47uF 20% 16V (R30MP)
S612	1-762-365-21	SWITCH, TACTILE (TU)		C401	1-164-505-11	CERAMIC CHIP	2.2uF 16V
S613	1-572-596-21	SWITCH, KEYBOARD (1)		C402	1-164-505-11	CERAMIC CHIP	2.2uF 16V
S614	1-572-596-21	SWITCH, KEYBOARD (2)		C403	1-164-346-11	CERAMIC CHIP	1uF 16V
S615	1-572-596-21	SWITCH, KEYBOARD (INT 3)		C404	1-164-346-11	CERAMIC CHIP	1uF 16V
S616	1-572-596-21	SWITCH, KEYBOARD (4)		C405	1-162-923-11	CERAMIC CHIP	47PF 5% 50V
S617	1-692-459-11	SWITCH (REP1 5)		C406	1-162-923-11	CERAMIC CHIP	47PF 5% 50V
S618	1-572-596-21	SWITCH, KEYBOARD (6 SHUF)		C407	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V
S621	1-477-774-11	ENCODER, ROTARY (PUSH-SOURCE/A.ME -)		C408	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V
*****				C409	1-164-505-11	CERAMIC CHIP	2.2uF 16V
	A-3274-783-A	MAIN BOARD, COMPLETE (R30MP)		C410	1-164-505-11	CERAMIC CHIP	2.2uF 16V
	A-3274-787-A	MAIN BOARD, COMPLETE (X30MP)		C411	1-104-509-11	CERAMIC CHIP	0.018uF 10% 16V
		*****		C412	1-104-509-11	CERAMIC CHIP	0.018uF 10% 16V
	3-251-495-01	SCREW (2.6X8)		C413	1-131-664-11	CERAMIC CHIP	0.15uF 10% 10V
	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT		C414	1-131-664-11	CERAMIC CHIP	0.15uF 10% 10V
	7-682-150-01	SCREW +P 3X12		C415	1-131-664-11	CERAMIC CHIP	0.15uF 10% 10V
	7-685-792-09	SCREW +PTT 2.6X6 (S)		C416	1-131-664-11	CERAMIC CHIP	0.15uF 10% 10V
	7-685-793-09	SCREW +PTT 2.6X8 (S)		C417	1-164-346-11	CERAMIC CHIP	1uF 16V
		< ANTENNA >		C418	1-164-346-11	CERAMIC CHIP	1uF 16V
ANT101	1-817-334-11	JACK (ANTENNA)		C419	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V
		< CAPACITOR >		C420	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V
C101	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C421	1-164-677-11	CERAMIC CHIP	0.033uF 10% 16V
C102	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C422	1-164-677-11	CERAMIC CHIP	0.033uF 10% 16V
C103	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C423	1-124-584-00	ELECT	100uF 20% 10V
C104	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	C424	1-124-259-11	ELECT	4.7uF 20% 35V
C105	1-124-463-00	ELECT	0.1uF 20% 50V	C425	1-128-111-11	ELECT	100uF 20% 25V
C107	1-124-589-11	ELECT	47uF 20% 16V	C426	1-124-234-00	ELECT	22uF 20% 16V
C108	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	C427	1-124-584-00	ELECT	100uF 20% 10V
C109	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C428	1-164-005-11	CERAMIC CHIP	0.47uF 25V
C110	1-126-935-11	ELECT	470uF 20% 10V	C431	1-124-257-00	ELECT	2.2uF 20% 50V
C111	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C432	1-124-257-00	ELECT	2.2uF 20% 50V
C112	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C433	1-124-257-00	ELECT	2.2uF 20% 50V
C113	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C434	1-124-257-00	ELECT	2.2uF 20% 50V
C115	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C435	1-164-222-11	CERAMIC CHIP	0.22uF 25V
C116	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C436	1-164-222-11	CERAMIC CHIP	0.22uF 25V
C118	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C442	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C119	1-124-257-00	ELECT	2.2uF 20% 50V	C444	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C120	1-164-173-11	CERAMIC CHIP	0.0039uF 10% 50V	C451	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C121	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V (X30MP)	C452	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C121	1-164-245-11	CERAMIC CHIP	0.015uF 10% 25V (R30MP)	C453	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C122	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V (X30MP)	C454	1-164-156-11	CERAMIC CHIP	0.1uF 25V

