MDX-C8500R/C8500X

SERVICE MANUAL

Ver 1.1 2001.05

US Model
MDX-C8500X
AEP Model
UK Model
MDX-C8500R

Photo: MDX-C8500X

Model Name Using Similar Mechanism	NEW
Base Mechanism Type	MG-164NV-138
Optical Pick-up Name	KMS-241C/J1NP

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (MDX-C8500X)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

19 watts per channel minimum continuous average power into 4ohms, 4 channels driven from 10 Hz to 20 kHz with no more than 1% total harmonic distortion.

Other specifications

Disc player section

MD player

Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit
Laser Diode Properties	
Material	GaAlAs
Wavelength	780 nm
Emission Duration	Continuous
Laser output power	Less than 44.6 W*

* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.*

Tuner section

FM

Tuning range	87.5 – 107.9 MHz (MDX-C8500X) 87.5 – 108.0 MHz (MDX-C8500R)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	66 dB (stereo), 72 dB (mono)
Harmonic distortion at 1 kHz	0.6 % (stereo), 0.3 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

AM (MDX-C8500X)

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 µV

MW/LW (MDX-C8500R)

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 µV LW: 40 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	50 W × 4 (at 4 ohms)

– Continued on next page –

FM/AM(MW/LW) MINIDISC PLAYER

9-870-096-12
2001E0500-1

Sony Corporation
e Vehicle Company
Shinagawa Tec Service Manual Production Group

SONY®

General

Outputs	Audio outputs Power antenna relay control lead Power amplifier control lead Telephone ATT control lead
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 183 mm ($7\frac{1}{8} \times 2 \times 7\frac{1}{8}$ in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 162 mm ($7\frac{1}{4} \times 2\frac{1}{8} \times 6\frac{3}{8}$ in.) (w/h/d)
Mass	Approx. 1.2 kg (2 lb 10 oz)
Supplied accessories	Card remote commander RM-X91 (MDX-C8500X) Parts for installation and connections (1 set) Front panel case (1)

U.S. and foreign patents licensed from Dolby laboratories Licensing Corporation.

Design and specifications are subject to change without notice.

TABLE OF CONTENTS

SECTION 1
SERVICING NOTES

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

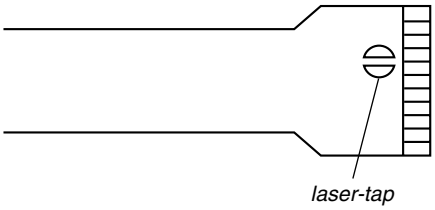
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter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

NOTES ON LASER DIODE EMISSION CHECK

Never look into the laser diode emission from right avove when checking it for adustment. It is feared that you will lose your sight.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK (KMS-241C/J1NP)

The laser diode in the optical pick-up block may suffer electrostatic break-down easily. When handling it, perform soldering bridge to the laser-tap on the flexible board. Also perform m easures against electrostatic break-down sufficiently before the operation.
The flexible board is easily damaged and should be handled with care.



OPTICAL PICK-UP FLEXIBLE BOARD

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.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

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

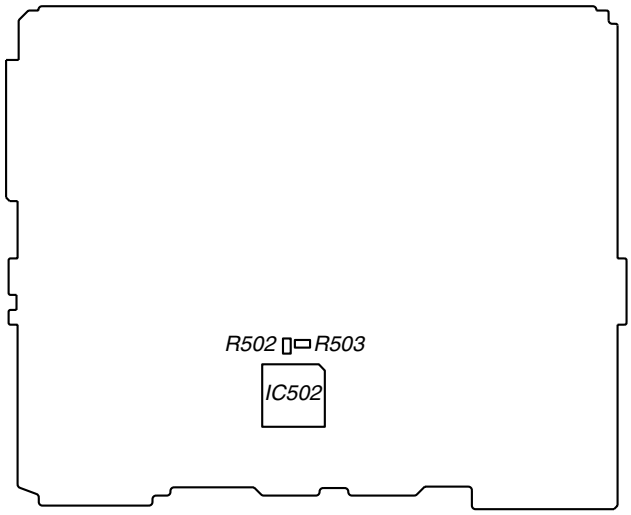
SAFETY-RELATED COMPONENT WARNING!!

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

• Model Identification

There are three types of main board in according of destination for MDX-C8500R.

– MAIN BOARD (Component Side)

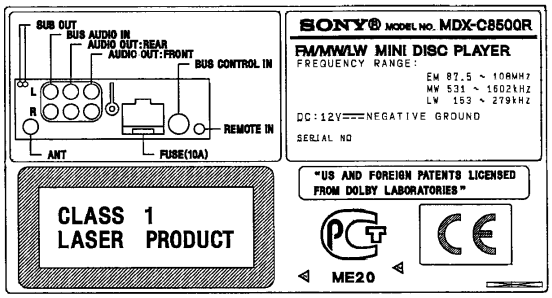


	R502	R503
TYPE A	○	×
TYPE B	×	○
TYPE C	○	○

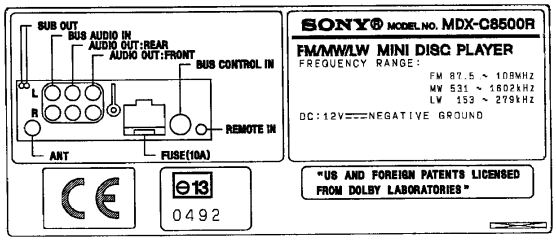
Type A, B and C can be identified by its model number label at the buttom of the set.

– SPECIFICATION LABEL –

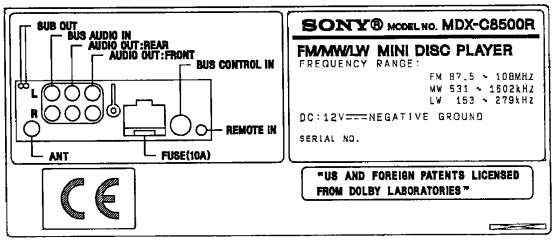
TYPE A



TYPE B

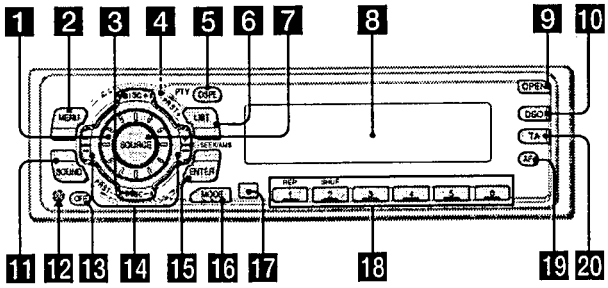


TYPE C



This section is extracted from instruction manual.

Location of controls



Refer to the pages listed for details.

1 Volume control dial

2 MENU button 9, 13, 15, 16, 17, 18, 19, 21, 23, 24, 26, 27, 29, 30, 32, 33, 34, 38

3 DISC/PRST +/– (cursor up/down) button 9, 13, 15, 16, 17, 18, 19, 21, 23, 24, 26, 27, 29, 30, 32, 33, 34, 38

During radio reception:
Preset stations select 19, 25, 26, 27

During CD/MD playback:
Disc change 13

4 ⏏ (eject) button (located on the front side of the unit behind the front panel) 10, 11

5 DSPL button (MDX-C8500X)
DSPL/PTY (display mode change/ programme type) button (MDX-C8500R) 12, 13, 15, 20, 24, 29

6 LIST button

Disc Memo 15

List-up 16, 28

7 SOURCE (Tuner/CD/MD) button 9, 11, 12, 13, 16, 18, 19, 25, 26, 30, 31, 32, 33, 34

8 Display window

9 OPEN button 8, 10, 11, 39

10 DSO button 32

11 SOUND button 30, 31, 32, 33

12 Reset button (located on the front side of the unit behind the front panel) 8

13 OFF button* 8, 9, 11

14 SEEK/AMS +/– (cursor left/right) button 9, 13, 15, 17, 19, 21, 23, 24, 25, 29, 30, 31, 32, 33, 34, 38

Seek 17, 18, 19, 25, 27

Automatic Music Sensor 13

Manual search 19

15 ENTER button 9, 10, 13, 15, 16, 17, 18, 19, 21, 23, 24, 26, 27, 28, 29, 30, 32, 33, 34

16 MODE button

During radio reception:
BAND select 18, 19, 22, 25

During CD or MD playback:
CD/MD unit select 12, 16

17 Receptor for the card remote commander

18 Number buttons

During radio reception:
Preset number select 18, 19, 21, 26, 27

During CD/MD playback:

① REP 14

② SHUF 14

19 AF button 20, 21, 23 (MDX-C8500R)

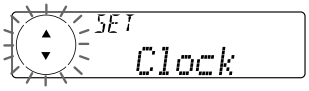
20 TA button 22, 23 (MDX-C8500R)

*** Warning when installing in a car without ACC (accessory) position on the ignition key switch**
Be sure to press OFF on the unit for two seconds to turn off the clock display after turning off the engine. When you press OFF only momentarily, the clock display does not turn off and this causes battery wear.

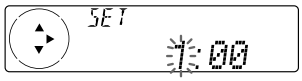
Setting the clock

The clock uses a 12-hour digital indication.
Example: To set the clock to 10:08

1 Press MENU, then press either side of DISC/PRST repeatedly until "Clock" appears.

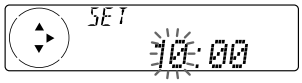


❶ **Press ENTER.**

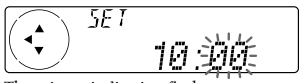


The hour indication flashes.

❷ **Press either side of DISC/PRST to set the hour.**

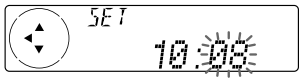


❸ **Press (+) side of SEEK/AMS.**

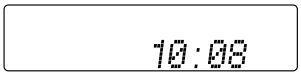


The minute indication flashes.

❹ **Press either side of DISC/PRST to set the minute.**



2 Press ENTER.



The clock starts.

After the clock setting is completed, the display returns to normal playback mode.

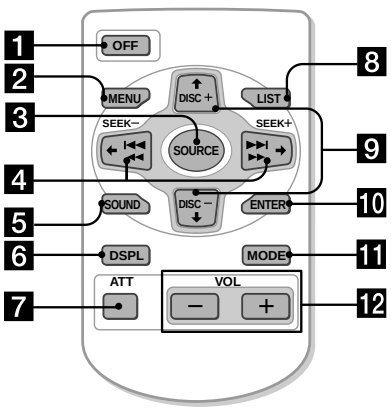
Tip
You can set the clock automatically with the RDS feature (see page 24). (MDX-C8500R)

Note
In the initial setting, the clock indication appears while the unit is turned off.
When you select the "on" setting of the "D.Info" item (page 29), you can see the clock indication in the upper part of the display while you are enjoying any source.

6

Location of controls (MDX-C8500X)

Card remote commander RM-X91



The corresponding buttons of the card remote commander control the same functions as those on this unit.

1 OFF button

2 MENU button

3 SOURCE button

4 SEEK/AMS (cursor ←/→) buttons

5 SOUND button

6 DSPL button

7 ATT button

8 LIST button

9 DISC/PRST (cursor ↑/↓) buttons

10 ENTER button

11 MODE button

12 VOL buttons

Installation

Precautions

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

Mounting angle adjustment

CDX-C8000RX/CDX-C8000R:
Adjust the mounting angle to less than 60°.

MDX-C8500R:
Adjust the mounting angle to less than 20°.

How to detach and attach the front panel

Before installing the unit, detach the front panel.

A To detach

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

B To attach

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

Instalación

Precauciones

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

Ajuste del ángulo de montaje

CDX-C8000RX/CDX-C8000R:
Ajuste el ángulo de montaje a menos de 60°.

MDX-C8500R:
Ajuste el ángulo de montaje a menos de 20°.

Forma de extraer e instalar el panel frontal

Antes de instalar la unidad, extraiga el panel frontal.

A Para extraerlo

Antes de extraer el panel frontal, ceriórese de pulsar (OFF). Pulse (OPEN) después, deslícelo hacia la derecha, y por último tire de su parte izquierda.

B Para instalarlo

Coloque el orificio Ⓐ del panel frontal en el eje Ⓑ de la unidad, como se muestra en la ilustración, y después presione sobre la parte izquierda.

Montering

Säkerhetsföreskrifter

- Var noga när du väljer var i bilen du monterar bilstereon, så att den inte sitter i vägen när du kör.
- Montera inte bilstereon där den utsätts för värme, t ex solsken eller varmluft, eller där den utsätts för damm, smuts och/eller vibrationer.
- Använd endast de medföljande monteringstillbehören för att vara säker på att bilstereon monteras på ett säkert och korrekt sätt.

Tillåten monteringsvinkel

CDX-C8000RX/CDX-C8000R:
Monteringsvinkeln får inte vara större än 60°.

MDX-C8500R:
Monteringsvinkeln får inte vara större än 20°.

Ta loss/fästa frontpanelen

Ta loss frontpanelen innan du monterar bilstereon.

A Ta loss frontpanelen

Var noga med att trycka på (OFF) innan frontpanelen tas loss. Tryck därefter på (OPEN) för att öppna frontpanelen. Skjut frontpanelen åt höger och dra dess vänstra del utåt för att ta loss frontpanelen.

B Fästa frontpanelen

Placera frontpanelen så att hålet Ⓐ på frontpanelen träs över axeln Ⓑ på bilstereon enligt illustrationen. Tryck därefter frontpanelens vänstra del inåt.

Instalação

Precauções

- Escolha com cuidado um local apropriado para a montagem do aparelho, para que este não interfira com as manobras necessárias à condução do veículo.
- Evite instalar o aparelho onde possa estar sujeito a altas temperaturas, como em locais expostos directamente à luz do sol, ao ar quente dos aquecimentos, ou sujeitos a pó, sujidade ou vibração excessiva.
- Para efectuar uma instalação segura utilize unicamente o material de montagem fornecido.

Ajuste do ângulo de montagem

CDX-C8000RX/CDX-C8000R:
Ajuste o ângulo de montagem para menos de 60°.

MDX-C8500R:
Ajuste o ângulo de montagem para menos de 20°.

Para retirar e colocar o painel frontal

Retire o painel frontal antes de iniciar a instalação do aparelho.

A Para retirar

Antes de retirar o painel frontal, tem de carregar primeiro em (OFF). A seguir, carregue em (OPEN) para soltar o painel frontal e empurre-o para a direita. Depois puxe o lado esquerdo do painel para fora.

B Para colocar

Coloque o orifício Ⓐ do painel frontal no eixo Ⓑ do aparelho tal como ilustrado, e depois carregue no lado esquerdo para dentro.

Установка

Меры предосторожности

- Место для установки магнитолы выбирайте тщательно, чтобы она не мешала нормальному управлению автомобилем.
- Не устанавливайте магнитолу там, где она будет подвержена воздействию пыли, грязи, чрезмерной вибрации или высоких температур, например в местах, попадающих под прямые солнечные лучи или находящихся вблизи вентиляционных решеток обогревателей.
- В целях обеспечения надежной и безопасной установки используйте лишь входящие в комплект монтажные детали.

Допустимый угол установки

CDX-C8000RX/CDX-C8000R:
Установите магнитолу под углом не более 60°.

MDX-C8500R:
Установите магнитолу под углом не более 20°.

Порядок снятия и установки передней панели

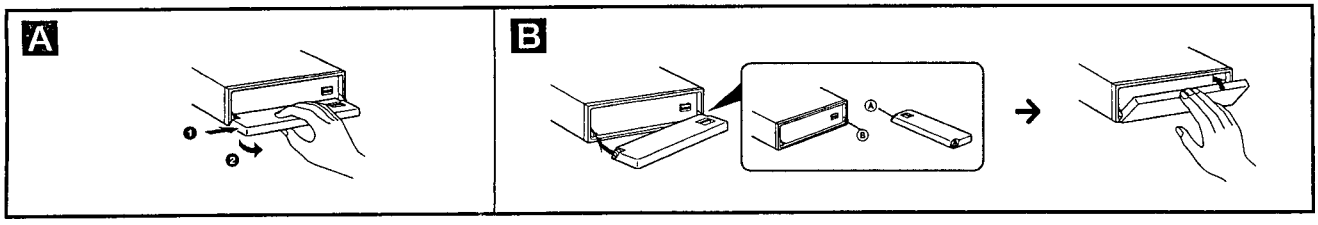
Перед установкой магнитолы снимите с нее переднюю панель.

A Снятие панели

Прежде чем снимать переднюю панель, обязательно отключите магнитолу, нажав клавишу (OFF). Затем нажмите (OPEN), сдвиньте переднюю панель вправо и, потянув за левую часть панели, снимите ее.

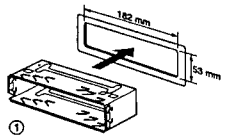
B Установка панели

Сначала совместите отверстие Ⓐ на передней панели со штырьком Ⓑ на магнитоле, как это показано на иллюстрации, а затем вдвиньте в паз левую часть панели.



Installation in the dashboard

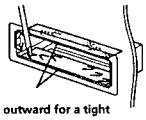
1



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

Instalación en el salpicadero

2

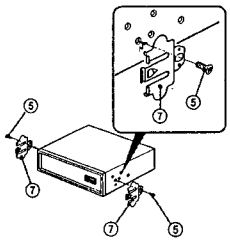


Bend these claws outward for a tight fit, if necessary.
Si es necesario, doble estas uñas hacia fuera para que encaje firmemente.
För att få en tät passning böj dessa flikar vid behov.
Se necessário, dobre as garras para prender melhor.
При необходимости отогните эти зажимные зубчики для обеспечения более плотной фиксации.

Nota
Para evitar fallos de funcionamiento, realice la instalación únicamente con los tornillos suministrados Ⓢ.

Montera på instrumentbrädan

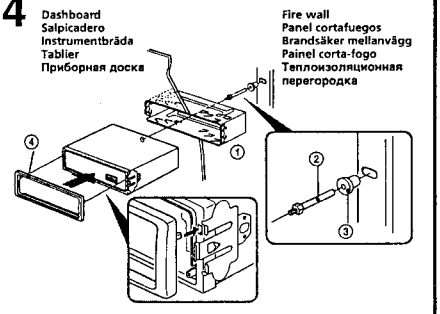
3



Observera
Använd bara de medföljande skruvarna Ⓢ, så undviker du onödiga fel.

Instalação no tablier

4



Nota
Para evitar avarias, instale o aparelho apenas com os parafusos fornecidos Ⓢ.

Установка магнитолы в приборной доске

Примечание
Для предотвращения неисправной работы установка должна выполняться только с использованием прилагаемых винтов Ⓢ.

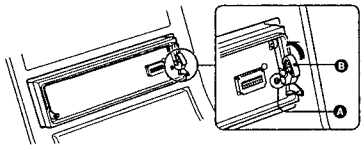
Note on the mounting angle
When installing this unit: Depending on car type, the mounting angle may not allow the front panel to open easily. In such a case, remove the silver screw Ⓐ shown below.
When screwing it on again, first lock the lever Ⓑ. Attaching the screw without doing so may cause the unit to break.

Nota sobre el ángulo de montaje
Cuando instale esta unidad: Es posible que el ángulo de montaje (en función del tipo de automóvil) no permita que el panel frontal se abra con facilidad. En tal caso, extraiga el tornillo plateado Ⓐ mostrado más abajo.
Cuando vuelva a atornillarlo, bloquee primero la palanca Ⓑ. Si fija el tornillo sin realizar lo expuesto, la unidad podría romperse.

Monteringsvinkeln
När du installerar den här enheten bör du tänka på att installationen görs beroende på biltyp. Monteringsvinkeln kan göra att frontpanelen inte går att öppna så lätt beroende på vilken bil det är. I så fall lösgör du den silverfärgade skruven Ⓐ som visas nedan.
När du skruvar fast den igen var noga med att först låsa spak Ⓑ. Om du fäster skruven utan att låsa spaken kan det hända att enheten går sönder.

Nota sobre o ângulo de montagem
Quando instalar o aparelho: dependendo do tipo de automóvel, o ângulo de montagem pode impedir a abertura fácil do painel frontal. Se isso acontecer, retire o parafuso prateado Ⓐ mostrado abaixo.
Quando voltar a colocá-lo, bloqueie primeiro a alavanca Ⓑ. Se colocar o parafuso sem o fazer pode partir o aparelho.

Примечание об угле установки
При установке данного аппарата (в зависимости от типа автомобиля) угол установки может создать трудности для снятия передней панели. В таком случае вывинтите белый винт Ⓐ, изображенный на рисунке внизу.
Когда будете ввинчивать его обратно, сначала зафиксируйте в закрытом положении рычажок Ⓑ, поскольу если Вы этого не сделаете, при вкручивании винта может произойти поломка аппарата.



Reset button

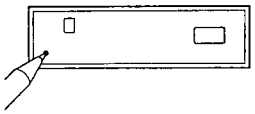
When the installation and connections are completed, be sure to press the reset button with a ballpoint pen, etc.

Botón de reposición

Cuando finalice la instalación y las conexiones, cerciórese de pulsar el botón de reposición con un bolígrafo, etc.

Nollställningsknappen

Kom ihåg att använda en penna eller något annat spetsigt föremål för att trycka på nollställningsknappen när anslutningen och monteringen är klar.



Botão de reinicialização

Quando terminar a instalação e as ligações, não se esqueça de carregar no botão de reinicialização com a ponta de uma caneta, etc.

Кнопка переустановки

По окончании установки и всех подсоединений не забудьте нажать кончиком шариковой ручки или иным аналогичным предметом кнопку переустановки.

Warning when installing in a car without ACC (accessory) position on the ignition key switch

Be sure to press (OFF) on the unit for two seconds to turn off the clock display after turning off the engine.
When you press (OFF) only momentarily, the clock display does not turn off and this causes battery wear.

Advertencia sobre la instalación en un automóvil que no disponga de posición ACC (auxiliar) en el interruptor de la llave de encendido

Asegúrese de pulsar (OFF) en la unidad durante dos segundos para desactivar la indicación del reloj después de apagar el motor.
Si pulsa (OFF) sólo momentáneamente, la indicación del reloj no se desactivará y esto causará el desgaste de la batería.

Var försiktig när du gör installationen i en bil där tändningslåset saknar tillbehörsläge (ACC)

Glöm inte att stänga av klockvisningen när du har stängt av motorn. Du stänger av den genom att trycka på (OFF) på enheten under två sekunder.
Om du bara trycker på (OFF) ett kort ögonblick slocknar inte klockans teckenfönster, vilket leder till att batteriet laddas ur.

Aviso sobre a instalação num automóvel sem posição ACC (acessórios) na chave de ignição

Carregue em (OFF) no aparelho durante dois segundos para desligar o relógio, depois de desligar o motor.
Se carregar em (OFF) menos de dois segundos, o visor do relógio não se apaga o que provoca o desgaste da bateria.

Предостережение относительно аппаратуры, установленной в автомобиле, замок зажигания в котором не имеет отдельного положения (ACC) для отключения подсоединенной аппаратуры

После выключения двигателя не забывайте нажать на две секунды кнопку (OFF) на аппарате, с тем чтобы отключить циферблат часов.
При слишком кратком нажатии (OFF) циферблат не отключается, что ведет к разрядке аккумуляторной батареи.

Connections

Cautions

- This unit is designed for negative ground 12 V DC operation only.
- Be careful not to pinch any wires between the screw and the body of the car, or this unit, or between any moving parts such as the seat railing, etc.
- Connect the power connecting cord ⑧ to the unit and speakers before connecting it to the auxiliary power connector.
- **Run all ground wires to a common ground point.**
- Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating. If you connect this unit in combination with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual components' fuse rating. If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery. If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.

Notes of connection example

Notes on the control leads

- The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the AF (Alternative Frequency), TA (Traffic Announcement) function.
- A power aerial without a relay box cannot be used with this unit.
- When your car has built-in FM/MW/LW aerial in the rear/side glass, it is necessary to connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.

Warning

If you have a power aerial without a relay box, connecting this unit with the supplied power connecting cord ⑧ may damage the aerial.

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.

Conexiones

Precauciones

- Esta unidad ha sido diseñada para alimentarse con 12 V CC, negativo a masa, solamente.
- Tenga cuidado de no atrapar ningún cable entre algún tornillo y la carrocería del automóvil o esta unidad o entre las partes móviles, como por ejemplo los rafles del asiento, etc.
- Conecte el cable de conexión de alimentación ⑧ a la unidad y los altavoces antes de conectarlo al conector de alimentación auxiliar.
- **Conecte todos los conductores de puesta a masa a un punto común.**
- Conecte el cable amarillo a un circuito libre del automóvil de potencia nominal superior a la del fusible de la unidad. Si conecta esta unidad en combinación con otros componentes estéreo, la potencia nominal del circuito del automóvil a los que dichos componentes estén conectados debe ser superior a la suma de la potencia nominal del fusible de los componentes. Si no existen circuitos de automóvil de potencia nominal tan alta como la del fusible de la unidad, conecte ésta directamente a la batería. Si no hay circuitos de automóvil disponibles para conectar esta unidad, conecte la misma a un circuito de automóvil de potencia nominal superior a la del fusible de la unidad de forma que no se desactiven otros circuitos si el fusible de dicha unidad se funde.

Notas de ejemplo de conexiones

Notas sobre cables de control

- El cable (azul) de control de la antena motorizada suministra +12 V CC al encender el sintonizador o al activar la función AF (Frecuencias alternativas) o TA (Anuncios de tráfico).
- Con esta unidad no podrá utilizarse una antena motorizada sin caja de relés.
- Si el automóvil dispone de una antena de FM/MW/LW incorporada en el cristal trasero/lateral, será necesario conectar el cable de control de antena motorizada (azul) o el cable de entrada de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener información detallada, consulte a su proveedor.

Advertencia

Si dispone de una antena motorizada sin dispositivo de relé, la conexión de esta unidad con el cable de conexión de alimentación ⑧ suministrado puede dañar la antena.

Conexión para protección de la memoria

Si conecta el cable de entrada de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, incluso aunque ponga la llave de encendido en la posición de apagado.

Notas sobre la conexión de los altavoces

- Antes de conectar los altavoces, desconecte la alimentación de la unidad.
- Utilice altavoces con una impedancia de 4 a 8 ohmios, y con la potencia máxima admisible adecuada, ya que de lo contrario podría dañarlos.
- No conecte los terminales del sistema de altavoces al chasis del automóvil, ni los del altavoz izquierdo a los del derecho.
- No intente conectar los altavoces en paralelo.
- No conecte altavoces activos (con amplificadores incorporados) a los terminales de altavoces de la unidad. Si lo hiciese, podría dañar tales altavoces. Por lo tanto, cerciórese de conectar altavoces pasivos a estos terminales.

Anslutning

Säkerhetsföreskrifter

- Denna bilstereo är endast avsedd för anslutning till ett negativt jordat, 12 V bilbatteri.
- Var noga med att inga kablar kläms mellan någon skruv eller att de blir klämda mellan rörliga delar som t.ex. bilsätet.
- Anslut strömkabeln ⑧ till enheten och högtalarna innan du ansluter den till den yttre strömanslutning.
- **Dra samtliga jordledningar till en och samma jordningspunkt.**
- Anslut den gula kabeln till en ledig bilkrets med en högre ampere än enhetens. Om du seriekopplar enheten till andra stereokomponenter måste den bilkrets de kopplas till ha en högre ampere än summan av de enskilda delarnas amperestyrka. Om det inte finns några bilkretsar med en så hög amperestyrka som enhetens ska du ansluta enheten direkt till batteriet. Om inga bilkretsar finns för anslutning till enheten ska du ansluta enheten till en bilkrets med en högre ampere än enhetens styrka så att inga andra säkringar går om enhetens säkring smälter.

Att observera angående anslutningsexemplen

Att observera angående de olika styrkablarna

- Motorantennens styrkabel (blå) leder +12 V DC när du slår på radion och när du aktiverar någon av funktionerna AF (alternativ frekvens) eller TA (trafikmeddelanden).
- En motorantenn utan styrrelädosa kan inte anslutas till denna bilstereo.
- Om bilen har en FM/MW/LW- antenn inbyggd i bak- eller sidorutan måste du ansluta motorantennens styrkabel (blå) eller strömkabeln för tillbehör (röd) till strömterminalen på den befintliga antennförstärkaren. Din återförsäljare kan ge dig mer information om detta.

Varning

Om du har en motorantenn utan relädosa kan antennen skadas om du ansluter enheten med den medföljande strömkabeln ⑧.

Anslutning för minnesstöd

När du anslutit den gula, ingående strömkabeln försörjs minneskretsen med ström hela tiden, även när tändlåset slås ifrån.

Att observera angående högtalarnas anslutning

- Slå av bilstereon innan du ansluter högtalarna.
- Anslut endast högtalare, vars impedans varierar från 4 till 8 ohm och som har tillräcklig effekthanteringskapacitet för att skydda högtalarna mot skador.
- Anslut inte något av högtalaruttagen till bilens chassi. Anslut inte heller uttagen på höger högtalare till uttagen på vänster högtalare.
- Anslut inte högtalarna parallellt.
- Anslut inte aktiva högtalare (med inbyggda slutsteg) till bilstereons högtalaruttag, eftersom de kan skada de aktiva högtalarna. Var noga med att bara ansluta passiva högtalare till dessa uttag.

Ligações

Advertência

- Este aparelho foi concebido para funcionar somente com corrente contínua de 12 V com negativo à massa.
- Tenha cuidado para que os fios não fiquem entalados entre os parafusos e a carroçaria do automóvel ou a caixa do aparelho nem entre as peças móveis, por exemplo, as calhas dos bancos, etc.
- Ligue o cabo de alimentação de corrente ⑧ ao aparelho e aos altifalantes antes de o ligar ao conector de corrente auxiliar.
- **Ligue todos os fios de terra num ponto de massa comum.**
- Ligue o cabo amarelo a um circuito eléctrico livre do automóvel, cuja tensão seja superior à dos fusíveis do aparelho. Se ligar este aparelho em série com outros componentes estéreo, a tensão do circuito eléctrico do automóvel onde os ligar tem de ser superior à soma das tensões dos fusíveis de todos os componentes individuais. Se não houver nenhum circuito eléctrico do automóvel com uma tensão tão elevada como a dos fusíveis do aparelho, ligue-o directamente à bateria. Se não estiver disponível nenhum circuito eléctrico do automóvel para ligação deste aparelho, ligue-o a um circuito eléctrico do automóvel com uma potência nominal superior à dos fusíveis do aparelho, de tal modo que, se o aparelho rebentar os fusíveis respectivos, nenhum outro circuito seja cortado.

Notas sobre o exemplo de ligação

Notas sobre os fios de controlo

- O fio de controlo da antena eléctrica (azul) fornece +12 V DC quando ligar o sintonizador ou quando activar a função AF (Frequência alternativa), TA (Informações sobre o trânsito).
- Com este aparelho, não pode utilizar uma antena eléctrica sem relé.
- Se o automóvel tiver uma antena FM/MW/LW-integrada no vidro traseiro/lateral, é necessário ligar o fio de controlo da antena eléctrica (azul) ou o cabo de alimentação para acessórios (vermelho) ao terminal eléctrico do amplificador de sinal de antena existente. Para obter mais informações, consulte o concessionário.

Atenção

Se a antena eléctrica não tiver uma caixa de relé, o facto de ligar este aparelho com o cabo de alimentação ⑧ fornecido, pode provocar danos na antena.

Ligação para alimentação contínua da memória

Quando o fio amarelo de entrada de alimentação for ligado, os circuitos de memória ficarão com alimentação contínua, mesmo se a chave de ignição estiver desligada.

Notas sobre a ligação dos altifalantes

- Antes de ligar os altifalantes, desligue o aparelho.
- Utilize altifalantes com impedância de 4 a 8 ohm, e com uma potência máxima admissível adequada. Caso contrário, os altifalantes poderão sofrer avarias.
- Não ligue os terminais do sistema de altifalantes ao chassis do automóvel, e não ligue os terminais do altifalante direito aos terminais do altifalante esquerdo.
- Não tente ligar os altifalantes em paralelo.
- Não ligue nenhum sistema de altifalantes activos (com amplificadores incorporados) aos terminais dos altifalantes do aparelho. Se o fizer, pode avariar o sistema de altifalantes activos. Portanto, não se esqueça de ligar altifalantes passivos a estes terminais.

Подсоединение

Предостережения

- Данная автомагнитола предназначена для подключения только к 12-вольтному аккумулятору постоянного тока с заземлением минуса на массу.
- Следите за тем, чтобы не защемить какие-либо провода между винтом и корпусом автомобиля или магнитолы либо между подвижными частями в салоне автомобиля, например, передним сиденьем и металлическими направляющими рейками под ним.
- Подсоедините шнур питания ⑧ сначала к магнитоле и громкоговорителям, а уже потом - к контактам внешнего источника питания.
- **Подведите все провода заземления к одной и той же точке заземления.**
- Подсоедините желтый провод к свободной электроцепи автомобиля с большей силой тока чем та, на которую рассчитан предохранитель магнитолы. Если Вы подсоединяете эту магнитолу в сочетании с другими компонентами стереосистемы, сила тока в электроцепи автомобиля, к которой они подключаются, должна быть больше суммы значений силы тока, на которую рассчитаны предохранители отдельных компонентов. В случае отсутствия в автомобиле контура со столь же высокой силой тока, как та, на которую рассчитан предохранитель магнитолы, подсоедините магнитолу напрямую к аккумулятору. В случае если в автомобиле нет свободных электроцепей для подсоединения магнитолы, подсоедините ее к автоэлектроцепи с силой тока выше того значения, на которое рассчитан предохранитель магнитолы, таким образом, чтобы если он перегорит, другие цепи не прервались.

Примечания к примеру подсоединения

О проводах управления

- По (синему) проводу питания антенны с электрическим приводом осуществляется подача постоянного тока напряжением +12 вольт при включении Вами радиоприемника или задействовании функций AF (альтернативные частоты), TA (дорожные сообщения).
- Электроприводная антенна, не снабженная релейным блоком, с данной магнитолой использоваться не может.
- В случае если Ваш автомобиль оснащен УКВ/СВ/ДВ антенной, встроенной в заднее/боковое стекло, необходимо подсоединить провод управления электроприводной антенны (синий) или дополнительный провод подводки электропитания (красный) к гнезду питания на автомобильном антенном усилителе.
- За более подробными разъяснениями на этот счет обращайтесь к своему дилеру.

Предостережение

Если Вы используете электроприводную антенну без релейного блока, подсоединение данной магнитолы посредством прилагаемого шнура питания ⑧ может привести к повреждению антенны.

Подсоединение для поддержки памяти

Когда к магнитоле подсоединен желтый электрический провод, блок памяти будет постоянно получать питание, даже при выключенном зажигании.

О подсоединении громкоговорителей

- Прежде чем подсоединить громкоговорители, выключите магнитолу.
- Используйте громкоговорители с полным сопротивлением 4-8 Ом, обладающие способностью принимать достаточно мощный сигнал. В противном случае они могут быть повреждены.
- Не подсоединяйте контактные гнезда громкоговорителей к шасси автомобиля и не соединяйте гнезда правого громкоговорителя с гнездами левого.
- Не пытайтесь подсоединить громкоговорители параллельно.
- Не подсоединяйте к гнездам для громкоговорителей на магнитоле какие бы то ни было активные громкоговорители (со встроенными усилителями), поскольку это может привести к повреждению последних. Убедитесь в том, что подсоединяемые громкоговорители относятся к пассивному типу.

Power connection diagram

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

Diagrama de conexión de alimentación

El conector de alimentación auxiliar puede variar en función del automóvil.
Compruebe el diagrama del conector de alimentación auxiliar del automóvil para asegurarse de que las conexiones coinciden correctamente. Existen tres tipos básicos, ilustrados a continuación. Es posible que sea necesario cambiar las posiciones de los cables rojo y amarillo del cable de conexión de alimentación del sistema estéreo del automóvil.
Después de hacer coincidir correctamente las conexiones y los cables de alimentación conmutada, conecte la unidad al suministro de alimentación del automóvil. Si desea realizar alguna consulta o solucionar algún problema referentes a la conexión de la unidad que no aparezcan en este manual, consulte con el concesionario automovilístico.

Strömanslutningsschema

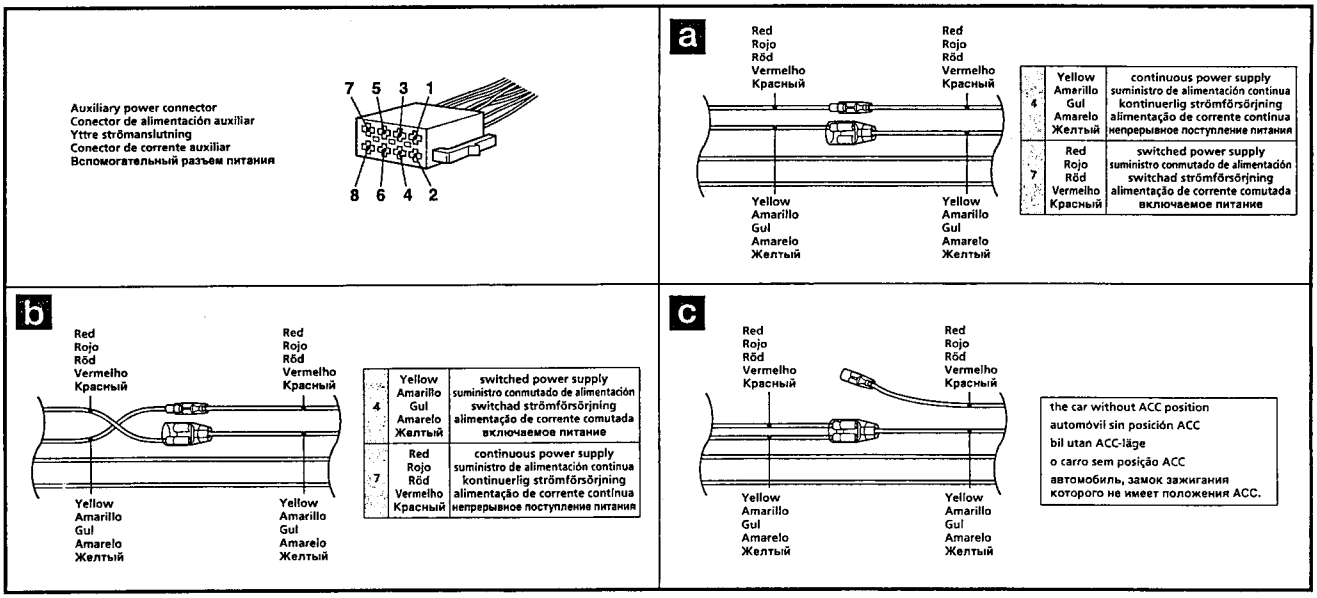
Kontakten för anslutning av tillbehör varierar från bil till bil. Kontrollera hur bilens anslutningskontakt är konstruerad så att du ansluter på rätt sätt. Det finns tre grundläggande typer (visas nedan). Du kan eventuellt behöva växla plats mellan de röda och gula ledningarna i bilstereons strömkabel. Passa ihop ledningarna korrekt.
Och anslut sedan enheten till bilens strömanslutning. Om du får problem eller har frågor som inte besvaras i den här bruksanvisningen kan du kontakta bilåterförsäljaren.

