

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 μ V (30 dB)

(MW) (CDC-R30MP)

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

CD SECTION

Frequency Response: 17 Hz – 20 kHz $\pm 0/-3$ 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 Ω)

– 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 Ω

Tone Control: Bass ± 10 dB at 100 Hz,
Treble ± 10 dB at 10 kHz

Preamp Output Voltage (load impedance): 2.2 V (10 k Ω)

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

(7 $\frac{1}{4}$ (W) $\times$ 2 $\frac{1}{8}$ (H) $\times$ 6 $\frac{1}{8}$ (D) inches)

Supplied Accessory: Carrying case (1)

CARD REMOTE CONTROL

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

(1 $\frac{5}{16}$ (W) $\times$ 3 $\frac{3}{8}$ (H) $\times$ $\frac{5}{16}$ (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

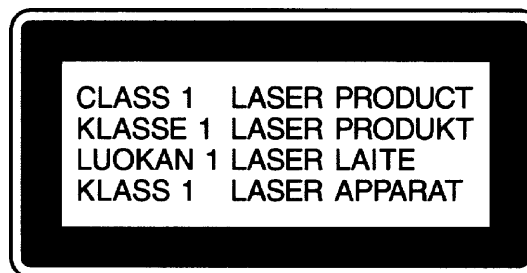
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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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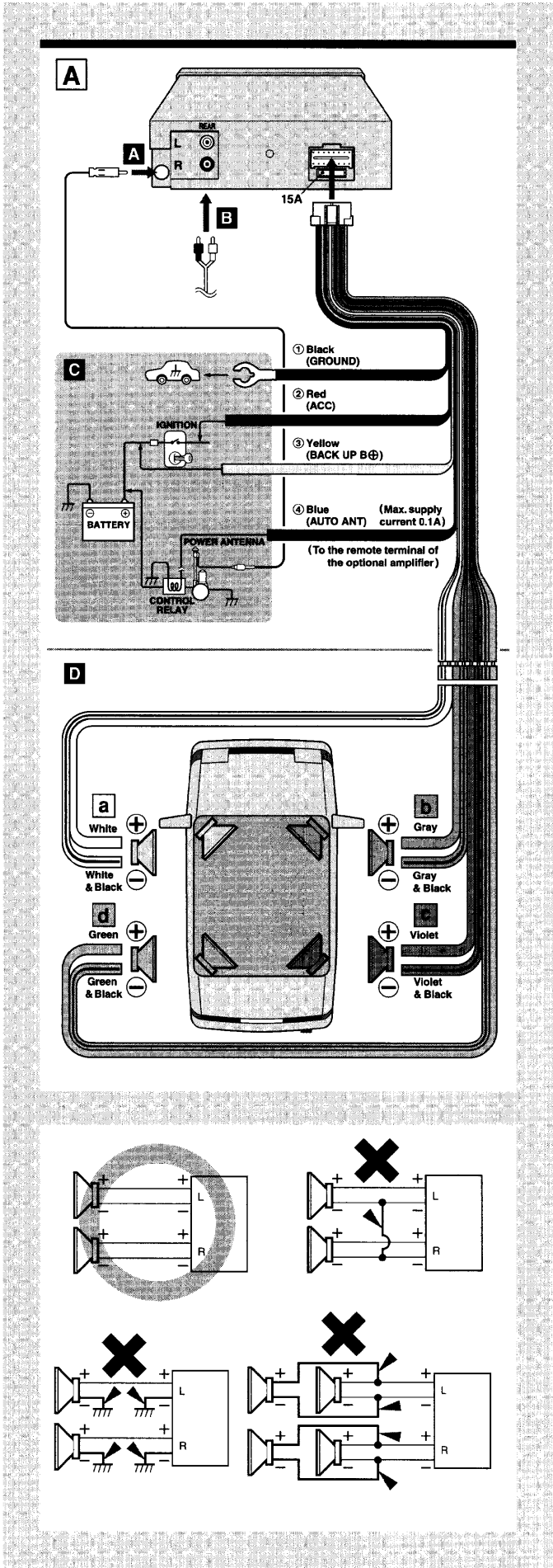
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This section is extracted
from instruction manual.

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 $\ominus$ 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) (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

- 1 White/White & Black: Front left $\oplus/\ominus$
- 2 Gray/Gray & Black: Front right $\oplus/\ominus$
- 3 Violet/Violet & Black: Rear right $\oplus/\ominus$
- 4 Green/Green & Black: Rear left $\oplus/\ominus$

4-SPEAKER CONNECTIONS → a b c d

2-SPEAKER CONNECTIONS → a b c d

Note

- Insulate the end of the unused lead with a piece of tape.
- 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 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 $\ominus$ 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 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)

Conexiones de altavoces

Colores de los cables

- 1 Blanco/Blanco y negro: parte frontal izquierda $\oplus/\ominus$
- 2 Gris/Gris y negro: parte frontal derecha $\oplus/\ominus$
- 3 Violeta/Violeta y negro: parte posterior derecha $\oplus/\ominus$
- 4 Verde/Verde y negro: parte posterior izquierda $\oplus/\ominus$

CONEXIONES PARA 4 ALTAVOCES → a b c d

CONEXIONES PARA 2 ALTAVOCES → a b c d

Note

- Aísle la punta del conductor sin usar con cinta.
- 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.

FRANÇAIS

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 $\ominus$ 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

- 1 Blanc/Blanc et Noir: Avant gauche $\oplus/\ominus$
- 2 Gris/Gris et Noir: Avant droite $\oplus/\ominus$
- 3 Violet/Violet et Noir: Arrière droite $\oplus/\ominus$
- 4 Vert/Vert et Noir: Arrière gauche $\oplus/\ominus$

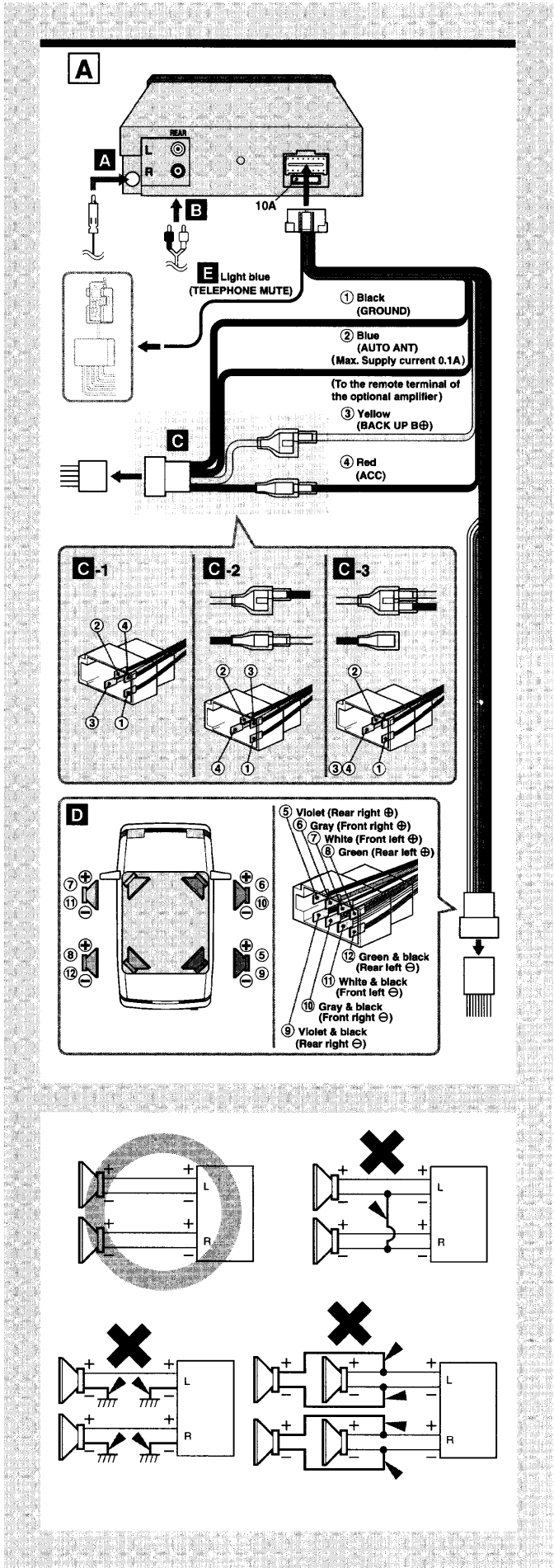
RACCORDEMENT A 4 ENCEINTES → a b c d

RACCORDEMENT A 2 ENCEINTES → a b c d

Remarque

- Isoler l'extrémité du fil inutilisé avec du ruban.
- 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 ⊕/⊖

⑥/⑩ Gray/Gray & Black; Front right ⊕/⊖

⑦/⑪ White/White & Black; Front left ⊕/⊖

⑧/⑫ 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 hands-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 cumpla 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 ⊕/⊖

⑥/⑩ Gris/Gris y negro; parte frontal derecha ⊕/⊖

⑦/⑪ Blanco/Blanco y negro; parte frontal izquierda ⊕/⊖

⑧/⑫ 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 anual 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

A 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 voitures 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.)

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 ⊕/⊖

⑥/⑩ Gris/Gris et Noir; Avant droite ⊕/⊖

⑦/⑪ Blanc/Blanc et Noir; Avant gauche ⊕/⊖

⑧/⑫ 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 enceintes en parallèle.

• 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 assourcit 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'assourdissement 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 entfernen, 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)

Sicherstellen Sie, 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

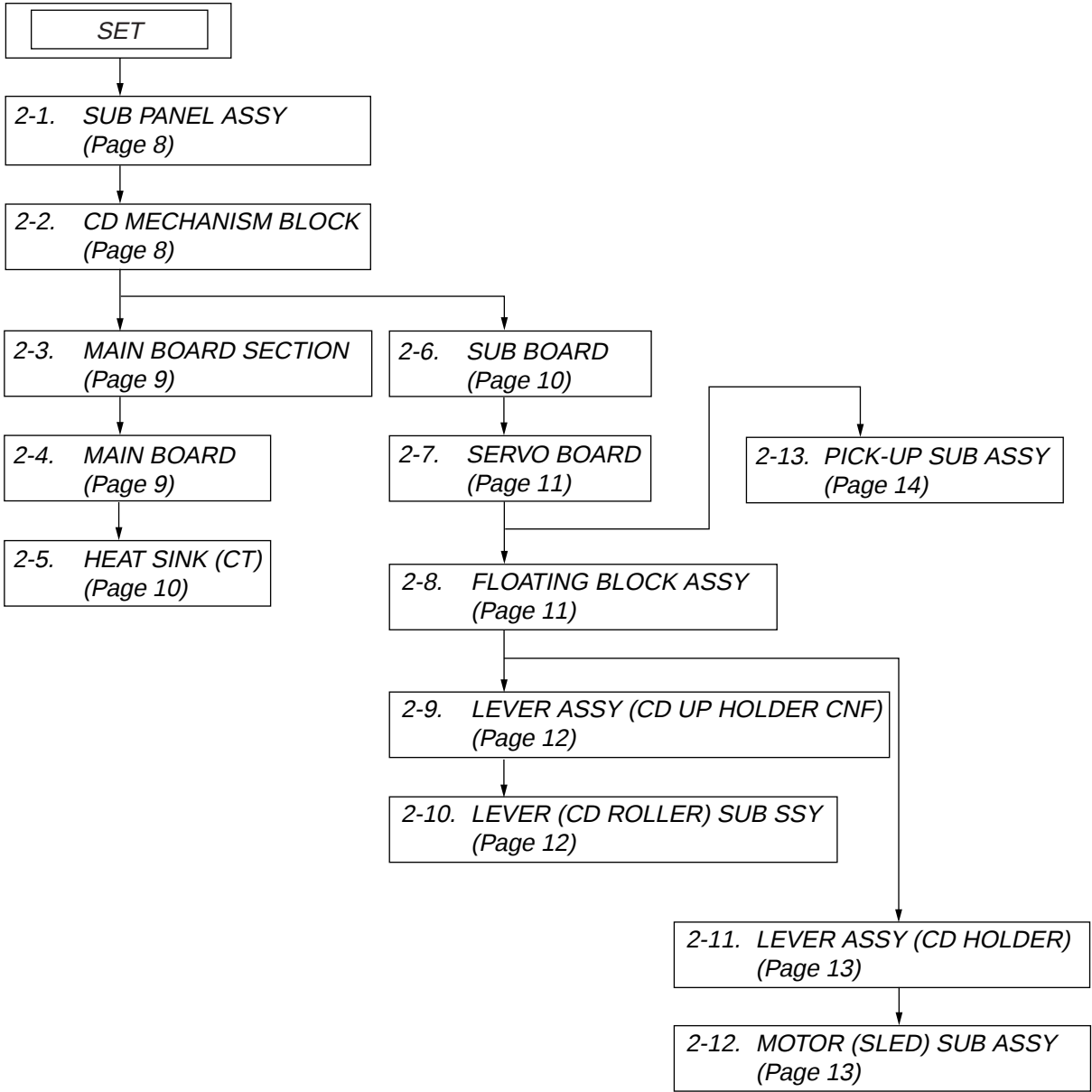
① Schwarz (Masseleitung zum Anschluß an die Fahrzeugkarosserie [Metall].)

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 schallerbetriebenen Motorantenne verwendet.

Wenn Sie die optionale Verstärkerendstufe mit dem Gerät verwenden wollen, diese Leitung an die Fernbedienungsklemme des Verstärkers anschließen.) (Max. Versorgungsstrom 0,1 A)

SECTION 2
DISASSEMBLY

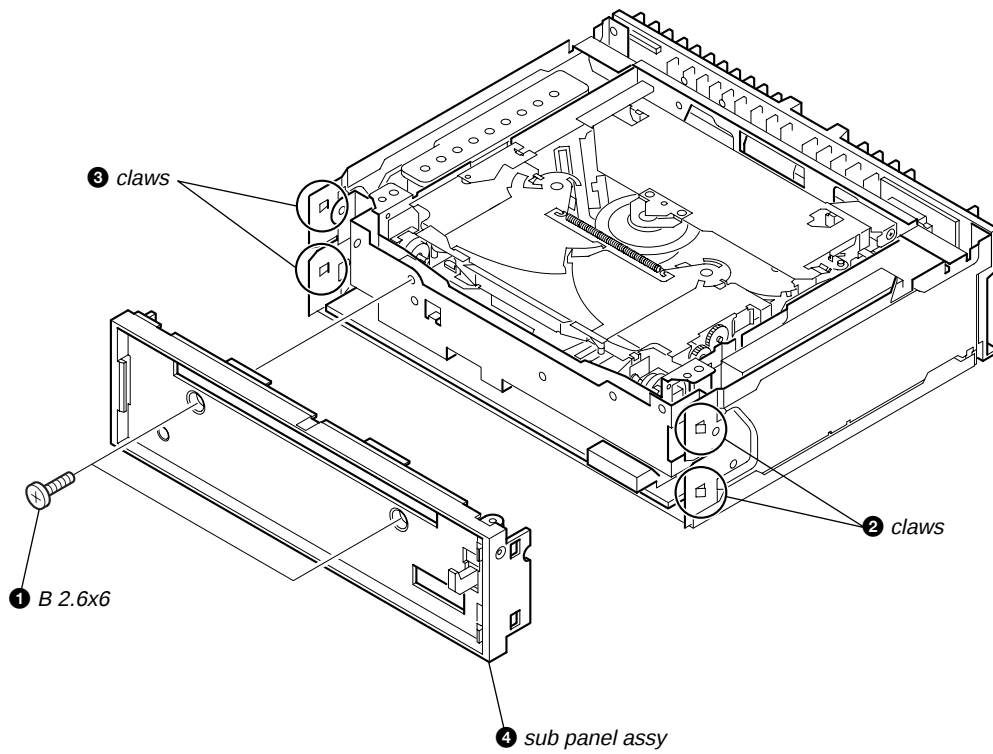
Note : This set can be disassemble according to the following sequence.