# CDC-R30MP/X30MP

## MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C461	1-126-162-11	ELECT	3.3uF	20%	50V	C930	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C498	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C932	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C501	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	C933	1-125-701-11	DOUBLE LAYERS	0.047F		5.5V
C502	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	C934	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C503	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V			< CONNECTOR >			
C504	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	CON701	1-573-810-11	HOUSING, CONNECTOR 20P			
C505	1-164-739-11	CERAMIC CHIP	560PF	5%	50V	CON702	1-817-333-11	SOCKET, CONNECTOR 16P			
C506	1-164-739-11	CERAMIC CHIP	560PF	5%	50V	CON851	1-774-701-21	PIN, CONNECTOR 15P			
C507	1-164-739-11	CERAMIC CHIP	560PF	5%	50V			< DIODE >			
C508	1-164-739-11	CERAMIC CHIP	560PF	5%	50V						
C510	1-124-242-00	ELECT	33uF	20%	25V	D101	8-719-062-51	DIODE	1PS226-115		
C515	1-164-346-11	CERAMIC CHIP	1uF		16V	D151	8-719-109-85	DIODE	RD5.1ES-B2 (R30MP)		
C516	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D402	8-719-991-33	DIODE	1SS133T-77		
C517	1-135-473-21	ELECT	3300uF	20%	16V	D403	8-719-929-15	DIODE	HZS9.1N-B2		
C519	1-124-259-11	ELECT	4.7uF	20%	35V	D451	8-719-062-51	DIODE	1PS226-115		
C581	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D501	6-500-522-01	DIODE	10EDB40-TA1B2		
C583	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D502	6-500-522-01	DIODE	10EDB40-TA1B2		
C586	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D503	6-500-522-01	DIODE	10EDB40-TA1B2		
C588	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D504	6-500-522-01	DIODE	10EDB40-TA1B2		
C599	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	D505	6-500-522-01	DIODE	10EDB40-TA1B2		
C702	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	D506	6-500-522-01	DIODE	10EDB40-TA1B2		
C703	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	D507	6-500-522-01	DIODE	10EDB40-TA1B2		
C705	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D508	6-500-522-01	DIODE	10EDB40-TA1B2		
C706	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D513	8-719-109-89	DIODE	RD5.6ES-B2		
C707	1-124-257-00	ELECT	2.2uF	20%	50V	D705	8-719-109-97	DIODE	RD6.8ES-B2		
C708	1-124-257-00	ELECT	2.2uF	20%	50V	D706	8-719-109-97	DIODE	RD6.8ES-B2		
C709	1-164-346-11	CERAMIC CHIP	1uF		16V	D707	8-719-109-97	DIODE	RD6.8ES-B2		
C710	1-164-346-11	CERAMIC CHIP	1uF		16V	D708	8-719-109-97	DIODE	RD6.8ES-B2		
C711	1-164-739-11	CERAMIC CHIP	560PF	5%	50V	D709	8-719-109-97	DIODE	RD6.8ES-B2		
C712	1-164-739-11	CERAMIC CHIP	560PF	5%	50V	D710	8-719-109-97	DIODE	RD6.8ES-B2		
C713	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D711	8-719-109-97	DIODE	RD6.8ES-B2		
C804	1-124-233-11	ELECT	10uF	20%	16V	D712	8-719-109-97	DIODE	RD6.8ES-B2		
C805	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D713	8-719-109-97	DIODE	RD6.8ES-B2		