Diagrama de ligação de corrente

O conector de corrente auxiliar pode variar de carro para carro. Verifique o diagrama do conector de corrente auxiliar para se certificar de que as ligações estão bem feitas. Existem três tipos de conectores (ilustrados abaixo).
É possível que tenha de trocar as posições dos fios vermelho e amarelo do cabo de alimentação do autorádio. Depois de fazer a correspondência correcta entre as ligações e os cabos de alimentação comutada, ligue o aparelho à fonte de alimentação do carro.
Se tiver alguma dúvida ou problema relacionado com o aparelho que não esteja incluído neste manual, consulte o concessionário.

Схема подключения питания

В разных автомобилях могут использоваться разные разъемы вспомогательного питания. Для того чтобы убедиться в правильности подсоединения, обязательно сверьтесь со схемой разъема подключения вспомогательного питания Вашего автомобиля. Есть три основных типа (как показано на рисунке ниже). Возможно, при подключении Вам придется поменять местами красный и желтый провода соединительного кабеля питания стереосистемы.
После проверки соответствия разводки разъемов автомобильного электропитания и проводов питания магнитолы подключите магнитолу к автомобильному контуру электропитания. Если у Вас возникли какие-либо вопросы или проблемы, связанные с подключением магнитолы, которые не рассматриваются в настоящем руководстве, обратитесь за советом к дилеру автомобильной фирмы.



Connection diagram

Equipment used in illustrations (not supplied)

- Front speaker / Altavoz delantero / Främre högtalare / Altifalante dianteiro / Передний громкоговоритель
- Rear speaker / Altavoz trasero / Bakre högtalare / Altifalante traseiro / Задний громкоговоритель
- Power amplifier / Amplificador de potencia / Effektförstärkare / Amplificador de potência / Усилитель
- CD/MD changer / Cambiador de CD/MD / CD/MD-skivväxlare / Permutador CD/MD / Проигрыватель CD/MD
- Active subwoofer / Altavoz potenciador de graves activo / Aktiv subwoofer / Subwoofer activo / Активный НЧ громкоговоритель

Diagrama de conexiones

Equipos utilizados en las ilustraciones (no suministrados)

Kopplingsschema

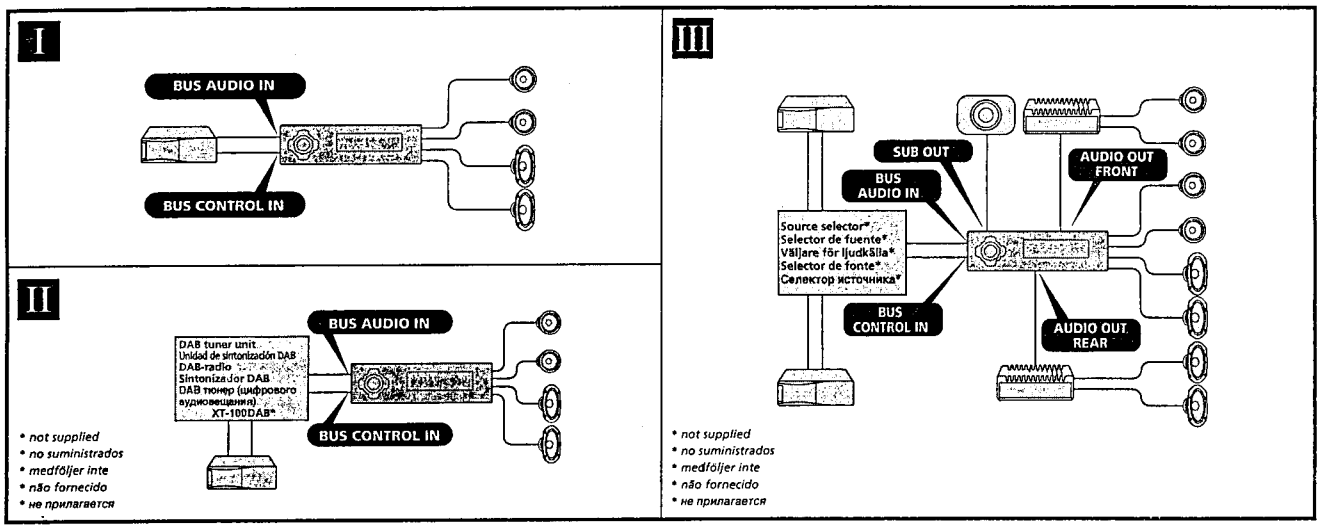
Utrustning som visas i illustrationer (medföljer inte)

Diagrama de ligações

Equipamento utilizado nas ilustrações (não fornecido)

Схема подсоединения

Аппаратура, фигурирующая в иллюстрациях (не прилагается)



* not supplied
* no suministrados
* medföljer inte
* não fornecido
* не прилагается

Notes
- For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.
- Be sure to connect the ground cord before connecting the amplifier.
- If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.

Notas
- Si desea conectar dos o más cambiadores de CD/MD, necesitará el selector de fuente XA-C30 (opcional).
- Asegúrese de conectar primero el cable de puesta a masa antes de realizar la conexión al amplificador.
- Si conecta un amplificador de potencia opcional y no utiliza el incorporado, los pitidos se desactivarán.

Obsevera
- För anslutning av två eller flera CD/MD-skivväxlare krävs väljarna XA-C30 (tillval).
- Var noga med att först ansluta jorden, innan du ansluter förstärkaren.
- Om du väljer att använda en annan förstärkare i stället för den inbyggda, kommer ljudsignalen att avaktiveras.

Notas
- Para ligar um ou mais permutadores CD/MD, é necessário o selector de fonte XA-C30 (opcional).
- Antes de fazer a ligação ao amplificador, tem de ligar primeiro o cabo de ligação à massa.
- Se ligar um amplificador de potência opcional e não utilizar o amplificador integrado, desactiva o sinal sonoro.

Примечания
- Для подсоединения двух или более проигрывателей CD/MD необходим селектор источника XA-C30 (в комплект не входит).
- Прежде чем подключать магнитолу к усилителю, обязательно подсоедините провод заземления.
- Если Вы используете не встроенный усилитель, а дополнительный усилитель, звуковой сигнал будет отключен.

Connection example

*1 *Note for the aerial connecting*
If your car aerial is an ISO (International Organisation for Standardisation) type, use the supplied adaptor (6) to connect it. First connect the car aerial to the supplied adaptor, then connect it to the aerial jack of the master unit.
*2 *RCA pin cord (not supplied)*

Ejemplo de conexiones

*1 *Nota sobre la conexión de la antena*
Si la antena del automóvil es del tipo ISO (International Organization for Standardization), emplee el adaptador suministrado (6) para conectarla. En primer lugar, conecte la antena del automóvil al adaptador suministrado y, a continuación, a la toma de antena de la unidad principal.
*2 *Cable con clavijas RCA (no suministrado)*

Anslutningarna enligt exemplet

*1 *Angående antennanslutning*
Om motorantennen är av ISO-typ (International Organization for Standardization), använder du medföljande adapter (6) för att ansluta den. Anslut först motorantennen till medföljande adapter och därefter till antennuttaget på huvudenheten.
*2 *Kabel med RCA-kontakter (medföljer inte)*

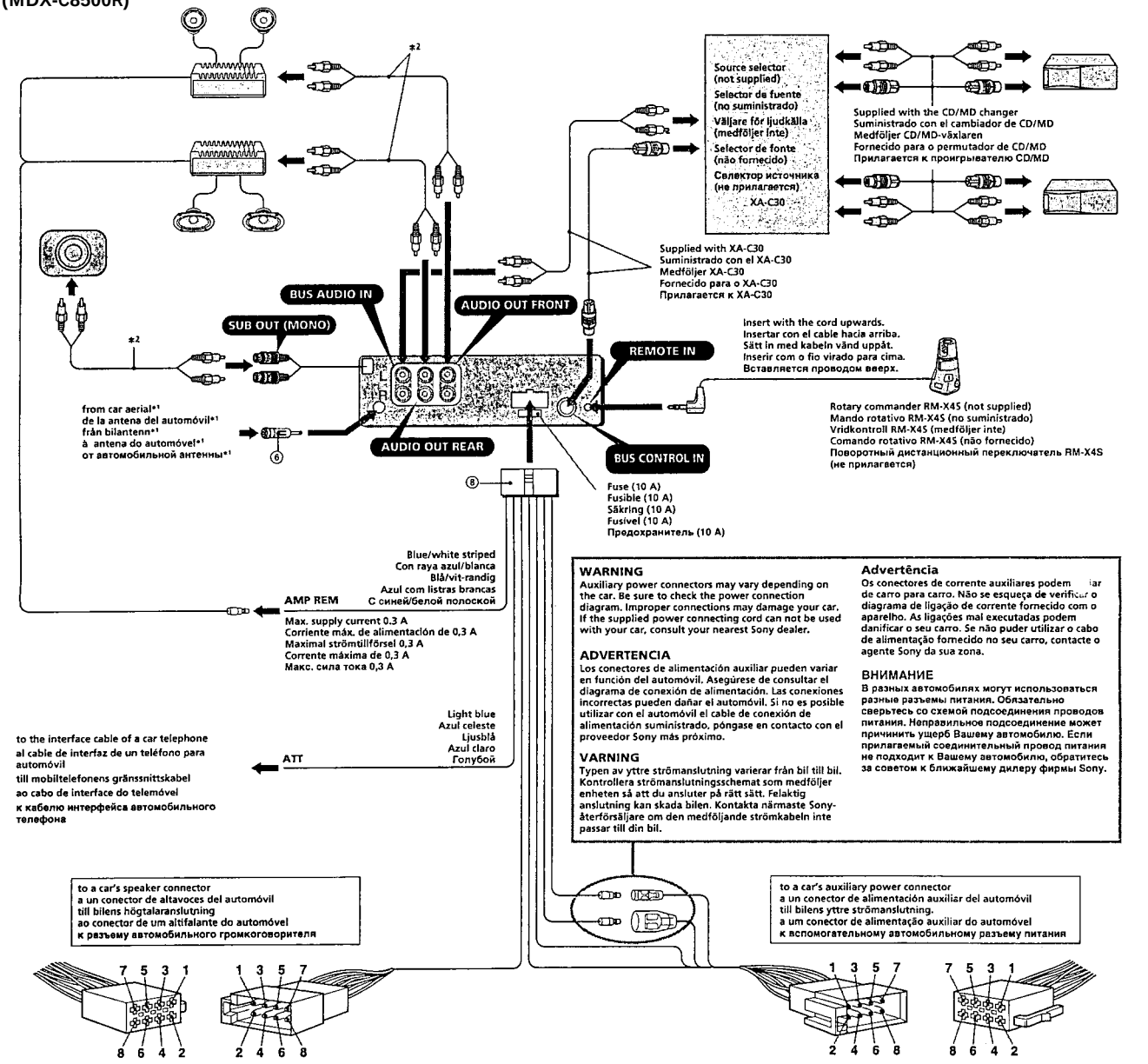
Exemplo de ligações

*1 *Nota referente à ligação da antena*
Se a antena do automóvel for uma antena de tipo ISO (International Organization for Standardization), utilize o adaptador fornecido (6) para fazer a ligação respectiva. Ligue primeiro a antena do automóvel ao adaptador fornecido e depois à ficha tipo jack de antena do sistema principal.
*2 *Cabo de terminais RCA (não fornecido)*

Пример подсоединения

*1 *Примечание о подсоединении антенны*
Если антенна в Вашем автомобиле относится к типу, утвержденному ISO (Международной организацией по стандартизации), используйте для ее подсоединения переходник (6). Сначала подсоедините автомобильную антенну к прилагаемому переходнику, а затем - к антенному гнезду магнитолы.
*2 *Шнур с контактными штырьками RCA (не прилагается)*

(MDX-C8500R)



WARNING
Auxiliary power connectors may vary depending on the car. Be sure to check the power connection diagram. Improper connections may damage your car. If the supplied power connecting cord can not be used with your car, consult your nearest Sony dealer.

ADVERTENCIA
Los conectores de alimentación auxiliar pueden variar en función del automóvil. Asegúrese de consultar el diagrama de conexión de alimentación. Las conexiones incorrectas pueden dañar el automóvil. Si no es posible utilizar con el automóvil el cable de conexión de alimentación suministrado, póngase en contacto con el proveedor Sony más próximo.

VARNING
Typen av yttre strömanslutning varierar från bil till bil. Kontrollera strömanslutningsschemat som medföljer enheten så att du ansluter på rätt sätt. Felaktig anslutning kan skada bilen. Kontakta närmaste Sony-återförsäljare om den medföljande strömkabeln inte passar till din bil.

Advertência
Os conectores de corrente auxiliares podem ...iar de carro para carro. Não se esqueça de verificar o diagrama de ligação de corrente fornecido com o aparelho. As ligações mal executadas podem danificar o seu carro. Se não puder utilizar o cabo de alimentação fornecido no seu carro, contacte o agente Sony da sua zona.

ВНИМАНИЕ
В разных автомобилях могут использоваться разные разъемы питания. Обязательно сверьтесь со схемой подсоединения проводов питания. Неправильное подсоединение может причинить ущерб Вашему автомобилю. Если прилагаемый соединительный провод питания не подходит к Вашему автомобилю, обратитесь за советом к ближайшему дилеру фирмы Sony.

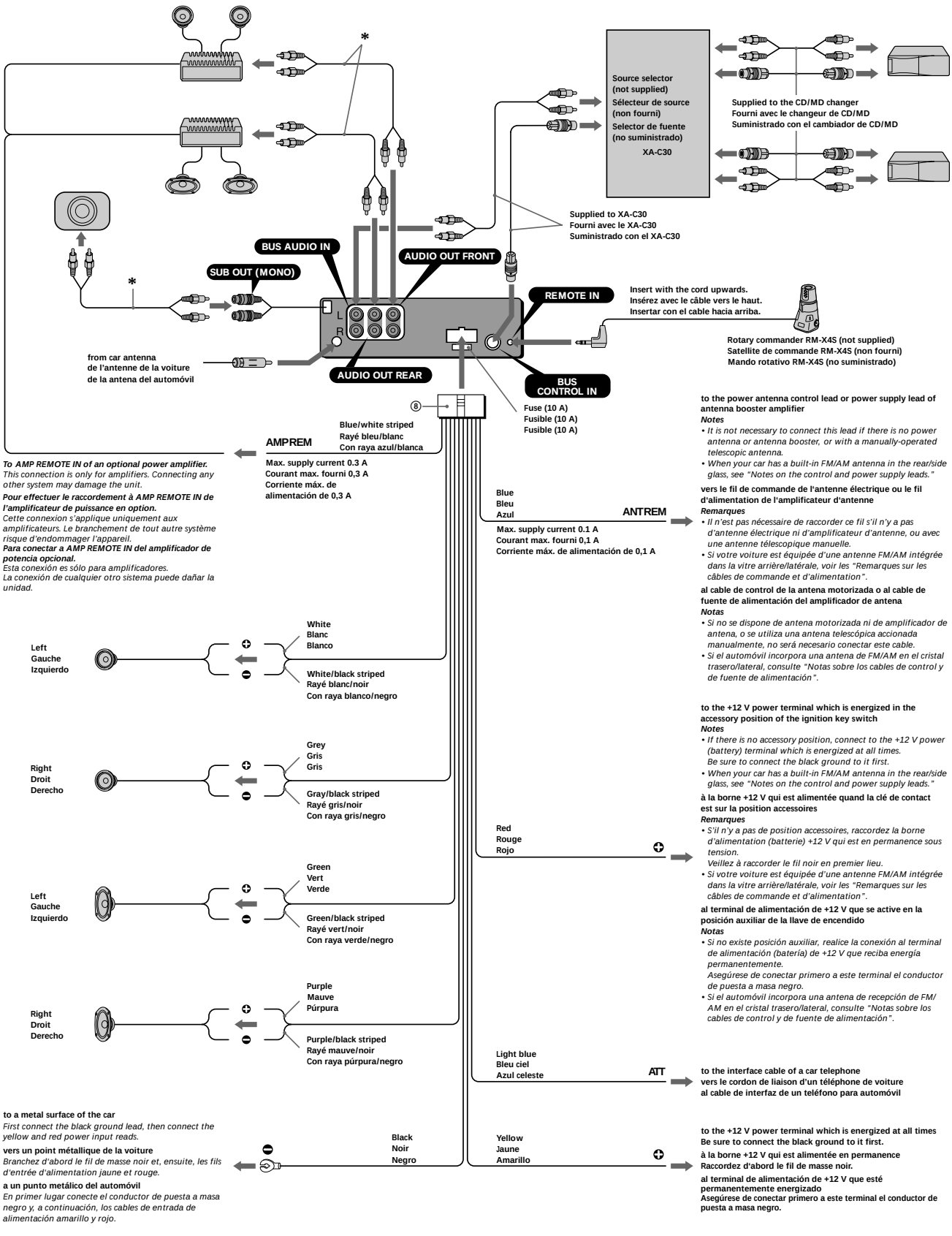
1	Purple Púrpura Violett Violeta Фиолетовый	+	Speaker, Rear, Right Altavoz, parte posterior, derecho Högtalare, bakre, höger Altifalante, Parte de trás, Direito Громкоговоритель, задний, правый	5	White Blanco Vit Branco Белый	+	Speaker, Front, Left Altavoz, parte frontal, izquierdo Högtalare, främre, vänster Altifalante, Parte da frente, Esquerdo Громкоговоритель, передний, левый
2		–	Speaker, Rear, Right Altavoz, parte posterior, derecho Högtalare, bakre, höger Altifalante, Parte de trás, Direito Громкоговоритель, задний, правый	6		–	Speaker, Front, Left Altavoz, parte frontal, izquierdo Högtalare, främre, vänster Altifalante, Parte da frente, Esquerdo Громкоговоритель, передний, левый
3	Grey Gris Grå Cinzento Серый	+	Speaker, Front, Right Altavoz, parte frontal, derecho Högtalare, främre, höger Altifalante, Parte da frente, Direito Громкоговоритель, передний, правый	7	Green Verde Grön Verde Зеленый	+	Speaker, Rear, Left Altavoz, parte posterior, izquierdo Högtalare, bakre, vänster Altifalante, Parte de trás, Esquerdo Громкоговоритель, задний, левый
4		–	Speaker, Front, Right Altavoz, parte frontal, derecho Högtalare, främre, höger Altifalante, Parte da frente, Direito Громкоговоритель, передний, правый	8		–	Speaker, Rear, Left Altavoz, parte posterior, izquierdo Högtalare, bakre, vänster Altifalante, Parte de trás, Esquerdo Громкоговоритель, задний, левый

4	Yellow Amarillo Gul Amarelo Желтый	continuous power supply suministro de alimentación continua kontinuerlig strömförsörjning alimentação de corrente contínua непрерывное поступление питания	7	Red Rojo Röd Vermelho Красный	switched power supply suministro conmutado de alimentación switchad strömförsörjning alimentação de corrente comutada включаемое питание
5	Blue Azul Blå Azul Синий	power aerial control control de antena motorizada styrning av motorantenn antena eléctrica антенная электрика	8	Black Negro Svart Preto Черный	ground toma de tierra jord terra земля
6	Orange/ White Naranja/ blanco Orange/vit Cor de laranja/ branco Оранжевый/ белый	switched illumination power supply fuente de alimentación de iluminación conmutada Switchad strömförsörjning till belysning fonte de alimentação comutada para iluminação подача питания подсветки от зажигания			

Positions 1, 2 and 3 do not have pins.
Las posiciones 1, 2 y 3 no disponen de pines.
Positionerna 1, 2 och 3 saknar stift.
As posições 1, 2 e 3 não têm pinos.
Позиции 1, 2 и 3 не имеют контактных штырьков.

(MDX-C8500X)
Connection example
Exemple de connection
Ejemplo de conexiones

*** RCA pin cord (not supplied)**
Cordon à broche RCA (non fourni)
Cable con pines RCA (no suministrado)



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

Pour effectuer le raccordement à AMP REMOTE IN de l'amplificateur de puissance en option.
Cette connexion s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.

Para conectar a AMP REMOTE IN del amplificador de potencia opcional.
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.

to the power antenna control lead or power supply lead of antenna booster amplifier
Notes
- *It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.*
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

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

al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de antena
Notas
- *Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.*
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero/lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

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

à la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires
Remarques
- *S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est en permanence sous tension. Veillez à raccorder le fil noir en premier lieu.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir les "Remarques sur les câbles de commande et d'alimentation".*

al terminal de alimentación de +12 V que se activa en la posición auxiliar de la llave de encendido
Notas
- *Si no existe posición auxiliar, realice la conexión al terminal de alimentación (batería) de +12 V que reciba energía permanentemente. Asegúrese de conectar primero a este terminal el conductor de puesta a masa negro.*
- *Si el automóvil incorpora una antena de recepción de FM/AM en el cristal trasero/lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

to the interface cable of a car telephone
vers le cordon de liaison d'un téléphone de voiture
al cable de interfaz de un teléfono para automóvil

to a metal surface of the car
First connect the black ground lead, then connect the yellow and red power input reads.

vers un point métallique de la voiture
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.

a un punto metálico del automóvil
En primer lugar conecte el conductor de puesta a masa negro y, a continuación, los cables de entrada de alimentación amarillo y rojo.

to the +12 V power terminal which is energized at all times
Be sure to connect the black ground to it first.

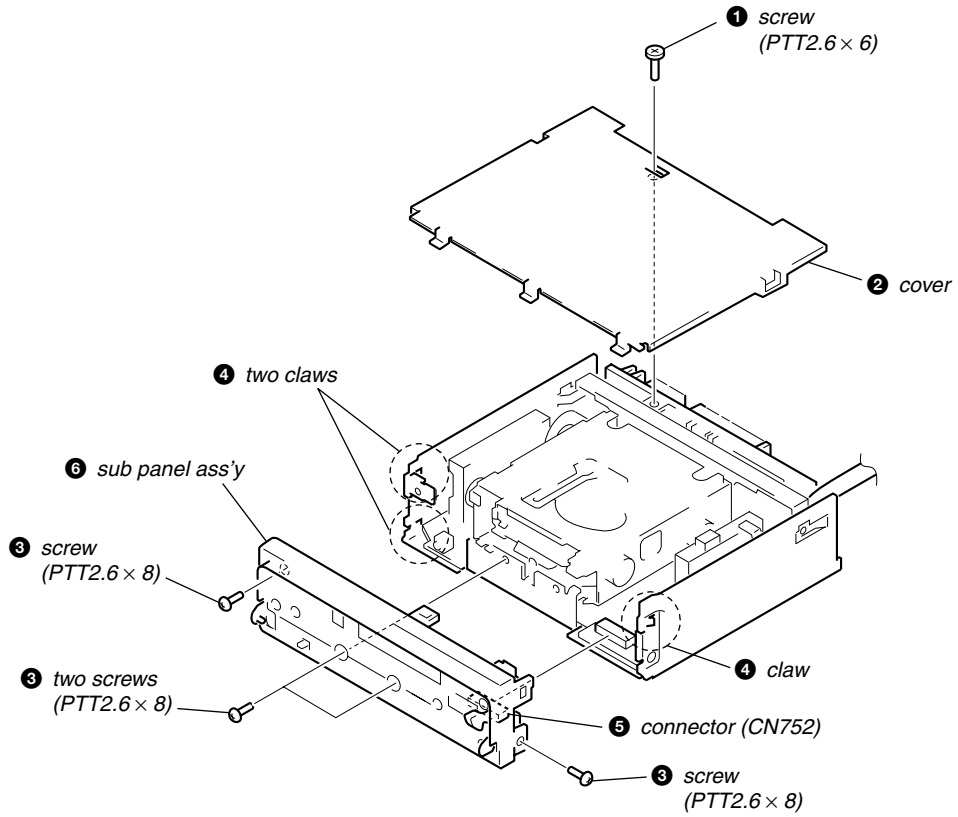
à la borne +12 V qui est alimentée en permanence
Raccordez d'abord le fil de masse noir.

al terminal de alimentación de +12 V que esté permanentemente energizado
Asegúrese de conectar primero a este terminal el conductor de puesta a masa negro.

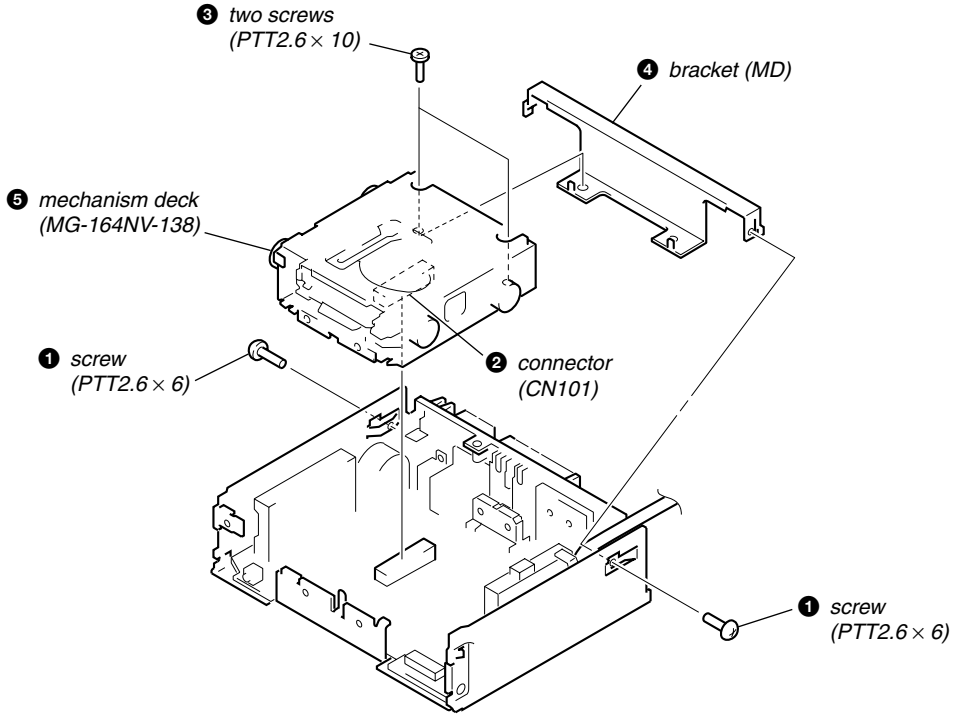
SECTION 3
DISASSEMBLY

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

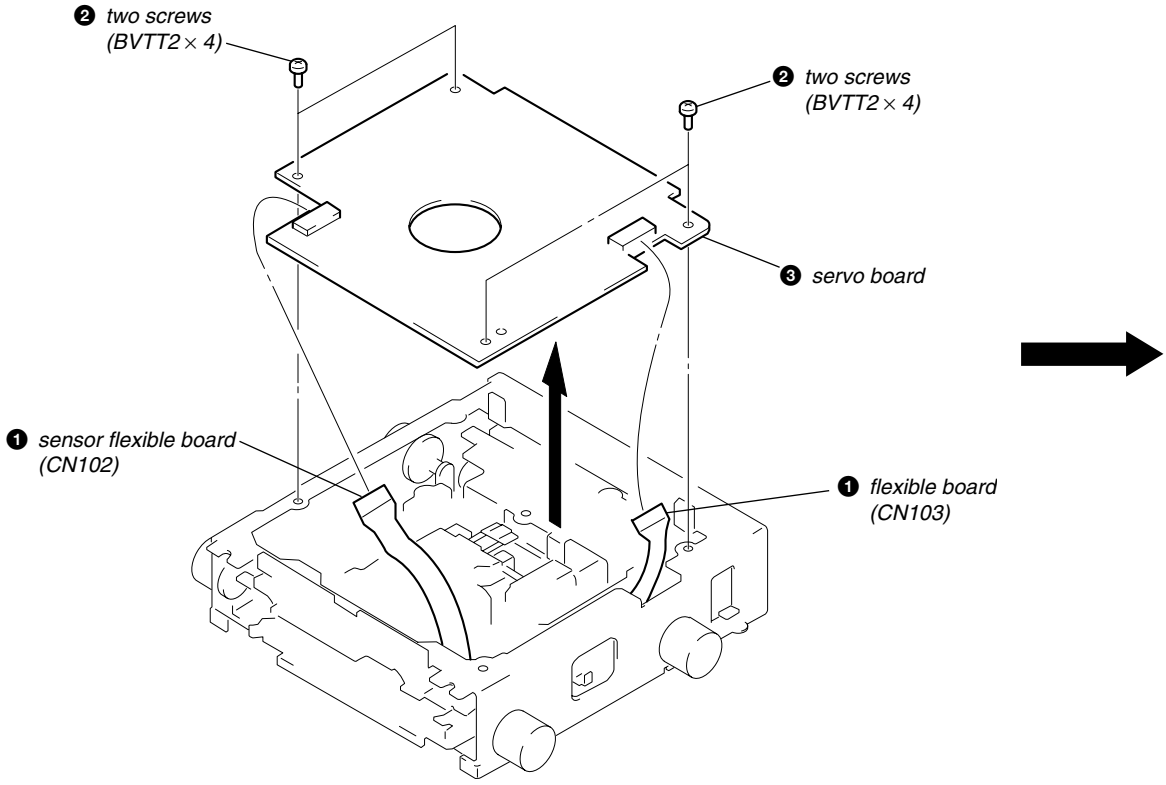
SUB PANEL ASS'Y



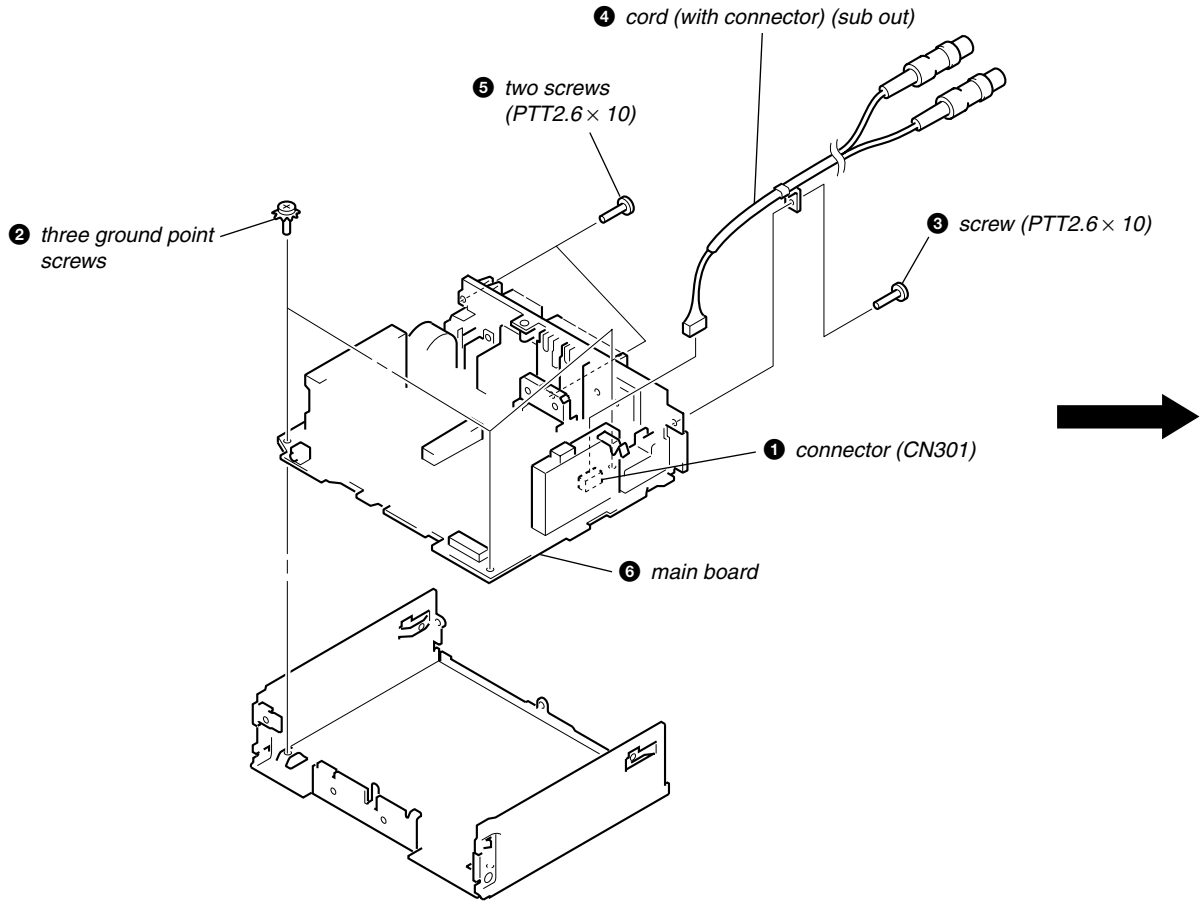
MECHANISM DECK (MG-164NV-138)



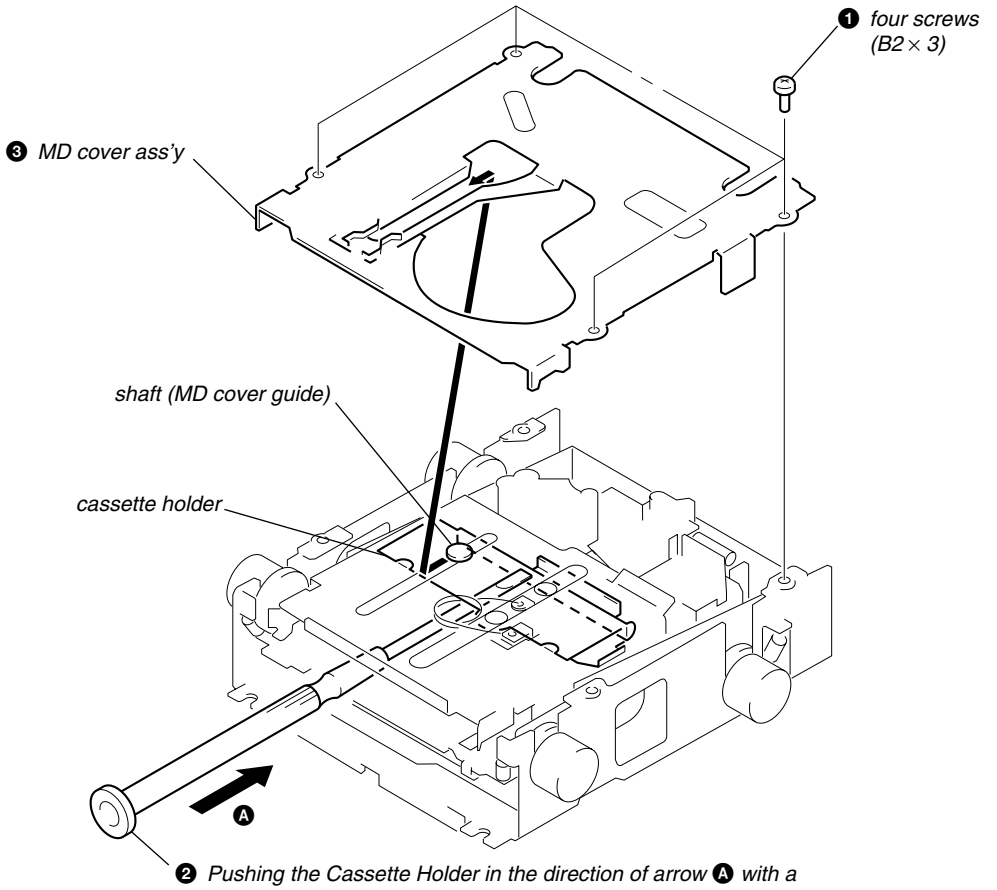
SERVO BOARD



MAIN BOARD



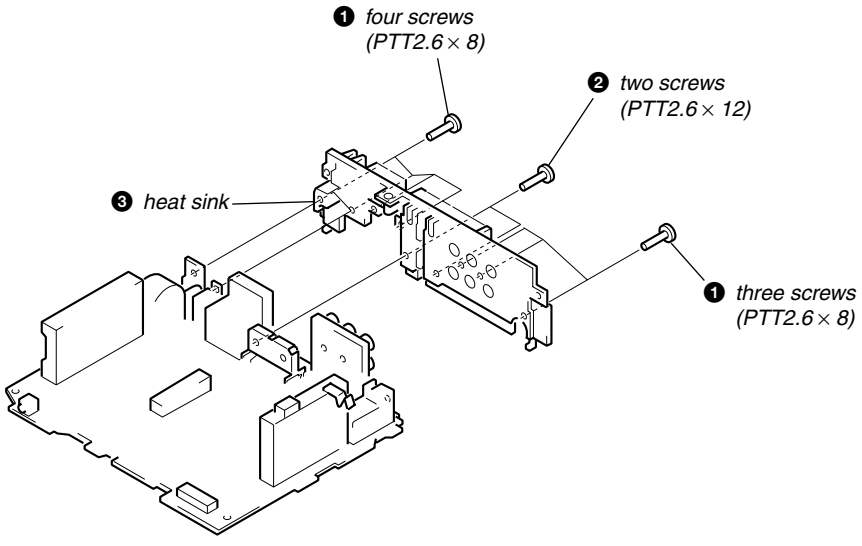
MD COVER ASS'Y



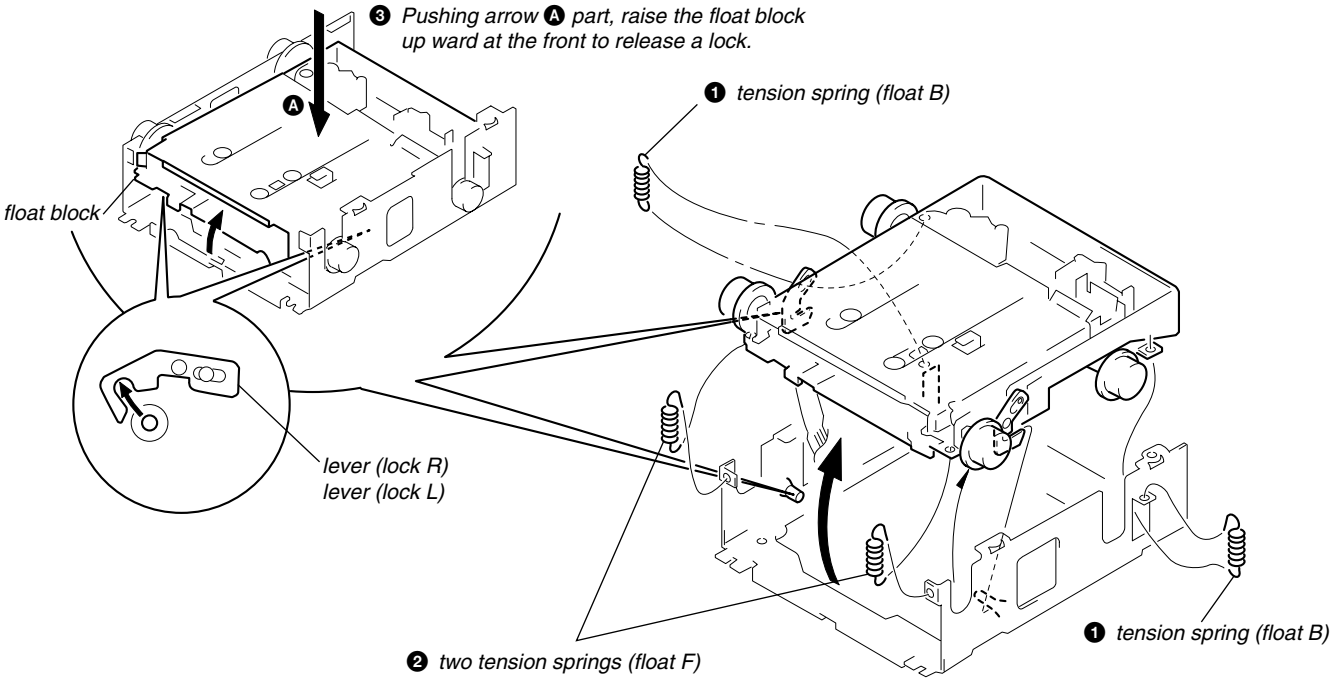
❷ *Pushing the Cassette Holder in the direction of arrow Ⓐ with a screwdriver, etc., disengage the Shaft (MD Cover Guide) from the slot in the MD Cover Assy.*

Note: Take care not to scratch the optiocal Pick-up when pushing the Cassette Holder with a screwdriver. etc.