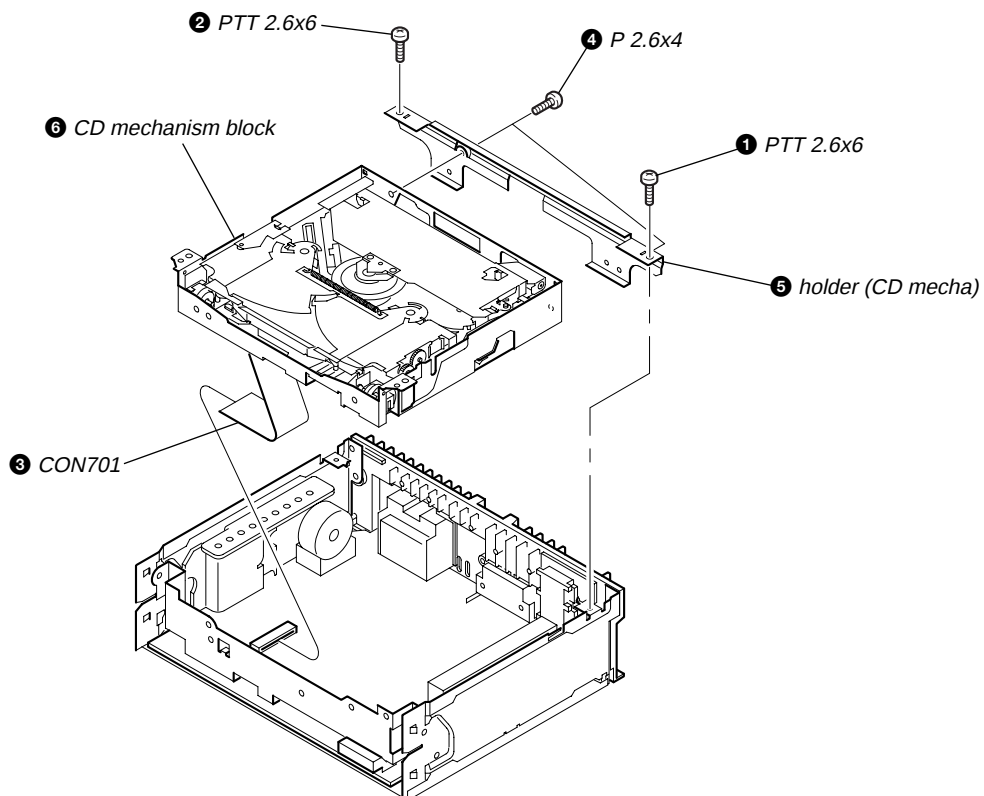
CDC-R30MP/X30MP

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

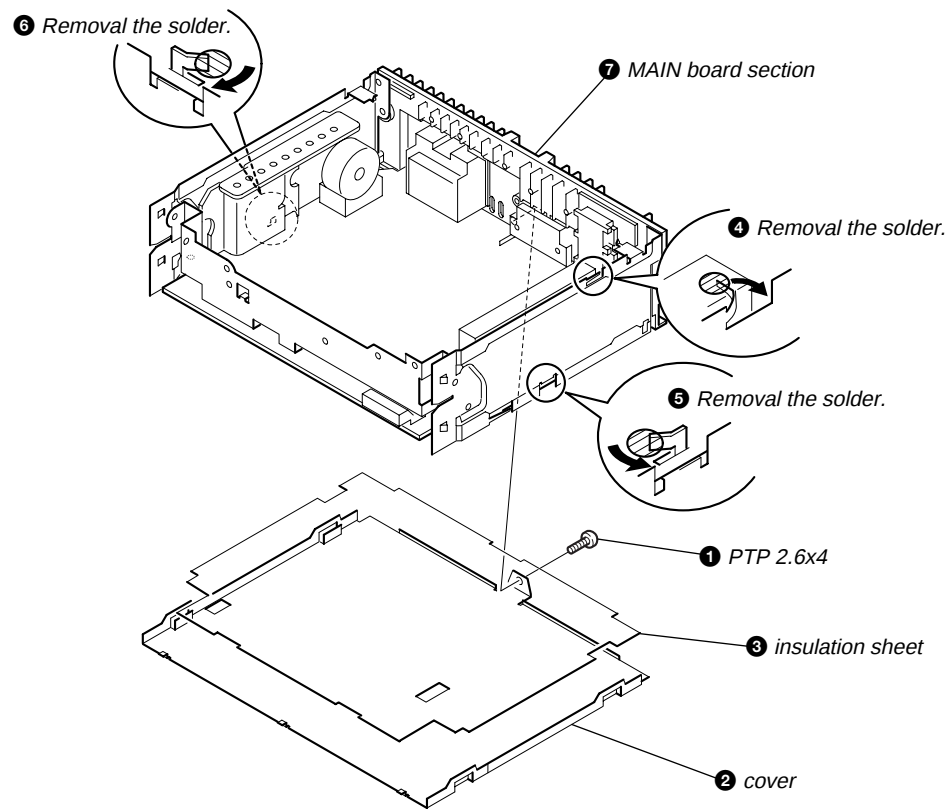
2-1. SUB PANEL ASSY



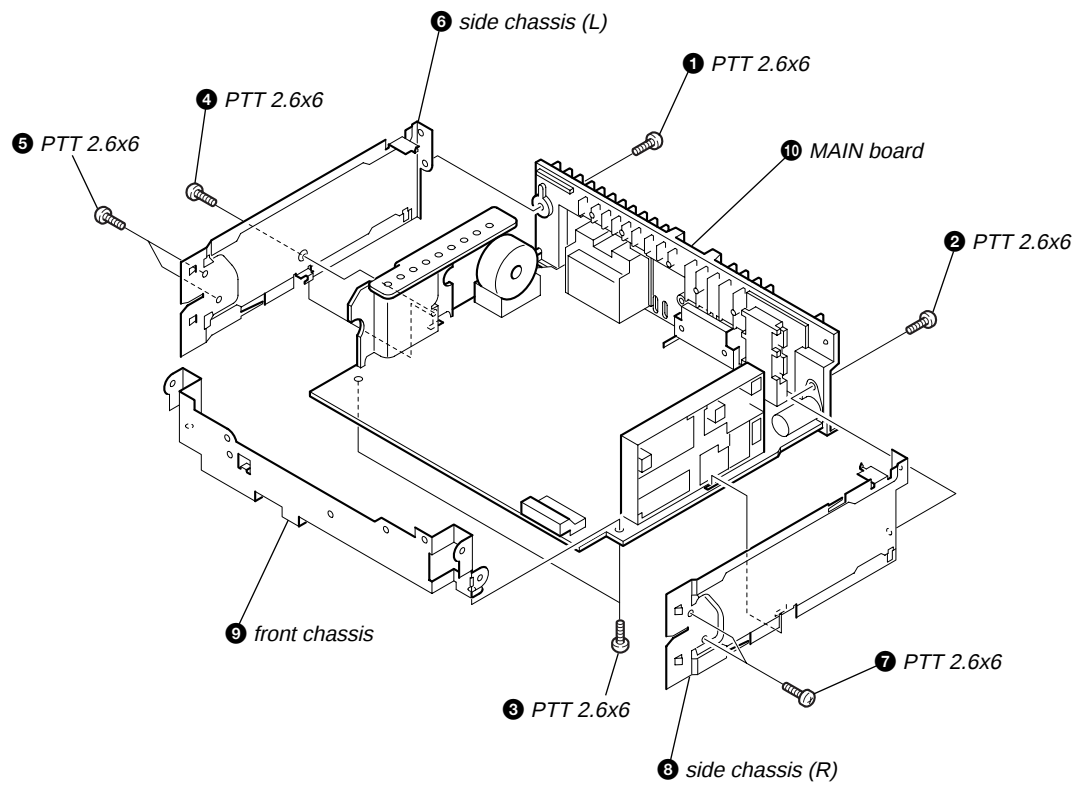
2-2. CD MECHANISM BLOCK



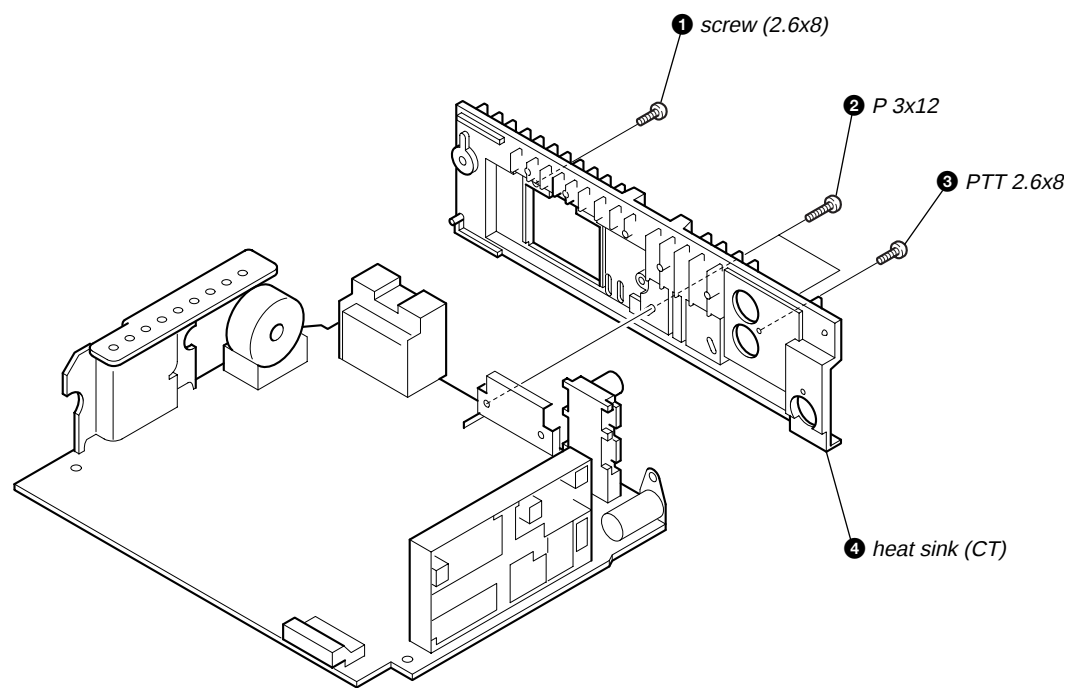
2-3. MAIN BOARD SECTION



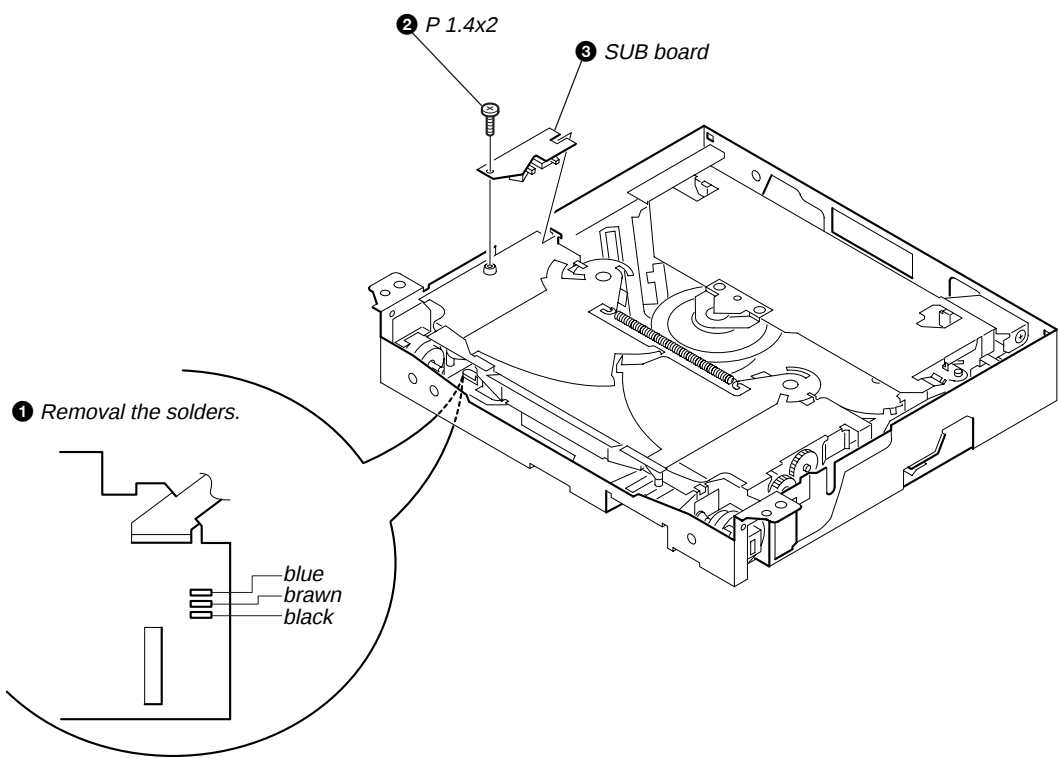
2-4. MAIN BOARD



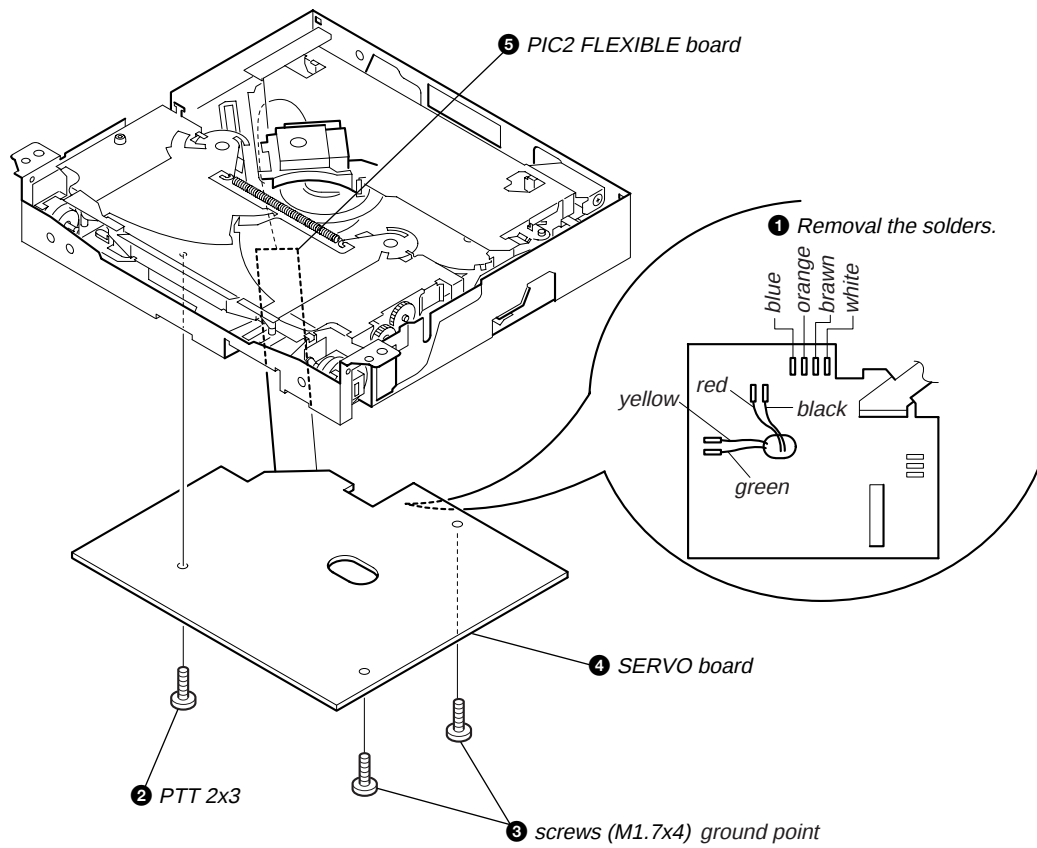
2-5. HEAT SINK (CT)