C806	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D801	8-719-929-15	DIODE	HZS9.1N-B2		
C807	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D802	8-719-062-51	DIODE	1PS226-115		
C808	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D803	8-719-066-11	DIODE	1PS184-115		
C809	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D804	8-719-929-15	DIODE	HZS9.1N-B2		
C810	1-128-111-11	ELECT	100uF	20%	25V	D805	8-719-109-93	DIODE	RD6.2ES-B2		
C811	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	D806	8-719-991-33	DIODE	1SS133T-77		
C816	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	D807	6-500-522-01	DIODE	10EDB40-TA1B2		
C819	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	D808	6-500-522-01	DIODE	10EDB40-TA1B2		
C820	1-104-665-11	ELECT	100uF	20%	25V	D811	8-719-404-50	DIODE	MA111-TX		
C822	1-128-111-11	ELECT	100uF	20%	25V	D851	8-719-049-38	DIODE	1N5404TU		
C823	1-126-160-11	ELECT	1uF	20%	50V	D902	8-719-991-33	DIODE	1SS133T-77		
C824	1-126-935-11	ELECT	470uF	20%	10V	D903	8-719-066-11	DIODE	1PS184-115		
C852	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	D904	8-719-991-33	DIODE	1SS133T-77 (X30MP)		
C913	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D905	8-719-991-33	DIODE	1SS133T-77 (X30MP)		
C914	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D906	8-719-991-33	DIODE	1SS133T-77 (R30MP)		
C915	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	D910	8-719-914-44	DIODE	DAP202K		
C916	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D913	8-719-066-11	DIODE	1PS184-115		
C917	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D915	8-719-109-85	DIODE	RD5.1ES-B2 (R30MP)		
C921	1-164-156-11	CERAMIC CHIP	0.1uF		25V			< FUSE >			
C923	1-164-156-11	CERAMIC CHIP	0.1uF		25V	F901	1-532-982-11	FUSE (BLADE TYPE) (AUTO FUSE)	15A		
C924	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V						
C925	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V						
C927	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C928	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C929	1-113-619-11	CERAMIC CHIP	0.47uF		10V						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< IC >		JR526	1-216-296-11	SHORT CHIP	0
IC151	8-759-065-98	IC SAA6579T (R30MP)		JR527	1-216-296-11	SHORT CHIP	0
IC401	6-703-687-01	IC LA2657M		JR528	1-216-296-11	SHORT CHIP	0
IC402	8-759-008-67	IC MC14066BF		JR529	1-216-296-11	SHORT CHIP	0
IC501	8-759-827-12	IC TA8272H		JR530	1-216-296-11	SHORT CHIP	0
IC801	8-759-450-50	IC BA08T		JR531	1-216-296-11	SHORT CHIP	0
IC901	6-802-745-01	IC uPD178078GF-590-3BA (R30MP)		JR532	1-216-296-11	SHORT CHIP	0
IC901	6-802-747-01	IC uPD178076GF-572-3BA (X30MP)		JR533	1-216-296-11	SHORT CHIP	0
IC902	6-701-405-01	IC PST3443UL		JR534	1-216-296-11	SHORT CHIP	0
		< JACK >		JR535	1-216-296-11	SHORT CHIP	0
J401	1-774-698-11	JACK, PIN 2P (AUDIO OUT REAR)		JR536	1-216-296-11	SHORT CHIP	0
		< JUMPER RESISTOR >		JR537	1-216-296-11	SHORT CHIP	0
JR101	1-216-864-11	METAL CHIP	0 5% 1/10W	JR538	1-216-296-11	SHORT CHIP	0
JR102	1-216-864-11	METAL CHIP	0 5% 1/10W	JR539	1-216-296-11	SHORT CHIP	0