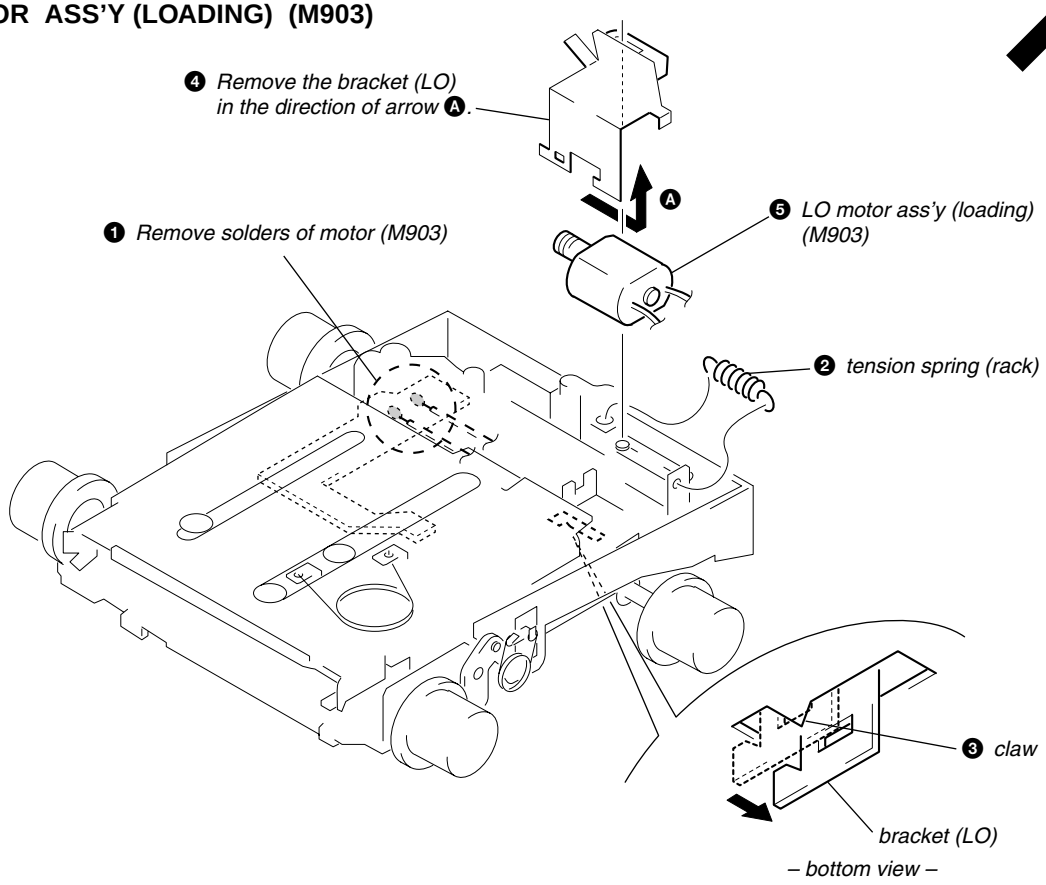
HEAT SINK



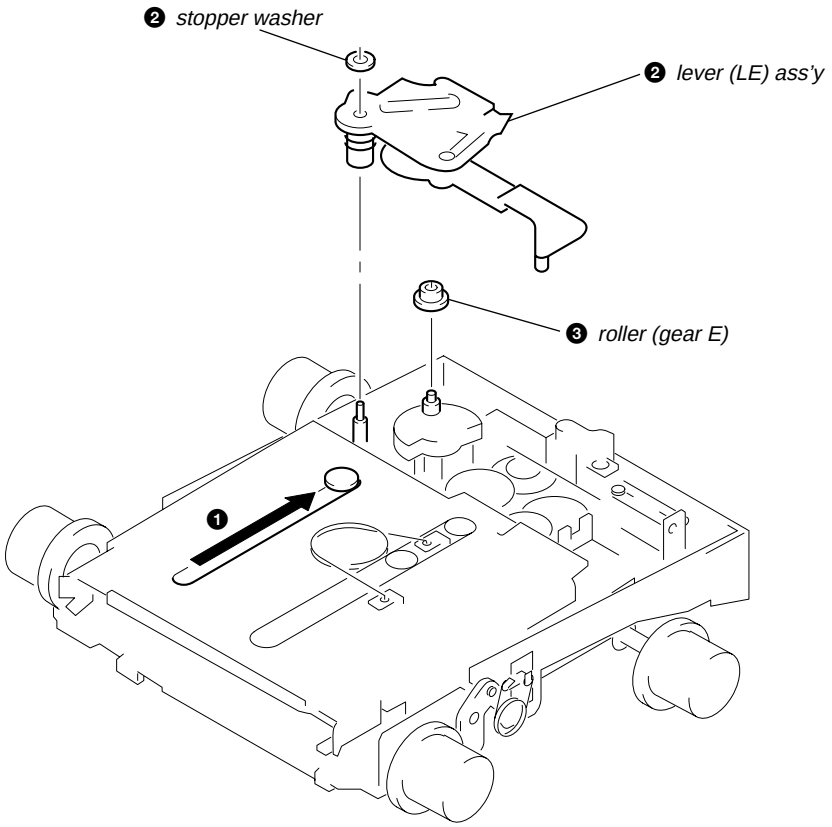
FLOAT BLOCK



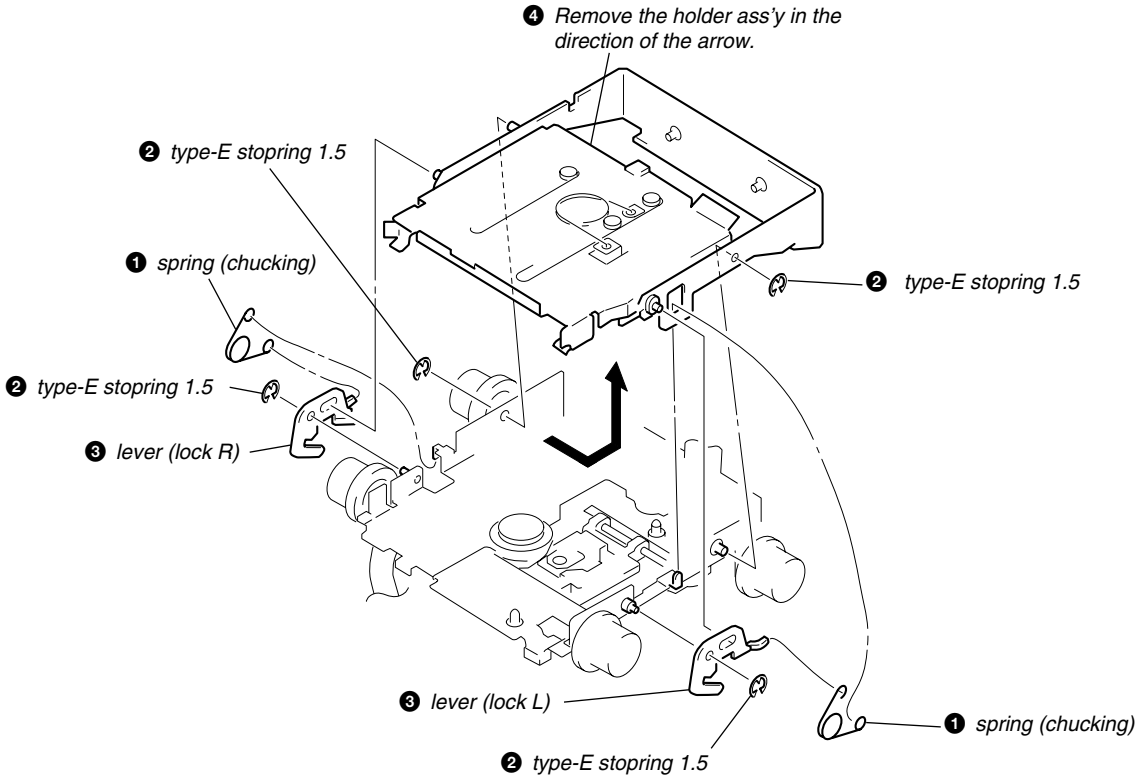
LO MOTOR ASS'Y (LOADING) (M903)



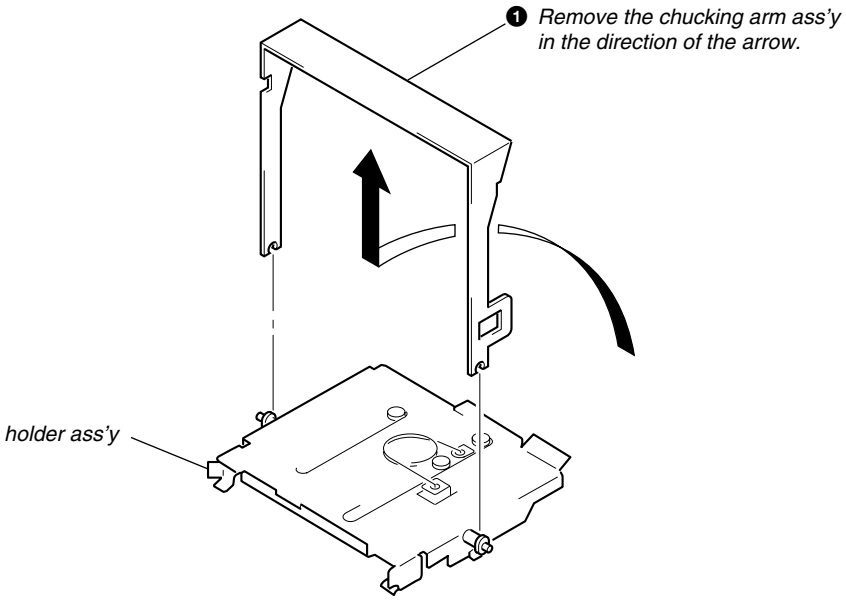
LEVER (LE) ASS'Y



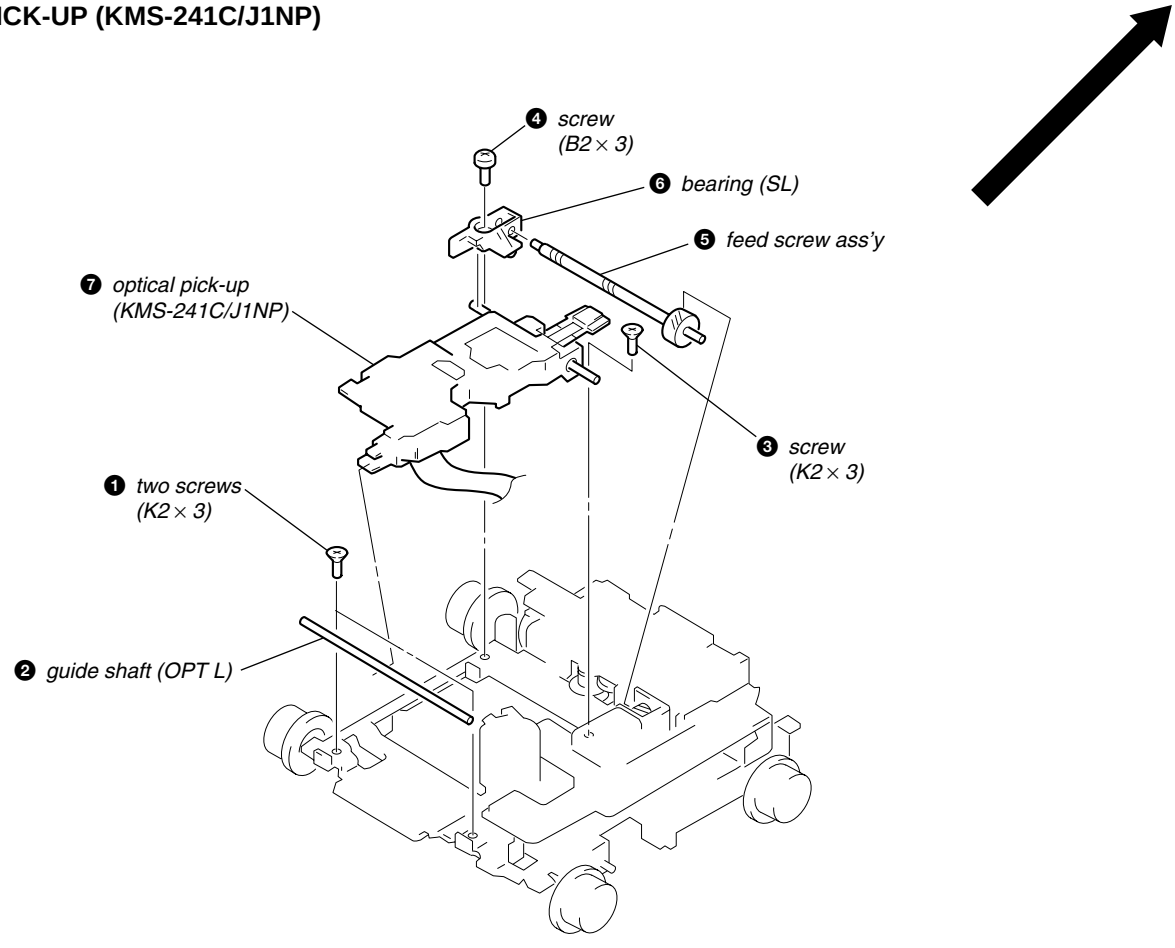
HOLDER ASS'Y



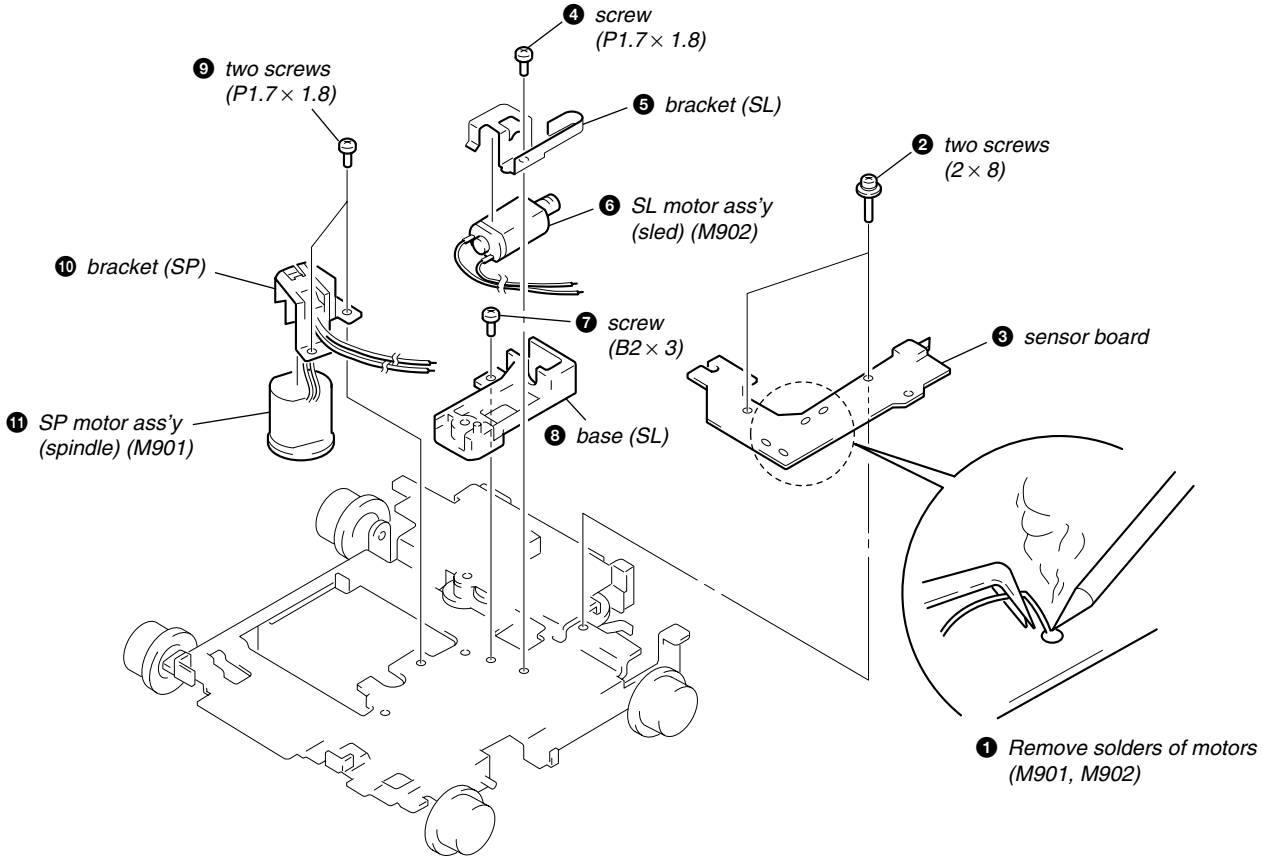
CHUCKING ARM ASS'Y



OPTICAL PICK-UP (KMS-241C/J1NP)



SL MOTOR ASS'Y (SLED) (M902), SP MOTOR ASS'Y (SPINDLE) (M901)



SECTION 4
ELECTRICAL ADJUSTMENTS

TEST MODE

This set have the test mode function.

<Set the Test Mode>

1. Turn ON the regulated power supply. (The clock is displayed)
   Note: Press the [OFF] button, if the clock is not displayed.
2. Push the preset [4] button.
3. Push the preset [5] button.
4. Press the preset [1] button for more than two seconds.
5. Then the display indicates all lights, the test mode is set.

<Release the Test mode>

1. Push the [OFF] button.

MD SECTION

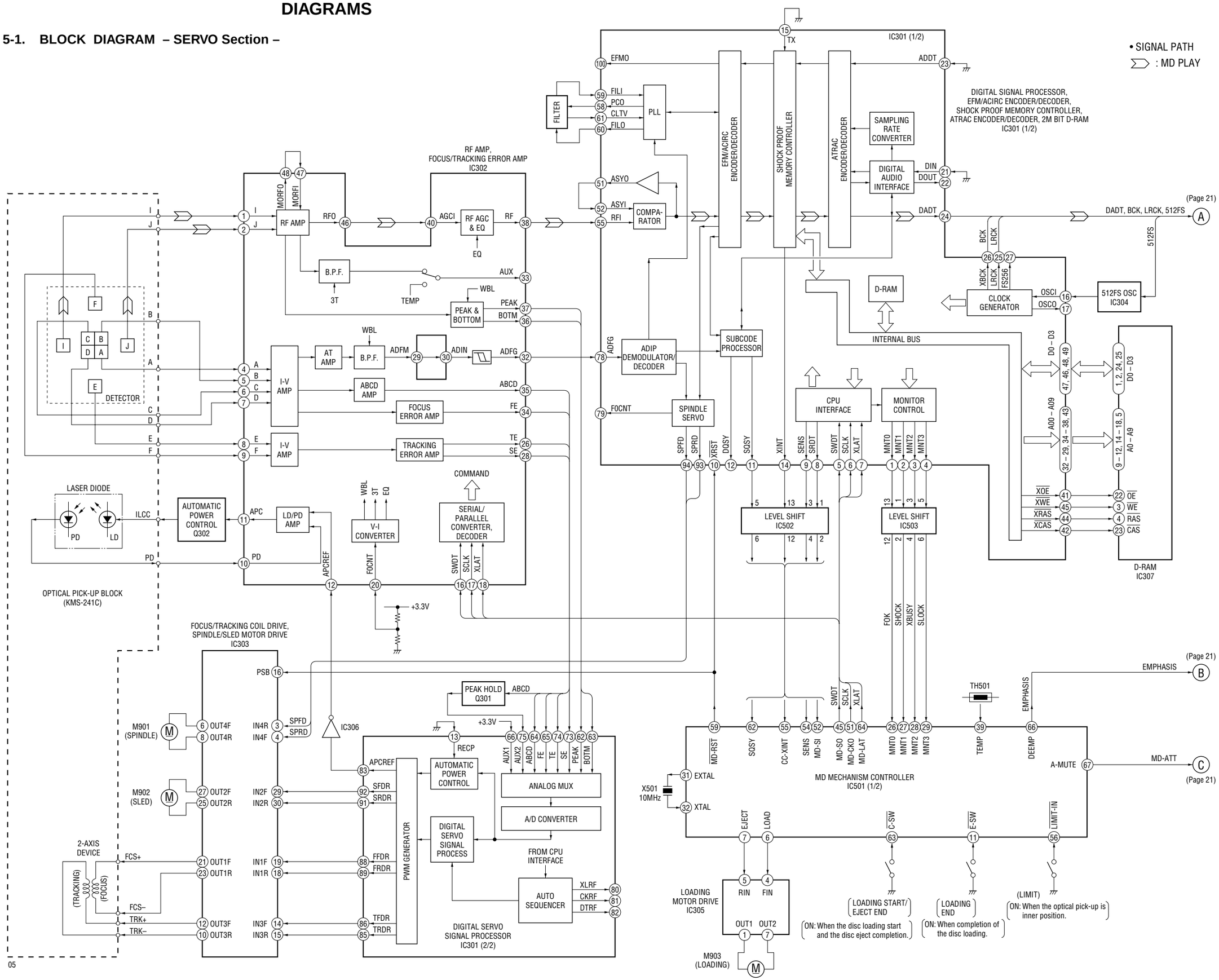
MD section adjustments are done automatically in this set.

TUNER SECTION

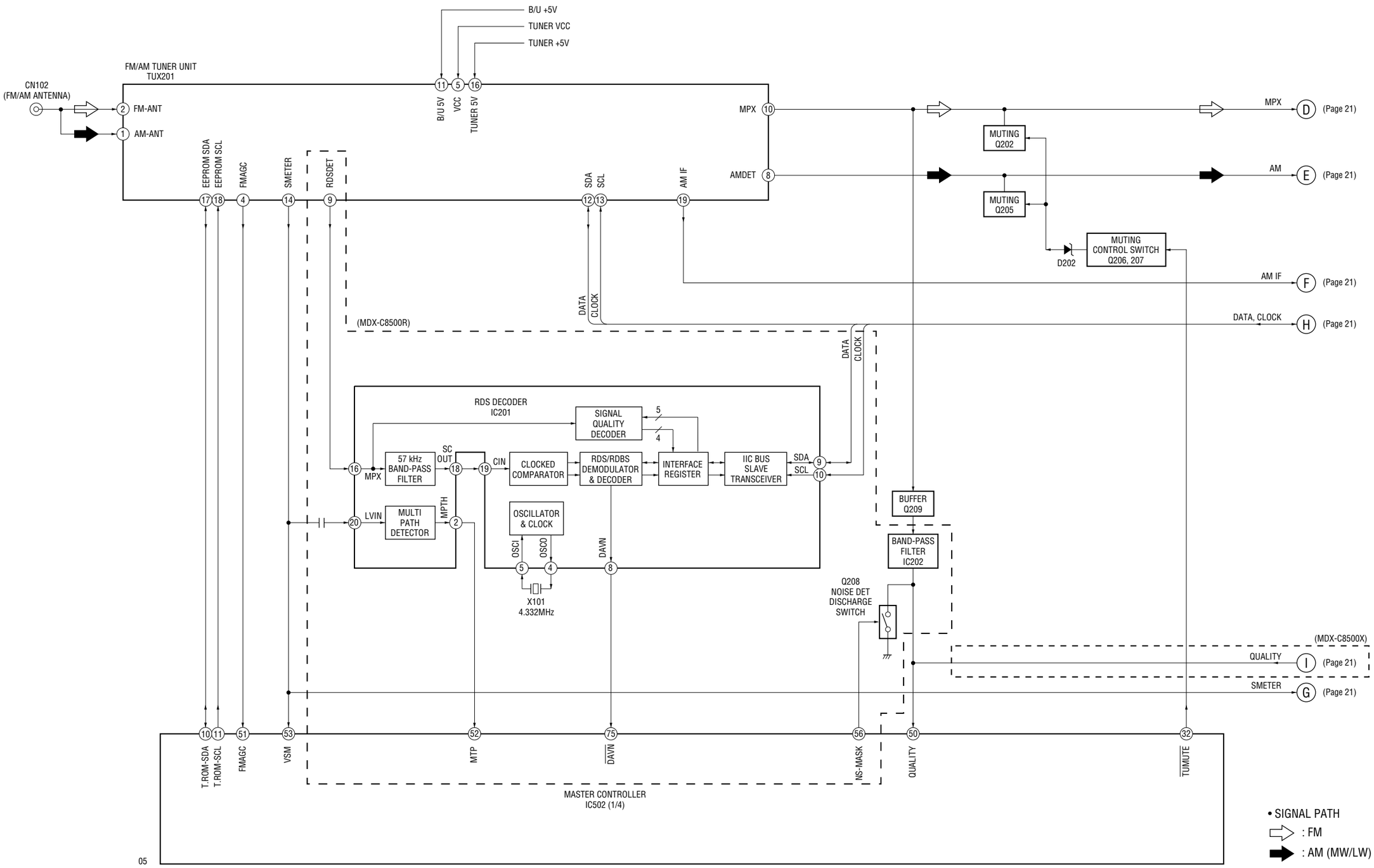
Tuner section adjustments are done automatically in this set.

SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM – SERVO Section –

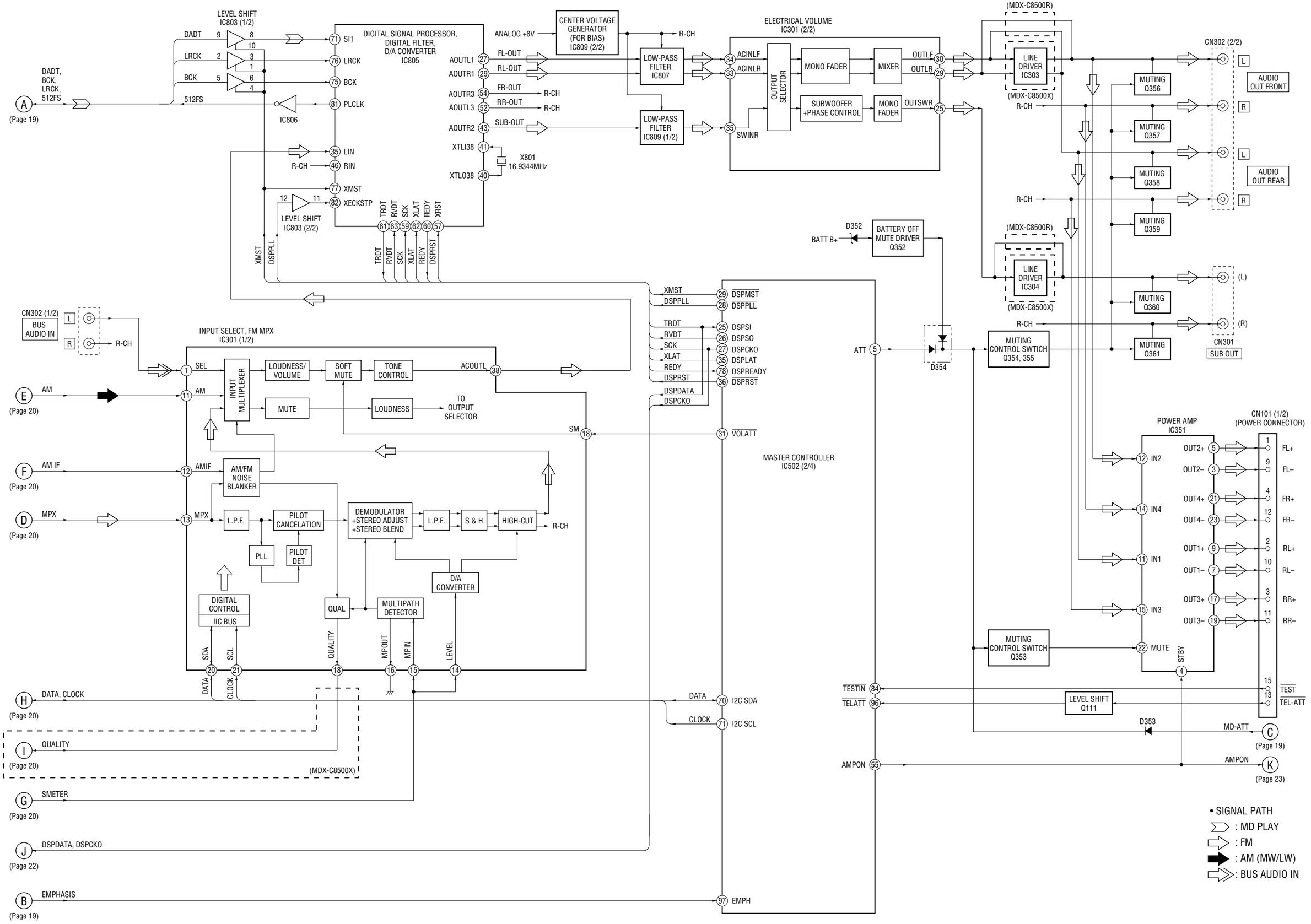


5-2. BLOCK DIAGRAM – TUNER Section –

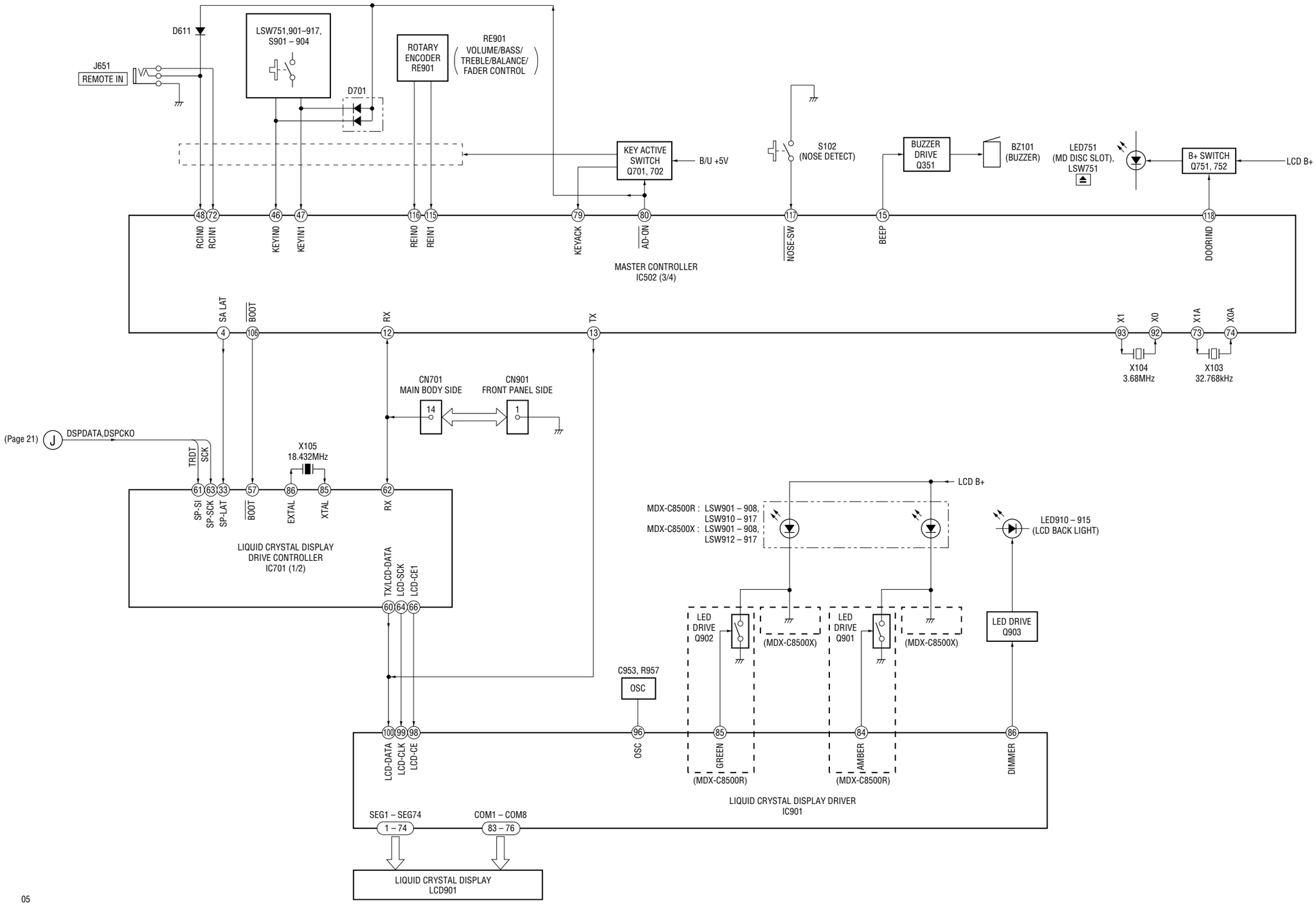


05

5-3. BLOCK DIAGRAM – MAIN Section –

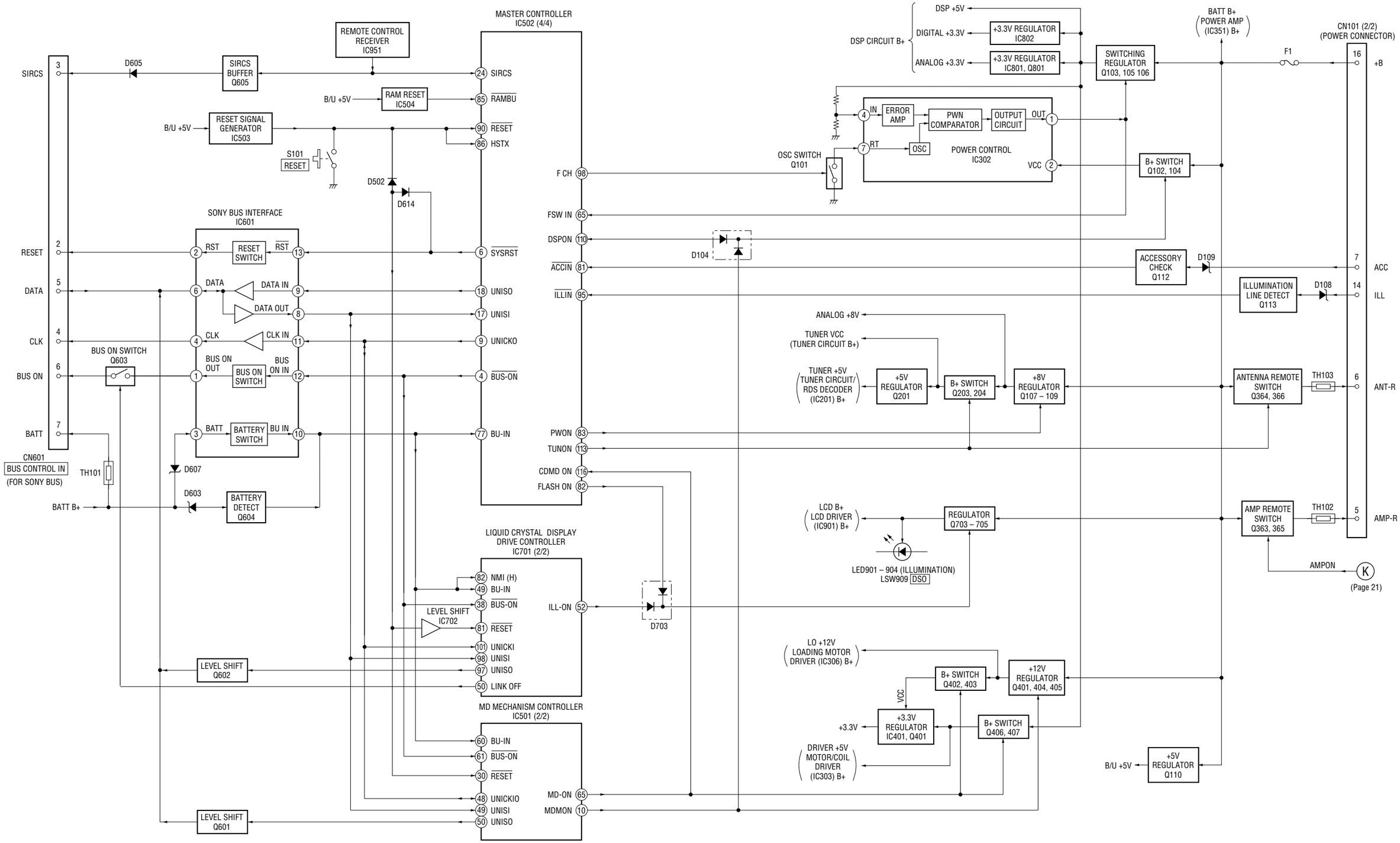


5-4. BLOCK DIAGRAM – DISPLAY/KEY CONTROL Section –



05

5-5. BLOCK DIAGRAM – BUS CONTROL/POWER SUPPLY Section –



5-6. NOTES FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:

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

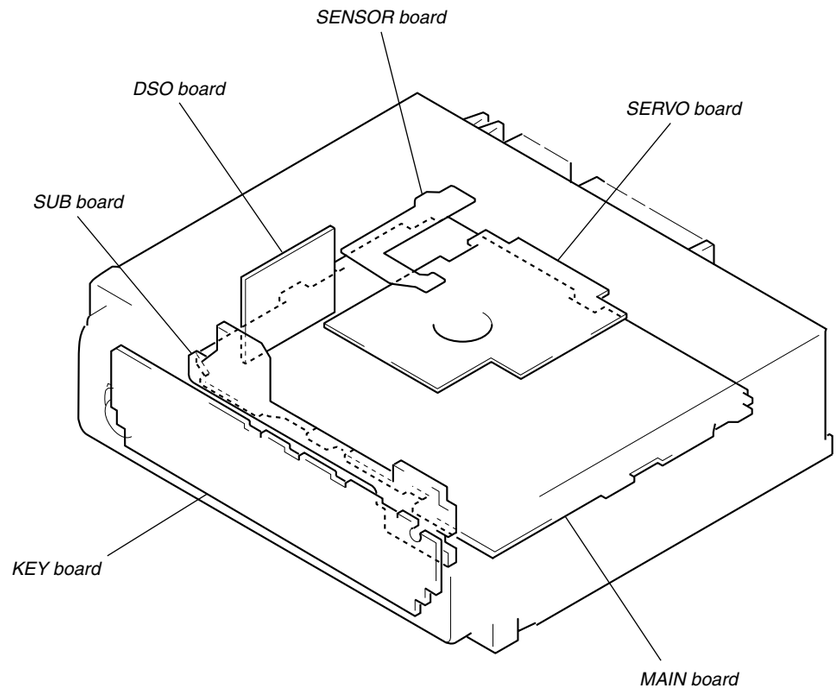
Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

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

- B+ : 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 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : AM (MW/LW)
  - ⇨ : BUS AUDIO IN
  - ⇨ : MD PLAY
- Please refer to servicing notes (page 3) for system of TYPE A, B and C.