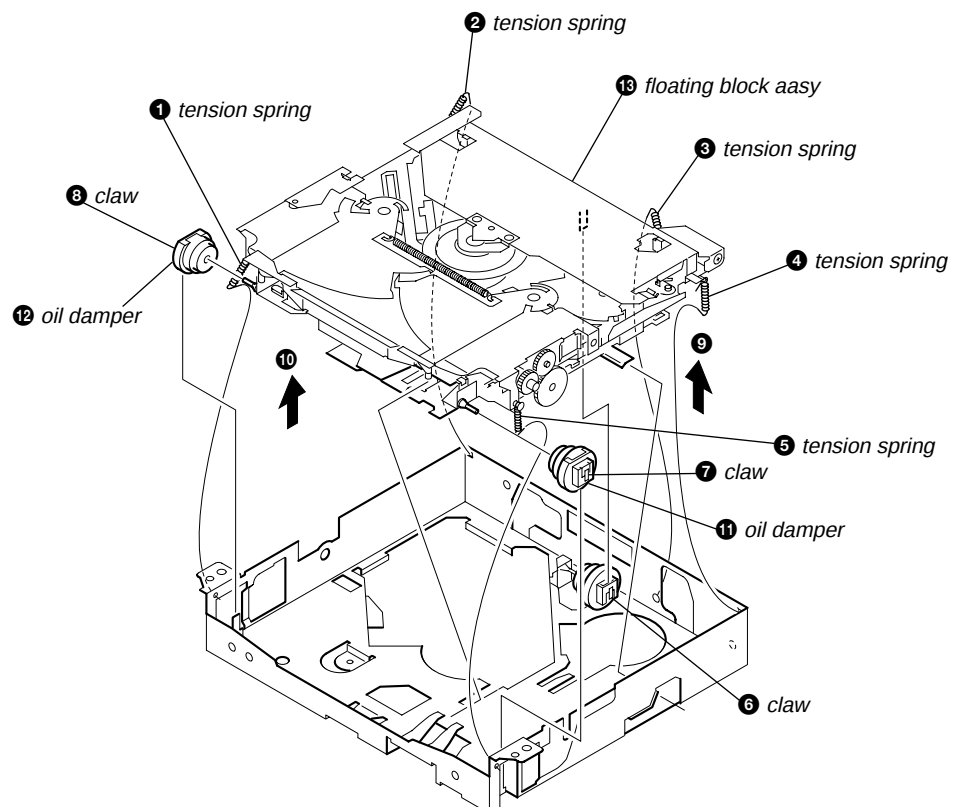
2-6. SUB BOARD



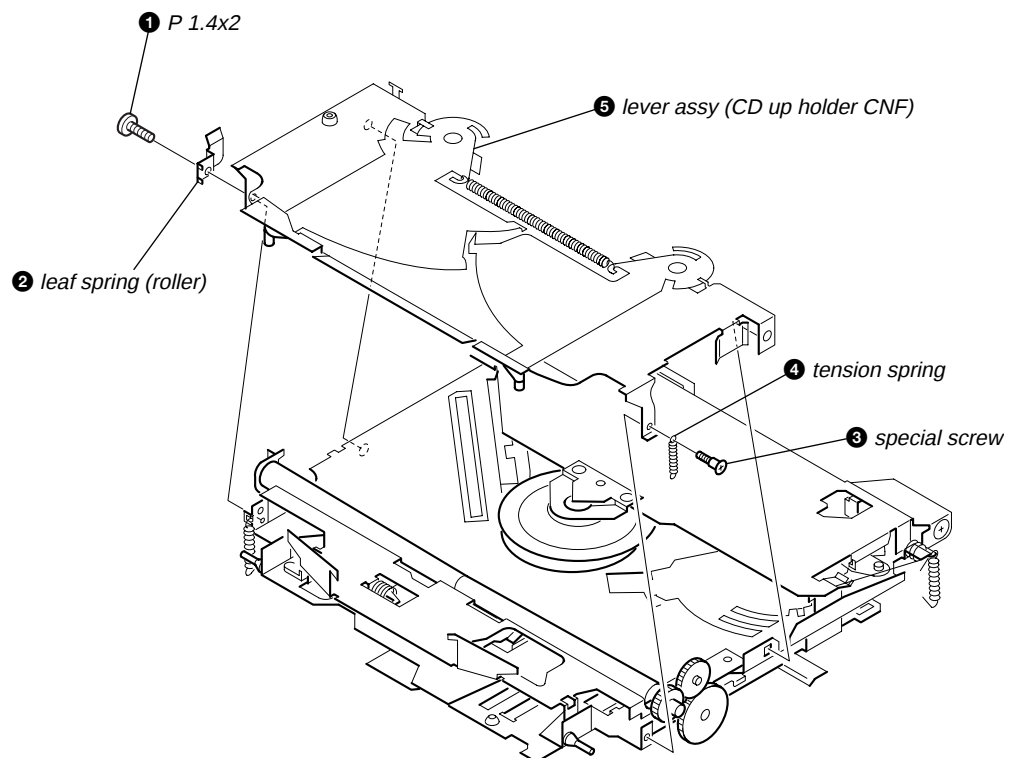
2-7. SERVO BOARD



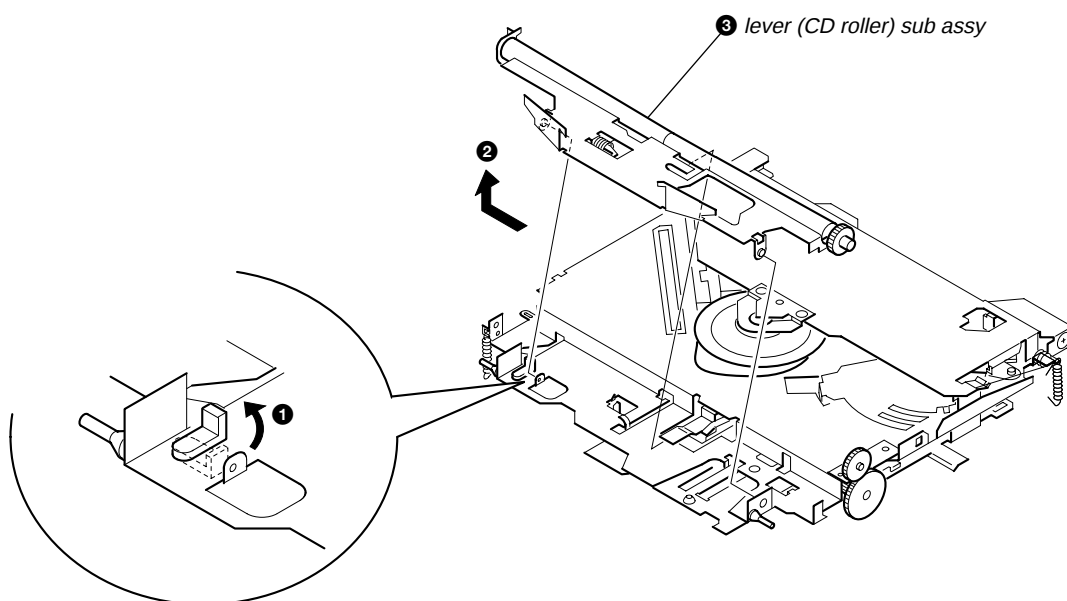
2-8. FLOATING BLOCK ASSY

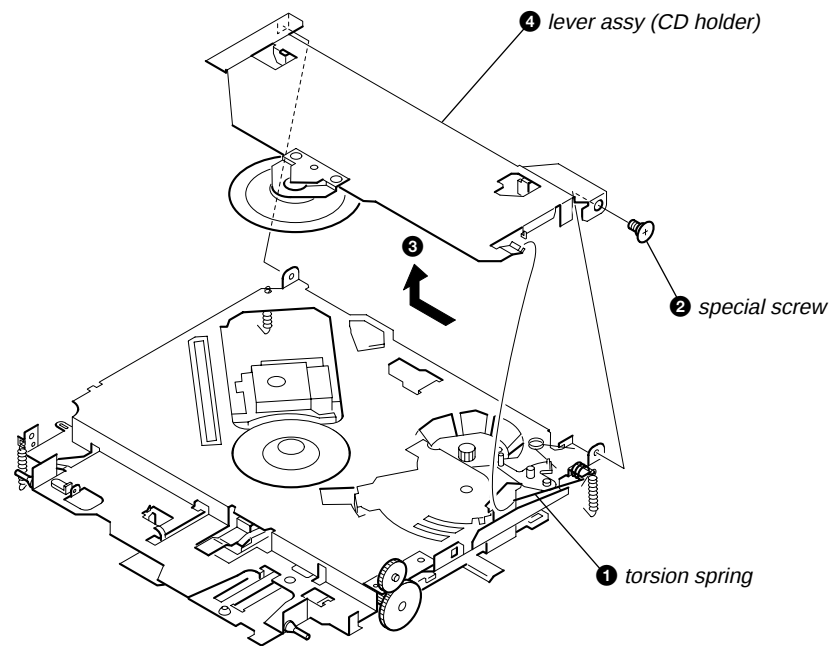
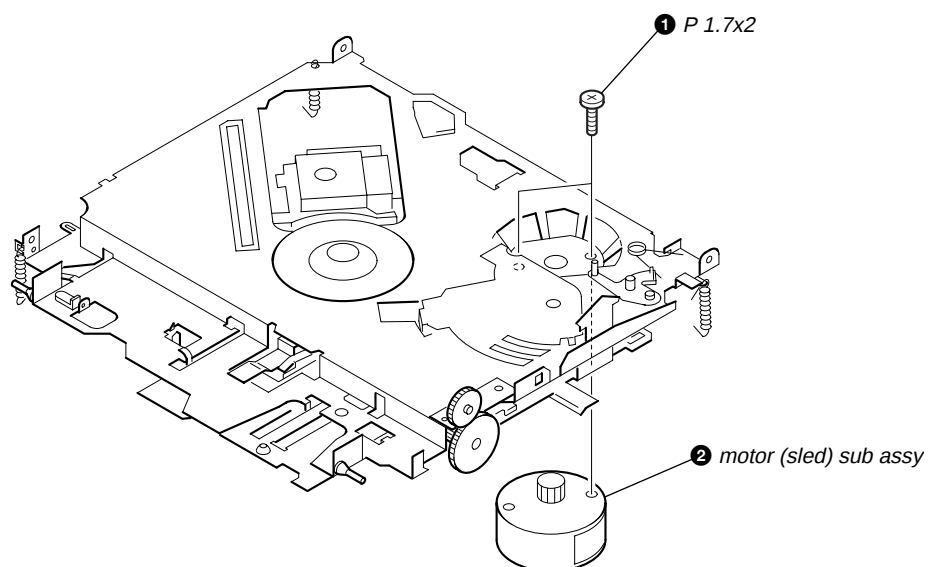


2-9. LEVER ASSY (CD UP HOLDER CNF)

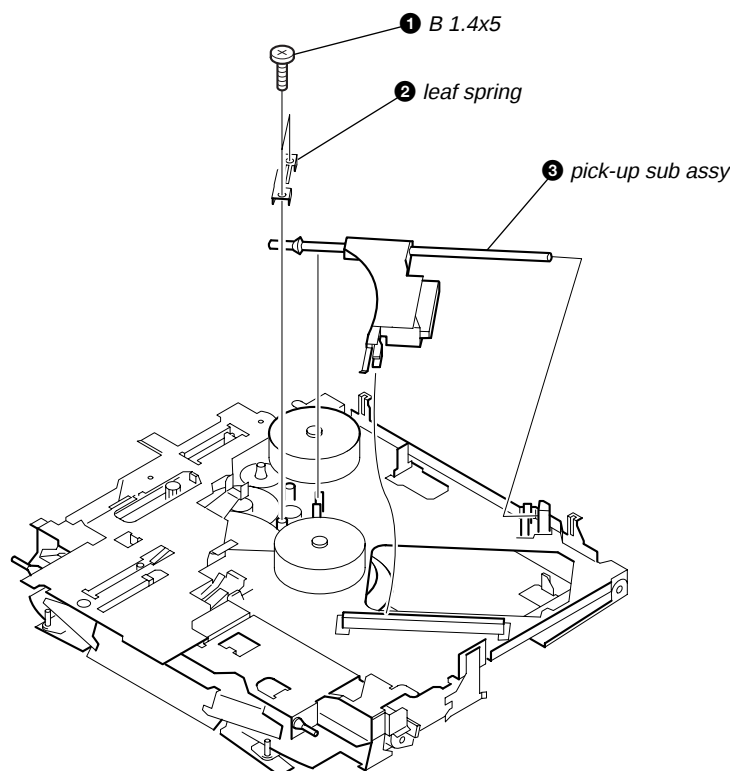


2-10. LEVER (CD ROLLER) SUB ASSY



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 μ V (EMF)

1 kHz (Modulation Frequency)

45 kHz DEV

Check point: S.METER test point

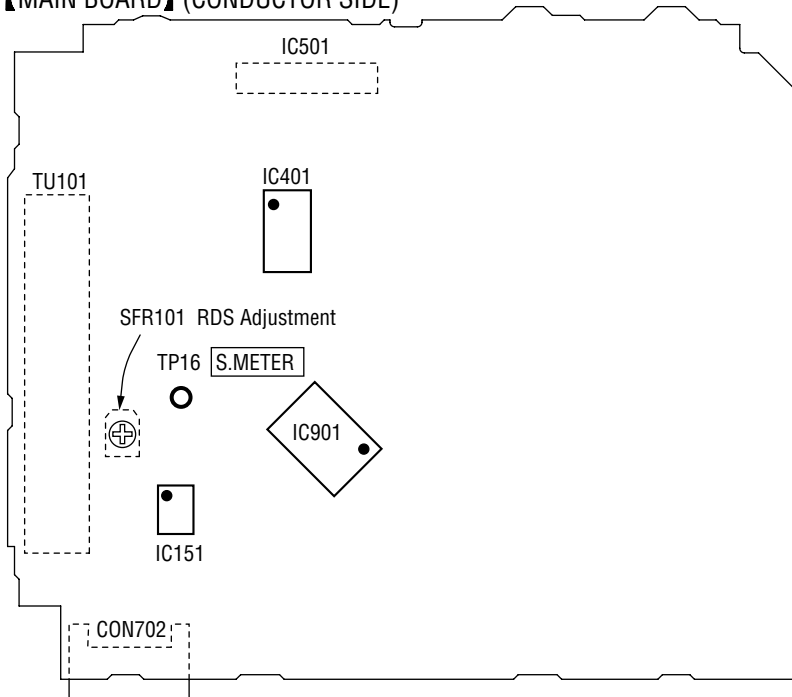
Adjustment location: SFR101

Specification: 2.0 ± 0.1 V

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

Adjustment Location:

【MAIN BOARD】 (CONDUCTOR SIDE)



SECTION 4 DIAGRAMS

4-1. IC PIN DESCRIPTIONS

• IC201 μ 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

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 μ 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 strob 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)

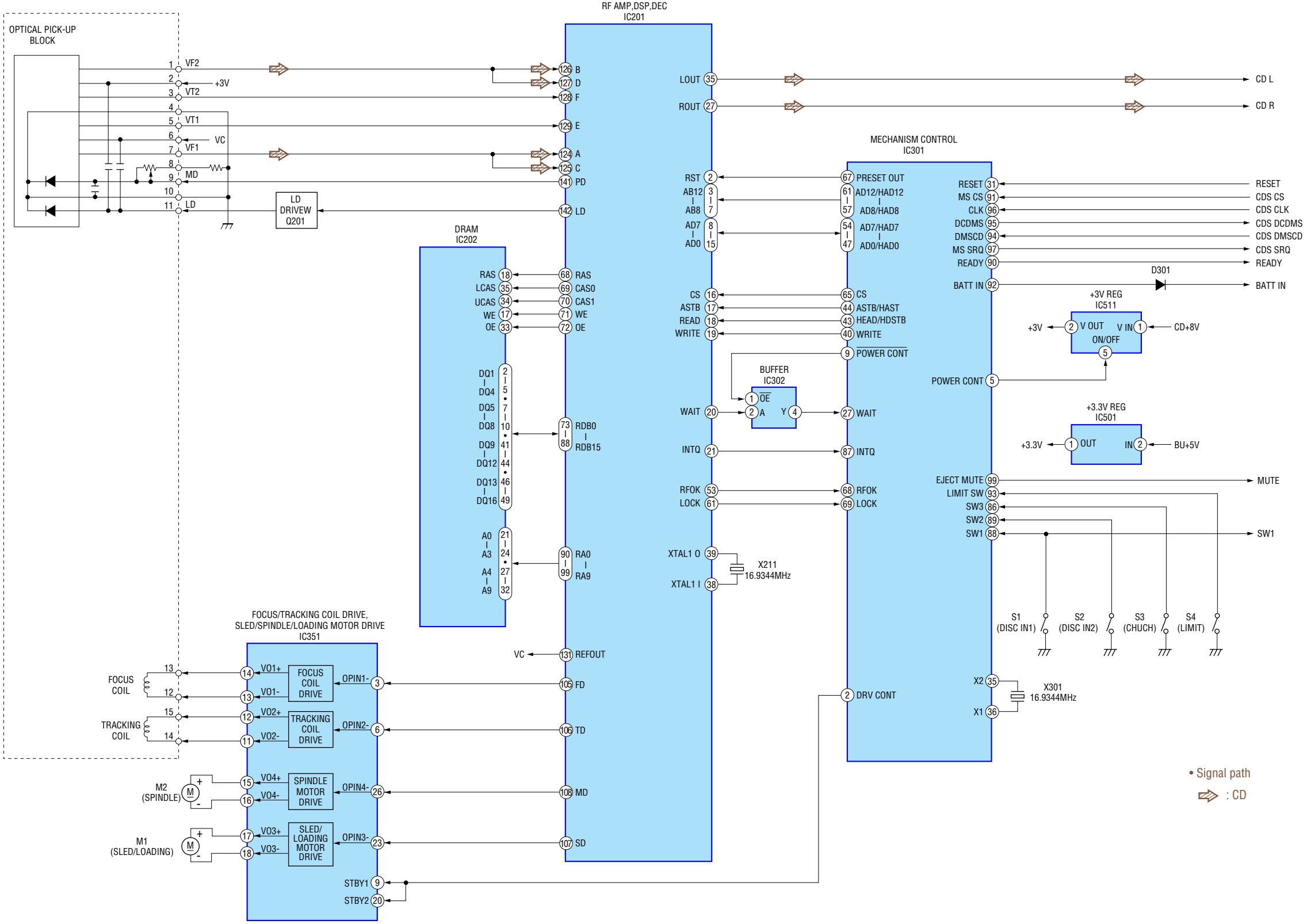
- IC901 μ PD178076GF-572-3BA (SYSTEM CONTROL) (MAIN BOARD) (CDC-X30MP)
- IC901 μ PD178078GF-590-3BA (SYSTEM CONTROL) (MAIN BOARD) (CDC-R30MP)

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

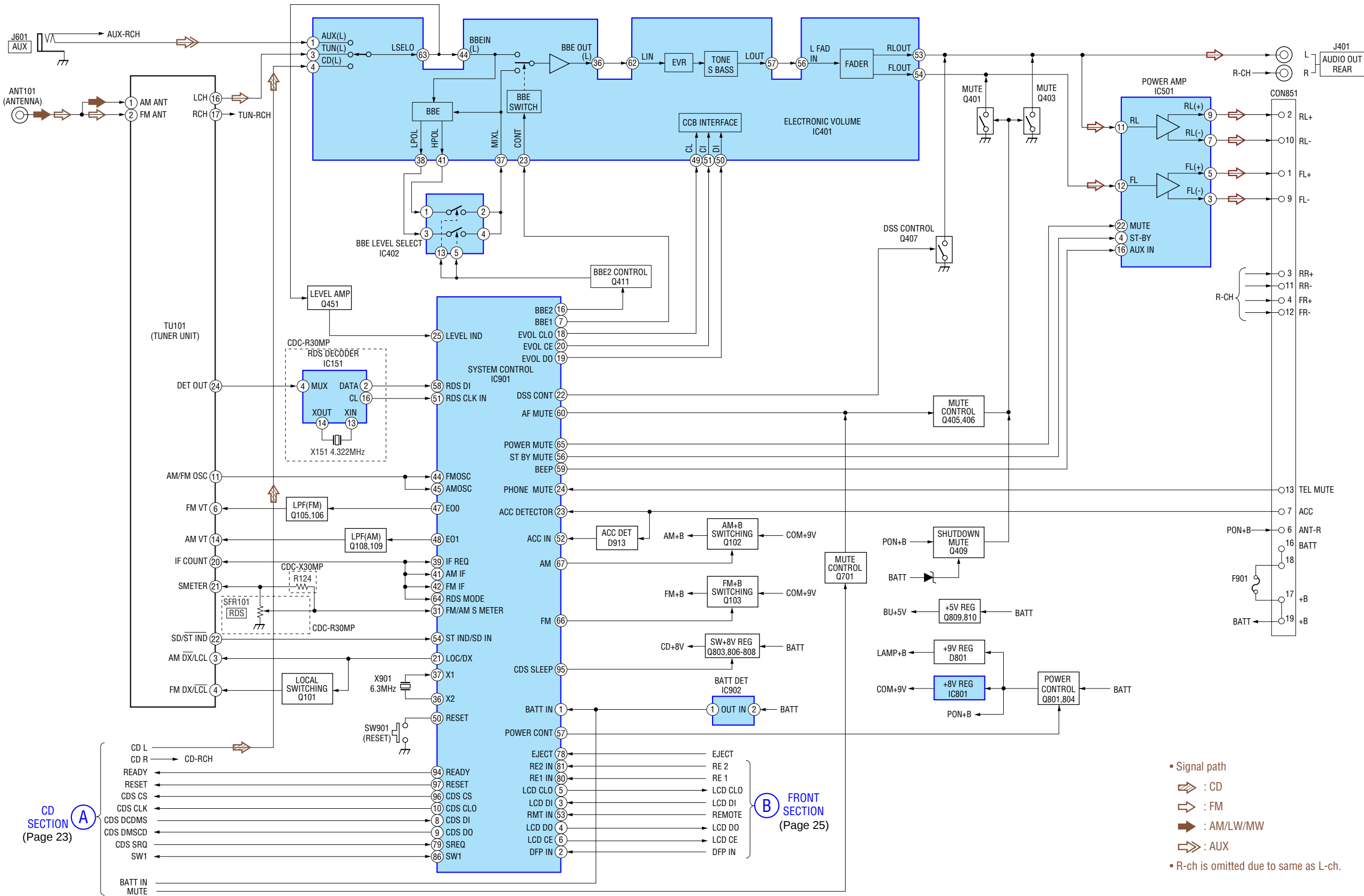
Pin No.	Pin Name	I/O	Pin Description
56	ST-BY MUTE	O	Standby mute signal output to the power amp IC (IC501)
57	POWER CONT	O	Power control signal output
58	RDS DI	I	CDC-R30MP: RDS data signal input from the RDS IC (IC151) CDC-X30MP: Not used in this set. (Connected to ground.)
59	BEEP	O	Beep signal output 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 —