JR103	1-216-864-11	METAL CHIP	0 5% 1/10W	JR540	1-216-296-11	SHORT CHIP	0
JR104	1-216-864-11	METAL CHIP	0 5% 1/10W	JR541	1-216-296-11	SHORT CHIP	0
JR105	1-216-864-11	METAL CHIP	0 5% 1/10W	JR542	1-216-296-11	SHORT CHIP	0
JR106	1-216-864-11	METAL CHIP	0 5% 1/10W	JR543	1-216-296-11	SHORT CHIP	0
JR107	1-216-864-11	METAL CHIP	0 5% 1/10W	JR544	1-216-296-11	SHORT CHIP	0
JR108	1-216-864-11	METAL CHIP	0 5% 1/10W	JR545	1-216-296-11	SHORT CHIP	0 (R30MP)
JR109	1-216-864-11	METAL CHIP	0 5% 1/10W	JR547	1-216-296-11	SHORT CHIP	0 (R30MP)
JR110	1-216-864-11	METAL CHIP	0 5% 1/10W	JR548	1-216-296-11	SHORT CHIP	0
JR111	1-216-864-11	METAL CHIP	0 5% 1/10W	JR549	1-216-296-11	SHORT CHIP	0
JR112	1-216-864-11	METAL CHIP	0 5% 1/10W	JR550	1-216-296-11	SHORT CHIP	0
JR113	1-216-864-11	METAL CHIP	0 5% 1/10W	JR552	1-216-222-00	RES-CHIP	10K 5% 1/8W
JR114	1-216-864-11	METAL CHIP	0 5% 1/10W	JR553	1-216-296-11	SHORT CHIP	0
JR115	1-216-864-11	METAL CHIP	0 5% 1/10W	JR554	1-216-296-11	SHORT CHIP	0
JR116	1-216-864-11	METAL CHIP	0 5% 1/10W	JR555	1-216-296-11	SHORT CHIP	0
JR118	1-216-864-11	METAL CHIP	0 5% 1/10W	JR556	1-216-296-11	SHORT CHIP	0
JR119	1-216-864-11	METAL CHIP	0 5% 1/10W	JR557	1-216-296-11	SHORT CHIP	0
JR120	1-216-864-11	METAL CHIP	0 5% 1/10W			< COIL >	
JR121	1-216-864-11	METAL CHIP	0 5% 1/10W	L101	1-410-324-11	INDUCTOR	4.7uH
JR124	1-216-864-11	METAL CHIP	0 5% 1/10W	L102	1-424-759-11	COIL (AM ANT)	
JR128	1-216-864-11	METAL CHIP	0 5% 1/10W	L701	1-412-006-31	INDUCTOR	10uH
JR501	1-216-296-11	SHORT CHIP	0	L702	1-410-509-11	INDUCTOR	10uH
JR502	1-216-296-11	SHORT CHIP	0	L703	1-410-993-42	INDUCTOR	1uH
JR503	1-216-296-11	SHORT CHIP	0	L704	1-410-993-42	INDUCTOR	1uH
JR504	1-216-296-11	SHORT CHIP	0	L851	1-419-476-41	COIL, CHOKE	250uH
JR505	1-216-296-11	SHORT CHIP	0	L901	1-410-517-11	INDUCTOR	47uH
JR506	1-216-296-11	SHORT CHIP	0			< TRANSISTOR >	
JR507	1-216-296-11	SHORT CHIP	0	Q101	8-729-043-30	TRANSISTOR	PDTC114TK-115
JR508	1-216-296-11	SHORT CHIP	0	Q102	8-729-026-48	TRANSISTOR	2SA1037AK-T146-Q
JR509	1-216-296-11	SHORT CHIP	0	Q103	8-729-026-48	TRANSISTOR	2SA1037AK-T146-Q
JR510	1-216-296-11	SHORT CHIP	0	Q105	8-729-422-33	TRANSISTOR	2PD601A-Q-TX
JR513	1-216-296-11	SHORT CHIP	0	Q106	8-729-422-33	TRANSISTOR	2PD601A-Q-TX
JR514	1-216-296-11	SHORT CHIP	0	Q108	8-729-422-33	TRANSISTOR	2PD601A-Q-TX
JR515	1-216-296-11	SHORT CHIP	0	Q109	8-729-422-33	TRANSISTOR	2PD601A-Q-TX
JR516	1-216-296-11	SHORT CHIP	0	Q401	8-729-043-30	TRANSISTOR	PDTC114TK-115
JR517	1-216-296-11	SHORT CHIP	0	Q402	8-729-043-30	TRANSISTOR	PDTC114TK-115
JR518	1-216-296-11	SHORT CHIP	0	Q403	8-729-043-30	TRANSISTOR	PDTC114TK-115
JR520	1-216-296-11	SHORT CHIP	0	Q404	8-729-043-30	TRANSISTOR	PDTC114TK-115
JR522	1-216-296-11	SHORT CHIP	0	Q405	8-729-027-26	TRANSISTOR	DTA114YKA-T146
JR523	1-216-296-11	SHORT CHIP	0	Q406	8-729-422-33	TRANSISTOR	2PD601A-Q-TX
JR524	1-216-296-11	SHORT CHIP	0	Q407	8-729-043-30	TRANSISTOR	PDTC114TK-115
JR525	1-216-296-11	SHORT CHIP	0	Q408	8-729-043-30	TRANSISTOR	PDTC114TK-115
				Q409	8-729-904-63	TRANSISTOR	DTB123YK