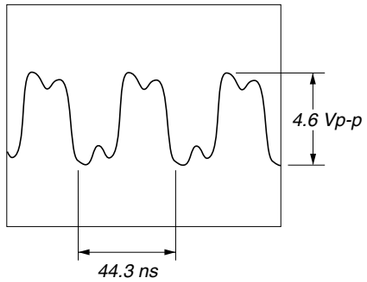
- **Circuit Boards Location**



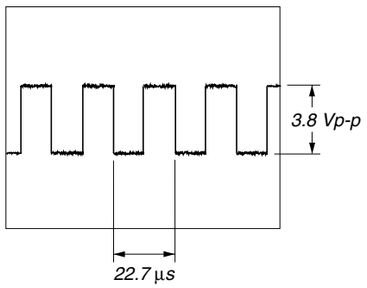
• **Waveforms**

– SERVO Board –

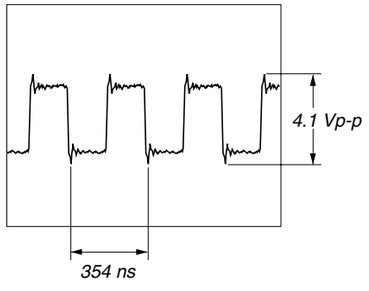
❶ IC301 ⑯ (OSCI) (MD Play Mode)



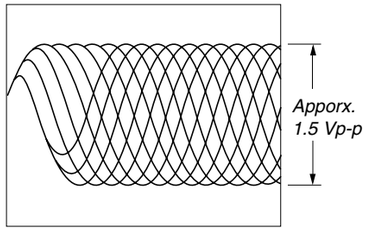
❷ IC301 ㉕ (LRCK) (MD Play Mode)



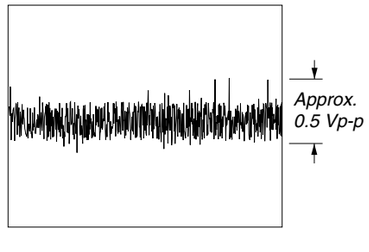
❸ IC301 ㉖ (XBCK) (MD Play Mode)



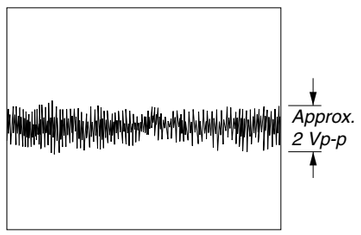
❹ IC301 ㊺ (RFI), IC302 ㊳ (RF) (MD Play Mode)



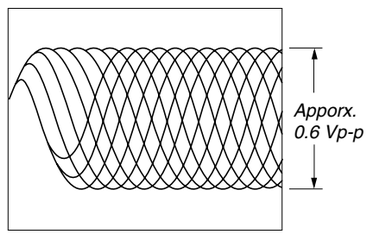
❺ IC301 ㊺ (FE), IC302 ㉞ (FE) (MD Play Mode)



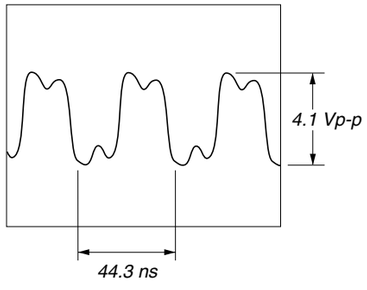
❻ IC301 ㉞ (TE), IC302 ㉖ (TE) (MD Play Mode)



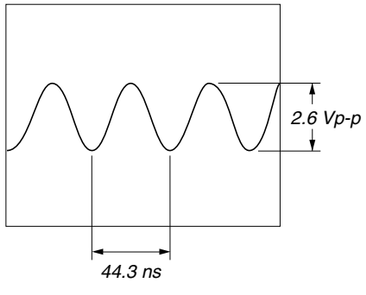
❼ IC302 ①, ②, ㊵, ㊻ (I, J, AGCI, RFO) (MD Play Mode)



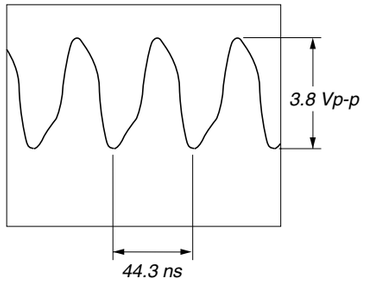
❽ IC304 ①, ② (MD Play Mode)



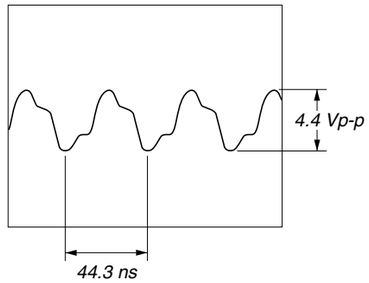
❾ IC304 ③ (MD Play Mode)



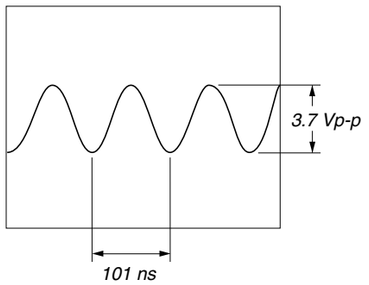
❿ IC304 ⑤, ⑥ (MD Play Mode)



⓫ IC304 ⑦ (MD Play Mode)

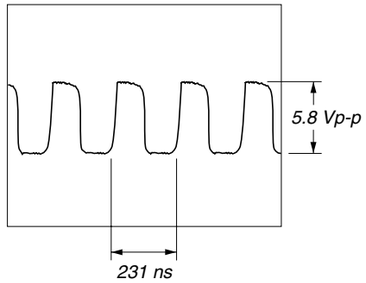


⓬ IC501 ㉛ (EXTAL)

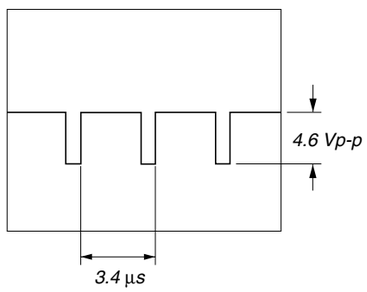


– MAIN Board –

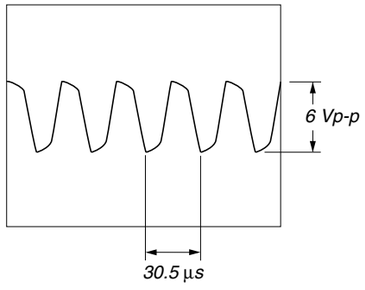
❶ IC201 ④ (OSCO)



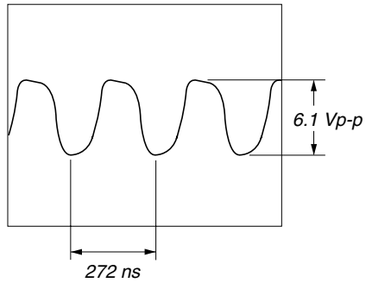
❷ IC502 ㊺ (F OSC)



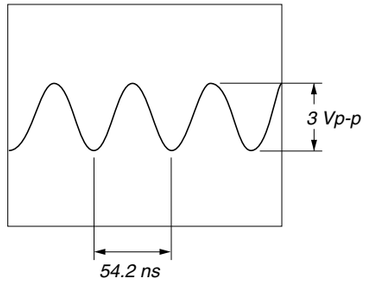
❸ IC502 ㉝ (X1A)



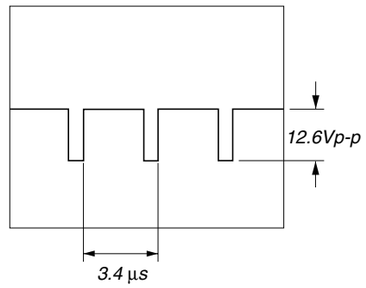
❹ IC502 ㉝ (X1)



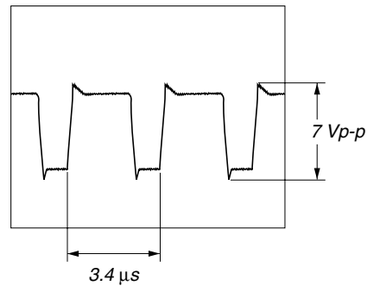
❺ IC701 ㊻ (EXTAL)



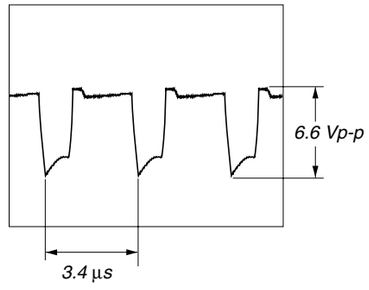
❻ IC302 ① (OUT)



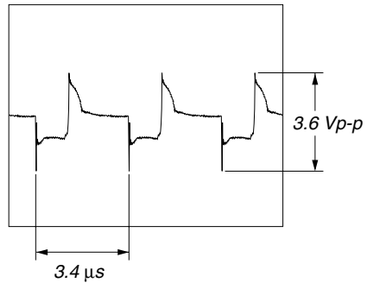
❼ Q103, 106 (Base)



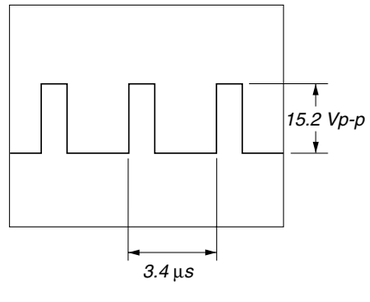
❽ Q103, 106 (Emitter)



❾ Q105 (Base)

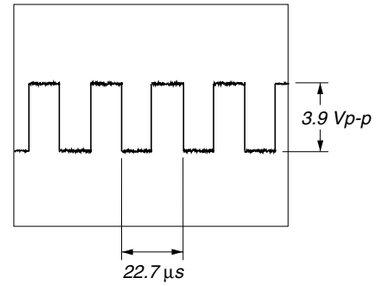


❿ Q105 (Collector)

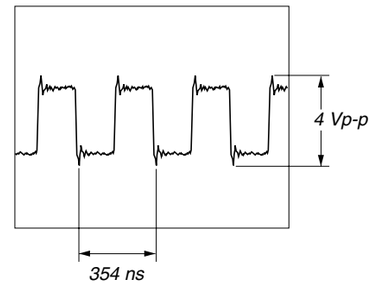


– DSO Board –

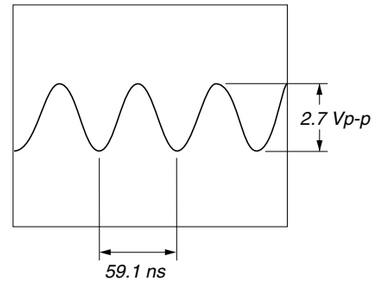
❶ IC803 ③ (MD Play Mode)



❷ IC803 ⑥ (MD Play Mode)

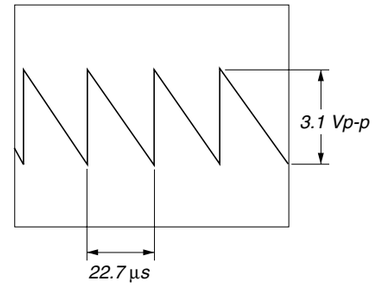


❸ IC805 ㊶ (XTLI38)

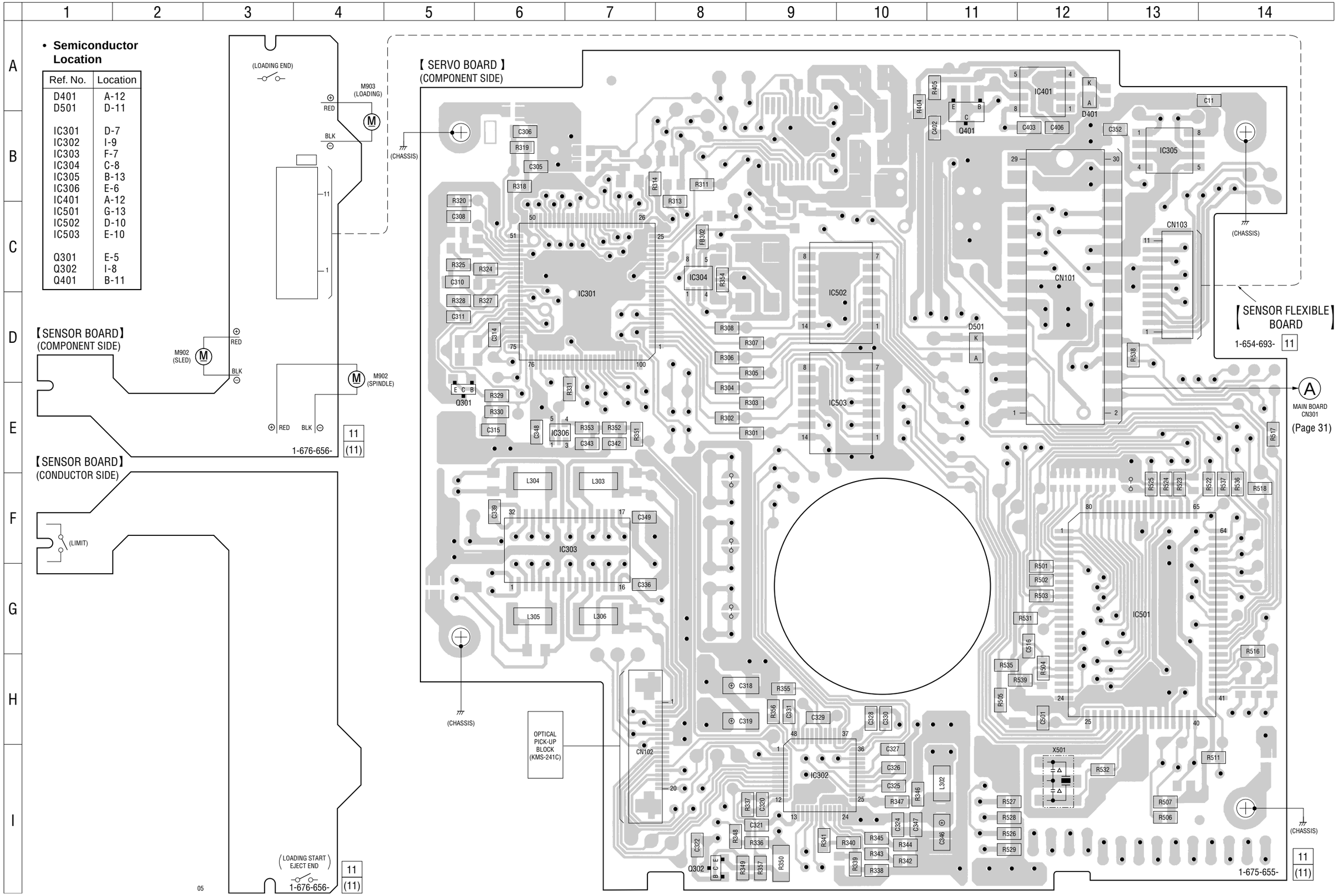


– KEY Board –

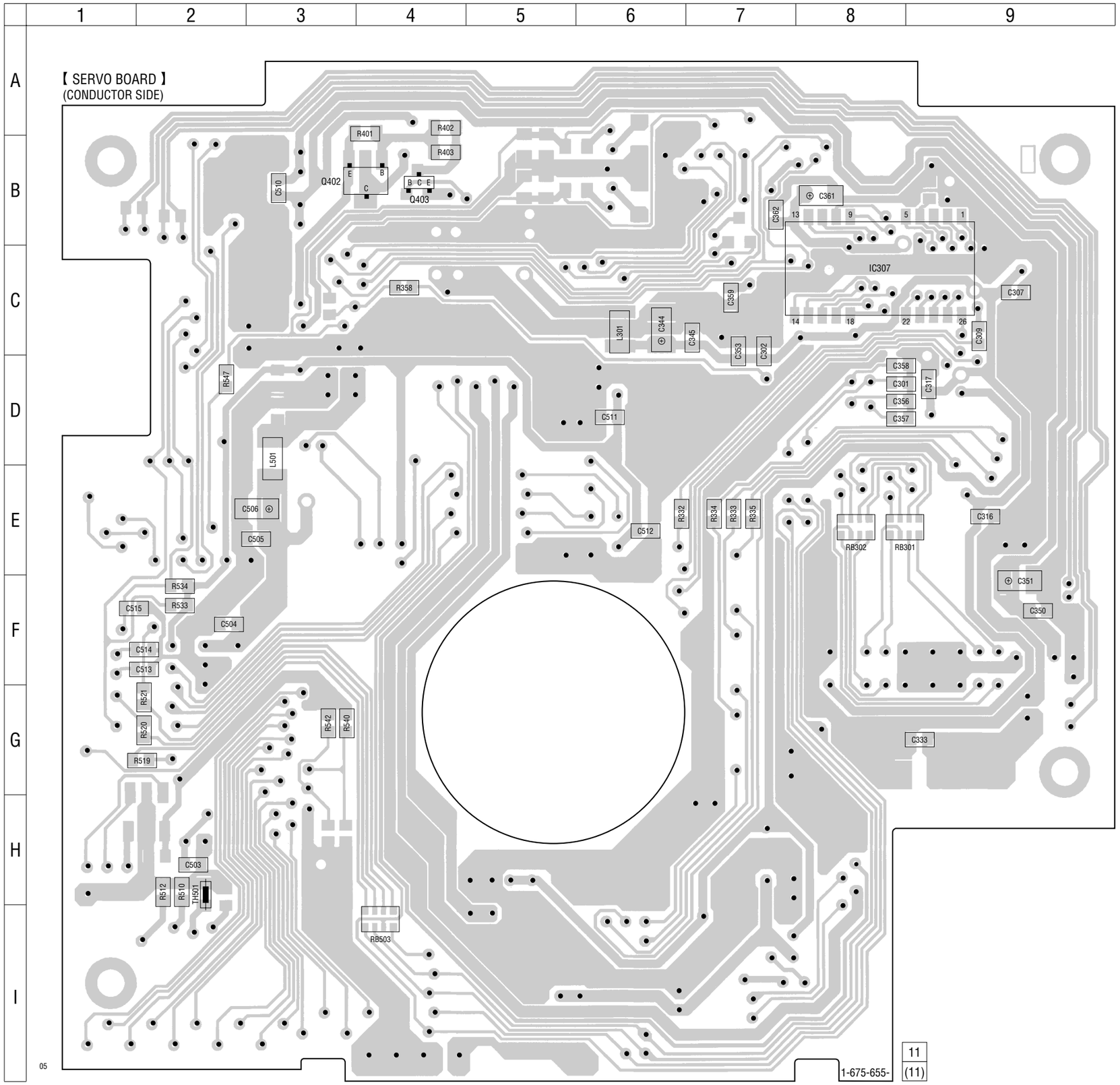
❶ IC901 ㊾ (OSC)



5-7. PRINTED WIRING BOARDS – SERVO Board (Component Side)/SENSOR Board – • See page 24 for Circuit Boards Location.



5-8. PRINTED WIRING BOARD – SERVO Board (Conductor Side) – • See page 24 for Circuit Boards Location.

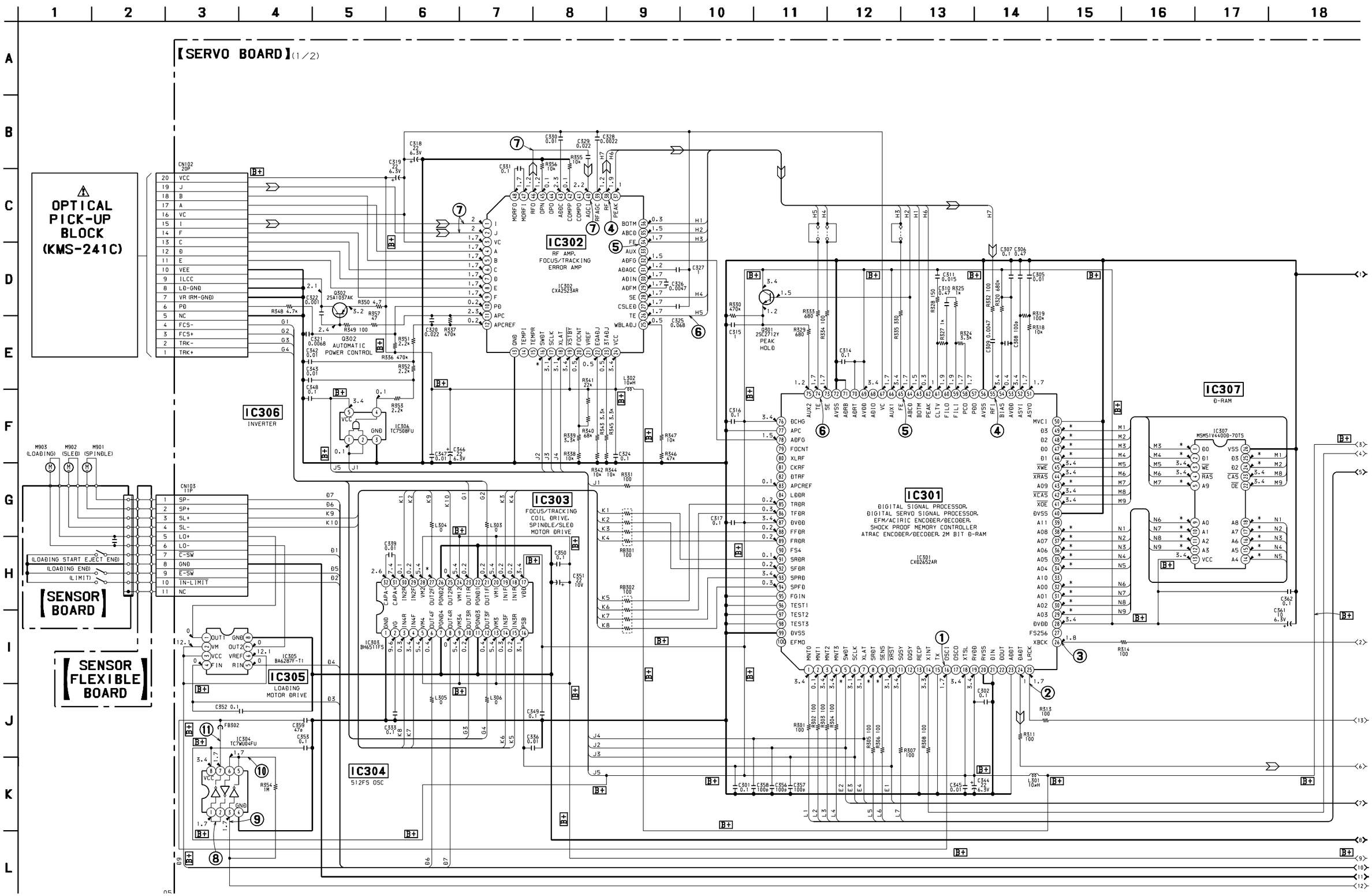


- **Semiconductor Location**

Ref. No.	Location
IC307	C-8
Q402	B-4
Q403	B-4

5-9. SCHEMATIC DIAGRAM – SERVO Board (1/2)/SENSOR Board –

• See page 25 for Waveforms. • See page 42 for IC Block Diagrams.

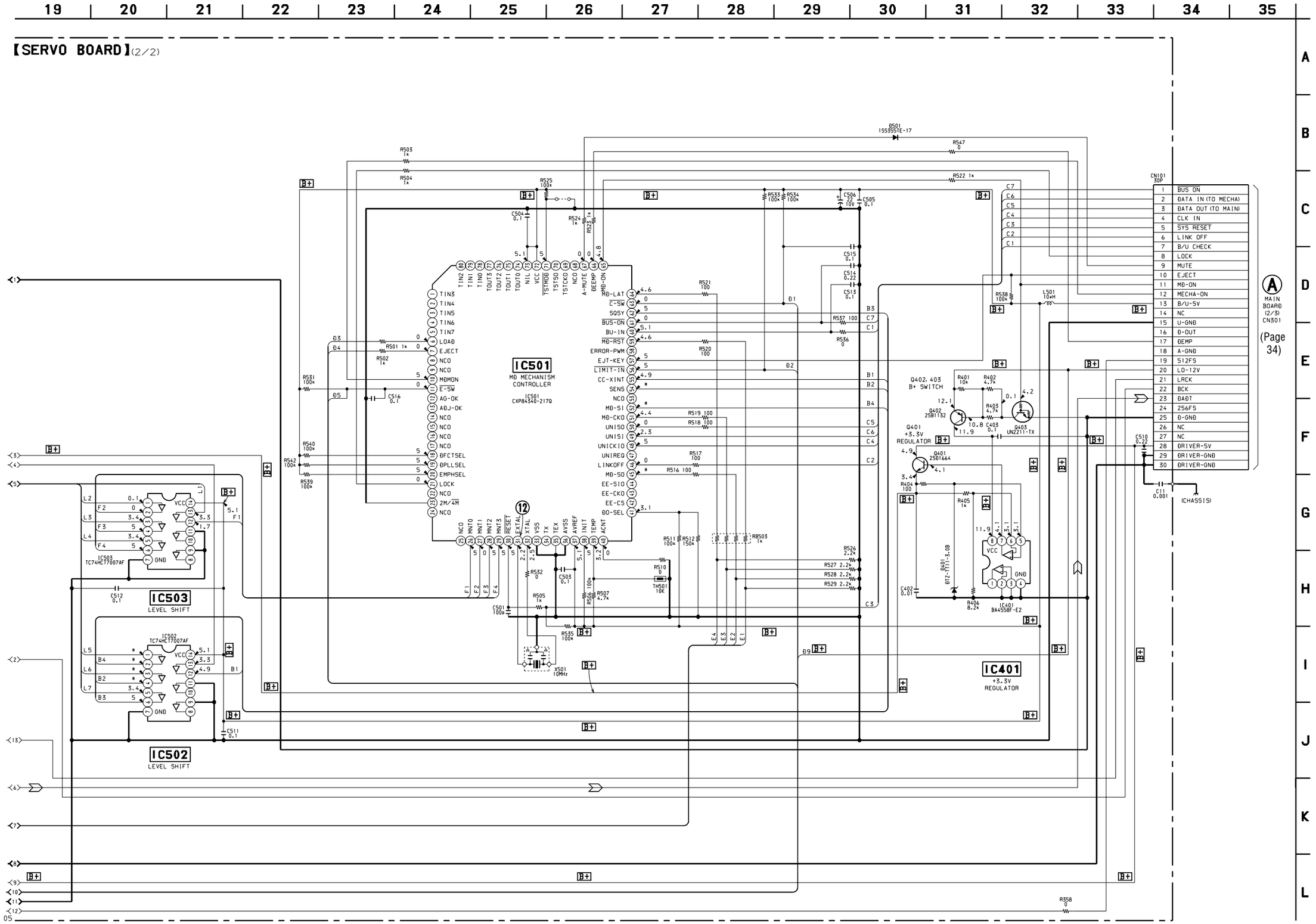


- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : MD PLAY
  ∗ : Impossible to measure

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

5-10. SCHEMATIC DIAGRAM – SERVO Board (2/2) – • See page 25 for Waveforms.

【SERVO BOARD】(2/2)



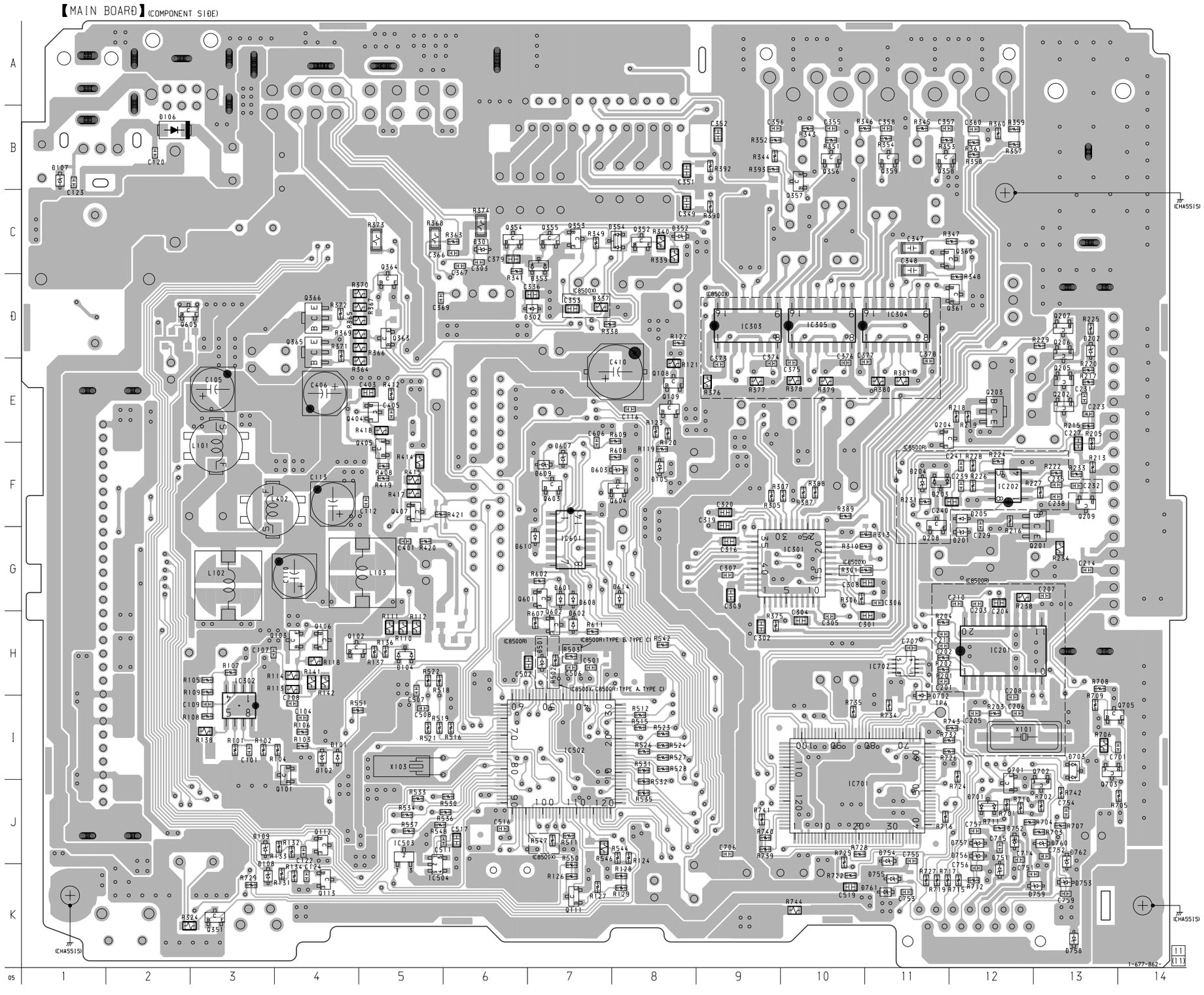
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : MD PLAY
  * : Impossible to measure

5-11. PRINTED WIRING BOARD – MAIN Board (Component Side) –

• See page 24 for Circuit Boards Location.