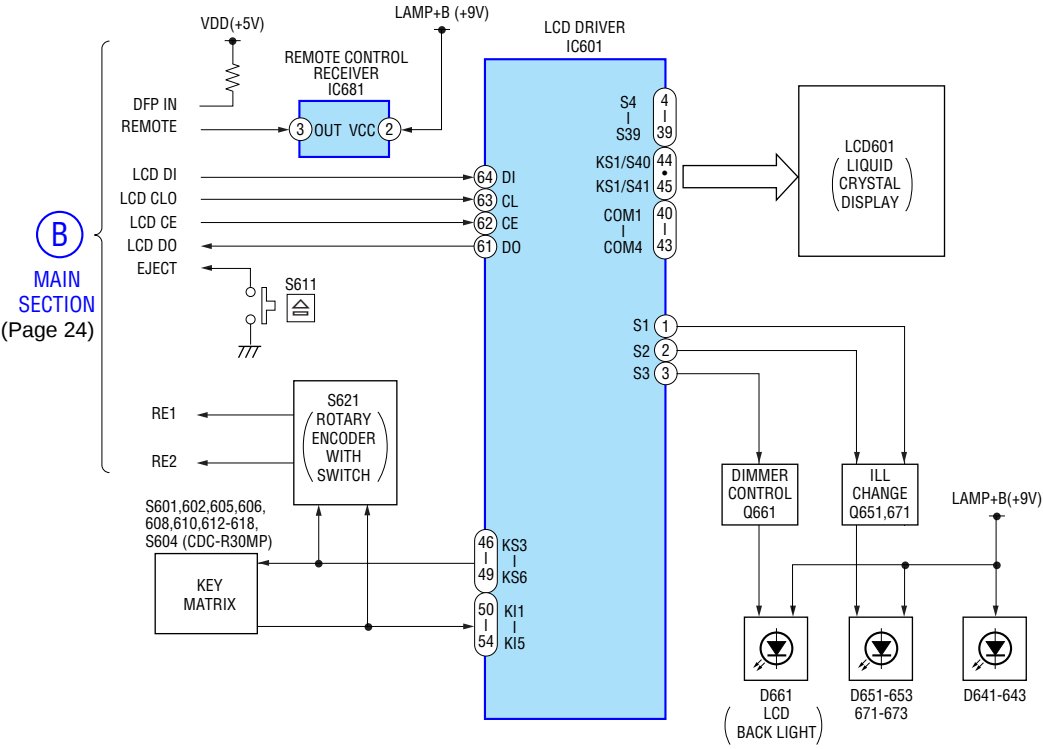


A MAIN SECTION (Page 24)

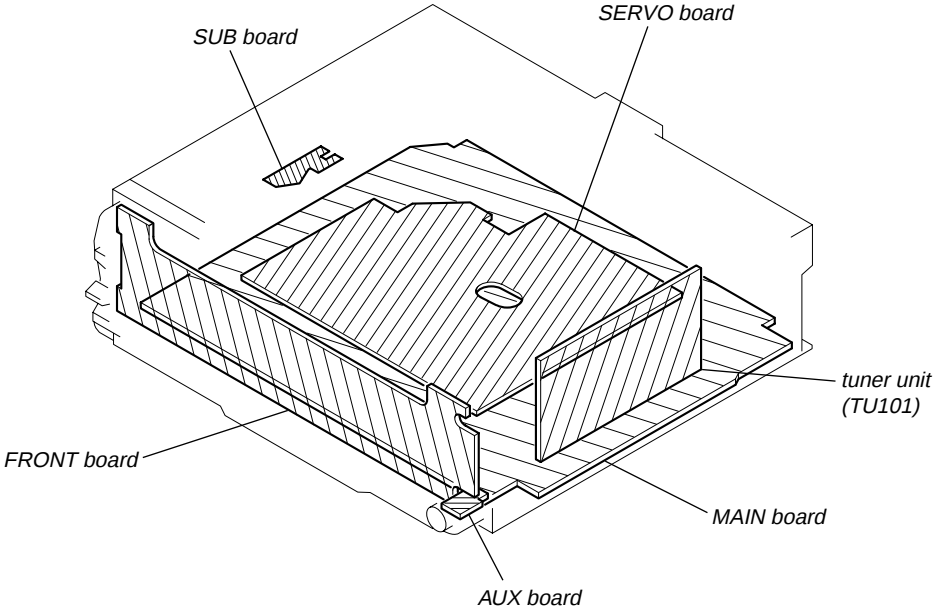
4-3. BLOCK DIAGRAM — MAIN SECTION —



4-4. BLOCK DIAGRAM — FRONT SECTION —

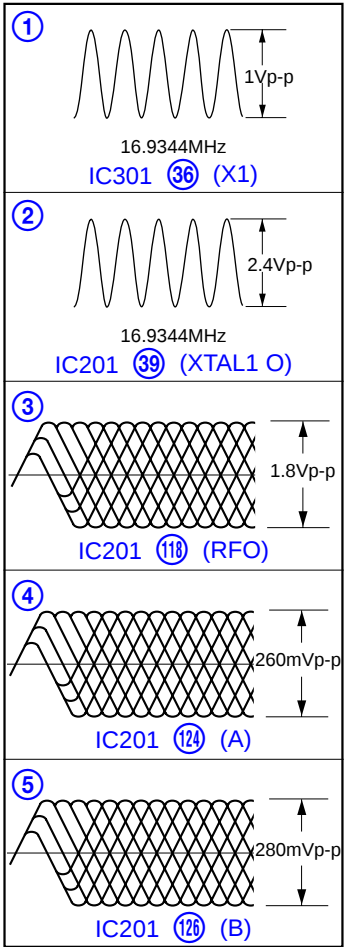


4-5. CIRCUIT BOARDS LOCATION

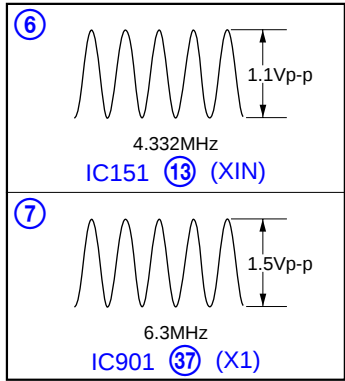


• Waveforms

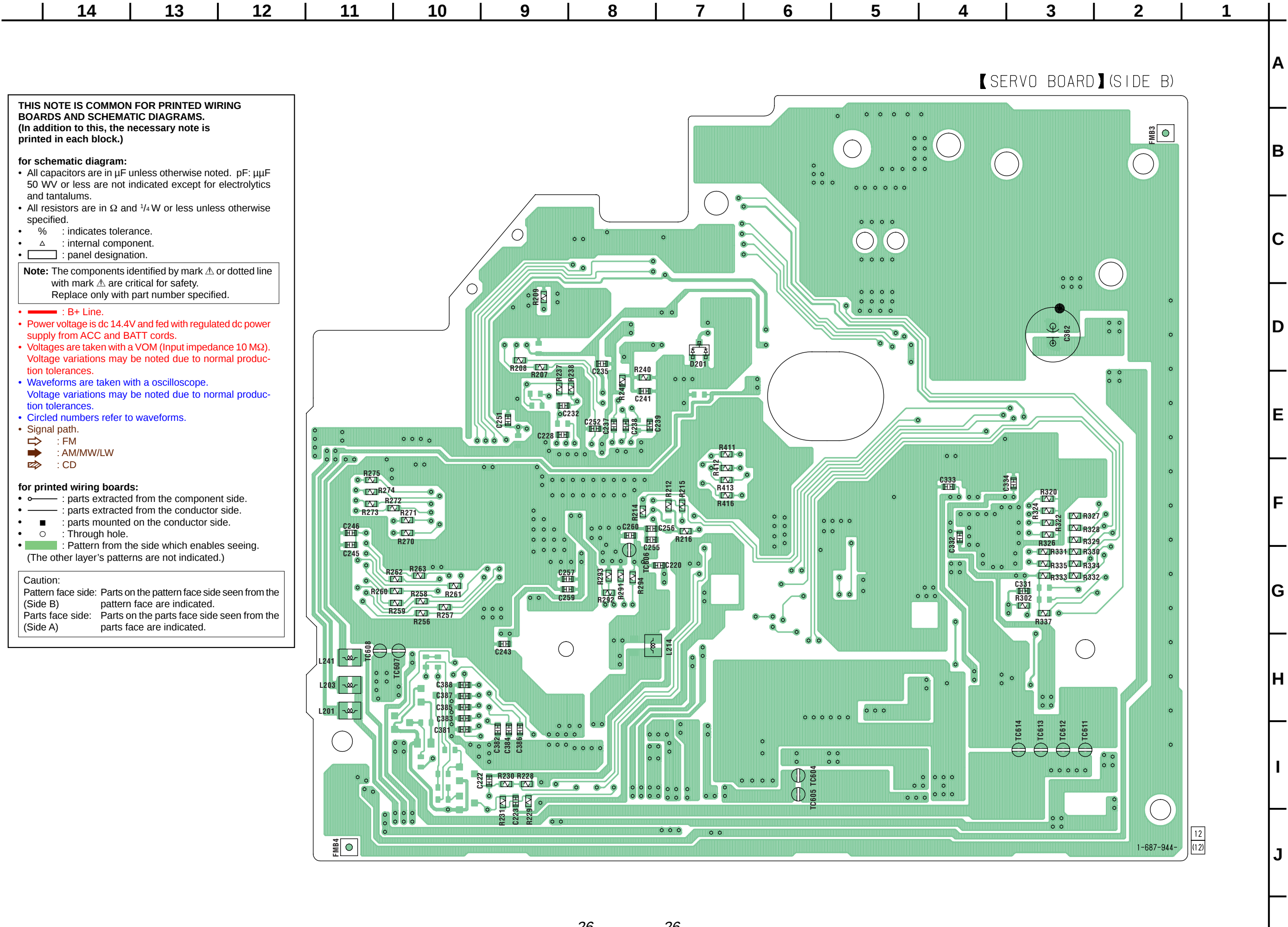
— Servo Board —
(MODE: CD PLAY)

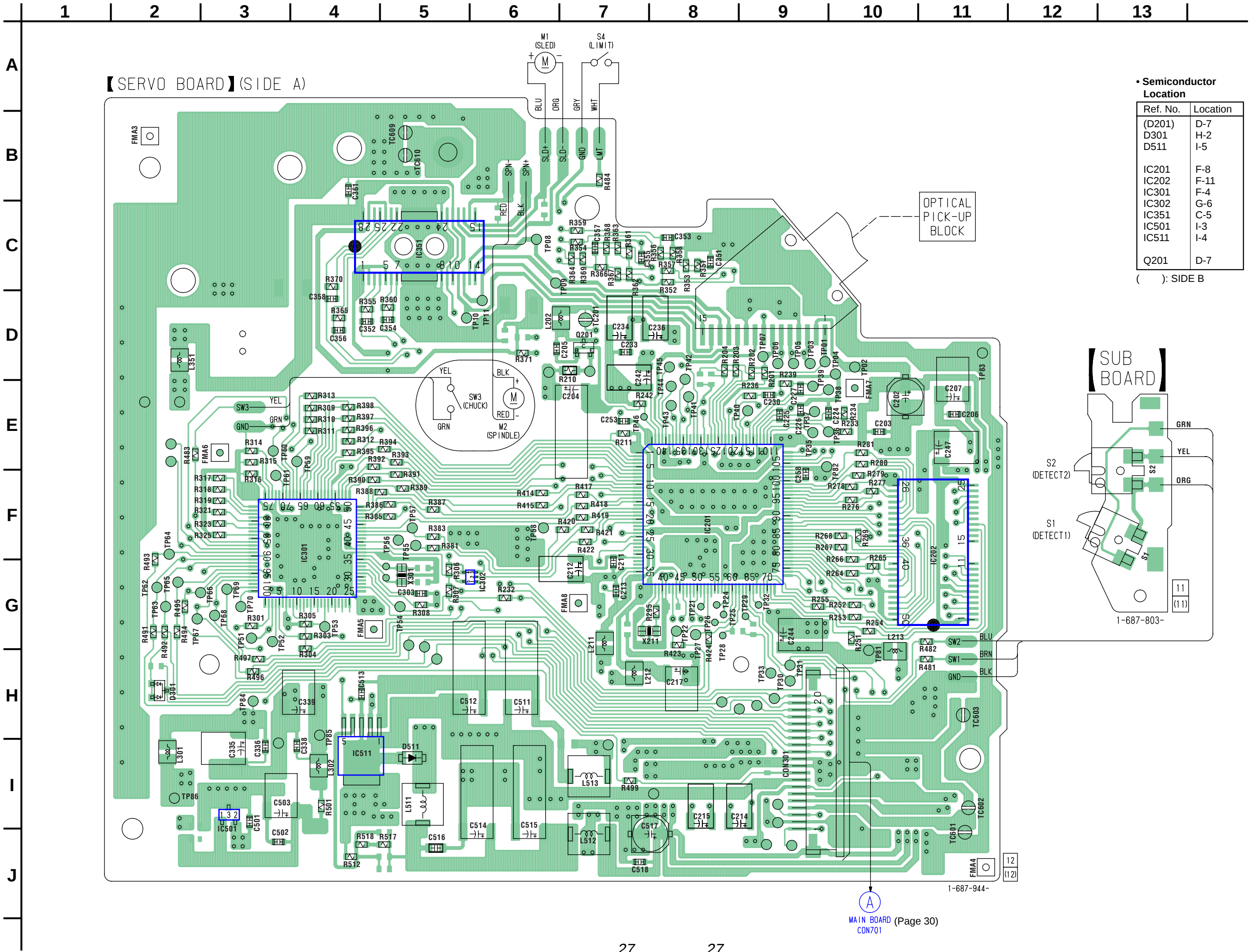


— Main Board —



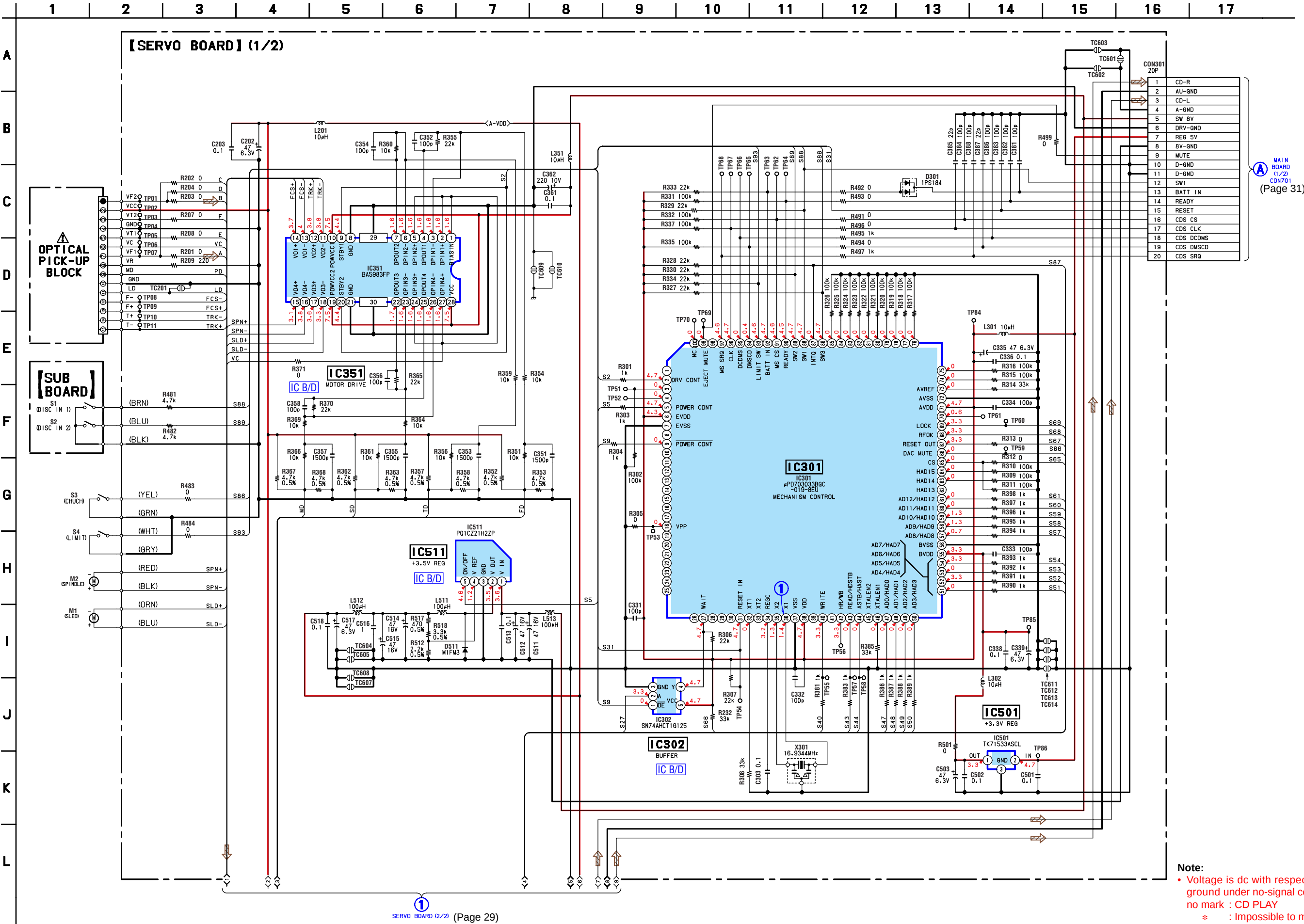
4-6. PRINTED WIRING BOARDS — CD MECHANISM SECTION — • Refer to page 25 for Circuit Boards Location.