# CDC-R30MP/X30MP

## MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q411	8-729-043-30	TRANSISTOR	PDTC114TK-115	R405	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
Q451	8-729-422-33	TRANSISTOR	2PD601A-Q-TX	R406	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
Q701	1-801-806-11	TRANSISTOR	DTC144EKA	R407	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q801	8-729-209-60	TRANSISTOR	2SB1375	R408	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q803	8-729-422-33	TRANSISTOR	2PD601A-Q-TX	R409	1-216-843-11	METAL CHIP	68K 5% 1/10W
Q804	8-729-043-30	TRANSISTOR	PDTC114TK-115	R410	1-216-843-11	METAL CHIP	68K 5% 1/10W
Q806	8-729-209-15	TRANSISTOR	2SD2012	R411	1-216-839-11	METAL CHIP	33K 5% 1/10W
Q807	8-729-026-48	TRANSISTOR	2SA1037AK-T146-Q	R412	1-216-839-11	METAL CHIP	33K 5% 1/10W
Q808	8-729-043-30	TRANSISTOR	PDTC114TK-115	R413	1-216-843-11	METAL CHIP	68K 5% 1/10W
Q809	8-729-040-23	TRANSISTOR	2SD1862TV2QR	R414	1-216-843-11	METAL CHIP	68K 5% 1/10W
Q810	8-729-422-33	TRANSISTOR	2PD601A-Q-TX	R415	1-216-208-00	RES-CHIP	2.7K 5% 1/8W
		< RESISTOR >		R416	1-216-821-11	METAL CHIP	1K 5% 1/10W
R101	1-216-857-11	METAL CHIP	1M 5% 1/10W	R417	1-249-393-11	CARBON	10 5% 1/4W
R102	1-216-821-11	METAL CHIP	1K 5% 1/10W	R418	1-216-845-11	METAL CHIP	100K 5% 1/10W
R103	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R419	1-216-789-11	METAL CHIP	2.2 5% 1/10W
R104	1-216-821-11	METAL CHIP	1K 5% 1/10W	R420	1-216-833-11	METAL CHIP	10K 5% 1/10W
R105	1-216-821-11	METAL CHIP	1K 5% 1/10W	R424	1-216-821-11	METAL CHIP	1K 5% 1/10W
R106	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R428	1-216-863-11	METAL CHIP	3.3M 5% 1/10W
R107	1-217-905-11	METAL CHIP	1.5 5% 1/10W	R429	1-216-863-11	METAL CHIP	3.3M 5% 1/10W
R108	1-216-812-11	METAL CHIP	180 5% 1/10W	R431	1-249-417-11	CARBON	1K 5% 1/4W
R109	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R432	1-249-417-11	CARBON	1K 5% 1/4W
R110	1-216-833-11	METAL CHIP	10K 5% 1/10W	R433	1-249-417-11	CARBON	1K 5% 1/4W
R111	1-216-841-11	METAL CHIP	47K 5% 1/10W	R434	1-249-417-11	CARBON	1K 5% 1/4W
R112	1-216-841-11	METAL CHIP	47K 5% 1/10W	R441	1-216-821-11	METAL CHIP	1K 5% 1/10W
R113	1-216-851-11	METAL CHIP	330K 5% 1/10W	R442	1-216-821-11	METAL CHIP	1K 5% 1/10W
R114	1-216-845-11	METAL CHIP	100K 5% 1/10W	R451	1-216-845-11	METAL CHIP	100K 5% 1/10W
R115	1-216-821-11	METAL CHIP	1K 5% 1/10W	R452	1-216-845-11	METAL CHIP	100K 5% 1/10W
R116	1-216-833-11	METAL CHIP	10K 5% 1/10W	R453	1-216-857-11	METAL CHIP	1M 5% 1/10W
R117	1-216-820-11	METAL CHIP	820 5% 1/10W	R454	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
R118	1-216-837-11	METAL CHIP	22K 5% 1/10W	R455	1-216-833-11	METAL CHIP	10K 5% 1/10W
R119	1-216-839-11	METAL CHIP	33K 5% 1/10W	R456	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R120	1-216-841-11	METAL CHIP	47K 5% 1/10W	R457	1-216-857-11	METAL CHIP	1M 5% 1/10W
R121	1-249-427-11	CARBON	6.8K 5% 1/4W	R471	1-216-840-11	METAL CHIP	39K 5% 1/10W
R121	1-249-436-11	CARBON	39K 5% 1/4W	R472	1-216-840-11	METAL CHIP	39K 5% 1/10W
R122	1-216-840-11	METAL CHIP	39K 5% 1/10W	R473	1-216-842-11	METAL CHIP	56K 5% 1/10W
R122	1-218-867-11	METAL CHIP	6.8K 5% 1/10W	R474	1-216-842-11	METAL CHIP	56K 5% 1/10W
R123	1-216-797-11	METAL CHIP	10 5% 1/10W	R501	1-216-835-11	METAL CHIP	15K 5% 1/10W
R124	1-216-864-11	METAL CHIP	0 5% 1/10W	R502	1-216-835-11	METAL CHIP	15K 5% 1/10W
R125	1-216-864-11	METAL CHIP	0 5% 1/10W	R503	1-216-835-11	METAL CHIP	15K 5% 1/10W
R128	1-249-411-11	CARBON	330 5% 1/4W	R504	1-216-835-11	METAL CHIP	15K 5% 1/10W
R129	1-216-864-11	METAL CHIP	0 5% 1/10W	R505	1-216-835-11	METAL CHIP	15K 5% 1/10W
R130	1-216-833-11	METAL CHIP	10K 5% 1/10W	R506	1-216-835-11	METAL CHIP	15K 5% 1/10W
R131	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R507	1-216-835-11	METAL CHIP	15K 5% 1/10W
R132	1-218-446-11	METAL CHIP	1 5% 1/10W	R508	1-216-835-11	METAL CHIP	15K 5% 1/10W
R151	1-216-835-11	METAL CHIP	15K 5% 1/10W	R509	1-249-429-11	CARBON	10K 5% 1/4W
R401	1-218-867-11	METAL CHIP	6.8K 5% 1/10W	R511	1-216-841-11	METAL CHIP	47K 5% 1/10W
R402	1-218-867-11	METAL CHIP	6.8K 5% 1/10W	R512	1-216-864-11	METAL CHIP	0 5% 1/10W
R403	1-216-835-11	METAL CHIP	15K 5% 1/10W	R523	1-249-429-11	CARBON	10K 5% 1/4W
R404	1-216-835-11	METAL CHIP	15K 5% 1/10W	R713	1-249-426-11	CARBON	5.6K 5% 1/4W
				R714	1-249-426-11	CARBON	5.6K 5% 1/4W
				R715	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
				R716	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
				R717	1-216-821-11	METAL CHIP	1K 5% 1/10W
				R719	1-216-821-11	METAL CHIP	1K 5% 1/10W
				R720	1-216-821-11	METAL CHIP	1K 5% 1/10W
				R721	1-216-821-11	METAL CHIP	1K 5% 1/10W
				R722	1-216-821-11	METAL CHIP	1K 5% 1/10W
				R723	1-216-821-11	METAL CHIP	1K 5% 1/10W