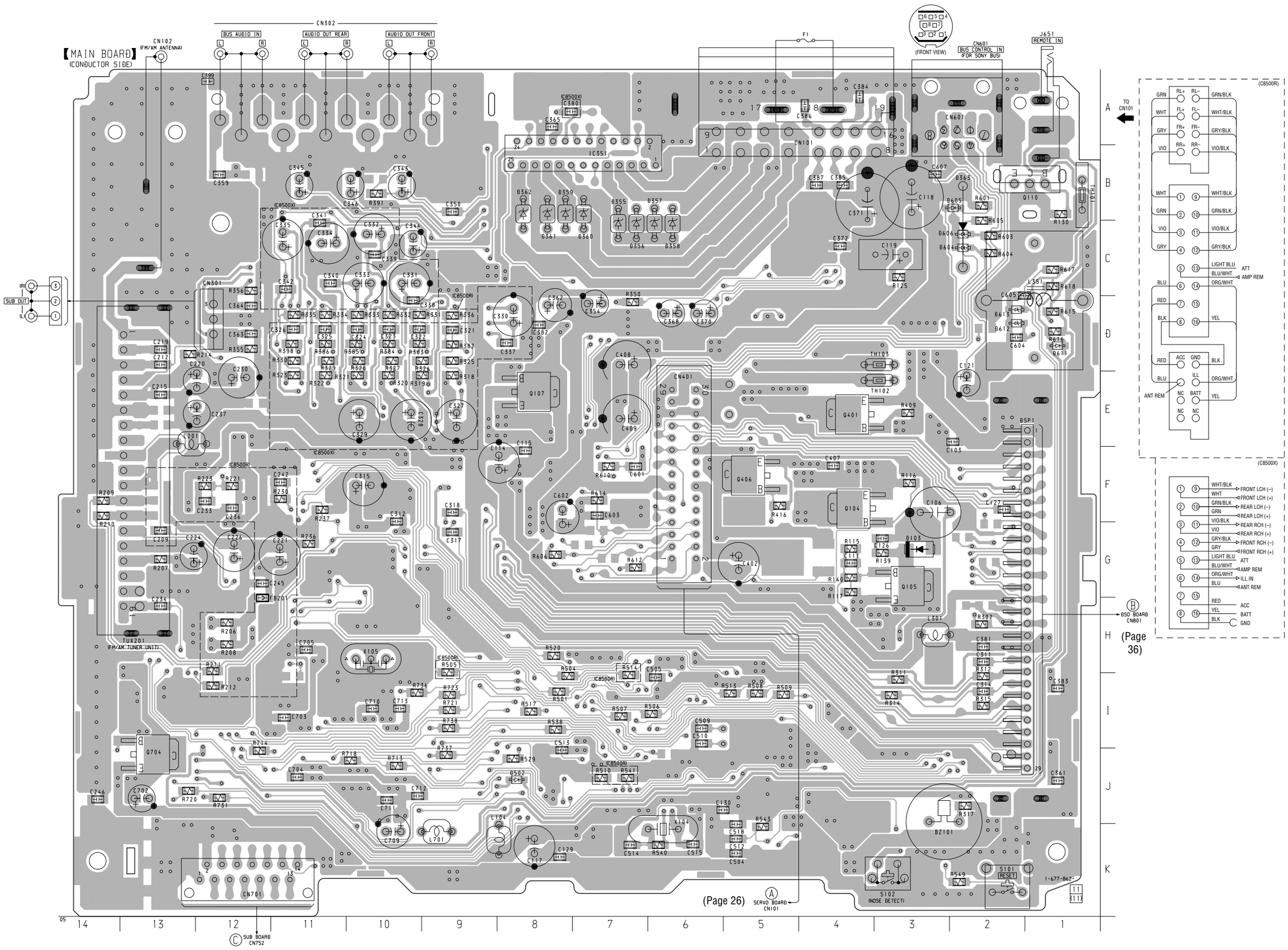
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D101	I-4	IC503	J-5
D102	I-4	IC504	K-5
D104	H-5	IC601	G-7
D105	F-8	IC701	J-10
D106	B-2	IC702	H-11
D107	B-1		
D108	K-3	Q101	I-4
D109	J-3	Q102	H-4
D201	G-12	Q103	H-4
D202	D-13	Q106	H-4
D203	F-11	Q108	E-8
D204	F-11	Q109	E-8
D205	F-12	Q111	K-7
D301	C-6	Q112	J-4
D302	D-7	Q113	K-4
D352	C-8	Q201	G-13
D353	C-7	Q202	E-13
D354	C-8	Q203	E-12
D501	H-7	Q204	E-11
D601	G-7	Q205	E-13
D602	H-7	Q206	D-13
D603	F-8	Q207	D-13
D607	F-7	Q208	F-11
D608	G-7	Q209	F-13
D609	F-7	Q351	K-3
D610	G-7	Q352	C-8
D614	G-8	Q353	C-7
D701	J-12	Q354	C-6
D702	I-11	Q355	C-7
D703	I-13	Q356	B-10
D751	K-12	Q357	B-10
D752	J-12	Q358	B-11
D753	K-13	Q359	B-11
D754	J-11	Q360	C-12
D755	K-11	Q361	D-12
D756	J-12	Q363	D-5
D757	J-12	Q364	D-5
D758	K-13	Q365	D-4
D759	K-13	Q366	D-4
D760	J-13	Q404	E-5
D761	K-11	Q405	F-5
D762	J-13	Q407	F-5
		Q601	G-7
IC201	H-12	Q602	H-7
IC202	F-12	Q603	F-7
IC301	G-10	Q604	F-8
IC302	I-3	Q605	D-2
IC303	D-9	Q701	J-12
IC304	D-11	Q702	J-13
IC305	D-10	Q703	I-13
IC502	I-7	Q705	I-13



5-12. PRINTED WIRING BOARD – MAIN Board (Conductor Side) –

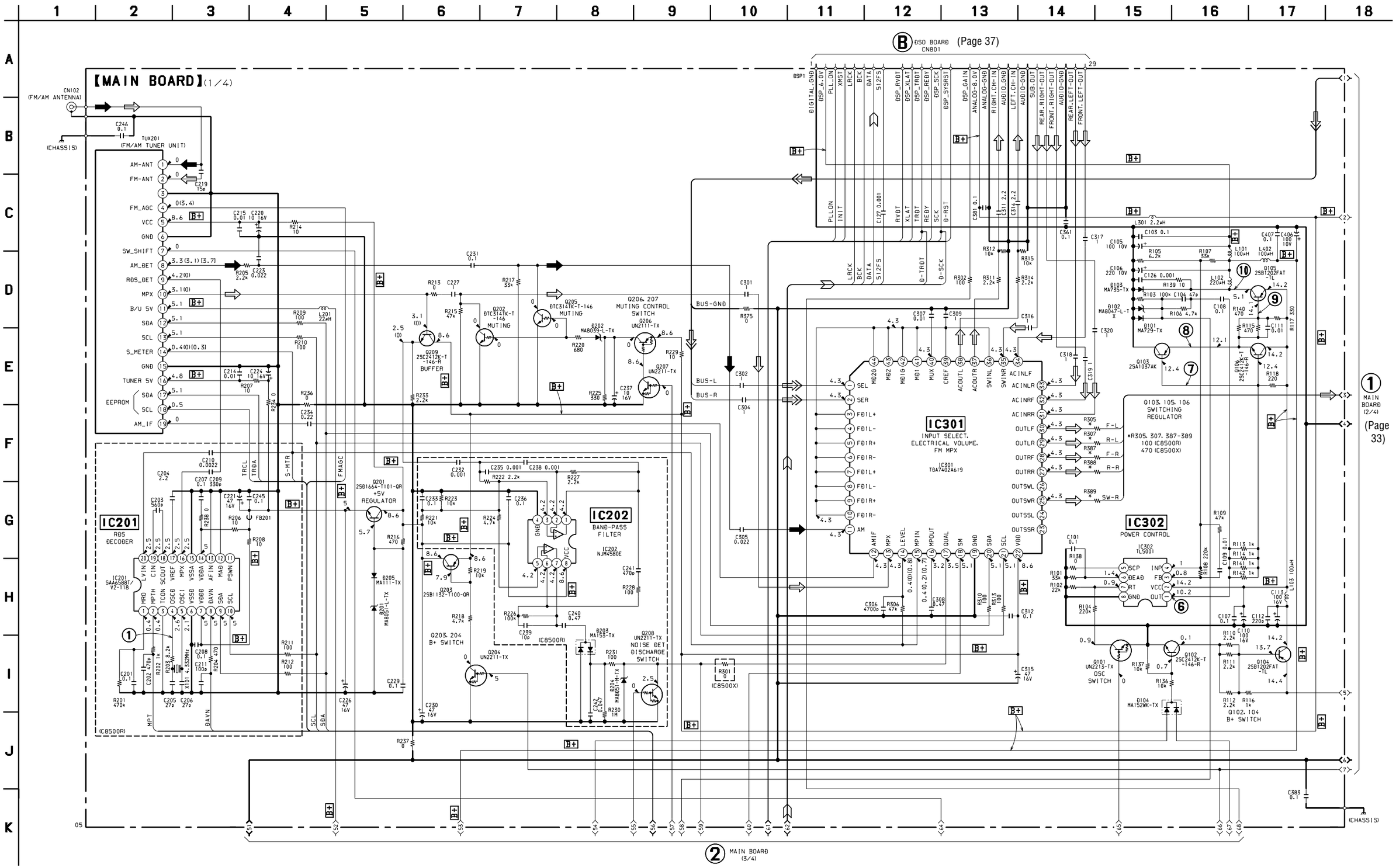
• See page 24 for Circuit Boards Location.



- **Semiconductor Location**

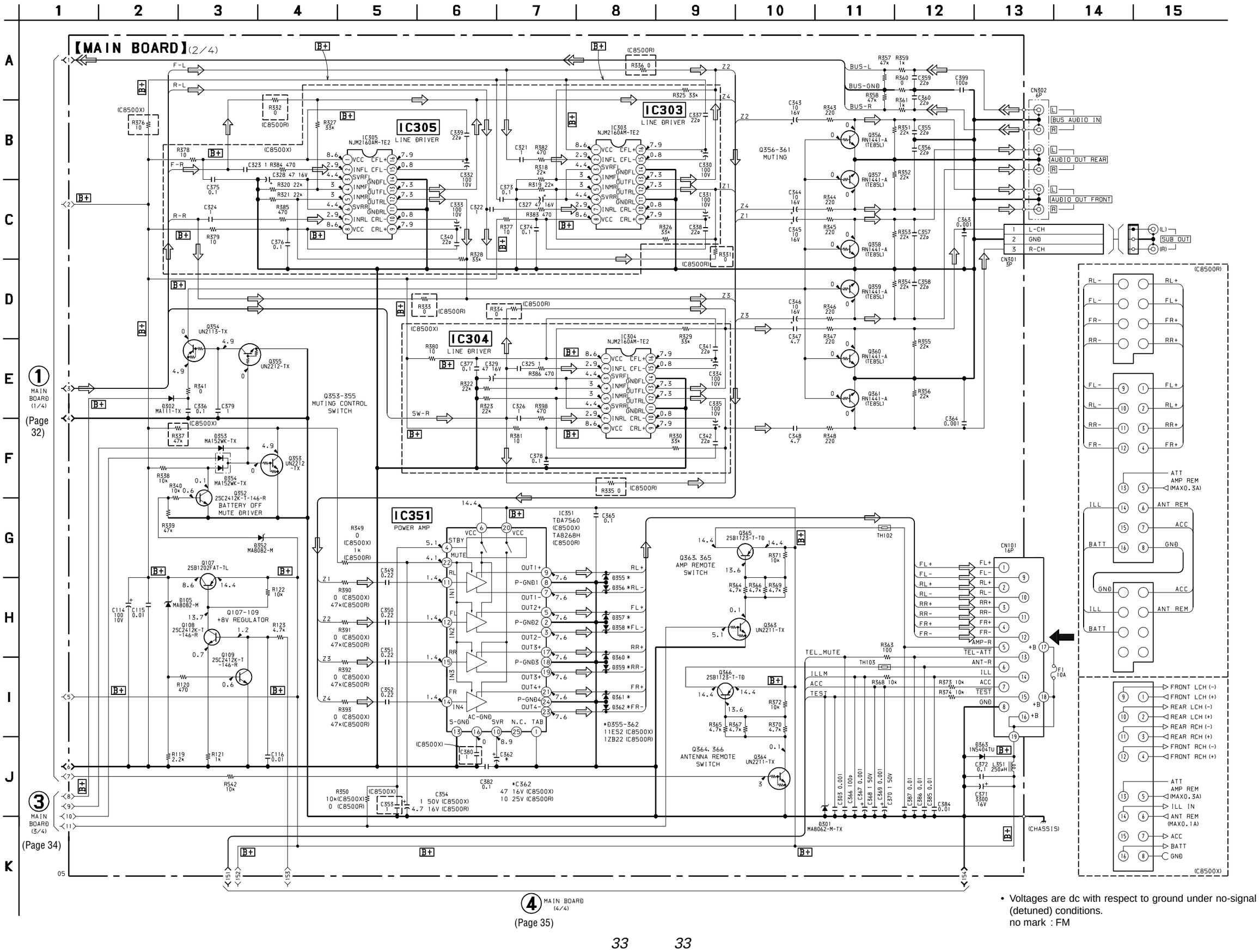
Ref. No.	Location
D103	G-3
D355	C-7
D356	C-7
D357	C-6
D358	C-6
D359	B-8
D360	B-7
D361	B-8
D362	B-8
D363	C-2
D502	J-8
D604	C-2
D605	B-2
D606	C-2
D611	D-1
D612	D-2
D613	D-2
IC351	B-7
Q104	F-4
Q105	G-3
Q107	E-8
Q110	B-1
Q401	E-4
Q406	F-5
Q704	J-13

5-13. SCHEMATIC DIAGRAM – MAIN Board (1/4) – • See page 25 for Waveforms. • See page 42 for IC Block Diagrams.



- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM (MW)
  [ ] : LW

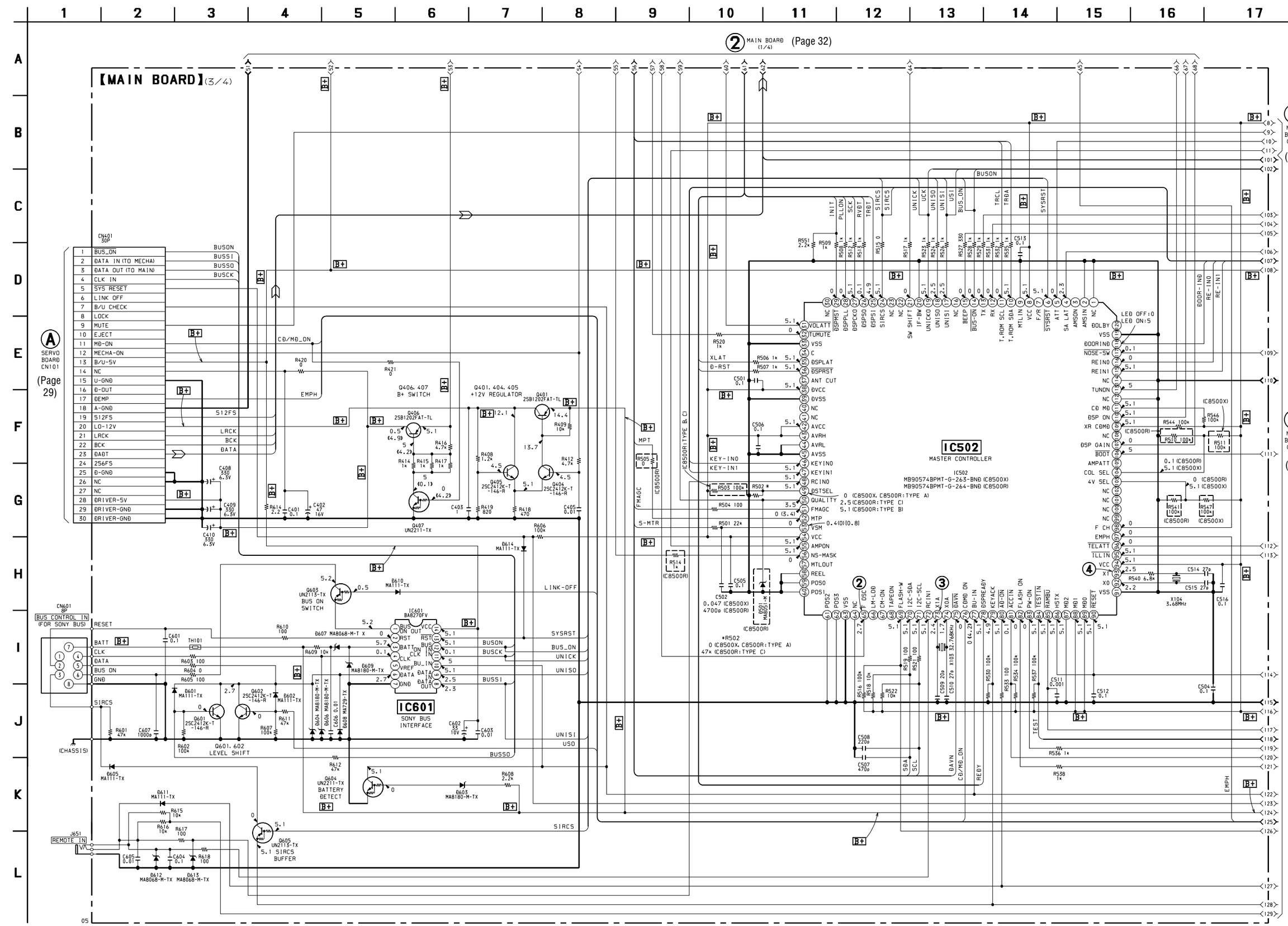
5-14. SCHEMATIC DIAGRAM – MAIN Board (2/4) – • See page 42 for IC Block Diagrams.



- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

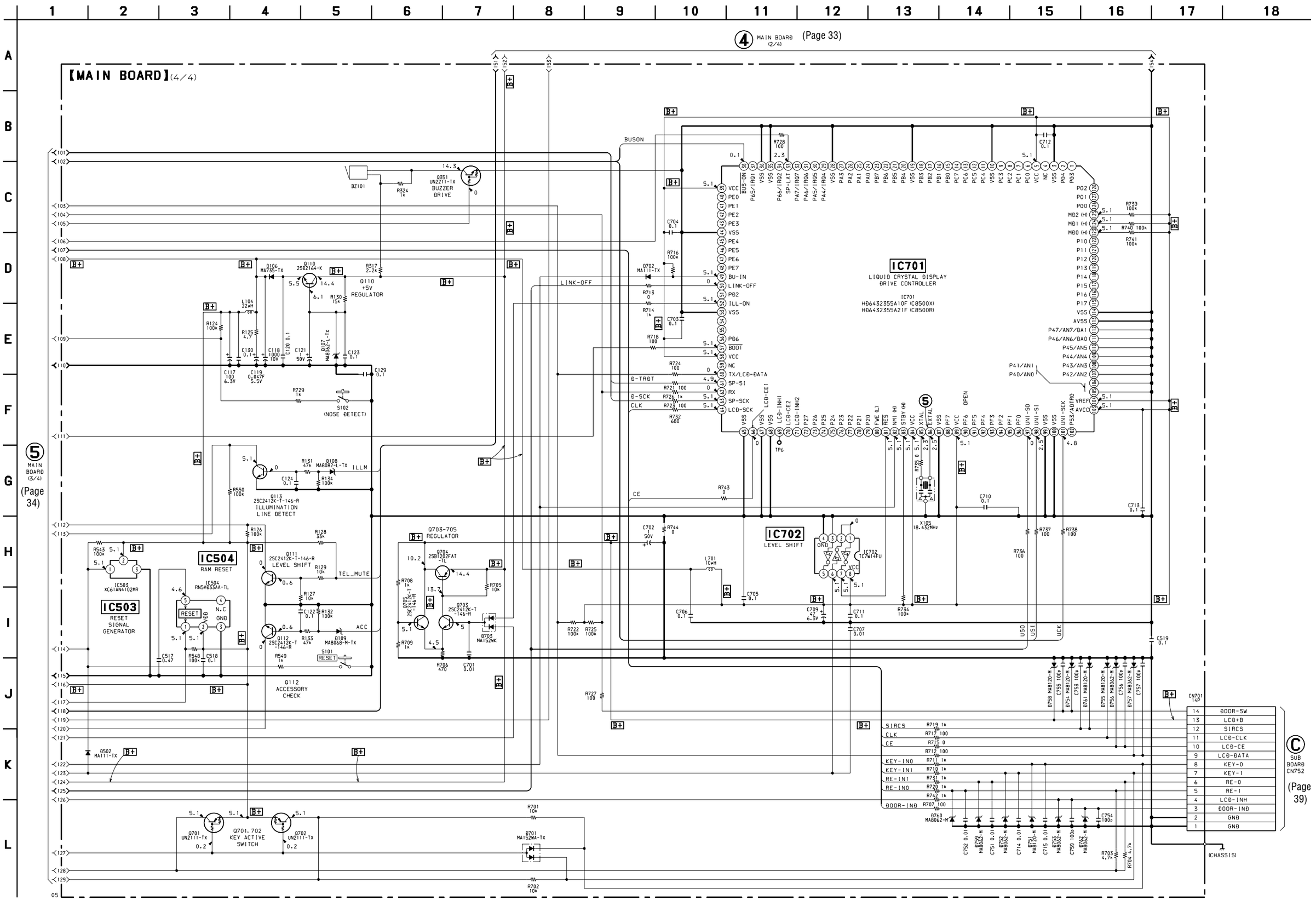
5-15. SCHEMATIC DIAGRAM – MAIN Board (3/4) –

• See page 25 for Waveforms. • See page 42 for IC Block Diagrams.



- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM (MW)
  [ ] : LW
  ⟨⟨ ⟩⟩ : MD PLAY

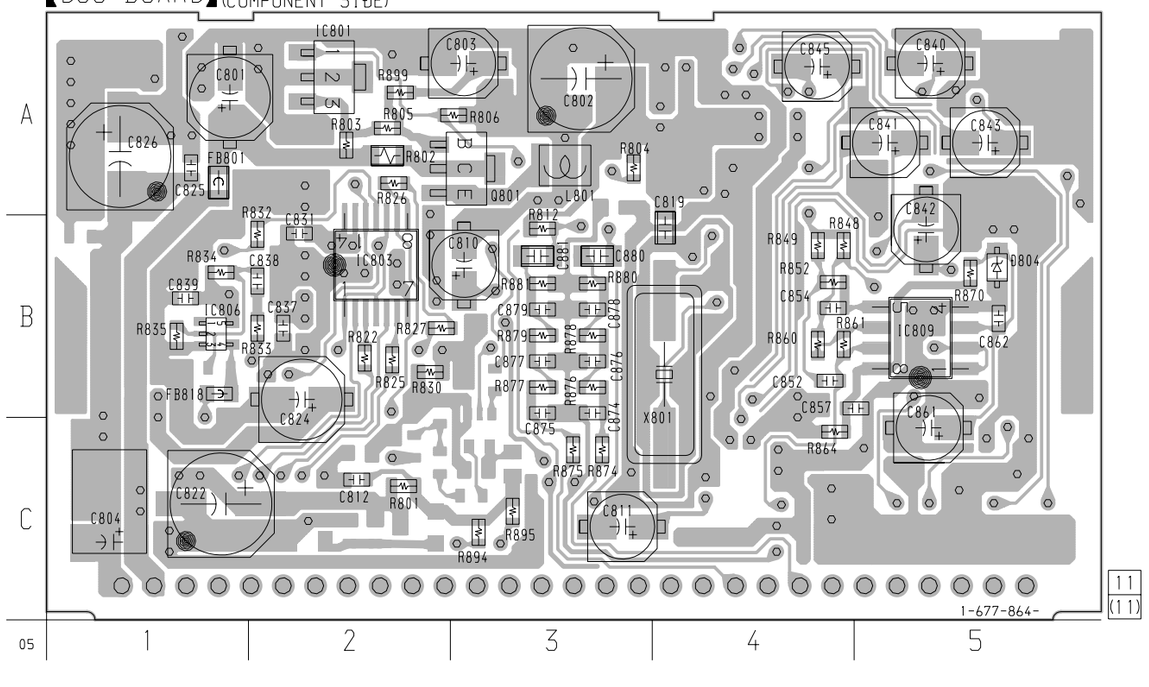
5-16. SCHEMATIC DIAGRAM – MAIN Board (4/4) – • See page 25 for Waveforms.



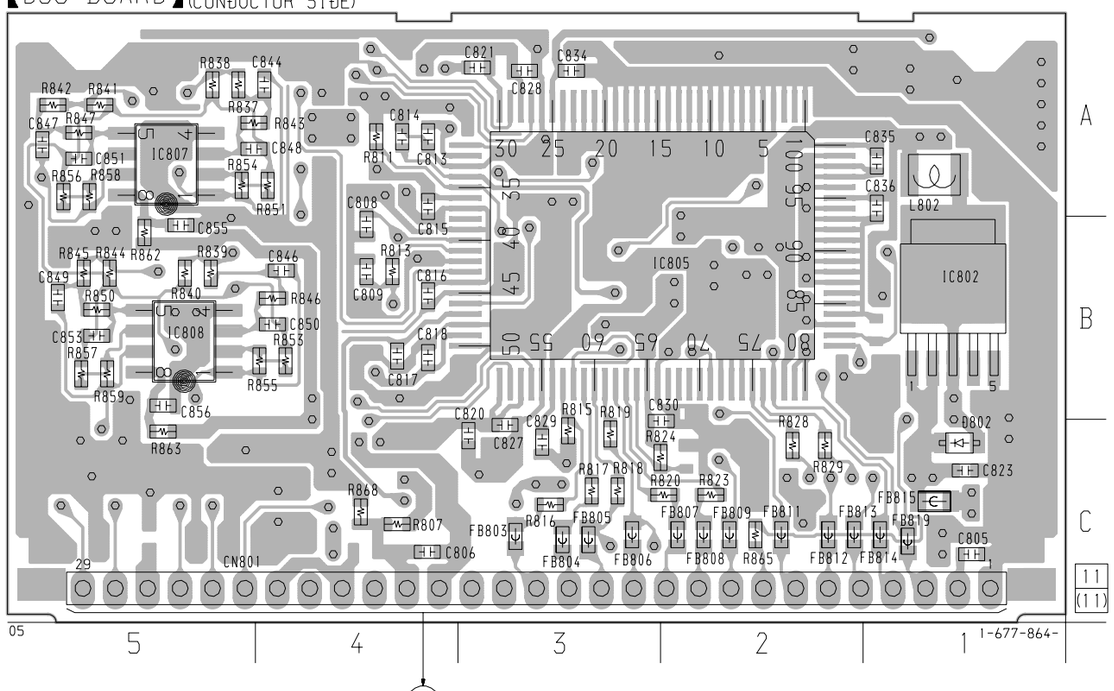
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

5-17. PRINTED WIRING BOARD – DSO Board – • See page 24 for Circuit Boards Location.

【ĐSO BOARĐ】(COMPONENT SIĐE)



【ĐSO BOARĐ】(CONĐUCTOR SIĐE)



MAIN BOARĐ
ĐSP1

(Page 31)

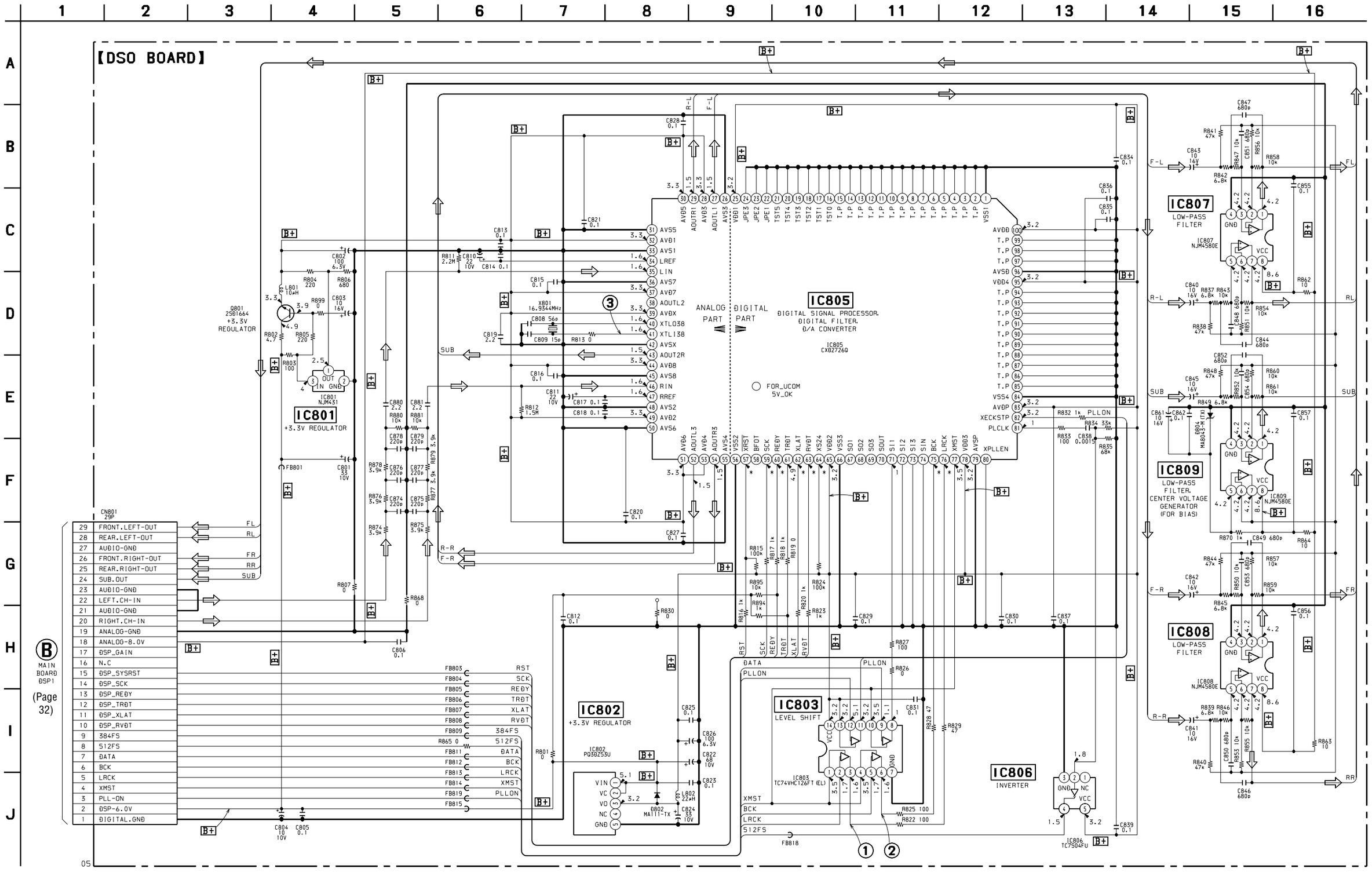
- **Semiconductor Location (Component Side)**

Ref. No.	Location
D804	B-5
IC801	A-2
IC803	B-2
IC806	B-1
IC809	B-5
Q801	A-3

- **Semiconductor Location (Conductor Side)**

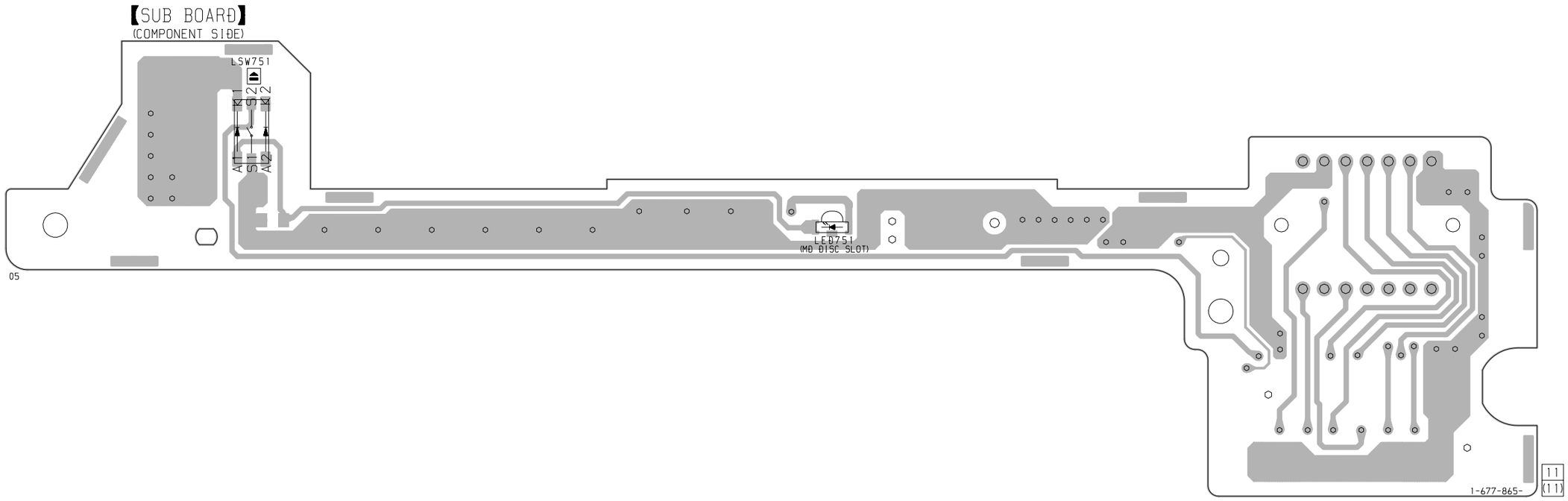
Ref. No.	Location
D802	C-1
IC802	B-1
IC805	B-3
IC807	A-5
IC808	B-5

5-18. SCHEMATIC DIAGRAM – DSO Board – • See page 25 for Waveforms. • See page 42 for IC Block Diagrams.

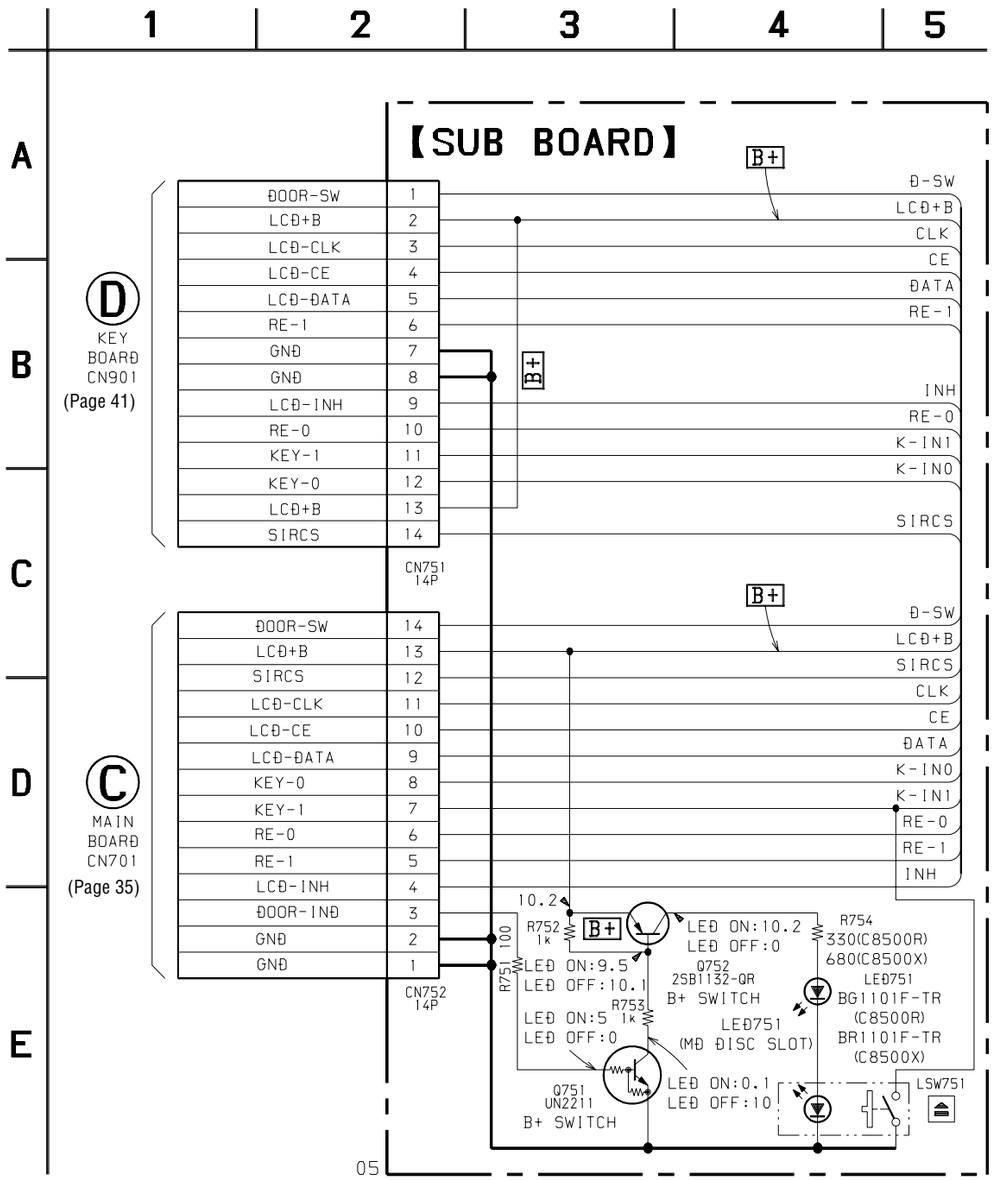


- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : MD PLAY
  * : Impossible to measure

5-19. PRINTED WIRING BOARD – SUB Board – **• See page 24 for Circuit Boards Location.**



5-20. SCHEMATIC DIAGRAM – SUB Board –

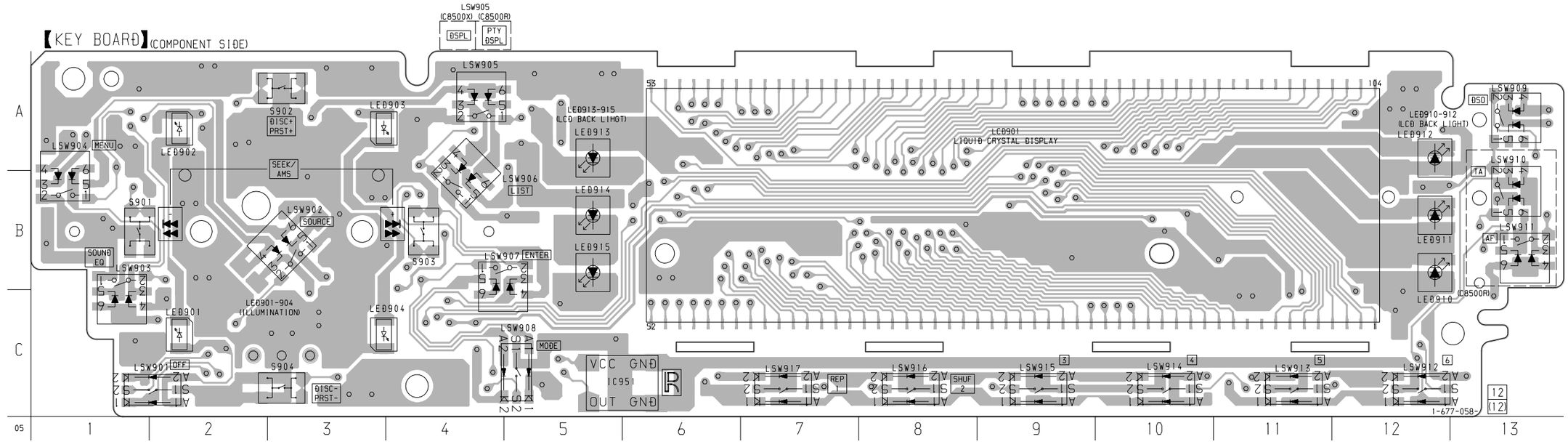


- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

5-21. PRINTED WIRING BOARD – KEY Board – • See page 24 for Circuit Boards Location.