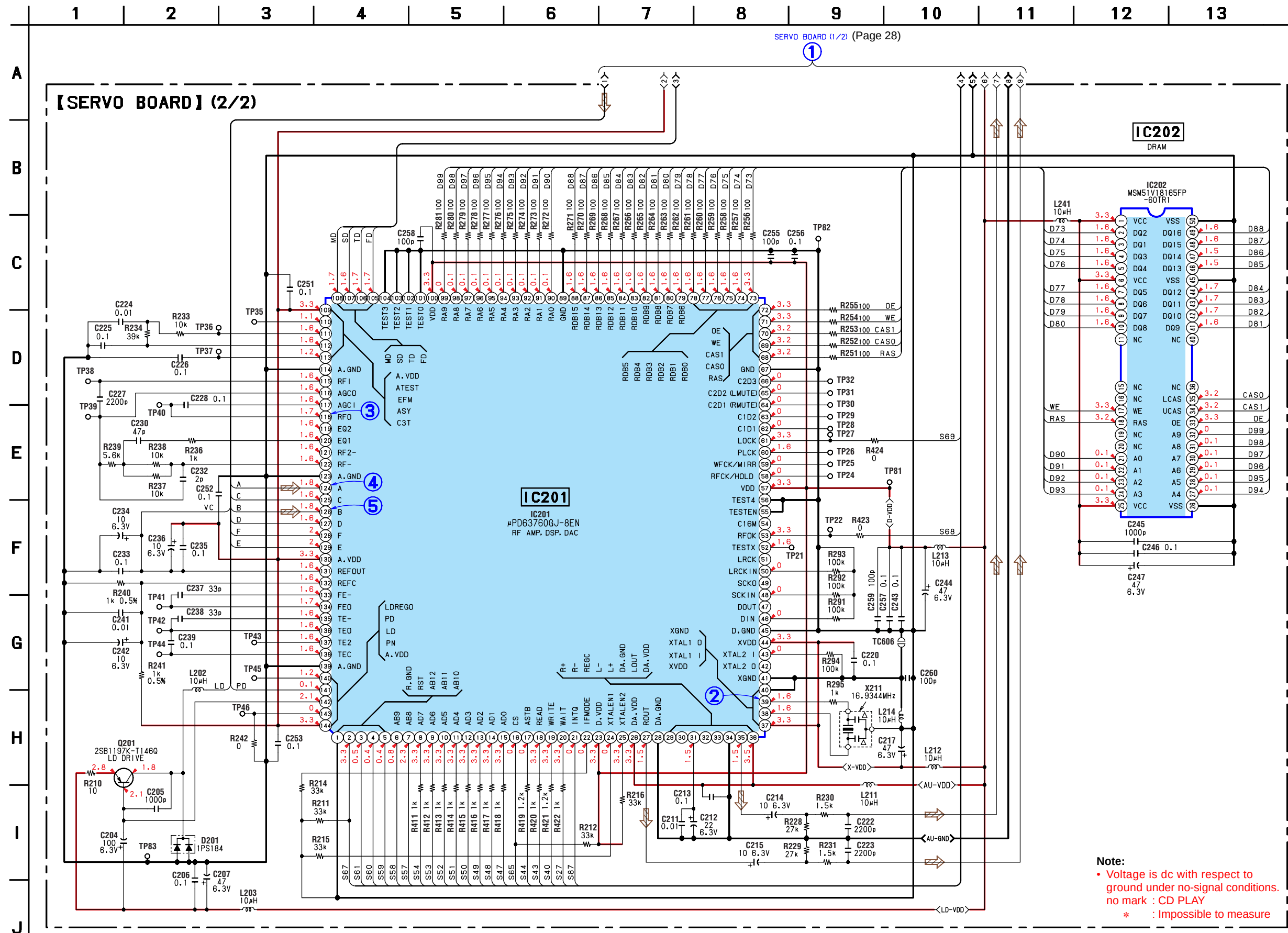
• Refer to page 25 for Waveform.

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

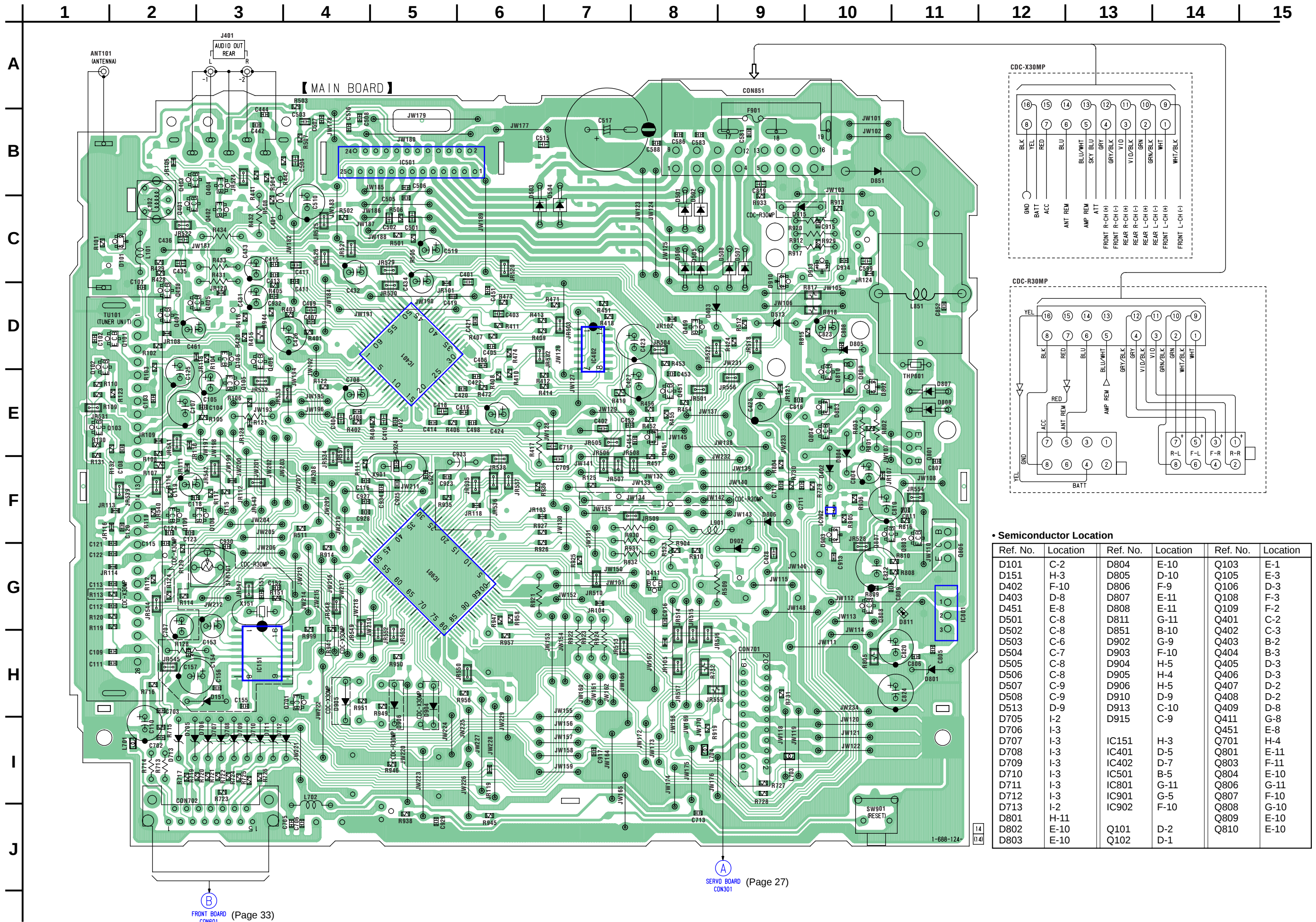


MAIN BOARD (1/2) CON701 (Page 31)

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



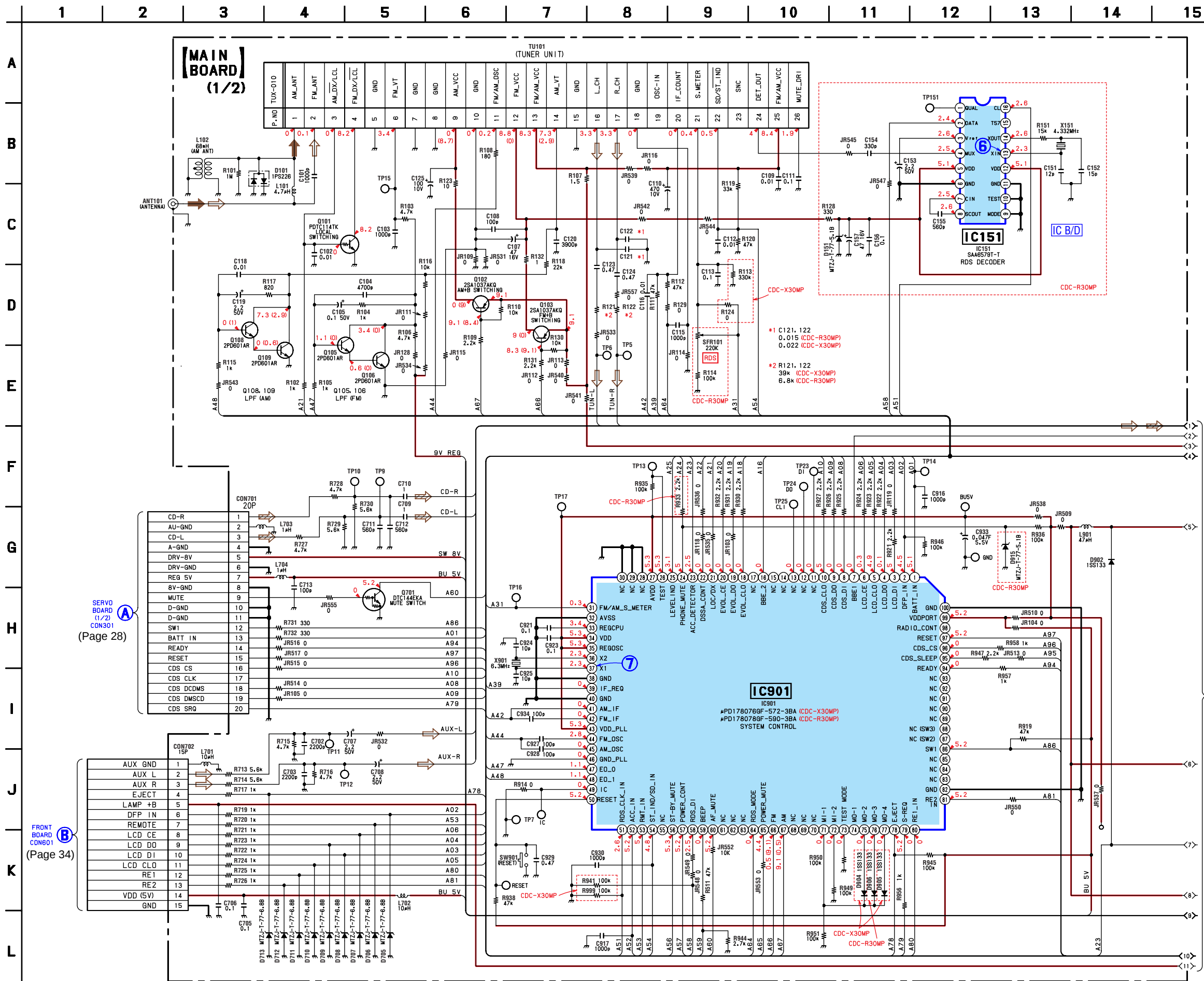
4-9. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 25 for Circuit Boards Location.



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		

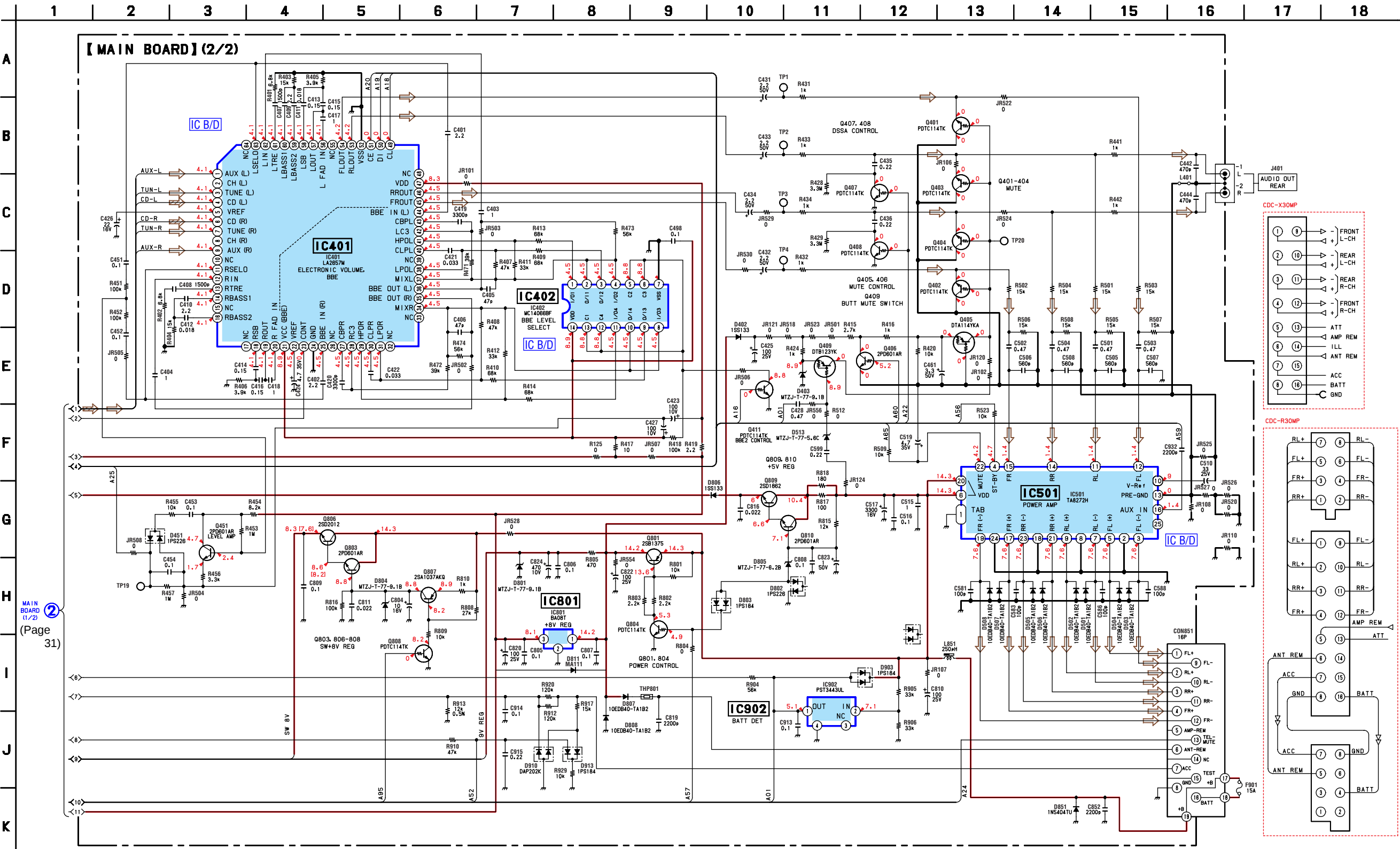
• Refer to page 25 for Waveforms.