MAIN

SERVO

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R724	1-216-821-11	METAL CHIP	1K 5% 1/10W	R957	1-216-821-11	METAL CHIP	1K 5% 1/10W
R725	1-216-821-11	METAL CHIP	1K 5% 1/10W	R958	1-216-821-11	METAL CHIP	1K 5% 1/10W
R726	1-216-821-11	METAL CHIP	1K 5% 1/10W	R999	1-216-845-11	METAL CHIP	100K 5% 1/10W (X30MP)
R727	1-216-829-11	METAL CHIP	4.7K 5% 1/10W			< VARIABLE RESISTOR >	
R728	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	SFR101	1-241-768-11	RES, ADJ, CARBON 220K (R30MP)	
R729	1-216-830-11	METAL CHIP	5.6K 5% 1/10W			< SWITCH >	
R730	1-216-830-11	METAL CHIP	5.6K 5% 1/10W	SW901	1-692-431-21	SWITCH, TACTILE (RESET)	
R731	1-216-815-11	METAL CHIP	330 5% 1/10W			< THERMISTOR >	
R732	1-216-186-00	RES-CHIP	330 5% 1/8W	THP801	1-809-148-11	THERMISTOR PTH8L07AR2ROM1B510	
R801	1-216-833-11	METAL CHIP	10K 5% 1/10W			< TUNER >	
R802	1-249-421-11	CARBON	2.2K 5% 1/4W	TU101	1-693-609-11	TUNER UNIT (X30MP)	
R803	1-249-421-11	CARBON	2.2K 5% 1/4W	TU101	1-693-611-11	TUNER UNIT (R30MP)	
R804	1-216-864-11	METAL CHIP	0 5% 1/10W			< VIBRATOR >	
R805	1-216-190-11	RES-CHIP	470 5% 1/8W	X151	1-579-242-41	VIBRATOR, CRYSTAL (4.332MHz) (R30MP)	
R808	1-216-838-11	METAL CHIP	27K 5% 1/10W	X901	1-795-863-11	VIBRATOR, CRYSTAL (6.3MHz)	
R809	1-216-833-11	METAL CHIP	10K 5% 1/10W	*****			
R810	1-216-821-11	METAL CHIP	1K 5% 1/10W	A-3274-796-A	SERVO BOARD, COMPLETE		
R815	1-216-834-11	METAL CHIP	12K 5% 1/10W			< CAPACITOR >	
R816	1-216-845-11	METAL CHIP	100K 5% 1/10W	C202	1-165-872-21	ELECT CHIP	47uF 20% 6.3V
R817	1-216-180-00	RES-CHIP	180 5% 1/8W	C203	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R818	1-216-180-00	RES-CHIP	180 5% 1/8W	C204	1-110-450-11	ELECT CHIP	100uF 20% 6.3V
R904	1-216-842-11	METAL CHIP	56K 5% 1/10W	C205	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
R905	1-216-839-11	METAL CHIP	33K 5% 1/10W	C206	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R906	1-216-839-11	METAL CHIP	33K 5% 1/10W	C207	1-110-449-11	ELECT CHIP	47uF 20% 6.3V
R910	1-216-841-11	METAL CHIP	47K 5% 1/10W	C211	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
R912	1-247-881-00	CARBON	120K 5% 1/4W	C212	1-110-411-11	ELECT CHIP	22uF 20% 6.3V
R913	1-218-873-11	METAL CHIP	12K 0.5% 1/10W	C213	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R914	1-216-864-11	METAL CHIP	0 5% 1/10W	C214	1-110-410-31	ELECT CHIP	10uF 20% 6.3V
R917	1-249-431-11	CARBON	15K 5% 1/4W	C215	1-110-410-31	ELECT CHIP	10uF 20% 6.3V
R919	1-216-841-11	METAL CHIP	47K 5% 1/10W	C217	1-110-449-11	ELECT CHIP	47uF 20% 6.3V
R920	1-247-881-00	CARBON	120K 5% 1/4W	C220	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R921	1-249-421-11	CARBON	2.2K 5% 1/4W	C222	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
R922	1-249-421-11	CARBON	2.2K 5% 1/4W	C223	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
R923	1-249-421-11	CARBON	2.2K 5% 1/4W	C224	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
R924	1-249-421-11	CARBON	2.2K 5% 1/4W	C225	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R925	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	C226	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R926	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	C227	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
R927	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	C228	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R929	1-216-833-11	METAL CHIP	10K 5% 1/10W	C230	1-162-923-11	CERAMIC CHIP	47PF 5% 50V
R930	1-249-421-11	CARBON	2.2K 5% 1/4W	C232	1-162-907-11	CERAMIC CHIP	2PF 0.25PF 50V
R931	1-249-421-11	CARBON	2.2K 5% 1/4W	C233	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R932	1-249-421-11	CARBON	2.2K 5% 1/4W	C234	1-110-410-31	ELECT CHIP	10uF 20% 6.3V
R933	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (R30MP)	C235	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R935	1-216-845-11	METAL CHIP	100K 5% 1/10W	C236	1-110-410-31	ELECT CHIP	10uF 20% 6.3V
R936	1-216-845-11	METAL CHIP	100K 5% 1/10W	C237	1-162-921-11	CERAMIC CHIP	33PF 5% 50V
R938	1-216-841-11	METAL CHIP	47K 5% 1/10W	C238	1-162-921-11	CERAMIC CHIP	33PF 5% 50V
R941	1-216-845-11	METAL CHIP	100K 5% 1/10W (X30MP)	C239	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
R944	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	C241	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
R945	1-216-845-11	METAL CHIP	100K 5% 1/10W	C242	1-110-410-31	ELECT CHIP	10uF 20% 6.3V
R946	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R947	1-216-825-11	METAL CHIP	2.2K 5% 1/10W				
R949	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R950	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R951	1-216-845-11	METAL CHIP	100K 5% 1/10W				
R956	1-216-821-11	METAL CHIP	1K 5% 1/10W				