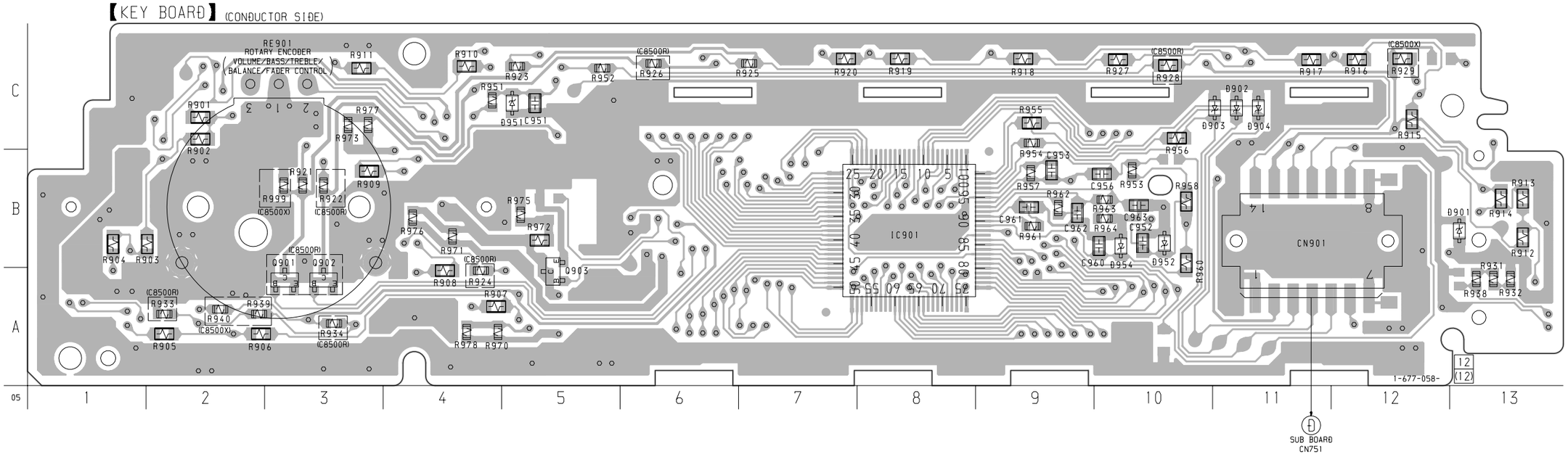
- **Semiconductor Location (Component Side)**

Ref. No.	Location
IC951	C-5
LED901	C-2
LED902	A-2
LED903	A-3
LED904	C-3
LED910	B-12
LED911	B-12
LED912	A-12
LED913	A-5
LED914	B-5
LED915	B-5



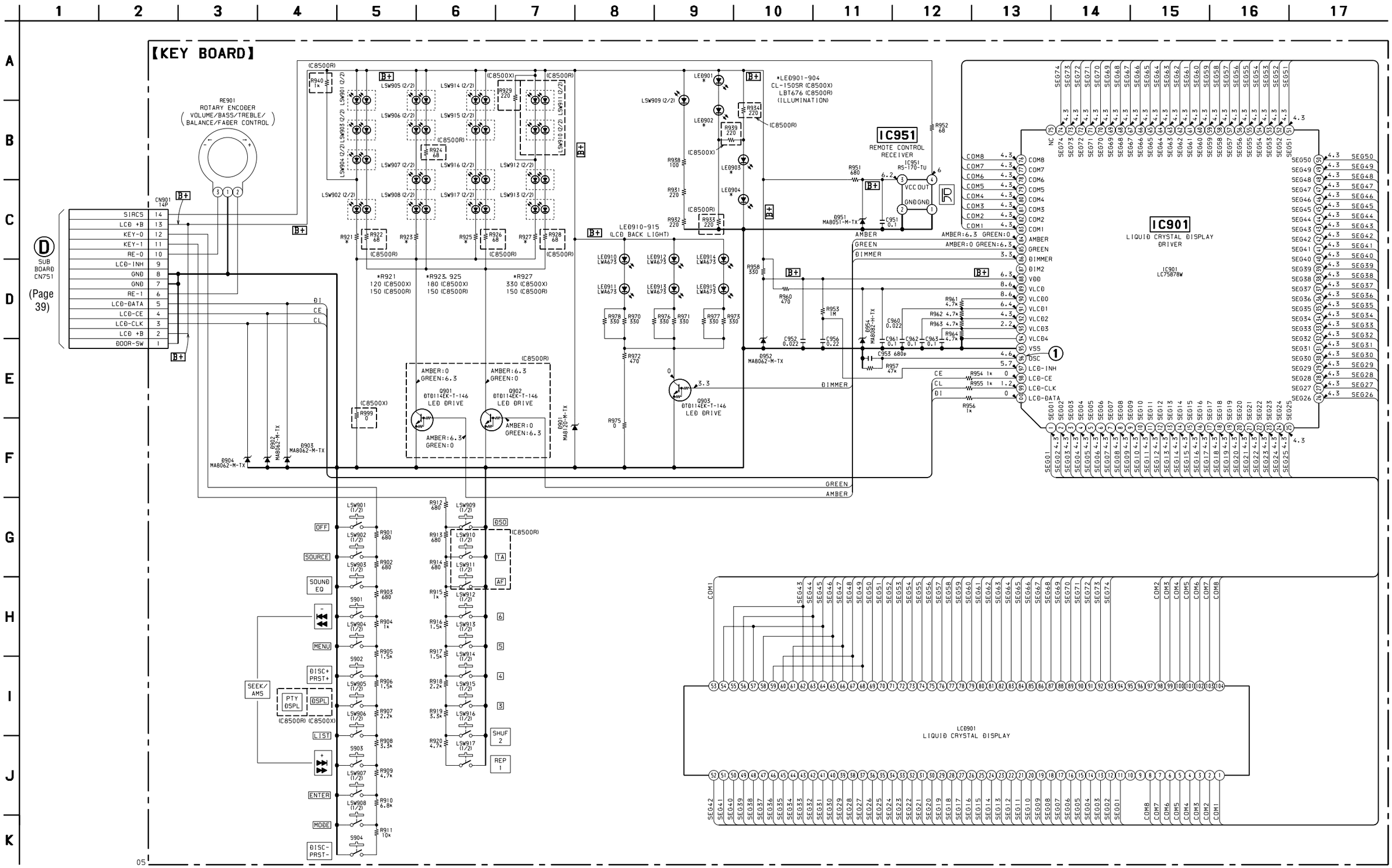
- **Semiconductor Location (Conductor Side)**

Ref. No.	Location
D901	B-13
D902	C-11
D903	C-11
D904	C-11
D951	C-5
D952	B-10
D954	B-10
IC901	B-8
Q901	A-3
Q902	A-3
Q903	A-5



(Page 38)

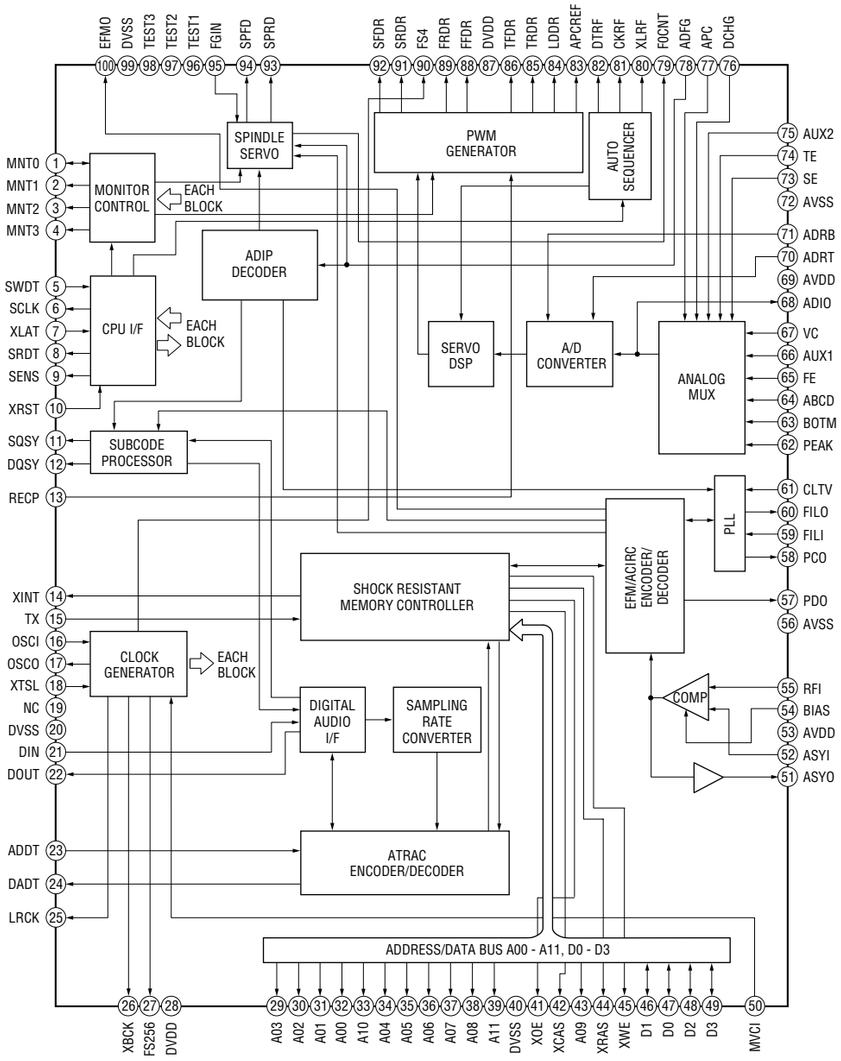
5-22. SCHEMATIC DIAGRAM – KEY Board – • See page 25 for Waveforms.



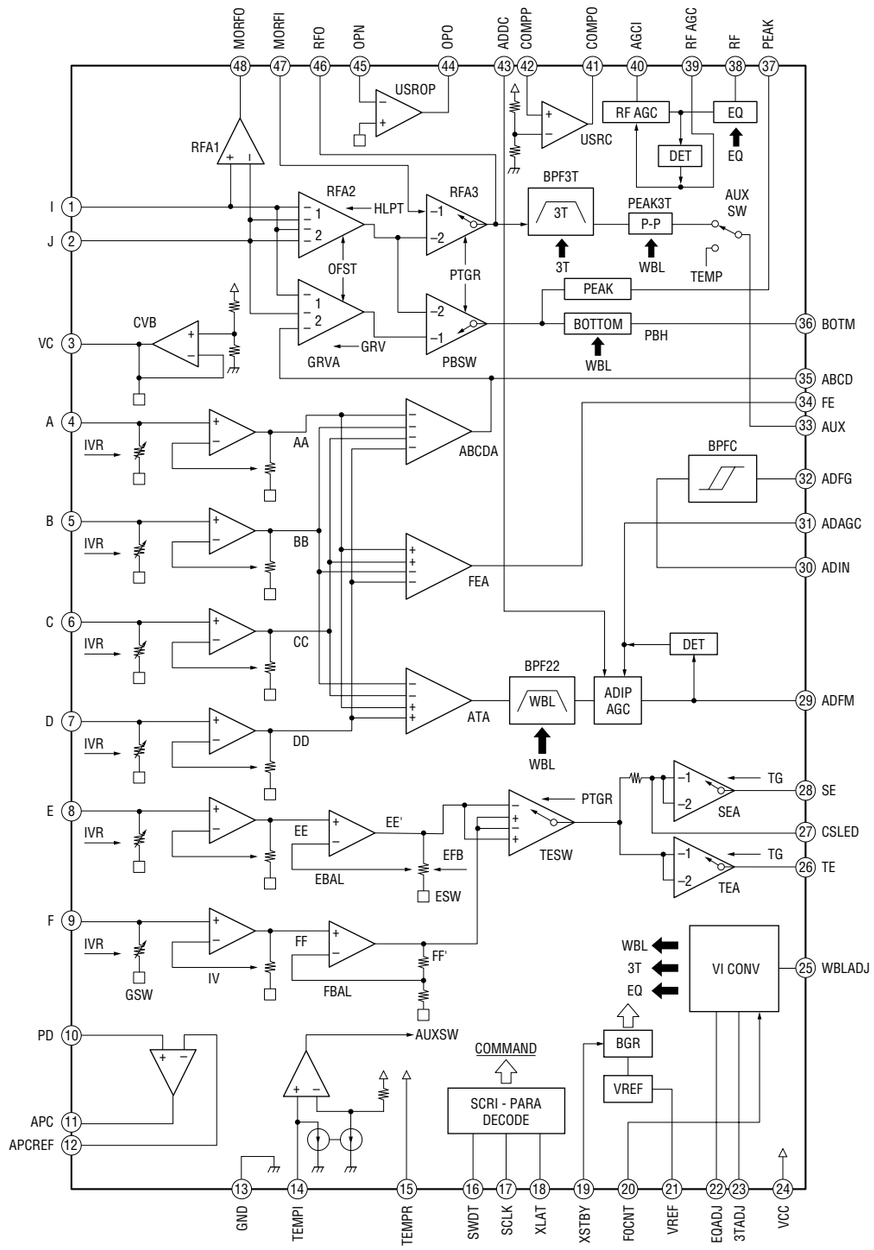
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

• **IC Block Diagrams**
– SERVO Board –

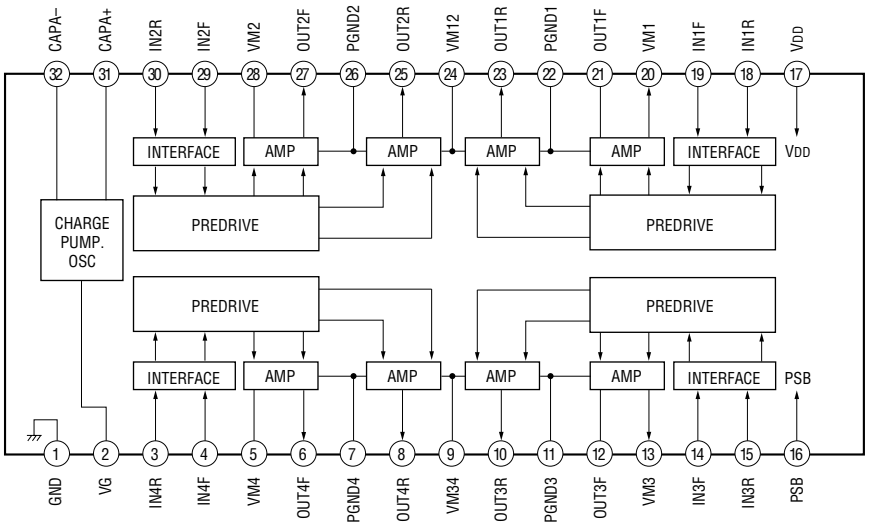
IC301 CDX2652AR



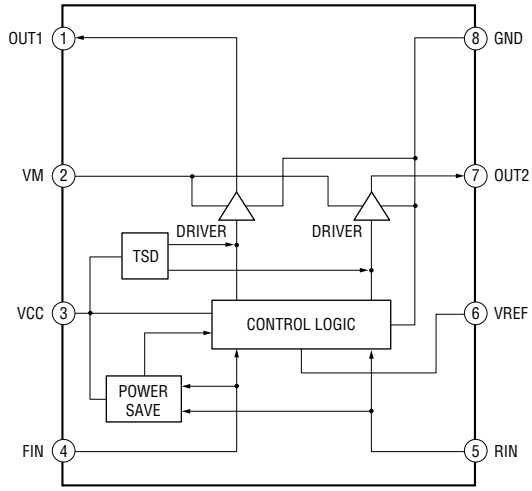
IC302 CXA2523AR



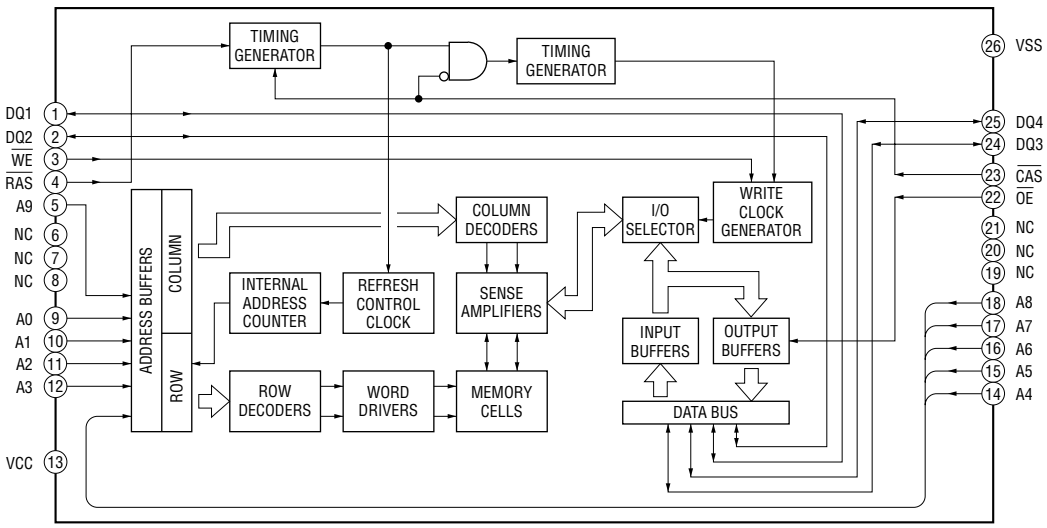
IC303 BH6511FS



IC305 BA6287F

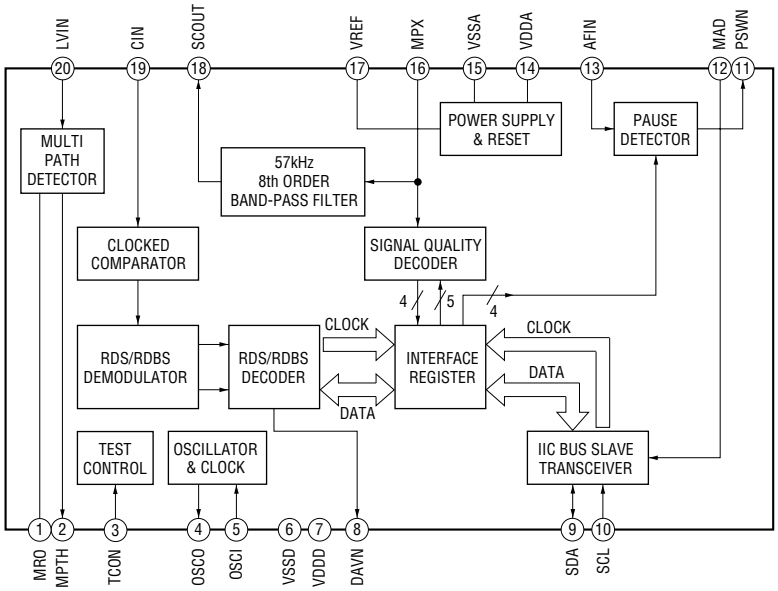


IC307 MN41V4400TT-08S

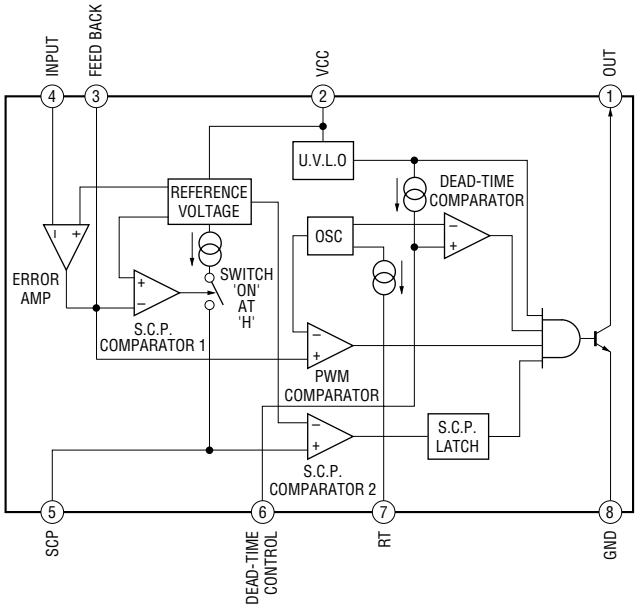


– MAIN Board –

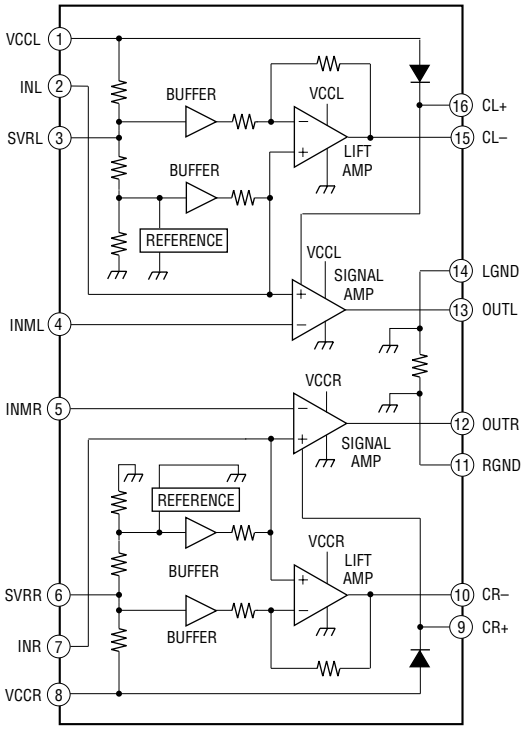
IC201 SAA6588T/V2-118



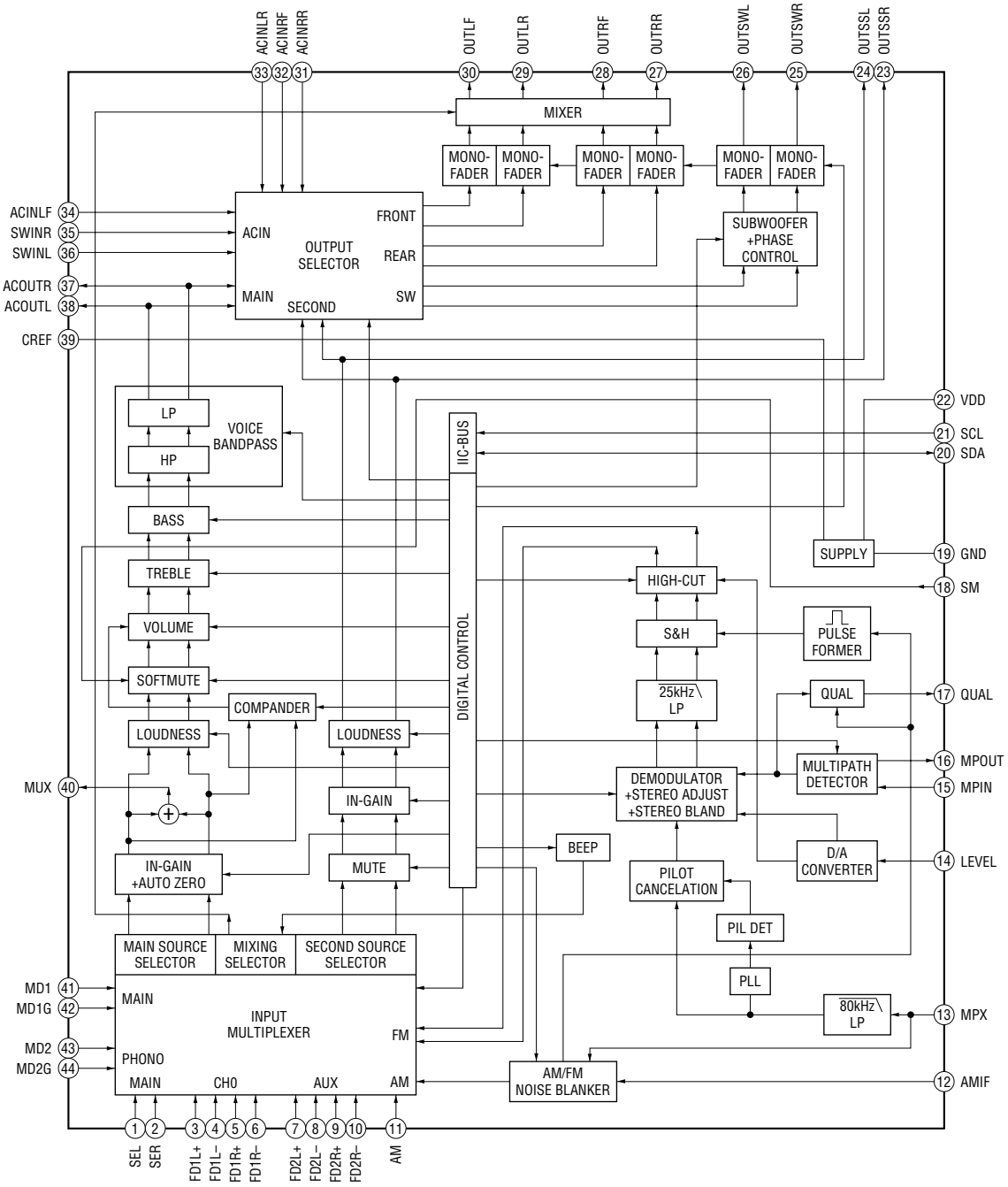
IC302 TL5001CD



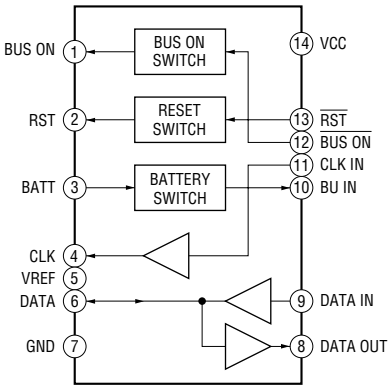
IC303 – 305 NJM2160AM-TE2



IC301 TDA7402TR

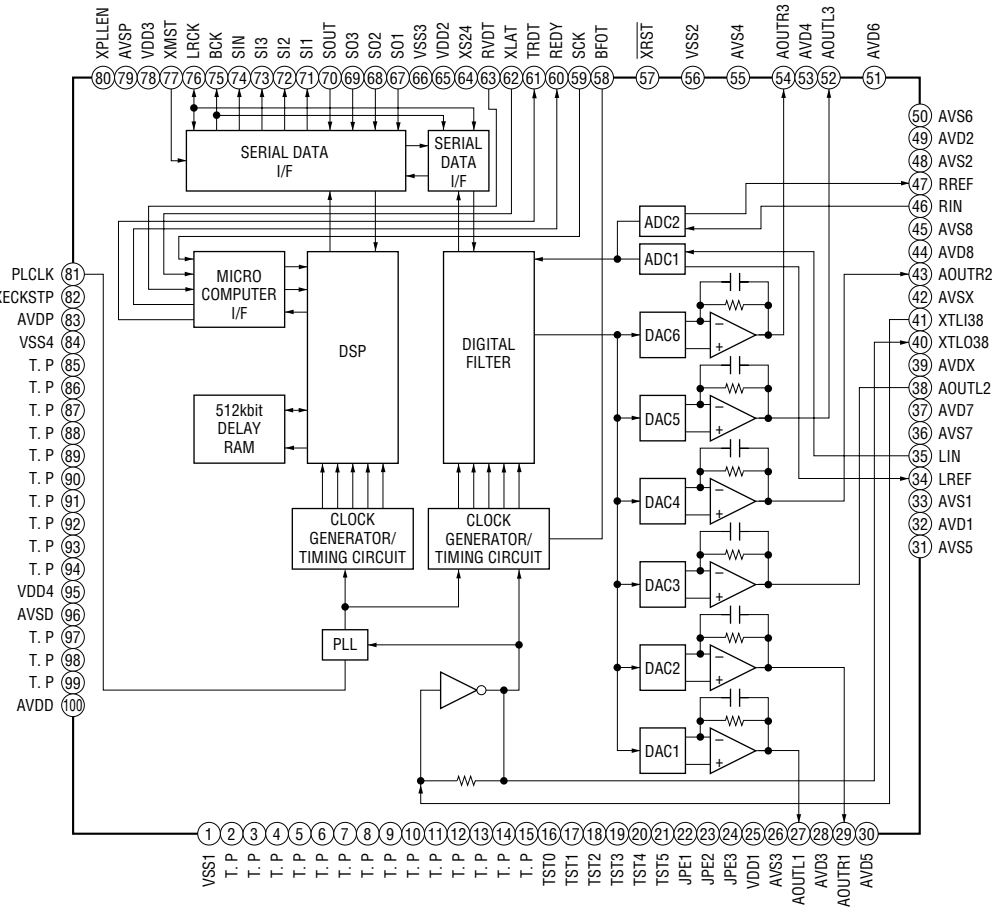


IC601 BA8270F-E2



– DSO Board –

IC805 CXD2726Q-4



5-23. IC PIN FUNCTION DESCRIPTION

• SERVO BOARD IC301 CXD2652AR

(DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO PROCESSOR, EFM/ACIRC ENCODER/DECODER, SHOCK PROOF MEMORY CONTROLLER, ATRAC ENCODER/DECODER, 2M BIT D-RAM)

Pin No.	Pin Name	I/O	Description
1	MNT0	O	Focus OK signal output to the MD mechanism controller (IC501) "H" is output when focus is on ("L": NG)
2	MNT1	O	Track jump detection signal output to the MD mechanism controller (IC501)
3	MNT2	O	Busy monitor signal output to the MD mechanism controller (IC501)
4	MNT3	O	Spindle servo lock status monitor signal output to the MD mechanism controller (IC501)
5	SWDT	I	Writing serial data signal input from the MD mechanism controller (IC501)
6	SCLK	I	Serial data transfer clock signal input from the MD mechanism controller (IC501)
7	XLAT	I	Serial data latch pulse signal input from the MD mechanism controller (IC501)
8	SRDT	O (3)	Reading serial data signal output to the MD mechanism controller (IC501)
9	SENS	O (3)	Internal status (SENSE) output to the MD mechanism controller (IC501)
10	$\overline{\text{XRST}}$	I	Reset signal input from the MD mechanism controller (IC501) "L": reset
11	SQSY	O	Subcode Q sync (SCOR) output to the MD mechanism controller (IC501) "L" is output every 13.3 msec Almost all, "H" is output
12	DQSY	O	Digital In U-bit CD format subcode Q sync (SCOR) output terminal "L" is output every 13.3 msec Almost all, "H" is output Not used (open)
13	RECP	I	Laser power selection signal input terminal "L": playback mode, "H": recording mode (fixed at "L" in this set)
14	XINT	O	Interrupt status output to the MD mechanism controller (IC501)
15	TX	I	Recording data output enable signal input terminal Writing data transmission timing input (Also serves as the magnetic head on/off output) Not used (fixed at "L")
16	OSCI	I	System clock signal (512Fs=22.5792 MHz) input from the oscillator circuit
17	OSCO	O	System clock signal (512Fs=22.5792 MHz) output terminal Not used (open)
18	XTSL	I	Input terminal for the system clock frequency setting "L": 45.1584 MHz, "H": 22.5792 MHz (fixed at "H" in this set)
19	RVDD	—	Power supply terminal (+3.3V) (digital system)
20	RVSS	—	Ground terminal (digital system)
21	DIN	I	Digital audio signal input terminal when recording mode Not used (fixed at "L")
22	DOUT	O	Digital audio signal output terminal when playback mode Not used (open)
23	ADDT	I	Recording data input terminal Not used (fixed at "L")
24	DADT	O	Playback data output to the CXD2726Q (IC805)
25	LRCK	O	L/R sampling clock signal (44.1 kHz) output to the CXD2726Q (IC805)
26	XBCK	O	Bit clock signal (2.8224 MHz) output to the CXD2726Q (IC805)
27	FS256	O	Clock signal (11.2896 MHz) output terminal Not used (open)
28	DVDD	—	Power supply terminal (+3.3V) (digital system)
29 to 32	A03 to A00	O	Address signal output to the D-RAM (IC307)
33	A10	O	Address signal output to the external D-RAM Not used (open)
34 to 38	A04 to A08	O	Address signal output to the D-RAM (IC307)
39	A11	O	Address signal output to the external D-RAM Not used (open)
40	DVSS	—	Ground terminal (digital system)
41	$\overline{\text{XOE}}$	O	Output enable signal output to the D-RAM (IC307) "L" active
42	$\overline{\text{XCAS}}$	O	Column address strobe signal output to the D-RAM (IC307) "L" active
43	A09	O	Address signal output to the D-RAM (IC307)
44	$\overline{\text{XRAS}}$	O	Row address strobe signal output to the D-RAM (IC307) "L" active
45	$\overline{\text{XWE}}$	O	Write enable signal output to the D-RAM (IC307) "L" active

Pin No.	Pin Name	I/O	Description
46	D1	I/O	Two-way data bus with the D-RAM (IC307)
47	D0	I/O	
48	D2	I/O	
49	D3	I/O	
50	MVCI	I	Digital in PLL oscillation input from the external VCO Not used (fixed at “L”)
51	ASYO	O	Playback EFM full-swing output terminal
52	ASYI	I (A)	Playback EFM asymmetry comparator voltage input terminal
53	AVDD	—	Power supply terminal (+3.3V) (analog system)
54	BIAS	I (A)	Playback EFM asymmetry circuit constant current input terminal
55	RFI	I (A)	Playback EFM RF signal input from the CXA2523AR (IC302)
56	AVSS	—	Ground terminal (analog system)
57	PDO	O (3)	Phase comparison output for clock playback analog PLL of the playback EFM Not used (open)
58	PCO	O (3)	Phase comparison output for master clock of the recording/playback EFM master PLL
59	FILI	I (A)	Filter input for master clock of the recording/playback master PLL
60	FILO	O (A)	Filter output for master clock of the recording/playback master PLL
61	CLTV	I (A)	Internal VCO control voltage input of the recording/playback master PLL
62	PEAK	I (A)	Light amount signal (RF/ABCD) peak hold input from the CXA2523AR (IC302)
63	BOTM	I (A)	Light amount signal (RF/ABCD) bottom hold input from the CXA2523AR (IC302)
64	ABCD	I (A)	Light amount signal (ABCD) input from the CXA2523AR (IC302)
65	FE	I (A)	Focus error signal input from the CXA2523AR (IC302)
66	AUX1	I (A)	Auxiliary signal (I_3 signal/temperature signal) input terminal Not used (fixed at “H”)
67	VC	I (A)	Middle point voltage (+1.65V) input from the CXA2523AR (IC302)
68	ADIO	O (A)	Monitor output of the A/D converter input signal Not used (open)
69	AVDD	—	Power supply terminal (+3.3V) (analog system)
70	ADRT	I (A)	A/D converter operational range upper limit voltage input terminal (fixed at “H” in this set)
71	ADRB	I (A)	A/D converter operational range lower limit voltage input terminal (fixed at “L” in this set)
72	AVSS	—	Ground terminal (analog system)
73	SE	I (A)	Sled error signal input from the CXA2523AR (IC302)
74	TE	I (A)	Tracking error signal input from the CXA2523AR (IC302)
75	AUX2	I (A)	Auxiliary signal input terminal Light amount signal input from the CXA2523AR (IC302)
76	DCHG	I (A)	Connected to the +3.3V power supply
77	APC	I (A)	Error signal input for the laser automatic power control Not used (fixed at “L”)
78	ADFG	I	ADIP duplex FM signal (22.05 kHz ± 1 kHz) input from the CXA2523AR (IC302)
79	F0CNT	O	Filter f0 control signal output terminal Not used (open)
80	XLRF	O	Serial data latch pulse signal output terminal Not used (open)
81	CKRF	O	Serial data transfer clock signal output terminal Not used (open)
82	DTRF	O	Writing serial data output terminal Not used (open)
83	APCREF	O	Control signal output to the reference voltage generator circuit for the laser automatic power control
84	LDDR	O	PWM signal output for the laser automatic power control Not used (open)
85	TRDR	O	Tracking servo drive PWM signal (–) output to the BH6511FS (IC303)
86	TFDR	O	Tracking servo drive PWM signal (+) output to the BH6511FS (IC303)
87	DVDD	—	Power supply terminal (+3.3V) (digital system)
88	FFDR	O	Focus servo drive PWM signal (+) output to the BH6511FS (IC303)

Pin No.	Pin Name	I/O	Description
89	FRDR	O	Focus servo drive PWM signal (–) output to the BH6511FS (IC303)
90	FS4	O	Clock signal (176.4 kHz) output terminal (X'tal system) Not used (open)
91	SRDR	O	Sled servo drive PWM signal (–) output to the BH6511FS (IC303)
92	SFDR	O	Sled servo drive PWM signal (+) output to the BH6511FS (IC303)
93	SPRD	O	Spindle servo drive PWM signal (–) output to the BH6511FS (IC303)
94	SPFD	O	Spindle servo drive PWM signal (+) output to the BH6511FS (IC303)
95	FGIN	I	Not used (fixed at "L")
96	TEST1	I	Input terminal for the test (fixed at "L")
97	TEST2	I	
98	TEST3	I	
99	DVSS	—	Ground terminal (digital system)
100	EFMO	O	EFM signal output terminal when recording mode Not used (open)

* I (A) for analog input, O (3) for 3-state output, and O (A) for analog output in the column I/O.