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



2 MAIN BOARD (2/2) (Page 32)

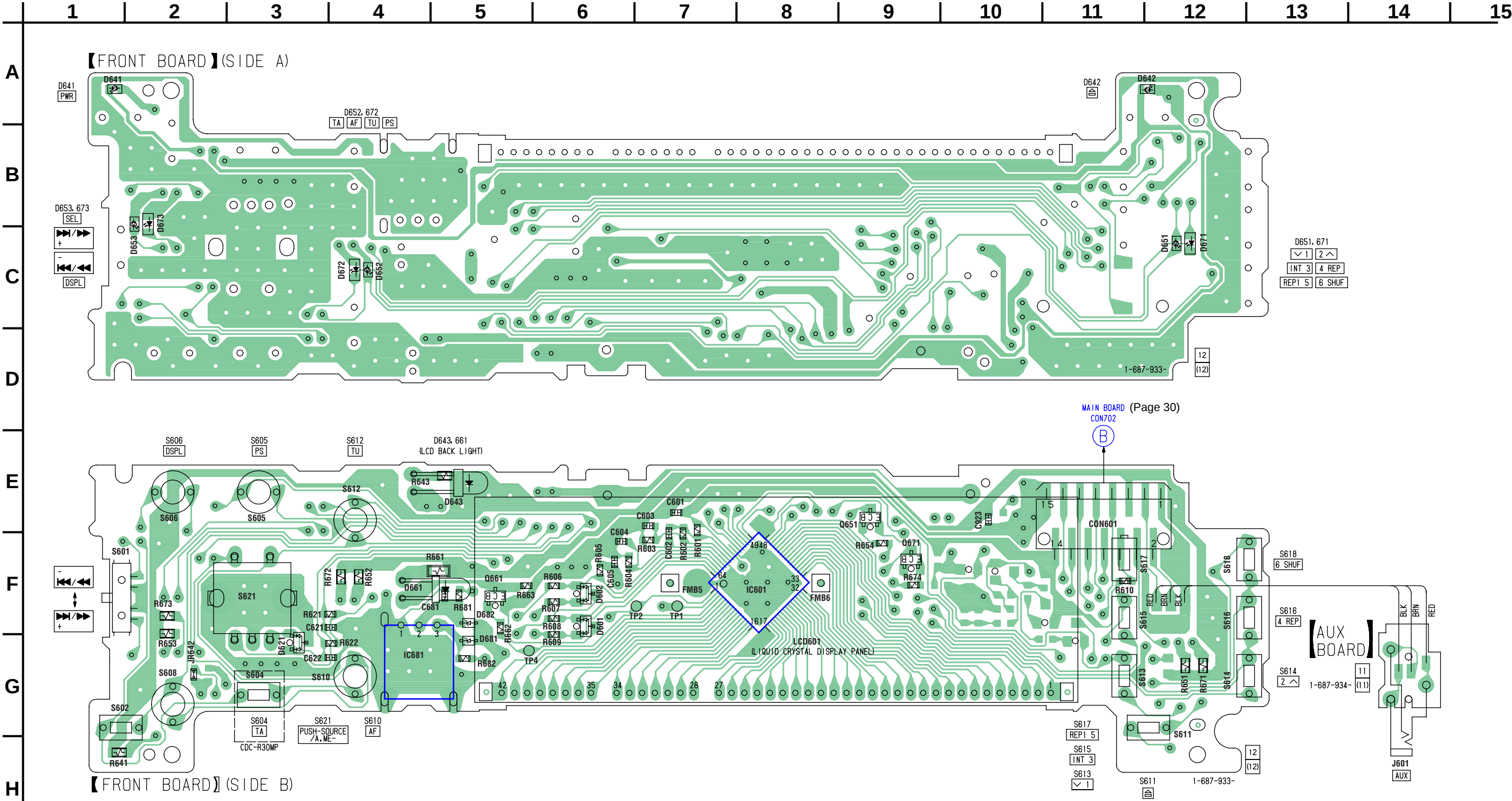
4-11. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 36 for IC Block Diagrams.



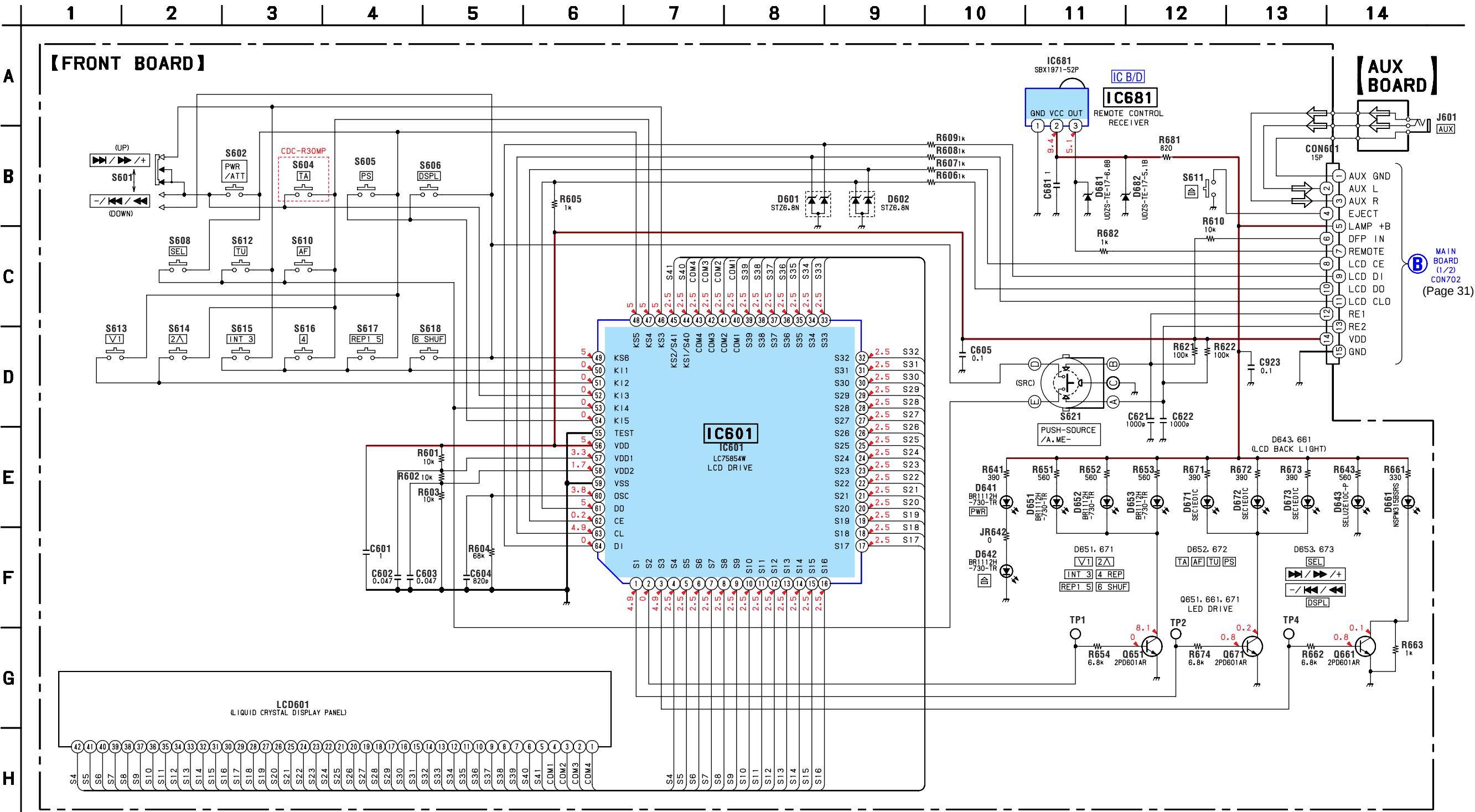
MAIN BOARD (1/2)
(Page 31)

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.



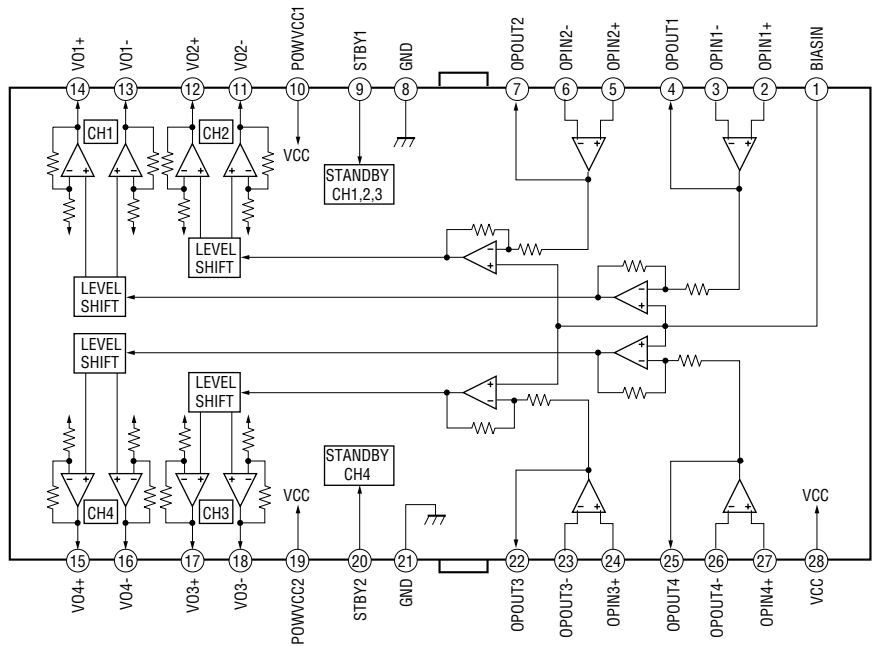
4-13. SCHEMATIC DIAGRAM — FRONT SECTION — • Refer to page 37 for IC Block Diagram.



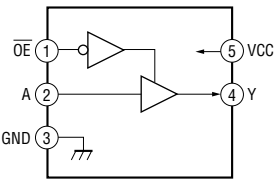
Note:
• Voltage is dc with respect to ground under no-signal conditions.
no mark : FM
* : Impossible to measure

4-14. IC BLOCK DIAGRAMS

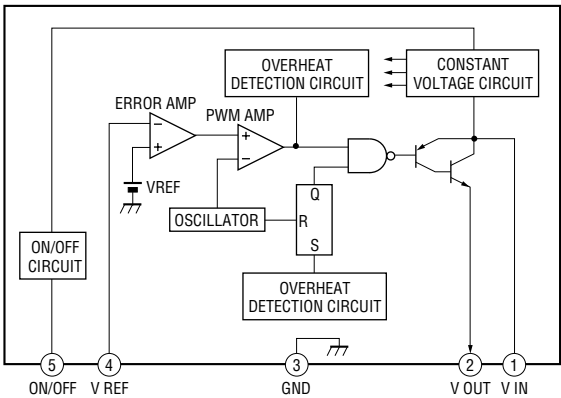
IC351 BA5983FP (SERVO Board)



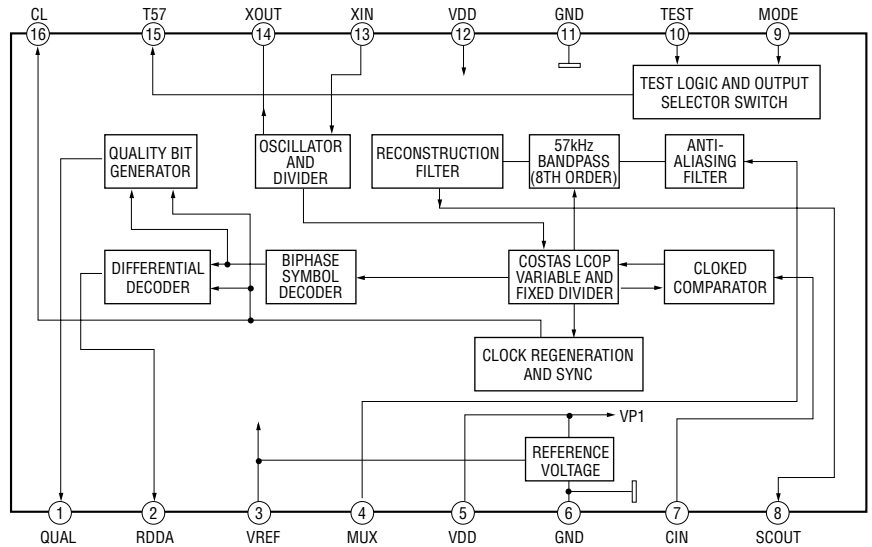
IC302 SN74AHCT (SERVO Board)



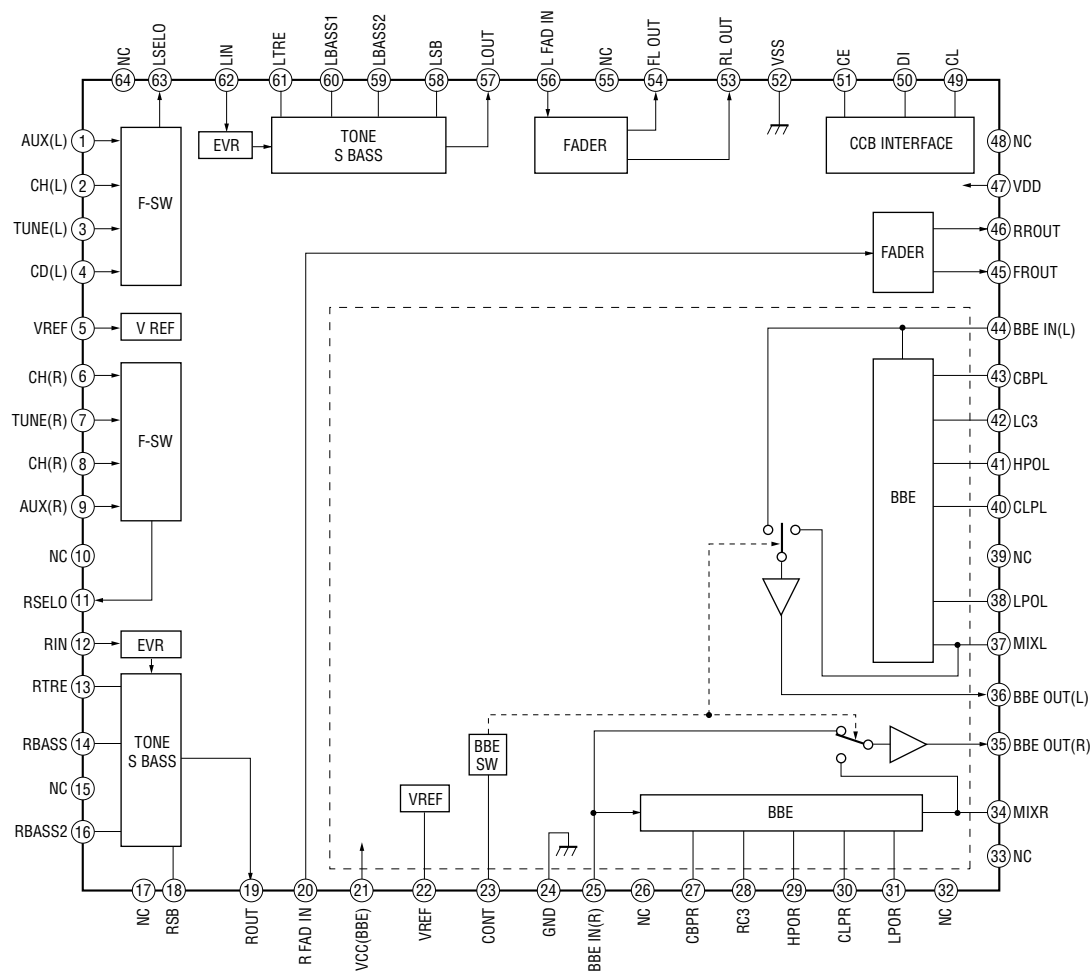
IC511 PQ1CZ21H2ZP (SERVO Board)



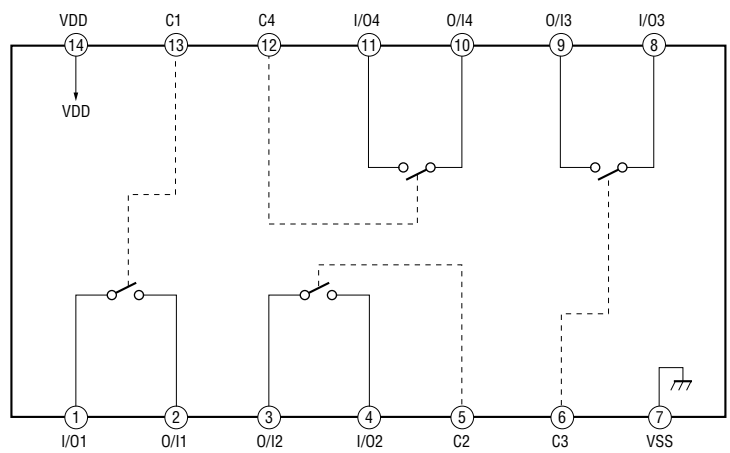
IC151 SAA6579T-T (MAIN Board)



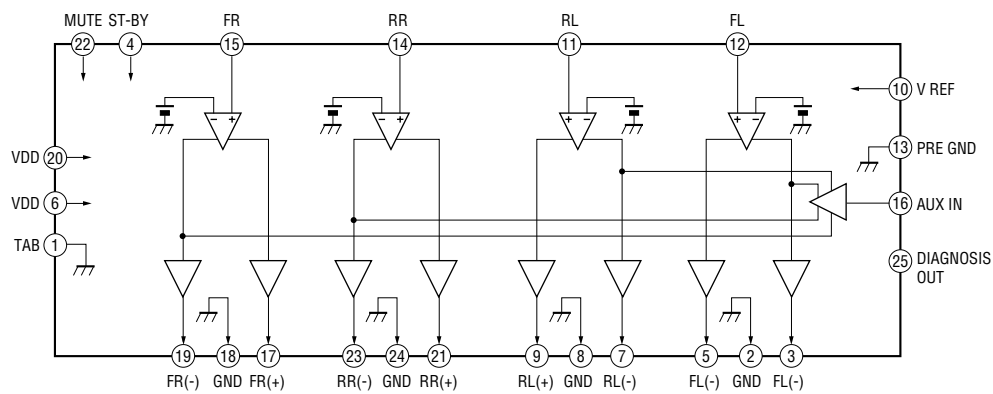
IC401 LA2657M (MAIN Board)