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## SERVO

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C243	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V			< DIODE >	
C244	1-110-449-11	ELECT CHIP	47uF 20% 6.3V				
C245	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D201	8-719-066-11	DIODE 1PS184-115	
C246	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D301	8-719-066-11	DIODE 1PS184-115	
C247	1-110-449-11	ELECT CHIP	47uF 20% 6.3V	D511	8-719-081-67	DIODE M1FM3	
C251	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V			< IC >	
C252	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	IC201	6-703-810-01	IC uPD63760GJ-8EN	
C253	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	IC202	6-703-899-01	IC MSM51V18165FP-60TR1	
C255	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	IC301	6-802-743-01	IC uPD703033BGC-019-8EU	
C256	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	IC302	6-700-565-01	IC SN74AHCT1G125DCKR	
C257	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	IC351	8-759-567-26	IC BA5983FP-E2	
C258	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	IC501	8-759-832-31	IC TK71533ASCL	
C259	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	IC511	6-702-472-01	IC PQ1CZ21H2ZP	
C260	1-162-927-11	CERAMIC CHIP	100PF 5% 50V			< COIL >	
C303	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	L201	1-414-410-21	INDUCTOR 10uH	
C331	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	L202	1-414-410-21	INDUCTOR 10uH	
C332	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	L203	1-414-410-21	INDUCTOR 10uH	
C333	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	L211	1-414-410-21	INDUCTOR 10uH	
C334	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	L212	1-414-410-21	INDUCTOR 10uH	
C335	1-110-449-11	ELECT CHIP	47uF 20% 6.3V	L213	1-414-410-21	INDUCTOR 10uH	
C336	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	L214	1-414-410-21	INDUCTOR 10uH	
C338	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	L241	1-414-410-21	INDUCTOR 10uH	
C339	1-110-449-11	ELECT CHIP	47uF 20% 6.3V	L301	1-414-410-21	INDUCTOR 10uH	
C351	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V	L302	1-414-410-21	INDUCTOR 10uH	
C352	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	L351	1-414-410-21	INDUCTOR 10uH	
C353	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V	L511	1-419-387-11	COIL, CHOKE 100uH	
C354	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	L512	1-419-387-11	COIL, CHOKE 100uH	
C355	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V	L513	1-419-387-11	COIL, CHOKE 100uH	
C356	1-162-927-11	CERAMIC CHIP	100PF 5% 50V			< TRANSISTOR >	
C357	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V	Q201	8-729-904-86	TRANSISTOR 2SB1197K-Q	
C358	1-162-927-11	CERAMIC CHIP	100PF 5% 50V			< RESISTOR >	
C361	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	R201	1-216-864-11	METAL CHIP 0 5% 1/10W	
C362	1-126-176-11	ELECT	220uF 20% 10V	R202	1-216-864-11	METAL CHIP 0 5% 1/10W	
C381	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	R203	1-216-864-11	METAL CHIP 0 5% 1/10W	
C382	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	R204	1-216-864-11	METAL CHIP 0 5% 1/10W	
C383	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	R207	1-216-864-11	METAL CHIP 0 5% 1/10W	
C384	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	R208	1-216-864-11	METAL CHIP 0 5% 1/10W	
C385	1-162-919-11	CERAMIC CHIP	22PF 5% 50V	R209	1-216-813-11	METAL CHIP 220 5% 1/10W	
C386	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	R210	1-216-001-00	METAL CHIP 10 5% 1/10W	
C387	1-162-919-11	CERAMIC CHIP	22PF 5% 50V	R211	1-216-839-11	METAL CHIP 33K 5% 1/10W	
C388	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	R212	1-216-839-11	METAL CHIP 33K 5% 1/10W	
C501	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	R214	1-216-839-11	METAL CHIP 33K 5% 1/10W	
C502	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	R215	1-216-839-11	METAL CHIP 33K 5% 1/10W	
C503	1-110-449-11	ELECT CHIP	47uF 20% 6.3V	R216	1-216-839-11	METAL CHIP 33K 5% 1/10W	
C511	1-110-456-11	ELECT CHIP	47uF 20% 16V	R228	1-216-838-11	METAL CHIP 27K 5% 1/10W	
C512	1-110-456-11	ELECT CHIP	47uF 20% 16V	R229	1-216-838-11	METAL CHIP 27K 5% 1/10W	
C513	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	R230	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
C514	1-110-456-11	ELECT CHIP	47uF 20% 16V	R231	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
C515	1-110-456-11	ELECT CHIP	47uF 20% 16V	R232	1-216-839-11	METAL CHIP 33K 5% 1/10W	
C516	1-164-346-11	CERAMIC CHIP	1uF 16V	R233	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C517	1-165-872-21	ELECT CHIP	47uF 20% 6.3V	R234	1-216-840-11	METAL CHIP 39K 5% 1/10W	
C518	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	R236	1-216-821-11	METAL CHIP 1K 5% 1/10W	
		< CONNECTOR >		R237	1-216-833-11	METAL CHIP 10K 5% 1/10W	
* CON301	1-580-802-21	SOCKET, CONNECTOR 20P		R238	1-216-833-11	METAL CHIP 10K 5% 1/10W	