• **SERVO BOARD IC302 CXA2523AR (RF AMP, FOCUS/TRACKING ERROR AMP)**

Pin No.	Pin Name	I/O	Description
1	I	I	I-V converted RF signal I input from the optical pick-up block detector
2	J	I	I-V converted RF signal J input from the optical pick-up block detector
3	VC	O	Middle point voltage (+1.65V) generation output terminal
4 to 9	A to F	I	Signal input from the optical pick-up detector
10	PD	I	Light amount monitor input from the optical pick-up block laser diode
11	APC	O	Laser amplifier output terminal to the automatic power control circuit
12	APCREF	I	Reference voltage input terminal for setting laser power
13	GND	—	Ground terminal
14	TEMPI	I	Connected to the temperature sensor Not used (open)
15	TEMPR	O	Output terminal for a temperature sensor reference voltage Not used (open)
16	SWDT	I	Writing serial data input from the MD mechanism controller (IC501)
17	SCLK	I	Serial data transfer clock signal input from the MD mechanism controller (IC501)
18	XLAT	I	Serial data latch pulse signal input from the MD mechanism controller (IC501)
19	$\overline{\text{XSTBY}}$	I	Standby signal input terminal "L": standby (fixed at "H" in this set)
20	F0CNT	I	Center frequency control voltage input terminal of internal circuit (BPF22, BPF3T, EQ) input terminal
21	VREF	O	Reference voltage output terminal Not used (open)
22	EQADJ	I	Center frequency setting terminal for the internal circuit (EQ)
23	3TADJ	I	Center frequency setting terminal for the internal circuit (BPF3T)
24	VCC	—	Power supply terminal (+3.3V)
25	WBLADJ	I	Center frequency setting terminal for the internal circuit (BPF22)
26	TE	O	Tracking error signal output to the CXD2652AR (IC301)
27	CSLED	I	Connected to the external capacitor for low-pass filter of the sled error signal
28	SE	O	Sled error signal output to the CXD2652AR (IC301)
29	ADFM	O	FM signal output of the ADIP
30	ADIN	I	Receives a ADIP FM signal in AC coupling
31	ADAGC	I	Connected to the external capacitor for ADIP AGC
32	ADFG	O	ADIP duplex signal (22.05 kHz ± 1 kHz) output to the CXD2652AR (IC301)
33	AUX	O	Auxiliary signal (I_3 signal/temperature signal) output terminal Not used (open)
34	FE	O	Focus error signal output to the CXD2652AR (IC301)
35	ABCD	O	Light amount signal (ABCD) output to the CXD2652AR (IC301)
36	BOTM	O	Light amount signal (RF/ABCD) bottom hold output to the CXD2652AR (IC301)
37	PEAK	O	Light amount signal (RF/ABCD) peak hold output to the CXD2652AR (IC301)
38	RF	O	Playback EFM RF signal output to the CXD2652AR (IC301)
39	RFAGC	I	Connected to the external capacitor for RF auto gain control circuit
40	AGCI	I	Receives a RF signal in AC coupling
41	COMPO	O	User comparator output terminal Not used (open)
42	COMPP	I	User comparator input terminal Not used (fixed at "L")
43	ADDC	I	Connected to the external capacitor for cutting the low band of the ADIP amplifier
44	OPO	O	User operational amplifier output terminal Not used (open)
45	OPN	I	User operational amplifier inversion input terminal Not used (fixed at "L")
46	RFO	O	RF signal output terminal
47	MORFI	I	Receives a MO RF signal in AC coupling
48	MORFO	O	MO RF signal output terminal

• **SERVO BOARD IC501 CXP84340-217Q (MD MECHANISM CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1 to 5	TIN3 to TIN7	I/O	Input of the 4×8 matrix test keys (“L” is always output, except in test mode) Not used (open)
6	LOAD	O	Loading motor control signal output to the motor driver (IC305) “H” active *1
7	EJECT	O	Loading motor control signal output to the motor driver (IC305) “H” active *1
8, 9	NCO	O	Not used (open)
10	MDMON	O	Power supply on/off control signal output of the MD mechanism deck section main power supply and loading motor drive (IC305) power supply “H”: power on
11	$\overline{\text{E-SW}}$	I	Inputs the disc loading completion detect switch detection signal “L”: When completed of the disc loading operation
12	AG-OK	O	Output of aging status in test mode “L”: under aging, “H”: aging completed Not used (open)
13	ADJ-OK	O	Output of status when aging completed in test mode “L”: aging NG, “H”: aging OK Not used (open)
14 to 17	NCO	O	Not used (open)
18	DFCTSEL	I	Select whether defect function is used for the CXD2652AR (IC301) “L”: used this function , “H”: not used this function (fixed at “H” in this set)
19	DPLLSEL	I	Select whether digital PLL function is used for the CXD2652AR (IC301) “L”: used this function , “H”: not used this function (fixed at “H” in this set)
20	EMPHSEL	I	Select whether emphasis signal output from pin or unilink data “L”: outputs from both pin and unilink data, “H”: output from pin only (fixed at “H” in this set)
21	LOCK	O	Mini-disc lock detection signal output terminal “H”: lock Not used
22	NCO	O	Not used (open)
23	2M/$\overline{\text{4M}}$	I	Select whether D-RAM capacitance 2M bit or 4M bit “L”: 4M bit (external D-RAM) , “H”: 2M bit (internal D-RAM of CXD2652AR) (fixed at “L” in this set)
24, 25	NCO	O	Not used (open)
26	MNT0	I	Focus OK signal input from the CXD2652AR (IC301) “H” is input when focus is on (“L”: NG)
27	MNT1	I	Track jump detection signal input from the CXD2652AR (IC301)
28	MNT2	I	Busy monitor signal input from the CXD2652AR (IC301)
29	MNT3	I	Spindle servo lock status monitor signal input from the CXD2652AR (IC301)
30	$\overline{\text{RESET}}$	I	System reset signal input from the master controller (IC502), reset signal generator (IC503) and reset switch (S101) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
31	EXTAL	O	Main system clock output terminal (10 MHz)
32	XTAL	I	Main system clock input terminal (10 MHz)
33	VSS	—	Ground terminal
34	TX	O	Sub system clock output terminal (32.768 kHz) Not used (open)
35	TEX	I	Sub system clock input terminal (32.768 kHz) Not used (fixed at “L”)
36	AVSS	—	Ground terminal (for A/D converter)
37	AVREF	I	Reference voltage input terminal (+5V) (for A/D converter)
38	INIT	I	Initial reset signal input terminal (A/D input) (fixed at “H”)
39	TEMP	I	Temperature sensor (TH501) input terminal (A/D input)
40	ACNT	I	Select the number of load/eject aging times (A/D input) 0H – 54H (30 times), 55H – OA9H (20 times), OAAH – OFFH (10 times)
41	DO-SEL	I	Select the digital output bits (A/D input)
42	EE-CS	O	Chip select signal output to the external EEPROM device Not used (open)
43	EE-CKO	O	Serial data transfer clock signal output to the external EEPROM device Not used (open)
44	EE-SIO	I/O	Two way data bus with the external EEPROM device Not used (open)
45	MD-SO	O	Writing serial data signal output to the CXD2652AR (IC301) and CXA2523AR (IC302)

Pin No.	Pin Name	I/O	Description
46	LINKOFF	O	Unilink on/off control signal output for the SONY bus "L": link on, "H": link off Not used
47	UNIREQ	O	Data request signal output terminal (for SONY bus) "H": request on Not used (open)
48	UNICKIO	I/O	Serial clock signal input from the master controller (IC502) or serial clock signal output to the SONY bus interface (IC601) and liquid crystal display drive controller (IC701) (for SONY bus)
49	UNISI	I	Serial data input from the SONY bus interface (IC601)
50	UNISO	O	Serial data output to the SONY bus interface (IC601)
51	MD-CKO	O	Serial data transfer clock signal output to the CXD2652AR (IC301) and CXA2523AR (IC302)
52	MD-SI	I	Reading serial data signal input from the CXD2652AR (IC301)
53	NCO	O	Not used (open)
54	SENS	I	Internal status (SENSE) input from the CXD2652AR (IC301)
55	CC-XINT	I	Interrupt status input from the CXD2652AR (IC301)
56	$\overline{\text{LIMIT-IN}}$	I	Detection input from the sled limit-in detect switch The optical pick-up is inner position when "L"
57	EJT-KEY	I	Eject request signal input terminal "L": eject on Not used (fixed at "H")
58	ERROR-PWM	O	PWM error monitor output terminal (C1and ATER is output when test mode) Not used (open)
59	$\overline{\text{MD-RST}}$	O	Reset signal output to the CXD2652AR (IC301) and BH6511FS (IC303) "L": reset
60	BU-IN	I	Battery detect signal input from the SONY bus interface (IC601) and battery check circuit "H": battery on
61	$\overline{\text{BUS-ON}}$	I	SONY bus on/off control signal input from the master controller (IC502) "L": bus on
62	SQSY	I	Subcode Q sync (SCOR) input from the CXD2652AR (IC301) "L" is input every 13.3 msec Almost all, "H" is input
63	$\overline{\text{C-SW}}$	I	Inputs the disc loading start or disc eject completion detect switch detection signal "L": When start or eject completed of the disc loading operation
64	MD-LAT	O	Serial data latch pulse signal output to the CXD2652AR (IC301) and CXA2523AR (IC302)
65	MD-ON	O	Power supply on/off control signal output of the MD mechanism deck section main power supply "H": power on
66	DEEMP	O	Emphasis on/off control signal output to the master controller (IC502) "H": emphasis on
67	A-MUTE	O	Audio muting on/off control signal output terminal "H": muting on
68	NCO	O	Not used (open)
69	TSTCKO	O	Output of clock signal for the test mode display Not used (open)
70	TSTSO	O	Output of data for the test mode display Not used (open)
71	$\overline{\text{TSTMOD}}$	I	Setting terminal for the test mode "L": test mode, "H": normal mode
72	VCC	—	Power supply terminal (+5V)
73	NIL	I	Not used (fixed at "H")
74 to 77	TOUT0 to TOUT3	O	Output of the 4×8 matrix test keys Not used (open)
78 to 80	TIN0 to TIN2	I/O	Input of the 4×8 matrix test keys ("L" is always output, except in test mode) Not used (open)

*1 Loading motor (M903) control

Operation / Terminal	IN	OUT	BRAKE	STOP
LOAD (pin ⑥)	"H"	"L"	"H"	"L"
EJECT (pin ⑦)	"L"	"H"	"H"	"L"

- **MAIN BOARD IC502 (MASTER CONTROLLER)**
  MB90574BPMT-G-263-BND (MDX-C8500X) MB90574BPMT-G-264-BND (MDX-C8500R)

Pin No.	Pin Name	I/O	Description
1	NC	I	Not used (fixed at "L")
2	AMSIN	I	Input terminal of whether a music is present or not is detected at auto music sensor "L": music is not present, "H": music is present Not used (fixed at "L")
3	$\overline{\text{AMSON}}$	O	Tape auto music sensor control signal output terminal "L" is output to lower the gain for audio level at FF/REW mode Not used (open)
4	SA LAT	O	Serial data latch pulse output for spectrum analyzer section to the liquid crystal display drive controller (IC701)
5	ATT	O	Audio line muting on/off control signal output terminal "H": muting on
6	$\overline{\text{SYSRST}}$	O	System reset signal output to the MD mechanism controller (IC501), liquid crystal display drive controller (IC701) and SONY bus interface (IC601) "L": reset
7	F/$\overline{\text{R}}$	O	Tape detection signal output terminal "L": reverse side, "H": forward side Not used (open)
8	VCC	—	Power supply terminal (+5V)
9	MTLIN	I	Auto metal detection signal input terminal Not used (fixed at "L")
10	T.ROM-SDA	I/O	Two-way data bus for tuner EEPROM with the FM/AM tuner unit (TUX201)
11	T.ROM-SCL	O	Tuner EEPROM bus clock signal output to the FM/AM tuner unit (TUX201)
12	RX	I	Input terminal at the flash memory data write mode Front panel open/close detection signal input terminal "L" is input when the front panel is closed
13	TX	O	Output terminal at the flash memory data write mode Display serial data output to the liquid crystal display driver (IC901)
14	$\overline{\text{BUS-ON}}$	O	Bus on/off control signal output to the MD mechanism controller (IC501), liquid crystal display drive controller (IC701) and SONY bus interface (IC601) "L": bus on
15	BEEP	O	Beep sound drive signal output terminal
16	NC	O	Not used (open)
17	UNISI	I	Serial data input from the SONY bus interface (IC601)
18	UNISO	O	Serial data output to the SONY bus interface (IC601)
19	UNICKO	O	Serial clock signal output to the MD mechanism controller (IC501), liquid crystal display drive controller (IC701) and SONY bus interface (IC601)
20	IF-BW	I	Tuner wide/narrow select signal input terminal "L": wide, "H": narrow Not used (fixed at "L")
21	SW SHIFT	O	Not used
22, 23	NC	O	Not used (open)
24	SIRCS	I	Sircs remote control signal input from the remote control receiver (IC951)
25	DSPSI	I	Serial data input from the CXD2726Q (IC805)
26	DSPSO	O	Serial data output to the CXD2726Q (IC805)
27	DSPCKO	O	Serial data transfer clock signal output to the CXD2726Q (IC805) and liquid crystal display drive controller (IC701)
28	DSPPLL	O	PLL clock control signal output to the CXD2726Q (IC805) At "L" is output: fixed at "L" is PLCLK (pin ⑧① of IC805 CXD2726Q) At "H" is output: PLL clock signal output to the PLCLK (pin ⑧① of IC805 CXD2726Q)
29	$\overline{\text{DSPMST}}$	O	Bit clock (BCK) and L/R sampling (LRCK) signal master/slave mode selection signal output to the CXD2726Q (IC805) "L": master mode, "H": slave mode
30	NC	O	Not used (open)
31	$\overline{\text{VOLATT}}$	O	Pre amplifier muting on/off control signal output to the electrical volume (IC301) "L": muting on
32	$\overline{\text{TUMUTE}}$	O	Muting on/off control signal output of the FM/AM tuner signal "L": muting on
33	VSS	—	Ground terminal
34	C	—	Connected to coupling capacitor for the power supply Not used (open)

Pin No.	Pin Name	I/O	Description
35	DSPLAT	O	Serial data latch pulse output to the CXD2726Q (IC805)
36	$\overline{\text{DSPRST}}$	O	Reset signal output to the CXD2726Q (IC805) "L": reset
37	ANT CUT	O	Tuner system power supply on/off control signal output terminal "H": tuner power on Not used (open)
38	DVCC	—	Power supply terminal (+5V) (for D/A converter)
39	DVSS	—	Ground terminal (for D/A converter)
40, 41	NC	O	Not used (open)
42	AVCC	—	Power supply terminal (+5V) (for analog system)
43	AVRH	I	Reference voltage (+5V) input terminal (for A/D converter)
44	AVRL	I	Reference voltage (0V) input terminal (for A/D converter)
45	AVSS	—	Ground terminal (for analog system)
46	KEYIN0	I	Key input terminal (A/D input) (LSW901 to LSW908, S901 to S904) OFF, SOURCE, SOUND EQ, MENU, PTY DSPL (MDX-C8500R), DSPL (MDX-C8500X), LIST, ENTER, MODE, SEEK/AMS - ⏮ ◀◀ + ▶▶⏭ ▶▶, DISC/PRST +, PRST/DISC - keys input
47	KEYIN1	I	Key input terminal (A/D input) (LSW751, LSW909 to LSW917) ⏏, DSO, TA, AF, 6 to 3 SHUF 2, REP 1 keys input (LSW910 TA, LSW911 AF: MDX-C8500R ONLY)
48	RCIN0	I	Rotary remote commander key input terminal (A/D input)
49	DSTSEL	I	Destination setting terminal (A/D input) "L": MDX-C8500X/C8500R (TYPE A), "M": MDX-C8500R (TYPE C), "H": MDX-C8500R (TYPE B)
50	QUALITY	I	Noise level detection signal input at SEEK mode (A/D input)
51	FMAGC	I	FM AGC detection signal input from the FM/AM tuner unit (TUX201) (A/D input)
52	MTP	I	Multi-path detection signal input from the RDS decoder (IC201) (A/D input) Used for the MDX-C8500R only (MDX-C8500X: Not used open))
53	VSM	I	FM and AM signal meter voltage detection input from the FM/AM tuner unit (TUX201) (A/D input)
54	VCC	—	Power supply terminal (+5V)
55	AMPON	O	Standby on/off control signal output terminal "L": standby mode, "H": amplifier on
56	NS-MASK	O	Discharge control signal output for the noise detection circuit "H": discharge Used for the MDX-C8500R only (MDX-C8500X: Not used open))
57	MTLOUT	O	METAL output terminal (METAL on at "L" output) Not used (open)
58	REEL	I	Rotation detect signal input terminal Not used (fixed at "L")
59	POS0	I	Tape position (EJECT/FF/REW/REV/ FWD mode) detect input from the tape operation switch on the deck mechanism Not used this function (fixed at "L") POS0: "L": EJECT mode, "H": others mode POS1: "L": FF and FWD mode, "H": others mode POS2: "L": REW mode, "H": others mode POS3: "L": REV and EJECT mode, "H": others mode
60	POS1	I	
61	POS2	I	
62	POS3	I	
63	VSS	—	Ground terminal
64	NC	I	Not used (fixed at "L")
65	F OSC	I	Frequency count terminal from power control (IC302)
66	LM-LOD	O	Loading motor control signal output terminal "H" active (For the loading direction and forward side operation) Not used (open)
67	CM ON	O	Capstan/reel motor control signal output terminal "H": motor on Not used (open)
68	TAPE ON	O	Tape system power supply on/off control signal output terminal "H": tape on Not used (open)
69	FLASH-W	I	Internal flash memory data write mode detection signal input terminal Not used
70	I2C SDA	I/O	Two-way data I2C bus with the FM/AM tuner unit (TUX201), RDS decoder (IC201) and electrical volume (IC301) (RDS decoder is MDX-C8500R only)
71	I2C CKO	O	I2C bus clock signal output to the FM/AM tuner unit (TUX201), RDS decoder (IC201) and electrical volume (IC301) (RDS decoder is MDX-C8500R only)

Pin No.	Pin Name	I/O	Description
72	RCIN1	I	Rotary remote commander shift key input terminal
73	X1A	O	Sub system clock output terminal (32.768 kHz)
74	X0A	I	Sub system clock input terminal (32.768 kHz)
75	$\overline{\text{DAVN}}$	I	Data transmit completed detection signal input from the RDS decoder (IC201) "L" active Used for the MDX-C8500R only (MDX-C8500X: Not used open))
76	CDMD ON	I	CD/MD on/off control signal input from the MD mechanism controller (IC501)
77	BU-IN	I	Battery detection signal input from the SONY bus interface (IC601) and battery detect circuit "L" is input at low voltage
78	DSPREADY	I	Transfer enable signal input from the CXD2726Q (IC805) "L": transfer prohibition , "H": transfer permission
79	KEYACK	I	Input of acknowledge signal for the key entry Acknowledge signal is input to accept function and eject keys in the power off status On at input of "H"
80	$\overline{\text{AD ON}}$	O	A/D converter power control signal output terminal When the KEYACK (pin ⑲) that controls reference voltage power for key A/D conversion input is active, "L" is output from this terminal to enable the input
81	$\overline{\text{ACCIN}}$	I	Accessory detection signal input terminal "L": accessory on
82	FLASH ON	O	Power on/off control signal output of the illumination LED and liquid crystal display driver (IC901) "H": power on
83	PW-ON	O	Main system power supply on/off control signal output terminal "H": power on
84	$\overline{\text{TESTIN}}$	I	Setting terminal for the test mode "L": test mode, Normally: fixed at "H"
85	$\overline{\text{RAMBU}}$	I	Internal RAM reset detection signal input from the RN5VD33AA (IC504) Input terminal to check that RAM data are not destroyed due to low voltage This checking is made within 100 msec after reset
86	HSTX	I	Hardware standby input terminal "L": hardware standby mode Reset signal input in this set
87	MD2	I	Setting terminal for the CPU operational mode (fixed at "L" in this set)
88	MD1	I	Setting terminal for the CPU operational mode (fixed at "H" in this set)
89	MD0	I	Setting terminal for the CPU operational mode (fixed at "H" in this set)
90	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC503) and reset switch (S101) "L": reset "L" is input for several 100 msec after power on, then it changes to "H"
91	VSS	—	Ground terminal
92	X0	I	Main system clock input terminal (3.68 MHz)
93	X1	O	Main system clock output terminal (3.68 MHz)
94	VCC	—	Power supply terminal (+5V)
95	$\overline{\text{ILLIN}}$	I	Auto dimmer control illumination line detection signal input terminal "L" is input at dimmer detection
96	$\overline{\text{TELATT}}$	I	Telephone detection signal input terminal At input of "H", the signal is attenuated by –20 dB
97	EMPH	I	Emphasis control signal input from the MD Mechanism controller (IC501)
98	F CH	O	Frequency changing terminal from the power control (IC302) "H": frequency change
99 to 102	NC	O	Not used (open)
103	4V SEL	I	Input terminal of whether line driver is mounted or not is detected "L": line driver is not mounted (MDX-C8500R), "H": line driver is mounted (MDX-C8500X)
104	COL SEL	I	Setting terminal for the illumination color "L": 2 color (MDX-C8500R), "H": 1 (red) color (MDX-C8500X)
105	AMPATT	O	Power amplifier muting on/off control signal output terminal "H": muting on
106	$\overline{\text{BOOT}}$	O	Serial data output to the liquid crystal display drive controller (IC701)
107	DSP GAIN	O	Not used (open)
108	NC	O	Not used (open)
109	XR CDMD	I	Setting terminal for the internal mechanism tape or CD/MD "L": tape, "H": CD/MD (fixed at "H" in this set)
110	DSP ON	O	Power supply on/off control signal output for the CXD2726Q (IC805) "H": DSP on

Pin No.	Pin Name	I/O	Description
111	CD MD	I	Setting terminal for the internal mechanism CD or MD “L”: CD, “H”: MD (fixed at “H” in this set)
112	NC	I	Not used (fixed at “L”)
113	TUNON	O	Tuner system power supply on/off control signal output terminal “H”: tuner power on
114	NC	I	Not used (fixed at “L”)
115	REIN1	I	Dial pulse input of the rotary encoder (RE901) (A phase input) (for VOLUME/BASS/TREBLE/BALANCE/FADER control)
116	REIN0	I	Dial pulse input of the rotary encoder (RE901) (B phase input) (for VOLUME/BASS/TREBLE/BALANCE/FADER control)
117	$\overline{\text{NOSE-SW}}$	I	Front panel block remove/attach detection signal input from the nose detection switch (S102) “L”: front panel is attached
118	DOORIND	O	LED drive signal output of the MD disc slot illumination and ⏏ indicator (LED751, LSW751) “H”: LED on “H” is output to turn on LED when front panel is opened
119	VSS	—	Ground terminal
120	DOLBY	O	Dolby control terminal “H”: dolby on Not used (open)

• DSO BOARD IC805 CXD2726Q-4 (DIGITAL SIGNAL PROCESSOR, DIGITAL FILTER, D/A CONVERTER)

Pin No.	Pin Name	I/O	Description
1	VSS1	—	Ground terminal (digital system)
2 to 15	T.P	I	Input terminal for the test (fixed at "L")
16 to 21	TST0 to TST5	I	Input terminal for the test (fixed at "L")
22 to 24	JPE1 to JPE3	I	External condition jump terminal "H": condition jump (fixed at "L")
25	VDD1	—	Power supply terminal (+3.3V) (digital system)
26	AVS3	—	Ground terminal (for D/A converter 1) (analog system)
27	AOUTL1	O	D/A converter 1 (L-ch side) output terminal Analog signal output for front side (L-ch side) output in this set
28	AVD3	—	Power supply terminal (+3.3V) (for D/A converter 1) (analog system)
29	AOUTR1	O	D/A converter 1 (R-ch side) output terminal Analog signal output for rear side (L-ch side) output in this set
30	AVD5	—	Power supply terminal (+3.3V) (for D/A converter 1) (analog system)
31	AVS5	—	Ground terminal (for D/A converter 1) (analog system)
32	AVD1	—	Power supply terminal (+3.3V) (for L-ch side A/D converter) (analog system)
33	AVS1	—	Ground terminal (for L-ch side A/D converter) (analog system)
34	LREF	O	Connected to the bus control for A/D converter (for L-ch side)
35	LIN	I	A/D converter (L-ch side) analog input terminal Tuner and bus audio input signal (L-ch side) in this set
36	AVS7	—	Ground terminal (for D/A converter 2) (analog system)
37	AVD7	—	Power supply terminal (+3.3V) (for D/A converter 2) (analog system)
38	AOUTL2	O	D/A converter 2 (L-ch side) output terminal Not used (open)
39	AVDX	—	Power supply terminal (+3.3V) (for master clock) (analog system)
40	XTLO38	O	System clock output terminal (16.9344 MHz)
41	XTLI38	I	System clock input terminal (16.9344 MHz)
42	AVSX	—	Ground terminal (for master clock) (analog system)
43	AOUTR2	O	D/A converter 2 (R-ch side) output terminal Analog signal output for sub woofer output in this set
44	AVD8	—	Power supply terminal (+3.3V) (for D/A converter 2) (analog system)
45	AVS8	—	Ground terminal (for D/A converter 2) (analog system)
46	RIN	I	A/D converter (R-ch side) analog input terminal Tuner and bus audio input signal (R-ch side) in this set
47	RREF	O	Connected to the bus control for A/D converter (for R-ch side)
48	AVS2	—	Ground terminal (for R-ch side A/D converter) (analog system)
49	AVD2	—	Power supply terminal (+3.3V) (for R-ch side A/D converter) (analog system)
50	AVS6	—	Ground terminal (for D/A converter 3) (analog system)
51	AVD6	—	Power supply terminal (+3.3V) (for D/A converter 3) (analog system)
52	AOUTL3	O	D/A converter 3 (L-ch side) output terminal Analog signal output for rear side (R-ch side) output in this set
53	AVD4	—	Power supply terminal (+3.3V) (for D/A converter 3) (analog system)
54	AOUTR3	O	D/A converter 3 (R-ch side) output terminal Analog signal output for front side (R-ch side) output in this set
55	AVS4	—	Ground terminal (for D/A converter 3) (analog system)
56	VSS2	—	Ground terminal (digital system)
57	$\overline{\text{XRST}}$	I	System reset signal input from the master controller (IC502) "L": reset
58	BFOT	O	Master clock signal output terminal Not used (open)
59	SCK	I	Serial data transfer clock signal input from the master controller (IC502) and liquid crystal display drive controller (IC701)

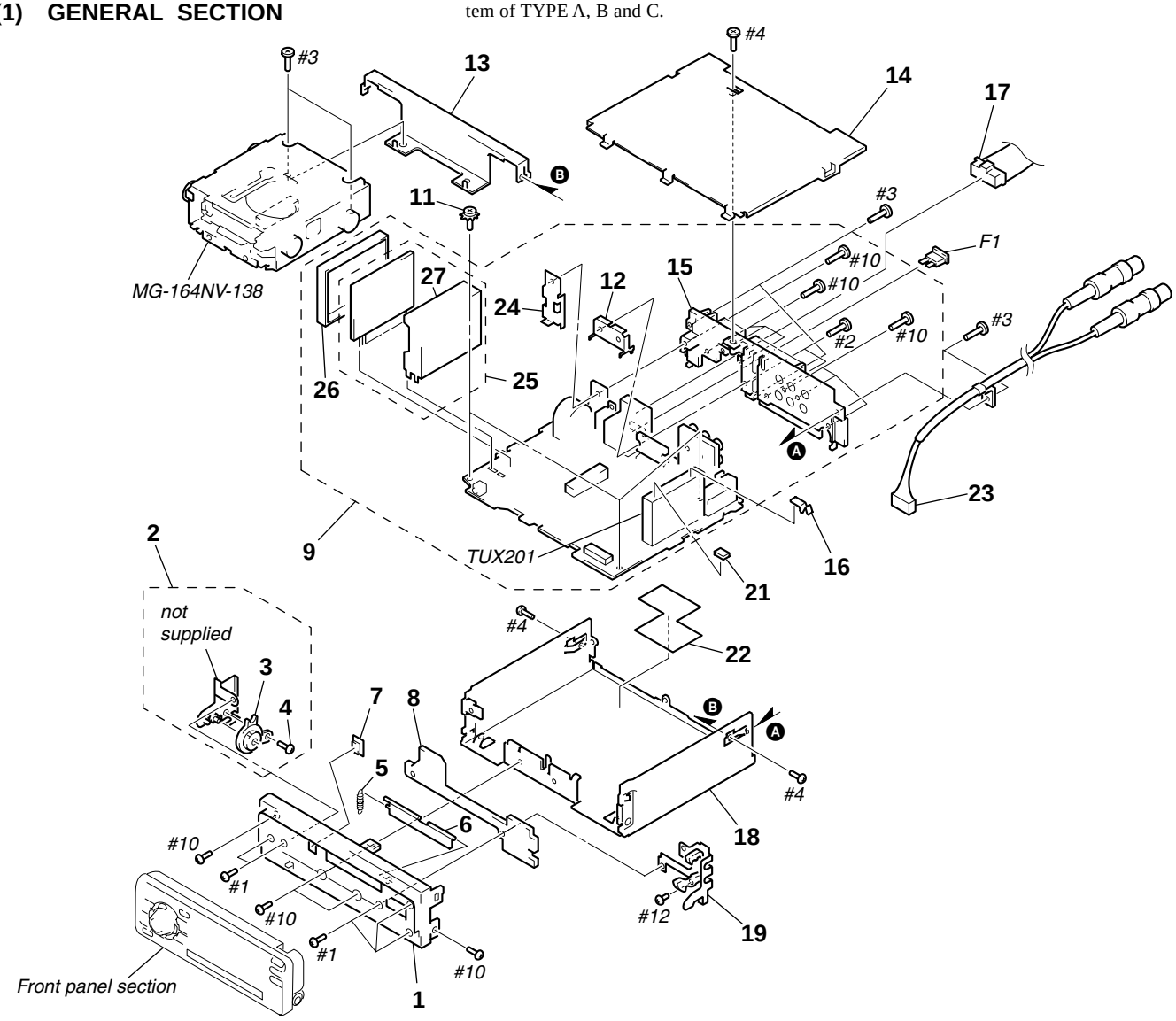
Pin No.	Pin Name	I/O	Description
60	REDY	O	Transfer enable signal output to the master controller (IC502) “L”: transfer prohibition
61	TRDT	O	Serial data output to the master controller (IC502) and liquid crystal display drive controller (IC701)
62	XLAT	I	Serial data latch pulse input from the master controller (IC502)
63	RVDT	I	Serial data input from the master controller (IC502)
64	XS24	I	Serial data 24/32 bit slot selection signal input terminal “L”: 24 bit slot, “H”: 32 bit slot (validity at slave mode) (fixed at “H” in this set)
65	VDD2	—	Power supply terminal (+3.3V) (digital system)
66	VSS3	—	Ground terminal (digital system)
67 to 69	SO1 to SO3	O	Serial data output terminal Not used (open)
70	SOUT	O	Serial data output terminal Not used (open)
71	SI1	I	Serial data input from the CXD2652AR (IC301)
72, 73	SI2, SI3	I	Serial data input terminal Not used (fixed at “L”)
74	SIN	I	Serial data input terminal Not used (fixed at “L”)
75	BCK	I	Bit clock signal (2.8224 MHz) input from the CXD2652AR (IC301)
76	LRCK	I	L/R sampling clock signal (44.1 kHz) input from the CXD2652AR (IC301)
77	XMST	I	Bit clock (BCK) and L/R sampling clock (LRCK) signal master/slave mode selection signal input from the master controller (IC502) “L”: master mode, “H”: slave mode
78	VDD3	—	Power supply terminal (+3.3V) (digital system)
79	AVSP	—	Ground terminal (PLL system)
80	XPLLEN	I	PLL enable signal input terminal Normally: fixed at “L”
81	PLCLK	O	PLL clock signal output terminal (22.5792 MHz)
82	XECKSTP	I	PLL clock output control signal input from the master controller (IC502) At “L” is input: fixed at “L” is PLCLK (pin ⑧①) At “H” is input: PLL clock signal output from the PLCLK (pin ⑧①)
83	AVDP	—	Power supply terminal (+3.3V) (PLL system)
84	VSS4	—	Ground terminal (digital system)
85 to 94	T.P	I	Input terminal for the test Normally: fixed at “L”
95	VDD4	—	Power supply terminal (+3.3V) (digital system)
96	AVSD	—	Ground terminal (for D-RAM)
97 to 99	T.P	I	Input terminal for the test Normally: fixed at “L”
100	AVDD	—	Power supply terminal (+3.3V) (for D-RAM)

SECTION 6
EXPLODED VIEWS

NOTE:
- -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
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.
- Please refer to servicing notes (page 3) for system of TYPE A, B and C.

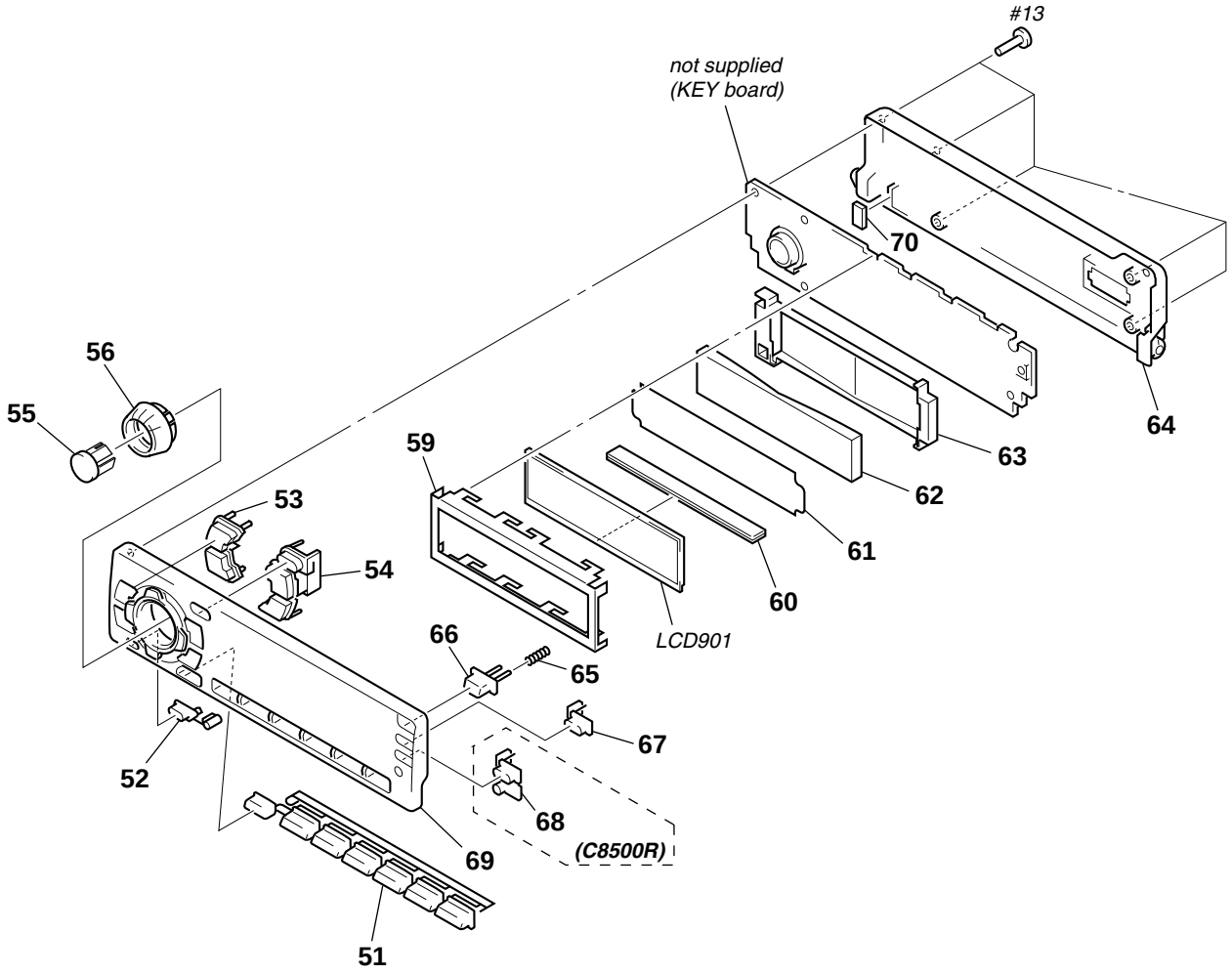
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(1) GENERAL SECTION



Ref. No.	Part No.	Description	Remark
1	X-3378-458-2	PANEL ASSY, SUB	
2	X-3376-699-2	GEAR ASSY	
3	3-030-909-02	DAMPER, OIL	
4	3-713-786-51	SCREW +P 2X3	
5	3-034-086-01	SPRING (DOOR)	
6	3-033-750-02	DOOR (MD)	
7	3-040-990-01	BUTTON (EJECT) (⏏)	
* 8	1-677-865-11	SUB BOARD	
* 9	A-3294-906-A	MAIN BOARD, COMPLETE (C8500X)	
* 9	A-3294-915-A	MAIN BOARD, COMPLETE (C8500R: TYPE A)	
* 9	A-3294-918-A	MAIN BOARD, COMPLETE (C8500R: TYPE B)	
* 9	A-3294-919-A	MAIN BOARD, COMPLETE (C8500R: TYPE C)	
11	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
* 12	3-040-998-01	BRACKET (IC)	
* 13	3-041-017-01	BRACKET (MD)	
* 14	3-040-995-01	COVER	
* 15	3-040-996-01	HEAT SINK (2P)	
* 16	3-045-878-01	PLATE (TU), GROUND	
17	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER) (C8500R)	
17	1-792-194-11	CORD (WITH CONNECTOR) (POWER) (C8500X)	
* 18	3-040-994-21	CHASSIS	
19	X-3377-621-2	LOCK ASSY	
* 21	3-045-877-01	CUSHION (TU)	
* 22	3-047-865-01	SHEET (MAIN), INSULATING	
23	1-792-602-11	CORD (WITH CONNECTOR) (SUB OUT)	
* 24	3-041-261-01	BRACKET (TR)	
* 25	A-3294-916-A	DSO BOARD, COMPLETE	
* 26	3-045-994-01	COVER (DSP), SHIELD	
* 27	3-045-138-01	CASE (DSP), SHIELD	
F1	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A)	
TUX201	A-3320-738-A	TUNER UNIT (TUX-020)	

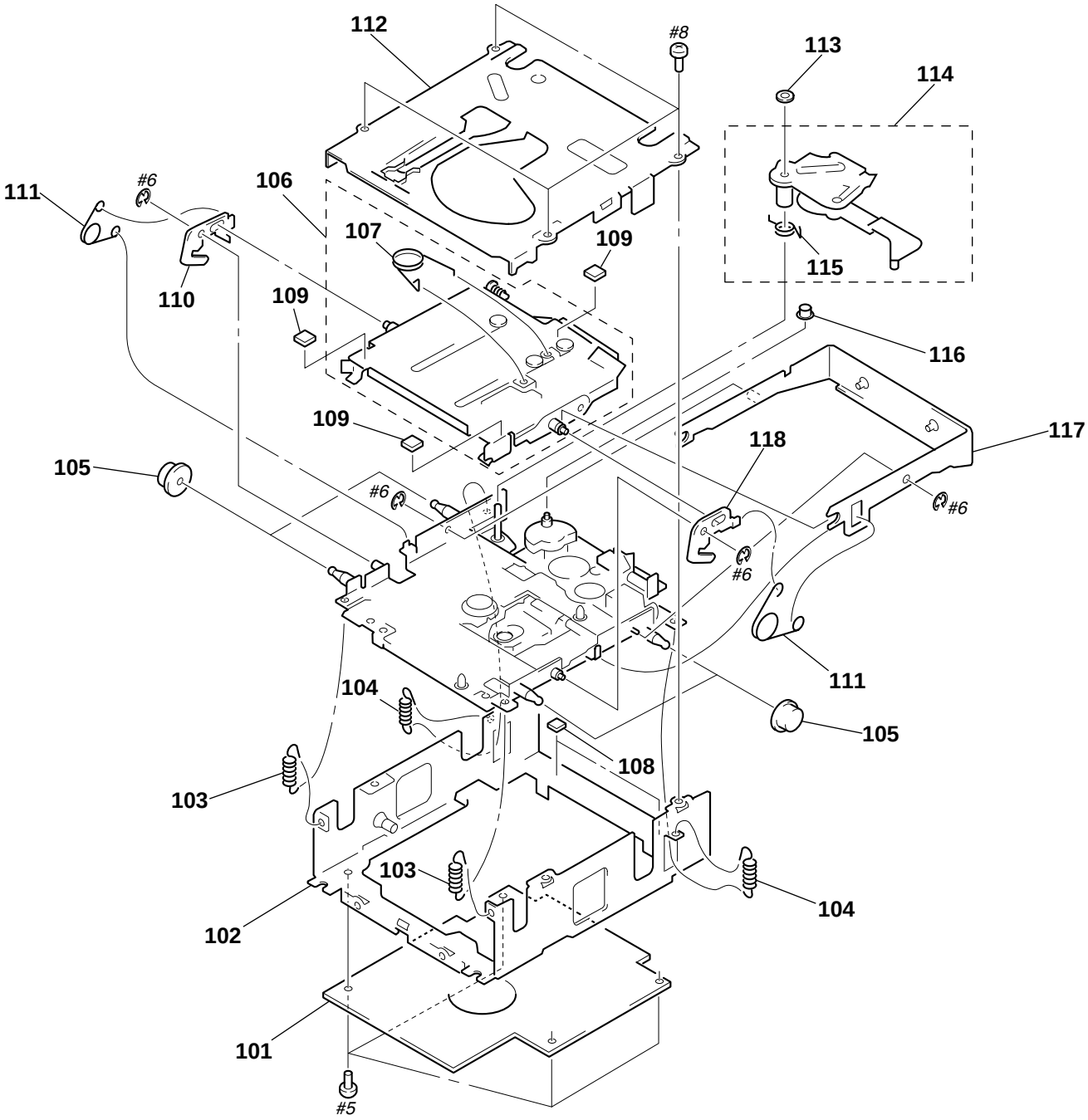
(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-041-010-01	BUTTON (1-6/M) (MODE. 1. 2. 3. 4. 5. 6)	
52	3-040-987-01	BUTTON (OFF)	
53	3-040-986-01	BUTTON (MENU/SOUND)	
54	3-041-003-01	BUTTON (LIST/ENTER) (DSPL. LIST. ENTER)	
55	3-040-980-01	BUTTON (SOURCE)	
56	3-042-458-01	KNOB (VOL-DSO)	
* 59	3-040-997-01	PLATE (LCD), GROUND	
60	1-694-660-11	CONDUCTIVE BOARD, CONNECTION	
* 61	3-041-371-02	SHEET (REFLECTOR)	
* 62	3-040-993-01	PLATE (LCD), LIGHT GUIDE	
* 63	3-040-992-02	HOLDER (LCD)	