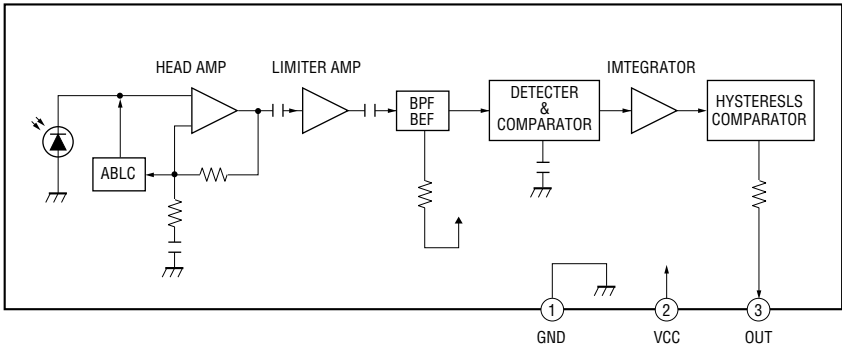
IC402 BU4066BCF (MAIN Board)



IC501 TA8272H (MAIN Board)



IC681 SBX1971-52P (FRONT Board)



SECTION 5
EXPLODED VIEWS

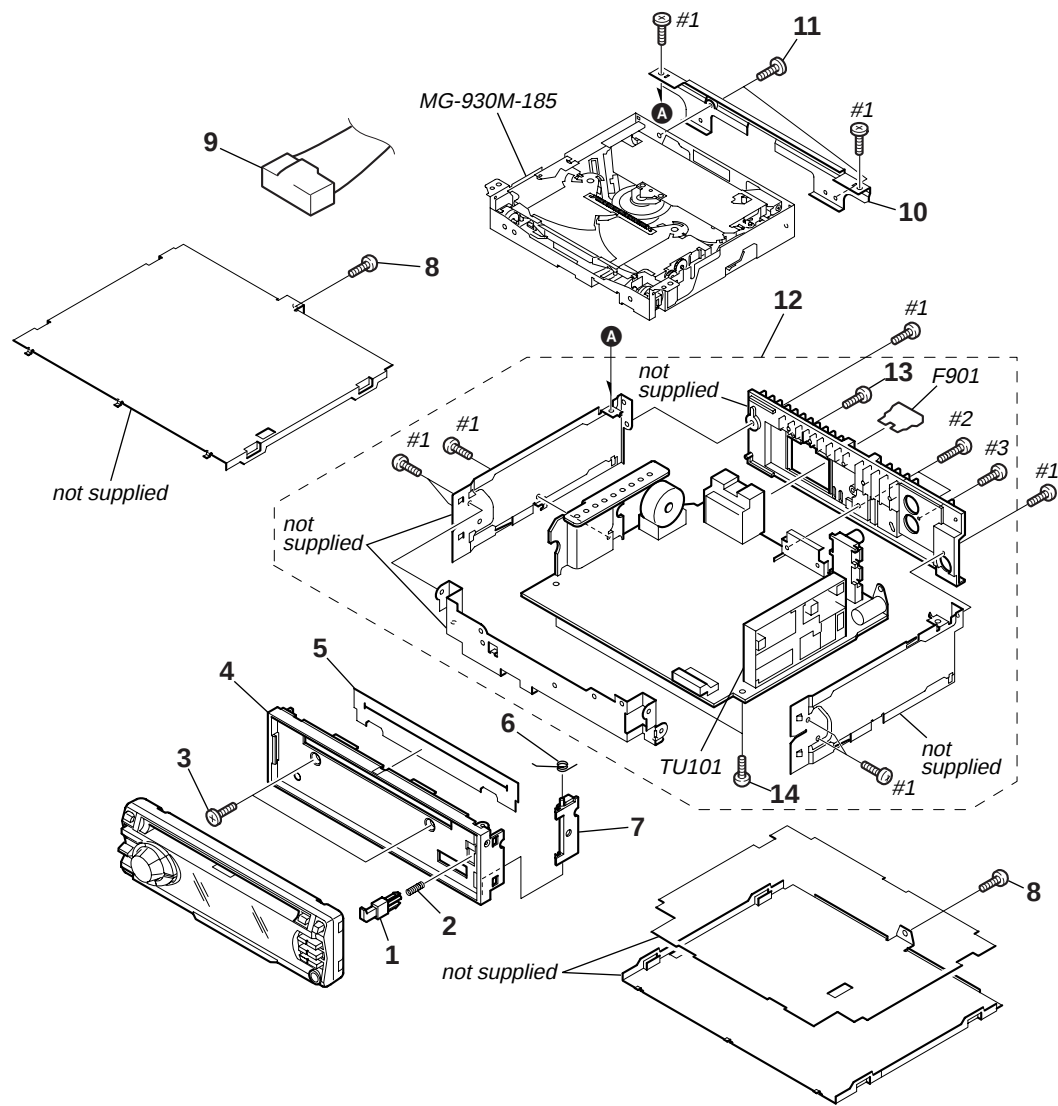
- NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
 - Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
Example :
KNOB, BALANCE (WHITE) ... (RED)
Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.

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

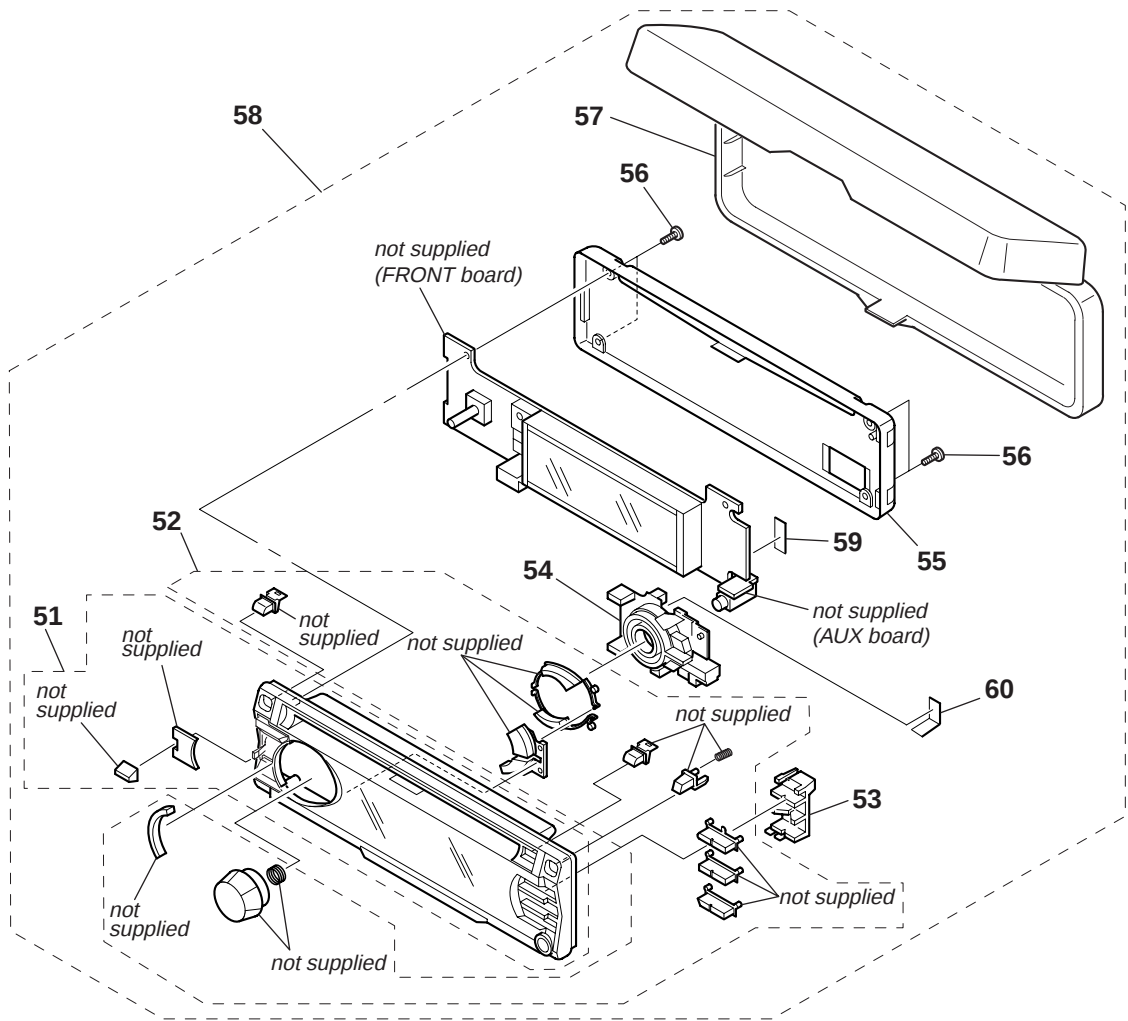
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. CHASSIS SECTION



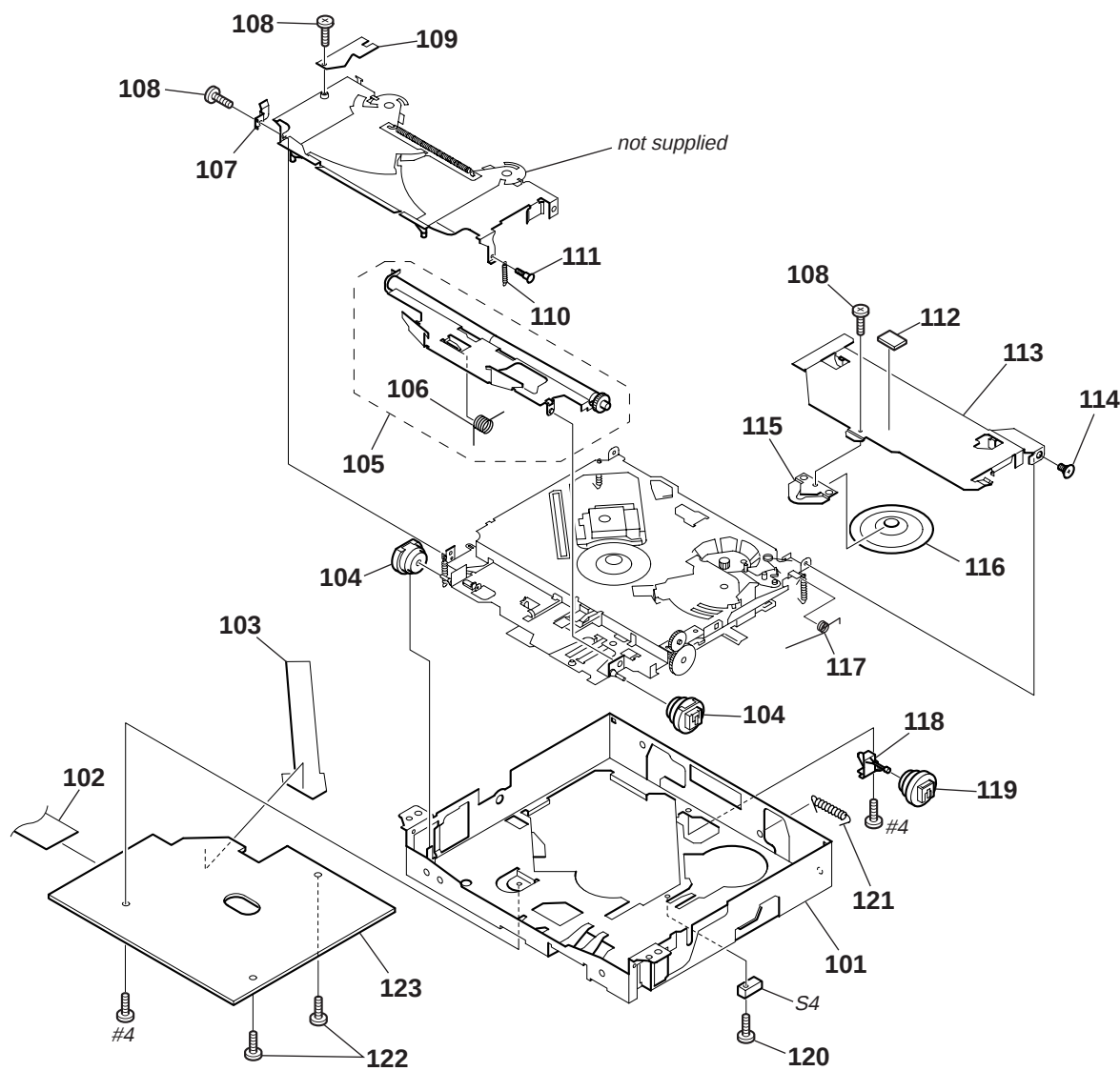
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-249-414-01	LEVER (DFP POP)		11	3-250-888-01	SCREW +P (2.6X4)	
2	3-251-492-01	SPRING (COIL/POP UP)		12	A-3274-783-A	MAIN BOARD, COMPLETE (R30MP)	
3	3-250-895-01	SCREW +B 2.6X6		12	A-3274-787-A	MAIN BOARD, COMPLETE (X30MP)	
4	3-251-066-01	PANEL, SUB		13	3-251-495-01	SCREW (2.6X8)	
5	3-250-908-01	SHEET (DOOR CD)		14	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
6	3-251-089-01	SPRING, LOCK		F901	1-532-982-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A	
7	3-250-286-01	LEVER, LOCK		TU101	1-693-609-11	TUNER UNIT (X30MP)	
8	3-250-551-01	SCREW (+PTP 2.6X4)		TU101	1-693-611-11	TUNER UNIT (R30MP)	
9	1-776-207-41	CORD (WITH CONNECTOR) (POWER) (X30MP)		#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
9	1-776-527-82	CORD (WITH CONNECTOR) (ISO) (POWER) (R30MP)		#2	7-682-150-01	SCREW +P 3X12	
10	3-249-422-01	HOLDER (CD MECHA)		#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	

5-2. FRONT PANEL SECTION



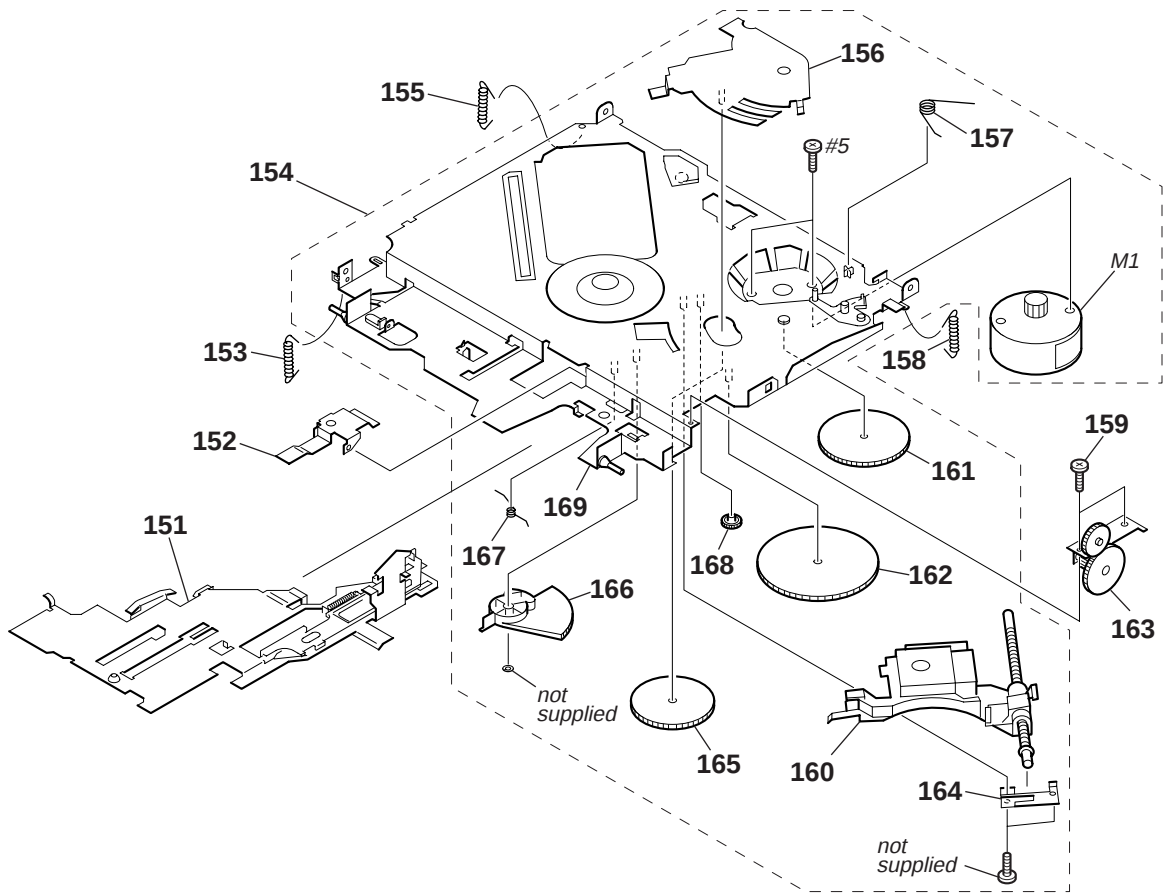
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3383-823-1	PANEL (SVX) ASSY (X30MP)		56	3-250-543-01	SCREW (+PTP 2X8)	
51	X-3383-825-1	PANEL (SVX) ASSY (R30MP)		57	X-3383-157-1	CASE ASSY (for FRONT PANEL)	
52	X-3383-824-1	BUTTON (SVX) ASSY (X30MP)		58	A-3337-548-A	PANEL 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)