# CDC-R30MP/X30MP

**SERVO**      **SUB**

Ref. No.	Part No.	Description	Remark
R414	1-216-821-11	METAL CHIP	1K 5% 1/10W
R415	1-216-821-11	METAL CHIP	1K 5% 1/10W
R416	1-216-821-11	METAL CHIP	1K 5% 1/10W
R417	1-216-821-11	METAL CHIP	1K 5% 1/10W
R418	1-216-821-11	METAL CHIP	1K 5% 1/10W
R419	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
R420	1-216-821-11	METAL CHIP	1K 5% 1/10W
R421	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
R422	1-216-821-11	METAL CHIP	1K 5% 1/10W
R423	1-216-864-11	METAL CHIP	0 5% 1/10W
R424	1-216-864-11	METAL CHIP	0 5% 1/10W
R481	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R482	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R483	1-216-864-11	METAL CHIP	0 5% 1/10W
R484	1-216-864-11	METAL CHIP	0 5% 1/10W
R491	1-216-864-11	METAL CHIP	0 5% 1/10W
R492	1-216-864-11	METAL CHIP	0 5% 1/10W
R493	1-216-864-11	METAL CHIP	0 5% 1/10W
R494	1-216-864-11	METAL CHIP	0 5% 1/10W
R495	1-216-821-11	METAL CHIP	1K 5% 1/10W
R496	1-216-864-11	METAL CHIP	0 5% 1/10W
R497	1-216-821-11	METAL CHIP	1K 5% 1/10W
R499	1-216-864-11	METAL CHIP	0 5% 1/10W
R501	1-216-864-11	METAL CHIP	0 5% 1/10W
R512	1-218-855-11	METAL CHIP	2.2K 0.5% 1/10W
R517	1-218-839-11	METAL CHIP	470 0.5% 1/10W
R518	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W

< VIBRATOR >

X211	1-795-561-21	VIBRATOR, CERAMIC (16.9344MHz)
X301	1-795-561-21	VIBRATOR, CERAMIC (16.9344MHz)

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A-3274-733-A SUB BOARD, COMPLETE (including S1,S2)

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**MISCELLANEOUS**

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9	1-776-207-41	CORD (WITH CONNECTOR) (POWER) (X30MP)
9	1-776-527-82	CORD (WITH CONNECTOR) (ISO) (POWER) (R30MP)
102	1-687-801-11	FF-CABLE BOARD
103	1-687-802-11	PIC2 FLEXIBLE BOARD
154	A-3337-427-A	CHASSIS ASSY (including M1,M2)

▲ 160 A-3337-428-A PICK-UP SUB ASSY (including OPTICAL PICK-UP)

F901	1-532-982-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A
M1	A-3337-430-A	MOTOR (SLED) SUB ASSY (SLED)
S4	1-762-952-11	SWITCH, PUSH (1 KEY) (LIMIT)

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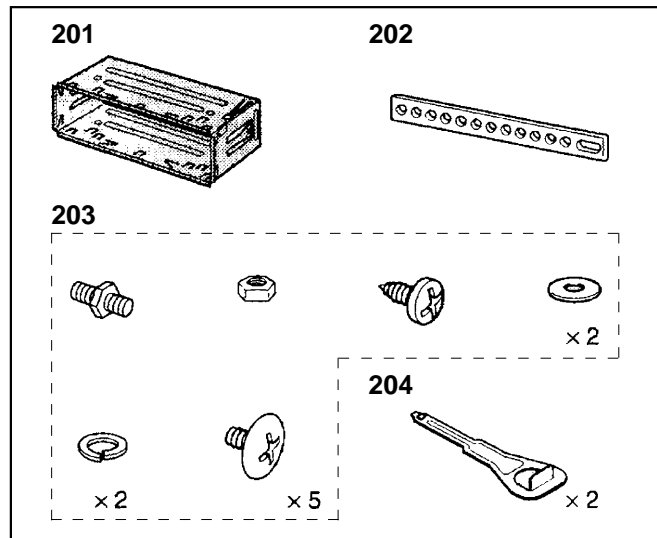
Ref. No.	Part No.	Description	Remark
		ACCESSORIES	
		*****	
	1-477-833-11	COMMANDER, CARD (RM-Z303)	
	3-250-255-01	COLLAR	
	3-251-494-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,FRENCH) (X30MP)	
	3-252-883-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,FRENCH,GERMAN,ITALIAN, DUTCH,POLISH,HUNGARIAN, CZECH,RUSSIAN) (R30MP)	
	3-253-072-11	MANUAL, INSTRUCTION (ENGLISH,SPANISH, FRENCH) (X30MP)	
	3-253-076-11	MANUAL, INSTRUCTION (ENGLISH,SPANISH, FRENCH,GERMAN,ITALIAN,DUTCH, POLISH,HUNGARIAN,CZECH, RUSSIAN) (R30MP)	
	3-255-074-01	LID, BATTERY CASE (for RM-Z303)	
	7-621-772-10	SCREW +P 2X4 (X30MP)	
	X-3383-157-1	CASE ASSY (for FRONT PANEL)	

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**PARTS FOR INSTALLATION AND CONNECTIONS**

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201	3-250-171-01	FRAME, FITTING
202	3-251-083-01	HOLDER, REAR
203	X-3383-233-1	SCREW ASSY (A)
204	3-251-080-01	KEY, FRAME



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

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

**MEMO**