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.
---	---

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)	
▲ 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.. : μ A.. uPA.. : μ PA..
uPB.. : μ PB.. uPC.. : μ PC.. uPD.. : μ PD..
• CAPACITORS
uF : μ F
• COILS
uH : μ H

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

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 ($\triangle$)	
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, $\blacktriangleright\blacktriangleright\blacktriangleright\blacktriangleright$ +/+, -/I $\blacktriangleleft\blacktriangleleft\blacktriangleleft\blacktriangleleft$ /, 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, $\blacktriangleright\blacktriangleright\blacktriangleright\blacktriangleright$ +/+, -/I $\blacktriangleleft\blacktriangleleft\blacktriangleleft\blacktriangleleft$ /, 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

FRONT

MAIN

Ref. No.	Part No.	Description			Remark
R681	1-216-820-11	METAL CHIP	820	5%	1/10W
R682	1-216-821-11	METAL CHIP	1K	5%	1/10W
< SWITCH >					
S601	1-786-176-11	SWITCH, SLIDE (▶▶▶/▶▶▶/+,-/◀◀◀/◀◀◀)			
S602	1-572-596-21	SWITCH, KEYBOARD (PWR/ATT)			
S604	1-572-596-21	SWITCH, KEYBOARD (TA) (R30MP)			
S605	1-762-365-21	SWITCH, TACTILE (PS)			
S606	1-762-365-21	SWITCH, TACTILE (DSPL)			
S608	1-762-365-21	SWITCH, TACTILE (SEL)			
S610	1-762-365-21	SWITCH, TACTILE (AF)			
S611	1-572-596-21	SWITCH, KEYBOARD (≡)			
S612	1-762-365-21	SWITCH, TACTILE (TU)			
S613	1-572-596-21	SWITCH, KEYBOARD (1)			
S614	1-572-596-21	SWITCH, KEYBOARD (2)			
S615	1-572-596-21	SWITCH, KEYBOARD (INT 3)			
S616	1-572-596-21	SWITCH, KEYBOARD (4)			
S617	1-692-459-11	SWITCH (REP1 5)			
S618	1-572-596-21	SWITCH, KEYBOARD (6 SHUF)			
S621	1-477-774-11	ENCODER, ROTARY (PUSH-SOURCE/A.ME -)			

A-3274-783-A		MAIN BOARD, COMPLETE (R30MP)			
A-3274-787-A		MAIN BOARD, COMPLETE (X30MP)			

3-251-495-01		SCREW (2.6X8)			
3-376-464-11		SCREW (+PTT 2.6X6), GROUND POINT			
7-682-150-01		SCREW +P 3X12			
7-685-792-09		SCREW +PTT 2.6X6 (S)			
7-685-793-09		SCREW +PTT 2.6X8 (S)			
< ANTENNA >					
ANT101	1-817-334-11	JACK (ANTENNA)			
< CAPACITOR >					
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C102	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C103	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C104	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C105	1-124-463-00	ELECT	0.1uF	20%	50V
C107	1-124-589-11	ELECT	47uF	20%	16V
C108	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C109	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C110	1-126-935-11	ELECT	470uF	20%	10V
C111	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C112	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C113	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C115	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C116	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C118	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C119	1-124-257-00	ELECT	2.2uF	20%	50V
C120	1-164-173-11	CERAMIC CHIP	0.0039uF	10%	50V
C121	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C121	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C122	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
					(X30MP)
					(R30MP)
					(X30MP)

Ref. No.	Part No.	Description	Remark		
C122	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V (R30MP)
C123	1-113-619-11	CERAMIC CHIP	0.47uF		10V
C124	1-113-619-11	CERAMIC CHIP	0.47uF		10V
C125	1-124-584-00	ELECT	100uF	20%	50V
C151	1-162-916-11	CERAMIC CHIP	12PF	5%	50V (R30MP)
C152	1-162-917-11	CERAMIC CHIP	15PF	5%	50V (R30MP)
C153	1-124-257-00	ELECT	2.2uF	20%	50V (R30MP)
C154	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (R30MP)
C155	1-164-739-11	CERAMIC CHIP	560PF	5%	50V (R30MP)
C156	1-164-156-11	CERAMIC CHIP	0.1uF		25V (R30MP)
C157	1-124-589-11	ELECT	47uF	20%	16V (R30MP)
C401	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C402	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C403	1-164-346-11	CERAMIC CHIP	1uF		16V
C404	1-164-346-11	CERAMIC CHIP	1uF		16V
C405	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C406	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C407	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C408	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C409	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C410	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C411	1-104-509-11	CERAMIC CHIP	0.018uF	10%	16V
C412	1-104-509-11	CERAMIC CHIP	0.018uF	10%	16V
C413	1-131-664-11	CERAMIC CHIP	0.15uF	10%	10V
C414	1-131-664-11	CERAMIC CHIP	0.15uF	10%	10V
C415	1-131-664-11	CERAMIC CHIP	0.15uF	10%	10V
C416	1-131-664-11	CERAMIC CHIP	0.15uF	10%	10V
C417	1-164-346-11	CERAMIC CHIP	1uF		16V
C418	1-164-346-11	CERAMIC CHIP	1uF		16V
C419	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C420	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C421	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C422	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C423	1-124-584-00	ELECT	100uF	20%	10V
C424	1-124-259-11	ELECT	4.7uF	20%	35V
C425	1-128-111-11	ELECT	100uF	20%	25V
C426	1-124-234-00	ELECT	22uF	20%	16V
C427	1-124-584-00	ELECT	100uF	20%	10V
C428	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C431	1-124-257-00	ELECT	2.2uF	20%	50V
C432	1-124-257-00	ELECT	2.2uF	20%	50V
C433	1-124-257-00	ELECT	2.2uF	20%	50V
C434	1-124-257-00	ELECT	2.2uF	20%	50V
C435	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C436	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C442	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C444	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C451	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C452	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C453	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C454	1-164-156-11	CERAMIC CHIP	0.1uF		25V

CDC-R30MP/X30MP

MAIN

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

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		(R30MP)
JR106	1-216-864-11	METAL CHIP	0	5%	1/10W	JR543	1-216-296-11	SHORT CHIP	0		(R30MP)
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		
JR109	1-216-864-11	METAL CHIP	0	5%	1/10W	JR547	1-216-296-11	SHORT CHIP	0		
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		
JR526	1-216-296-11	SHORT CHIP	0			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

Ref. No.	Part No.	Description			Remark
R724	1-216-821-11	METAL CHIP	1K	5%	1/10W
R725	1-216-821-11	METAL CHIP	1K	5%	1/10W
R726	1-216-821-11	METAL CHIP	1K	5%	1/10W
R727	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R728	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R729	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R730	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R731	1-216-815-11	METAL CHIP	330	5%	1/10W
R732	1-216-186-00	RES-CHIP	330	5%	1/8W
R801	1-216-833-11	METAL CHIP	10K	5%	1/10W
R802	1-249-421-11	CARBON	2.2K	5%	1/4W
R803	1-249-421-11	CARBON	2.2K	5%	1/4W
R804	1-216-864-11	METAL CHIP	0	5%	1/10W
R805	1-216-190-11	RES-CHIP	470	5%	1/8W
R808	1-216-838-11	METAL CHIP	27K	5%	1/10W
R809	1-216-833-11	METAL CHIP	10K	5%	1/10W
R810	1-216-821-11	METAL CHIP	1K	5%	1/10W
R815	1-216-834-11	METAL CHIP	12K	5%	1/10W
R816	1-216-845-11	METAL CHIP	100K	5%	1/10W
R817	1-216-180-00	RES-CHIP	180	5%	1/8W
R818	1-216-180-00	RES-CHIP	180	5%	1/8W
R904	1-216-842-11	METAL CHIP	56K	5%	1/10W
R905	1-216-839-11	METAL CHIP	33K	5%	1/10W
R906	1-216-839-11	METAL CHIP	33K	5%	1/10W
R910	1-216-841-11	METAL CHIP	47K	5%	1/10W
R912	1-247-881-00	CARBON	120K	5%	1/4W
R913	1-218-873-11	METAL CHIP	12K	0.5%	1/10W
R914	1-216-864-11	METAL CHIP	0	5%	1/10W
R917	1-249-431-11	CARBON	15K	5%	1/4W
R919	1-216-841-11	METAL CHIP	47K	5%	1/10W
R920	1-247-881-00	CARBON	120K	5%	1/4W
R921	1-249-421-11	CARBON	2.2K	5%	1/4W
R922	1-249-421-11	CARBON	2.2K	5%	1/4W
R923	1-249-421-11	CARBON	2.2K	5%	1/4W
R924	1-249-421-11	CARBON	2.2K	5%	1/4W
R925	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R926	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R927	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R929	1-216-833-11	METAL CHIP	10K	5%	1/10W
R930	1-249-421-11	CARBON	2.2K	5%	1/4W
R931	1-249-421-11	CARBON	2.2K	5%	1/4W
R932	1-249-421-11	CARBON	2.2K	5%	1/4W
R933	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (R30MP)
R935	1-216-845-11	METAL CHIP	100K	5%	1/10W
R936	1-216-845-11	METAL CHIP	100K	5%	1/10W
R938	1-216-841-11	METAL CHIP	47K	5%	1/10W
R941	1-216-845-11	METAL CHIP	100K	5%	1/10W (X30MP)
R944	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R945	1-216-845-11	METAL CHIP	100K	5%	1/10W
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

Ref. No.	Part No.	Description			Remark
R957	1-216-821-11	METAL CHIP	1K	5%	1/10W
R958	1-216-821-11	METAL CHIP	1K	5%	1/10W
R999	1-216-845-11	METAL CHIP	100K	5%	1/10W (X30MP)
< VARIABLE RESISTOR >					
SFR101	1-241-768-11	RES, ADJ, CARBON 220K (R30MP)			
< SWITCH >					
SW901	1-692-431-21	SWITCH, TACTILE (RESET)			
< THERMISTOR >					
THP801	1-809-148-11	THERMISTOR PTH8L07AR2R0M1B510			
< TUNER >					
TU101	1-693-609-11	TUNER UNIT (X30MP)			
TU101	1-693-611-11	TUNER UNIT (R30MP)			
< VIBRATOR >					
X151	1-579-242-41	VIBRATOR, CRYSTAL (4.332MHz) (R30MP)			
X901	1-795-863-11	VIBRATOR, CRYSTAL (6.3MHz)			

A-3274-796-A SERVO BOARD, COMPLETE					

< CAPACITOR >					
C202	1-165-872-21	ELECT CHIP	47uF	20%	6.3V
C203	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C204	1-110-450-11	ELECT CHIP	100uF	20%	6.3V
C205	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C206	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C207	1-110-449-11	ELECT CHIP	47uF	20%	6.3V
C211	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C212	1-110-411-11	ELECT CHIP	22uF	20%	6.3V
C213	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C214	1-110-410-31	ELECT CHIP	10uF	20%	6.3V
C215	1-110-410-31	ELECT CHIP	10uF	20%	6.3V
C217	1-110-449-11	ELECT CHIP	47uF	20%	6.3V
C220	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C222	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C223	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C225	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C226	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C227	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C228	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C230	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C232	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V
C233	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C234	1-110-410-31	ELECT CHIP	10uF	20%	6.3V
C235	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C236	1-110-410-31	ELECT CHIP	10uF	20%	6.3V
C237	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C238	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C239	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C241	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C242	1-110-410-31	ELECT CHIP	10uF	20%	6.3V

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Ref. No.	Part No.	Description			Remark
C243	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C244	1-110-449-11	ELECT CHIP	47uF	20%	6.3V
C245	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C246	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C247	1-110-449-11	ELECT CHIP	47uF	20%	6.3V
C251	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C252	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C253	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C255	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C256	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C257	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C258	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C259	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C260	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C303	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C331	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C332	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C333	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C334	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C335	1-110-449-11	ELECT CHIP	47uF	20%	6.3V
C336	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C338	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C339	1-110-449-11	ELECT CHIP	47uF	20%	6.3V
C351	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C352	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C353	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C354	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C355	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C356	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C357	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C358	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C361	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C362	1-126-176-11	ELECT	220uF	20%	10V
C381	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C382	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C383	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C384	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C385	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C386	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C387	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C388	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C502	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C503	1-110-449-11	ELECT CHIP	47uF	20%	6.3V
C511	1-110-456-11	ELECT CHIP	47uF	20%	16V
C512	1-110-456-11	ELECT CHIP	47uF	20%	16V
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C514	1-110-456-11	ELECT CHIP	47uF	20%	16V
C515	1-110-456-11	ELECT CHIP	47uF	20%	16V
C516	1-164-346-11	CERAMIC CHIP	1uF		16V
C517	1-165-872-21	ELECT CHIP	47uF	20%	6.3V
C518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

< CONNECTOR >

* CON301 1-580-802-21 SOCKET, CONNECTOR 20P

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D201	8-719-066-11	DIODE	1PS184-115		
D301	8-719-066-11	DIODE	1PS184-115		
D511	8-719-081-67	DIODE	M1FM3		
		< IC >			
IC201	6-703-810-01	IC	uPD63760GJ-8EN		
IC202	6-703-899-01	IC	MSM51V18165FP-60TR1		
IC301	6-802-743-01	IC	uPD703033BGC-019-8EU		
IC302	6-700-565-01	IC	SN74AHCT1G125DCKR		
IC351	8-759-567-26	IC	BA5983FP-E2		
IC501	8-759-832-31	IC	TK71533ASCL		
IC511	6-702-472-01	IC	PQ1CZ21H2ZP		
		< COIL >			
L201	1-414-410-21	INDUCTOR	10uH		
L202	1-414-410-21	INDUCTOR	10uH		
L203	1-414-410-21	INDUCTOR	10uH		
L211	1-414-410-21	INDUCTOR	10uH		
L212	1-414-410-21	INDUCTOR	10uH		
L213	1-414-410-21	INDUCTOR	10uH		
L214	1-414-410-21	INDUCTOR	10uH		
L241	1-414-410-21	INDUCTOR	10uH		
L301	1-414-410-21	INDUCTOR	10uH		
L302	1-414-410-21	INDUCTOR	10uH		
L351	1-414-410-21	INDUCTOR	10uH		
L511	1-419-387-11	COIL, CHOKE	100uH		
L512	1-419-387-11	COIL, CHOKE	100uH		
L513	1-419-387-11	COIL, CHOKE	100uH		
		< TRANSISTOR >			
Q201	8-729-904-86	TRANSISTOR	2SB1197K-Q		
		< RESISTOR >			
R201	1-216-864-11	METAL CHIP	0	5%	1/10W
R202	1-216-864-11	METAL CHIP	0	5%	1/10W
R203	1-216-864-11	METAL CHIP	0	5%	1/10W
R204	1-216-864-11	METAL CHIP	0	5%	1/10W
R207	1-216-864-11	METAL CHIP	0	5%	1/10W
R208	1-216-864-11	METAL CHIP	0	5%	1/10W
R209	1-216-813-11	METAL CHIP	220	5%	1/10W
R210	1-216-001-00	METAL CHIP	10	5%	1/10W
R211	1-216-839-11	METAL CHIP	33K	5%	1/10W
R212	1-216-839-11	METAL CHIP	33K	5%	1/10W
R214	1-216-839-11	METAL CHIP	33K	5%	1/10W
R215	1-216-839-11	METAL CHIP	33K	5%	1/10W
R216	1-216-839-11	METAL CHIP	33K	5%	1/10W
R228	1-216-838-11	METAL CHIP	27K	5%	1/10W
R229	1-216-838-11	METAL CHIP	27K	5%	1/10W
R230	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R231	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R232	1-216-839-11	METAL CHIP	33K	5%	1/10W
R233	1-216-833-11	METAL CHIP	10K	5%	1/10W
R234	1-216-840-11	METAL CHIP	39K	5%	1/10W
R236	1-216-821-11	METAL CHIP	1K	5%	1/10W
R237	1-216-833-11	METAL CHIP	10K	5%	1/10W
R238	1-216-833-11	METAL CHIP	10K	5%	1/10W

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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)			

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

MISCELLANEOUS					

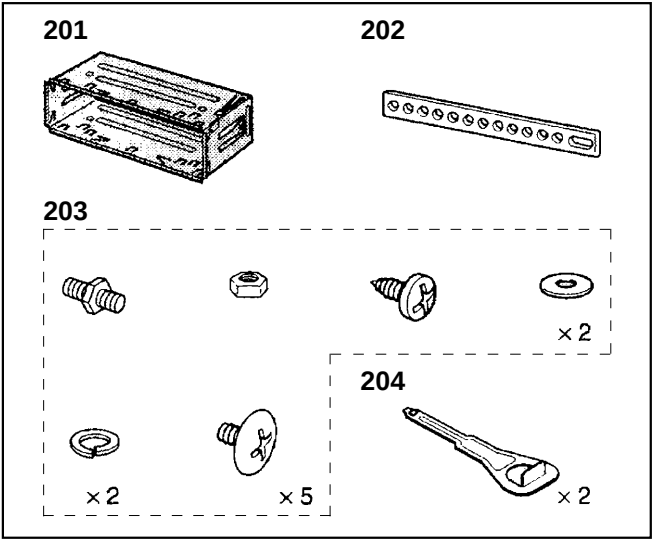
9	1-776-207-41	CORD (WITH CONNECTOR) (POWER) (X30MP)			
9	1-776-527-82	CORD (WITH CONNECTOR) (ISO) (POWER)			
		(R30MP)			
102	1-687-801-11	FF-CABLE BOARD			
103	1-687-802-11	PIC2 FLEXIBLE BOARD			
154	A-3337-427-A	CHASSIS ASSY (including M1,M2)			
△ 160	A-3337-428-A	PICK-UP SUB ASSY (including			
		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)			

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)	

PARTS FOR INSTALLATION AND CONNECTIONS			

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

REVISION HISTORY

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

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

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