Ref. No.	Part No.	Description	Remark
64	X-3378-398-1	PANEL ASSY, FRONT BACK	
65	3-935-151-01	SPRING (OPEN)	
66	3-040-989-01	BUTTON (OPEN)	
67	3-041-005-11	BUTTON (D) (D-BASS)	
68	3-041-006-01	BUTTON (AF/TA) (C8500R)	
69	X-3379-021-1	PANEL SUB ASSY (C8500R)	
69	X-3379-022-1	PANEL SUB ASSY (C8500X)	
70	3-045-596-01	CUSHION (OFF)	
LCD901	1-803-915-11	DISPLAY PANEL, LIQUID CRYSTAL (C8500R)	
LCD901	1-803-915-21	DISPLAY PANEL, LIQUID CRYSTAL (C8500X)	

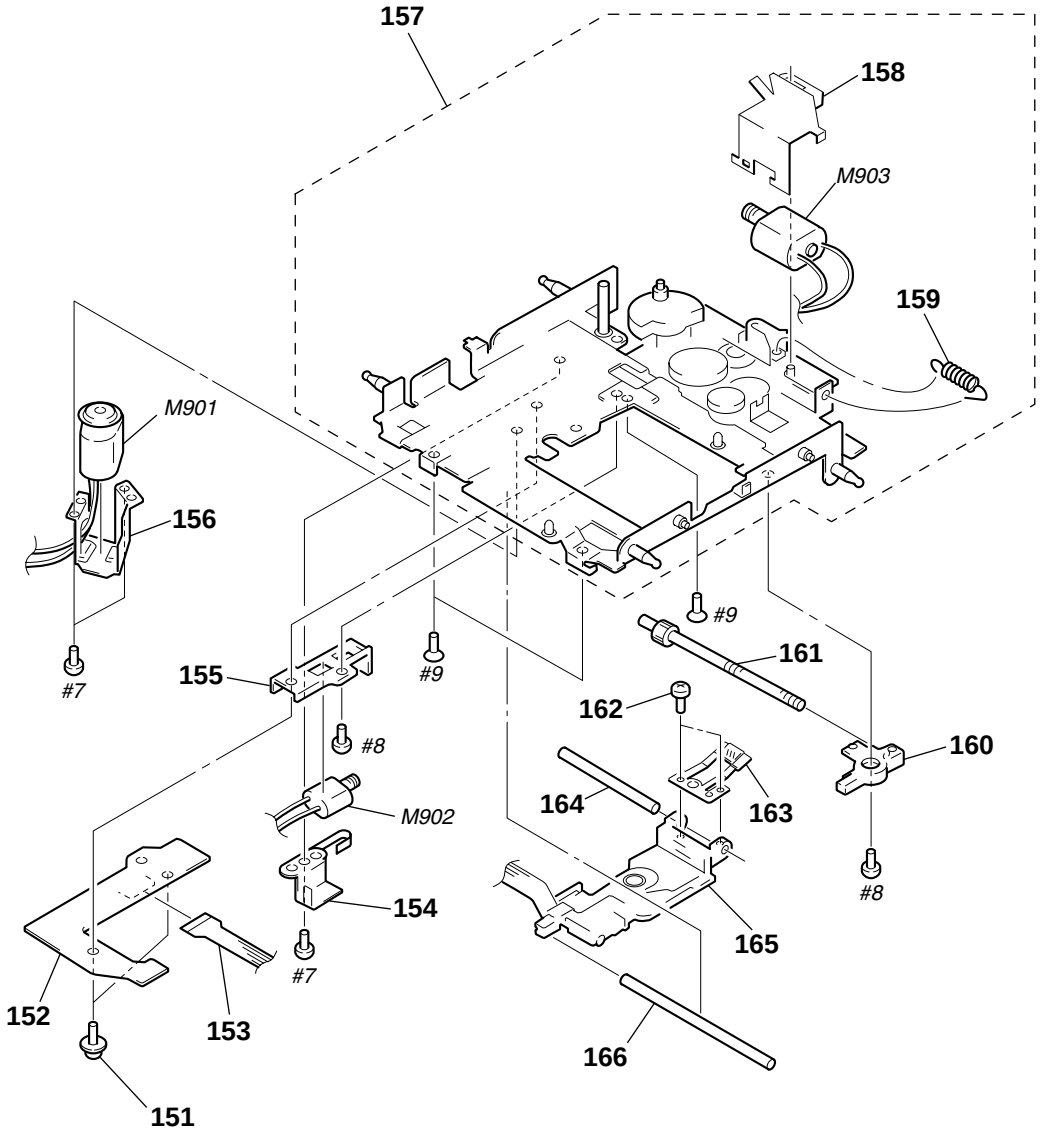
(3) MECHANISM DECK SECTION-1 (MG-164NV-138)



Ref. No.	Part No.	Description	Remark
* 101	A-3326-039-A	SERVO BOARD, COMPLETE	
* 102	X-3376-799-1	CHASSIS ASSY, MD	
103	3-032-714-02	SPRING (FLOAT F), TENSION	
104	3-921-111-01	SPRING (FLOAT B), TENSION	
105	3-919-273-01	DAMPER, OIL	
* 106	X-3376-796-3	HOLDER ASSY	
107	3-032-682-01	SPRING (HOLDER)	
* 108	3-034-301-01	CUSHION (EJ2)	
* 109	3-034-302-01	CUSHION (EJ3)	

Ref. No.	Part No.	Description	Remark
* 110	3-032-712-01	LEVER (LOCK R)	
111	3-919-281-01	SPRING (CHUCKING)	
* 112	X-3376-800-1	COVER ASSY, MD	
113	3-035-932-01	WASHER, STOPPER	
* 114	X-3376-797-3	LEVER (LE) ASSY	
115	3-032-707-01	SPRING (LEVER LE)	
116	3-925-034-01	ROLLER (GEAR E)	
* 117	X-3376-798-1	ARM ASSY, CHUCKING	
* 118	3-032-711-01	LEVER (LOCK L)	

(4) MECHANISM DECK SECTION-2 (MG-164NV-138)



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

Ref. No.	Part No.	Description	Remark
151	2-626-617-01	SCREW (2X8)	
152	A-3326-037-A	SENSOR BOARD, COMPLETE	
153	1-654-693-11	SENSOR FLEXIBLE BOARD	
154	3-919-283-01	BRACKET (SL)	
* 155	3-032-704-01	BASE (SL)	
156	3-919-297-01	BRACKET (SP)	
157	A-3301-750-A	CHASSIS (OP) ASSY	
158	3-032-660-01	BRACKET (LO)	
159	3-032-669-01	SPRING (RACK), TENSION	
* 160	3-032-705-01	BEARING (SL)	

Ref. No.	Part No.	Description	Remark
161	X-3373-213-1	SCREW ASSY, FEED	
162	3-939-590-07	SCREW (IB LOCK)	
163	3-010-091-01	SPRING (SL FEED)	
164	3-919-293-01	SHAFT (OPT S), GUIDE	
⚠165	8-583-065-03	OPTICAL PICK-UP KMS-241C/J1RP	
166	3-920-537-01	SHAFT (OPT L), GUIDE	
M901	A-3301-407-A	MOTOR ASSY, SP (SPINDLE)	
M902	A-3291-190-A	MOTOR ASSY, SL (SLED)	
M903	A-3291-191-A	MOTOR ASSY, LO (LOADING)	

SECTION 7
ELECTRICAL PARTS LIST

DSO

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
- Please refer to servicing notes (page 3) for system of TYPE A, B and C.
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

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

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

Ref. No.	Part No.	Description			Remark
*	A-3294-916-A	DSO BOARD, COMPLETE			
		**********			
*	3-045-138-01	CASE (DSP), SHIELD			
		< CAPACITOR >			
C801	1-126-393-11	ELECT CHIP	33uF	20%	10V
C802	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C803	1-126-394-11	ELECT CHIP	10uF	20%	16V
C804	1-117-709-11	ELECT CHIP	10uF	20%	10V
C805	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C806	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C808	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C809	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C810	1-128-993-21	ELECT CHIP	22uF	20%	10V
C811	1-128-993-21	ELECT CHIP	22uF	20%	10V
C812	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C813	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C814	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C815	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C816	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C817	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C818	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C819	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C820	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C821	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C822	1-128-415-11	ELECT CHIP	68uF	20%	10V
C823	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C824	1-126-393-11	ELECT CHIP	33uF	20%	10V
C825	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C826	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C827	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C828	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C829	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C830	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C831	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C834	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C835	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C836	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C837	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C838	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C839	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C840	1-126-394-11	ELECT CHIP	10uF	20%	16V
C841	1-126-394-11	ELECT CHIP	10uF	20%	16V
C842	1-126-394-11	ELECT CHIP	10uF	20%	16V
C843	1-126-394-11	ELECT CHIP	10uF	20%	16V
C844	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C845	1-126-394-11	ELECT CHIP	10uF	20%	16V
C846	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C847	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C848	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C849	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C850	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C851	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C852	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C853	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C854	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C855	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C856	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C857	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C861	1-126-394-11	ELECT CHIP	10uF	20%	16V
C862	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C874	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C875	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C876	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C877	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C878	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C879	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C880	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C881	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
		< CONNECTOR >			
CN801	1-794-320-11	PIN, CONNECTOR (PC BOARD) 29P			
		< DIODE >			
D802	8-719-073-01	DIODE MA111-TX			
D804	8-719-421-82	DIODE MA8043-M (TX)			
		< FERRITE BEAD >			
FB801	1-414-235-22	FERRITE BEAD INDUCTOR CHIP			
FB803	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB804	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB805	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB806	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB807	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB808	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB809	1-414-760-21	FERRITE BEAD INDUCTOR CHIP			

DSO **KEY**

Ref. No.	Part No.	Description			Remark
FB811	1-414-760-21	FERRITE BEAD INDUCTOR CHIP			
FB812	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB813	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB814	1-414-760-21	FERRITE BEAD INDUCTOR CHIP			
FB815	1-414-235-22	FERRITE BEAD INDUCTOR CHIP			
FB818	1-414-760-21	FERRITE BEAD INDUCTOR CHIP			
FB819	1-414-760-21	FERRITE BEAD INDUCTOR CHIP			
		< IC >			
IC801	8-759-710-88	IC NJM431U-TE2			
IC802	8-759-431-14	IC PQ3DZ53U			
IC803	8-759-524-05	IC TC74VHC126FT (EL)			
IC805	8-752-402-48	IC CXD2726Q-4			
IC806	8-759-058-58	IC TC7S04FU (TE85R)			
IC807	8-759-711-82	IC NJM4580E (T1)			
IC808	8-759-711-82	IC NJM4580E (T1)			
IC809	8-759-711-82	IC NJM4580E (T1)			
		< COIL >			
L801	1-412-058-11	INDUCTOR CHIP 10uH			
L802	1-412-060-11	INDUCTOR CHIP 22uH			
		< TRANSISTOR >			
Q801	8-729-920-85	TRANSISTOR 2SD1664-T101-QR			
		< RESISTOR >			
R801	1-216-864-11	METAL CHIP	0	5%	1/16W
R802	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R803	1-216-809-11	METAL CHIP	100	5%	1/16W
R804	1-219-274-11	RES, CHIP	220	2%	1/16W
R805	1-216-813-11	METAL CHIP	220	5%	1/16W
R806	1-219-286-11	RES, CHIP	680	2%	1/16W
R807	1-216-864-11	METAL CHIP	0	5%	1/16W
R811	1-216-861-11	METAL CHIP	2.2M	5%	1/16W
R812	1-216-859-11	RES, CHIP	1.5M	5%	1/16W
R813	1-216-864-11	METAL CHIP	0	5%	1/16W
R815	1-216-845-11	METAL CHIP	100K	5%	1/16W
R816	1-216-821-11	METAL CHIP	1K	5%	1/16W
R817	1-216-821-11	METAL CHIP	1K	5%	1/16W
R818	1-216-821-11	METAL CHIP	1K	5%	1/16W
R819	1-216-864-11	METAL CHIP	0	5%	1/16W
R820	1-216-821-11	METAL CHIP	1K	5%	1/16W
R822	1-216-809-11	METAL CHIP	100	5%	1/16W
R823	1-216-821-11	METAL CHIP	1K	5%	1/16W
R824	1-216-845-11	METAL CHIP	100K	5%	1/16W
R825	1-216-809-11	METAL CHIP	100	5%	1/16W
R826	1-216-864-11	METAL CHIP	0	5%	1/16W
R827	1-216-809-11	METAL CHIP	100	5%	1/16W
R828	1-216-805-11	METAL CHIP	47	5%	1/16W
R829	1-216-805-11	METAL CHIP	47	5%	1/16W
R830	1-216-864-11	METAL CHIP	0	5%	1/16W
R832	1-216-821-11	METAL CHIP	1K	5%	1/16W
R833	1-216-809-11	METAL CHIP	100	5%	1/16W
R834	1-216-839-11	METAL CHIP	33K	5%	1/16W
R835	1-216-843-11	METAL CHIP	68K	5%	1/16W
R837	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R838	1-216-841-11	METAL CHIP	47K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R839	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R840	1-216-841-11	METAL CHIP	47K	5%	1/16W
R841	1-216-841-11	METAL CHIP	47K	5%	1/16W
R842	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R843	1-216-833-11	RES, CHIP	10K	5%	1/16W
R844	1-216-841-11	METAL CHIP	47K	5%	1/16W
R845	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R846	1-216-833-11	RES, CHIP	10K	5%	1/16W
R847	1-216-833-11	RES, CHIP	10K	5%	1/16W
R848	1-216-841-11	METAL CHIP	47K	5%	1/16W
R849	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R850	1-216-833-11	RES, CHIP	10K	5%	1/16W
R851	1-216-833-11	RES, CHIP	10K	5%	1/16W
R852	1-216-833-11	RES, CHIP	10K	5%	1/16W
R853	1-216-833-11	RES, CHIP	10K	5%	1/16W
R854	1-216-833-11	RES, CHIP	10K	5%	1/16W
R855	1-216-833-11	RES, CHIP	10K	5%	1/16W
R856	1-216-833-11	RES, CHIP	10K	5%	1/16W
R857	1-216-833-11	RES, CHIP	10K	5%	1/16W
R858	1-216-833-11	RES, CHIP	10K	5%	1/16W
R859	1-216-833-11	RES, CHIP	10K	5%	1/16W
R860	1-216-833-11	RES, CHIP	10K	5%	1/16W
R861	1-216-833-11	RES, CHIP	10K	5%	1/16W
R862	1-216-797-11	METAL CHIP	10	5%	1/16W
R863	1-216-797-11	METAL CHIP	10	5%	1/16W
R864	1-216-797-11	METAL CHIP	10	5%	1/16W
R865	1-216-864-11	METAL CHIP	0	5%	1/16W
R868	1-216-864-11	METAL CHIP	0	5%	1/16W
R870	1-216-821-11	METAL CHIP	1K	5%	1/16W
R874	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R875	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R876	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R877	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R878	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R879	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R880	1-216-833-11	RES, CHIP	10K	5%	1/16W
R881	1-216-833-11	RES, CHIP	10K	5%	1/16W
R894	1-216-821-11	METAL CHIP	1K	5%	1/16W
R895	1-216-833-11	RES, CHIP	10K	5%	1/16W
R899	1-216-864-11	METAL CHIP	0	5%	1/16W
		< VIBRATOR >			
X801	1-767-467-11	VIBRATOR, CRYSTAL (16.9344MHz)			

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KEY BOARD
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	1-694-660-11	CONDUCTIVE BOARD, CONNECTION
*	3-040-992-02	HOLDER (LCD)
*	3-040-993-01	PLATE (LCD), LIGHT GUIDE
*	3-040-997-01	PLATE (LCD), GROUND
*	3-041-371-02	SHEET (REFLECTOR)

< CAPACITOR >

C951	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C952	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C953	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C956	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V

Ref. No.	Part No.	Description	Remark
C960	1-163-037-11	CERAMIC CHIP 0.022uF 10%	25V
C961	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C962	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C963	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
		< CONNECTOR >	
CN901	1-794-065-21	PLUG, CONNECTOR 14P	
		< DIODE >	
D901	8-719-423-32	DIODE MA8120-M-TX	
D902	8-719-422-64	DIODE MA8062-M-TX	
D903	8-719-422-64	DIODE MA8062-M-TX	
D904	8-719-422-64	DIODE MA8062-M-TX	
D951	8-719-420-90	DIODE MA8051-M-TX	
D952	8-719-422-64	DIODE MA8062-M-TX	
D954	8-719-422-89	DIODE MA8082-H-TX	
		< IC >	
IC901	8-759-653-26	IC LC75878W	
IC951	8-749-012-25	IC RS-170-TU	
		< LIQUID CRYSTAL DISPLAY >	
LCD901	1-803-915-11	DISPLAY PANEL, LIQUID CRYSTAL	(C8500R)
LCD901	1-803-915-21	DISPLAY PANEL, LIQUID CRYSTAL	(C8500X)
		< LED >	
LED901	8-719-026-38	LED CL-150SR-CD-T (ILLUMINATION)	(C8500X)
LED901	8-719-064-68	LED LBT676-J2/K1/K2 (ILLUMINATION)	(C8500R)
LED902	8-719-026-38	LED CL-150SR-CD-T (ILLUMINATION)	(C8500X)
LED902	8-719-064-68	LED LBT676-J2/K1/K2 (ILLUMINATION)	(C8500R)
LED903	8-719-026-38	LED CL-150SR-CD-T (ILLUMINATION)	(C8500X)
LED903	8-719-064-68	LED LBT676-J2/K1/K2 (ILLUMINATION)	(C8500R)
LED904	8-719-026-38	LED CL-150SR-CD-T (ILLUMINATION)	(C8500X)
LED904	8-719-064-68	LED LBT676-J2/K1/K2 (ILLUMINATION)	(C8500R)
LED910	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
LED911	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
LED912	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
LED913	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
LED914	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
LED915	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
		< SWITCH >	
LSW901	1-771-610-11	SWITCH, TACTILE (WITH LED) (OFF)	(C8500R)
LSW901	1-771-883-11	SWITCH, TACTILE (WITH LED) (OFF)	(C8500X)
LSW902	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (SOURCE)	(C8500R)
LSW902	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOURCE)	(C8500X)
LSW903	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (SOUND EQ)	(C8500R)
LSW903	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOUND EQ)	(C8500X)
LSW904	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (MENU)	(C8500R)
LSW904	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (MENU)	(C8500X)
LSW905	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (PTY, DSPL)	(C8500R)
LSW905	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (DSPL)	(C8500X)
LSW906	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (LIST)	(C8500R)
LSW906	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (LIST)	(C8500X)
LSW907	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (ENTER)	(C8500R)
LSW907	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (ENTER)	(C8500X)
LSW908	1-771-610-11	SWITCH, TACTILE (WITH LED) (MODE)	(C8500R)
LSW908	1-771-883-11	SWITCH, TACTILE (WITH LED (MODE)	(C8500X)
LSW909	1-762-737-11	SWITCH, KEYBOARD (LED) (DSO)	
LSW910	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (TA)	(C8500R)
LSW911	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (AF)	(C8500R)
LSW912	1-771-610-11	SWITCH, TACTILE (WITH LED) (6)	(C8500R)
LSW912	1-771-883-11	SWITCH, TACTILE (WITH LED) (6)	(C8500X)
LSW913	1-771-610-11	SWITCH, TACTILE (WITH LED) (5)	(C8500R)
LSW913	1-771-883-11	SWITCH, TACTILE (WITH LED) (5)	(C8500X)
LSW914	1-771-610-11	SWITCH, TACTILE (WITH LED) (4)	(C8500R)
LSW914	1-771-883-11	SWITCH, TACTILE (WITH LED) (4)	(C8500X)
LSW915	1-771-610-11	SWITCH, TACTILE (WITH LED) (3)	(C8500R)
LSW915	1-771-883-11	SWITCH, TACTILE (WITH LED) (3)	(C8500X)
LSW916	1-771-610-11	SWITCH, TACTILE (WITH LED) (SHUF 2)	(C8500R)
LSW916	1-771-883-11	SWITCH, TACTILE (WITH LED) (SHUF 2)	(C8500X)
LSW917	1-771-610-11	SWITCH, TACTILE (WITH LED) (REP 1)	(C8500R)
LSW917	1-771-883-11	SWITCH, TACTILE (WITH LED) (REP 1)	(C8500X)
		< TRANSISTOR >	
Q901	8-729-904-75	TRANSISTOR DTD114EK-T-146	(C8500R)
Q902	8-729-904-75	TRANSISTOR DTD114EK-T-146	(C8500R)
Q903	8-729-904-75	TRANSISTOR DTD114EK-T-146	
		< RESISTOR >	
R901	1-216-647-11	METAL CHIP 680 0.5%	1/10W
R902	1-216-647-11	METAL CHIP 680 0.5%	1/10W
R903	1-216-647-11	METAL CHIP 680 0.5%	1/10W
R904	1-216-651-11	METAL CHIP 1K 0.5%	1/10W
R905	1-216-655-11	METAL CHIP 1.5K 0.5%	1/10W
R906	1-216-655-11	METAL CHIP 1.5K 0.5%	1/10W
R907	1-216-659-11	METAL CHIP 2.2K 0.5%	1/10W
R908	1-216-663-11	METAL CHIP 3.3K 0.5%	1/10W
R909	1-216-667-11	METAL CHIP 4.7K 0.5%	1/10W
R910	1-216-671-11	METAL CHIP 6.8K 0.5%	1/10W

KEY **MAIN**

Ref. No.	Part No.	Description			Remark
R911	1-208-806-11	RES, CHIP	10K	2%	1/10W
R912	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R913	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R914	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R915	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R916	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R917	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R918	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R919	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R920	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R921	1-216-810-11	METAL CHIP	120	5%	1/16W (C8500X)
R921	1-216-811-11	METAL CHIP	150	5%	1/16W (C8500R)
R922	1-216-807-11	METAL CHIP	68	5%	1/16W (C8500R)
R923	1-216-811-11	METAL CHIP	150	5%	1/16W (C8500R)
R923	1-216-812-11	METAL CHIP	180	5%	1/16W (C8500X)
R924	1-216-807-11	METAL CHIP	68	5%	1/16W (C8500R)
R925	1-216-811-11	METAL CHIP	150	5%	1/16W (C8500R)
R925	1-216-812-11	METAL CHIP	180	5%	1/16W (C8500X)
R926	1-216-807-11	METAL CHIP	68	5%	1/16W (C8500R)
R927	1-216-029-00	METAL CHIP	150	5%	1/10W (C8500R)
R927	1-216-037-00	METAL CHIP	330	5%	1/10W (C8500X)
R928	1-216-021-00	METAL CHIP	68	5%	1/10W (C8500R)
R929	1-216-033-00	METAL CHIP	220	5%	1/10W (C8500X)
R931	1-216-813-11	METAL CHIP	220	5%	1/16W
R932	1-216-813-11	METAL CHIP	220	5%	1/16W
R933	1-216-813-11	METAL CHIP	220	5%	1/16W (C8500R)
R934	1-216-813-11	METAL CHIP	220	5%	1/16W (C8500R)
R938	1-216-809-11	METAL CHIP	100	5%	1/16W
R939	1-216-813-11	METAL CHIP	220	5%	1/16W (C8500X)
R940	1-216-821-11	METAL CHIP	1K	5%	1/16W (C8500X)
R951	1-216-819-11	METAL CHIP	680	5%	1/16W
R952	1-216-807-11	METAL CHIP	68	5%	1/16W
R953	1-216-857-11	METAL CHIP	1M	5%	1/16W
R954	1-216-821-11	METAL CHIP	1K	5%	1/16W
R955	1-216-049-11	RES, CHIP	1K	5%	1/10W
R956	1-216-049-11	RES, CHIP	1K	5%	1/10W
R957	1-216-841-11	METAL CHIP	47K	5%	1/16W
R958	1-216-037-00	METAL CHIP	330	5%	1/10W
R960	1-216-041-00	METAL CHIP	470	5%	1/10W
R961	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R962	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R963	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R964	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R970	1-216-815-11	METAL CHIP	330	5%	1/16W
R971	1-216-815-11	METAL CHIP	330	5%	1/16W
R972	1-216-041-00	METAL CHIP	470	5%	1/10W
R973	1-216-815-11	METAL CHIP	330	5%	1/16W
R975	1-216-864-11	METAL CHIP	0	5%	1/16W
R976	1-216-815-11	METAL CHIP	330	5%	1/16W
R977	1-216-815-11	METAL CHIP	330	5%	1/16W
R978	1-216-815-11	METAL CHIP	330	5%	1/16W
R999	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500X)
		< ROTARY ENCODER >			
RE901	1-475-014-11	ENCODER, ROTARY (VOLUME/BASS/TREBLE/BALANCE/FADER CONTROL)			
		< SWITCH >			
S901	1-771-884-11	SWITCH, TACTILE (WITH LED) (SEEK/AMS - ⏮ ◀◀)			
S902	1-771-884-11	SWITCH, TACTILE (WITH LED) (DISC +, PRST +)			
S903	1-771-884-11	SWITCH, TACTILE (WITH LED) (SEEK/AMS + ⏭ ▶▶)			
S904	1-771-884-11	SWITCH, TACTILE (WITH LED) (DISC -, PRST -)			
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*	A-3294-906-A	MAIN BOARD, COMPLETE (C8500X)			
*	A-3294-915-A	MAIN BOARD, COMPLETE (C8500R: TYPE A)			
*	A-3294-918-A	MAIN BOARD, COMPLETE (C8500R: TYPE B)			
*	A-3294-919-A	MAIN BOARD, COMPLETE (C8500R: TYPE C)			
		**********			
*	3-040-996-01	HEAT SINK (2P)			
*	3-040-998-01	BRACKET (IC)			
*	3-041-261-01	BRACKET (TR)			
*	3-045-994-01	COVER (DSP), SHIELD			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-795-09	SCREW +PTT 2.6X12 (S)			
		< BUZZER >			
BZ101	1-504-920-11	BUZZER			
		< CAPACITOR >			
C101	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C103	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C104	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C105	1-131-661-21	ELECT CHIP	100uF	20%	10V
C106	1-126-176-11	ELECT	220uF	20%	10V
C107	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C108	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C109	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C110	1-117-681-11	ELECT CHIP	100uF	20%	16V
C111	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C112	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C113	1-117-681-11	ELECT CHIP	100uF	20%	16V
C114	1-124-584-00	ELECT	100uF	20%	10V
C115	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C116	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C117	1-124-584-00	ELECT	100uF	20%	10V
C118	1-126-926-11	ELECT	1000uF	20%	10V

Ref. No.	Part No.	Description			Remark
C119	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C120	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C121	1-104-942-11	ELECT	1uF	20%	50V
C122	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C123	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C124	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C126	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C127	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C129	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C130	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C201	1-164-156-11	CERAMIC CHIP	0.1uF		25V (C8500R)
C202	1-162-962-11	CERAMIC CHIP	470PF	10%	50V (C8500R)
C203	1-164-739-11	CERAMIC CHIP	560PF	5%	50V (C8500R)
C204	1-164-505-11	CERAMIC CHIP	2.2uF		16V (C8500R)
C205	1-162-920-11	CERAMIC CHIP	27PF	5%	50V (C8500R)
C206	1-162-920-11	CERAMIC CHIP	27PF	5%	50V (C8500R)
C207	1-164-156-11	CERAMIC CHIP	0.1uF		25V (C8500R)
C208	1-164-156-11	CERAMIC CHIP	0.1uF		25V (C8500R)
C209	1-163-263-11	CERAMIC CHIP	330PF	5%	50V (C8500R)
C210	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (C8500R)
C211	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (C8500R)
C214	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C215	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C219	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C220	1-126-157-11	ELECT	10uF	20%	16V
C221	1-124-589-11	ELECT	47uF	20%	16V (C8500R)
C223	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C224	1-126-157-11	ELECT	10uF	20%	16V
C226	1-124-589-11	ELECT	47uF	20%	16V
C227	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C229	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C230	1-124-589-11	ELECT	47uF	20%	16V
C231	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C232	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (C8500R)
C233	1-163-038-00	CERAMIC CHIP	0.1uF		25V (C8500R)
C234	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C235	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (C8500R)
C236	1-163-038-00	CERAMIC CHIP	0.1uF		25V (C8500R)
C237	1-126-157-11	ELECT	10uF	20%	16V
C238	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (C8500R)
C239	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (C8500R)
C240	1-164-005-11	CERAMIC CHIP	0.47uF		25V (C8500R)
C241	1-164-315-11	CERAMIC CHIP	470PF	5%	50V (C8500R)
C242	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V (C8500R)
C245	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V (C8500R)
C246	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C301	1-164-346-11	CERAMIC CHIP	1uF		16V
C302	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C303	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C304	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C305	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C306	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C307	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C308	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C309	1-164-346-11	CERAMIC CHIP	1uF		16V
C311	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C312	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C314	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C315	1-124-589-11	ELECT	47uF	20%	16V
C316	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C317	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C318	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C319	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C320	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C321	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C322	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C323	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C324	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C325	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C326	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C327	1-124-589-11	ELECT	47uF	20%	16V (C8500X)
C328	1-124-589-11	ELECT	47uF	20%	16V (C8500X)
C329	1-124-589-11	ELECT	47uF	20%	16V (C8500X)
C330	1-124-584-00	ELECT	100uF	20%	10V (C8500X)
C331	1-124-584-00	ELECT	100uF	20%	10V (C8500X)
C332	1-124-584-00	ELECT	100uF	20%	10V (C8500X)
C333	1-124-584-00	ELECT	100uF	20%	10V (C8500X)
C334	1-124-584-00	ELECT	100uF	20%	10V (C8500X)
C335	1-124-584-00	ELECT	100uF	20%	10V (C8500X)
C336	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C337	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (C8500X)
C338	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (C8500X)

MAIN

Ref. No.	Part No.	Description			Remark
C339	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (C8500X)
C340	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (C8500X)
C341	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (C8500X)
C342	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (C8500X)
C343	1-126-157-11	ELECT	10uF	20%	16V
C344	1-126-157-11	ELECT	10uF	20%	16V
C345	1-126-157-11	ELECT	10uF	20%	16V
C346	1-126-157-11	ELECT	10uF	20%	16V
C347	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C348	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C349	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C350	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C351	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C352	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C353	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C354	1-124-259-11	ELECT	4.7uF	20%	16V (C8500R)
C354	1-104-942-11	ELECT	1uF	20%	50V (C8500X)
C355	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C356	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C357	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C358	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C359	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C360	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C361	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C362	1-124-261-00	ELECT	10uF	20%	50V (C8500R)
C362	1-124-589-11	ELECT	47uF	20%	16V (C8500X)
C363	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C364	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C365	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C366	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C367	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C368	1-104-942-11	ELECT	1uF	20%	50V
C369	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C370	1-104-942-11	ELECT	1uF	20%	50V
C371	1-135-473-21	ELECT	3300uF	20%	16V
C372	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C373	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (C8500X)
C374	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (C8500X)
C375	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (C8500X)
C376	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (C8500X)
C377	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (C8500X)
C378	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (C8500X)
C379	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C380	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C381	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C382	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C383	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C384	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C385	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C386	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C387	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C399	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C401	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C402	1-124-589-11	ELECT	47uF	20%	16V
C403	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C405	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C406	1-131-661-21	ELECT CHIP	100uF	20%	10V
C407	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C408	1-128-057-11	ELECT	330uF	20%	6.3V
C409	1-128-057-11	ELECT	330uF	20%	6.3V
C410	1-135-474-21	ELECT	330uF	20%	6.3V
C501	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C502	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V (C8500R)
C502	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V (C8500X)
C504	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C505	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C506	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C507	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C508	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C509	1-163-234-11	CERAMIC CHIP	20PF	5%	50V
C510	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C511	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C512	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C513	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C514	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C515	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C516	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C517	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C518	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C519	1-163-038-00	CERAMIC CHIP	0.1uF		25V (C8500R: TYPE A)
C519	1-164-156-11	CERAMIC CHIP	0.1uF		25V (C8500X, C8500R: TYPE B/C)
C601	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C602	1-124-229-00	ELECT	33uF	20%	10V
C603	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C604	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C605	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C606	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C607	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C701	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C702	1-104-942-11	ELECT	1uF	20%	50V
C703	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C704	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C705	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C707	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C709	1-126-154-11	ELECT	47uF	20%	6.3V
C710	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C711	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C712	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C713	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C714	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C715	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C751	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C752	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C753	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C754	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C755	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C756	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C757	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C759	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN101	1-774-701-11	PIN, CONNECTOR 16P			
CN102	1-764-808-21	JACK (ANT) (FM/AM ANTENNA)			
* CN301	1-564-506-11	PLUG, CONNECTOR 3P			
CN302	1-774-700-11	JACK, PIN 6P (BUS CONTROL IN, AUDIO OUT REAR/FRONT)			
CN401	1-764-617-12	PIN, CONNECTOR (PC BOARD) 30P			
CN601	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)			
CN701	1-770-408-11	CONNECTOR, BOARD TO BOARD 14P			
		< DIODE >			
D101	8-719-420-51	DIODE	MA729-TX		
D102	8-719-422-29	DIODE	MA8047-L-TX		
D103	8-719-060-81	DIODE	MA735-TX		
D104	8-719-801-78	DIODE	MA152WK-TX		
D105	8-719-420-14	DIODE	MA8082-M		
D106	8-719-060-81	DIODE	MA735-TX		
D107	8-719-422-62	DIODE	MA8062-L-TX		
D108	8-719-422-86	DIODE	MA8082-L-TX		
D109	8-719-977-12	DIODE	MA8068-M-TX		
D201	8-719-422-41	DIODE	MA8051-L-TX		
D202	8-719-422-16	DIODE	MA8039-L-TX		
D203	8-719-800-76	DIODE	MA153-TX (C8500R)		
D204	8-719-420-90	DIODE	MA8051-M-TX (C8500R)		
D205	8-719-073-01	DIODE	MA111-TX		
D301	8-719-422-64	DIODE	MA8062-M-TX		
D302	8-719-073-01	DIODE	MA111-TX		
D352	8-719-420-14	DIODE	MA8082-M (TX)		
D353	8-719-801-78	DIODE	MA152WK-TX		
D354	8-719-801-78	DIODE	MA152WK-TX		
D355	8-719-079-66	DIODE	1ZB22 (TPB5.SONY) (C8500R)		
D355	8-719-200-82	DIODE	11ES2-TB5 (C8500X)		
D356	8-719-079-66	DIODE	1ZB22 (TPB5.SONY) (C8500R)		
D356	8-719-200-82	DIODE	11ES2-TB5 (C8500X)		
D357	8-719-079-66	DIODE	1ZB22 (TPB5.SONY) (C8500R)		
D357	8-719-200-82	DIODE	11ES2-TB5 (C8500X)		
D358	8-719-079-66	DIODE	1ZB22 (TPB5.SONY) (C8500R)		
D358	8-719-200-82	DIODE	11ES2-TB5 (C8500X)		
D359	8-719-079-66	DIODE	1ZB22 (TPB5.SONY) (C8500R)		
D359	8-719-200-82	DIODE	11ES2-TB5 (C8500X)		
D360	8-719-079-66	DIODE	1ZB22 (TPB5.SONY) (C8500R)		
D360	8-719-200-82	DIODE	11ES2-TB5 (C8500X)		
D361	8-719-079-66	DIODE	1ZB22 (TPB5.SONY) (C8500R)		
D361	8-719-200-82	DIODE	11ES2-TB5 (C8500X)		
D362	8-719-079-66	DIODE	1ZB22 (TPB5.SONY) (C8500R)		

Ref. No.	Part No.	Description	Remark
D362	8-719-200-82	DIODE 11ES2-TB5 (C8500X)	
D363	8-719-049-38	DIODE 1N5404TU	
D501	8-719-420-90	DIODE MA8051-M-TX (C8500R)	
D502	8-719-073-01	DIODE MA111-TX	
D601	8-719-073-01	DIODE MA111-TX	
D602	8-719-073-01	DIODE MA111-TX	
D603	8-719-057-80	DIODE MA8180-M-TX	
D604	8-719-057-80	DIODE MA8180-M-TX	
D605	8-719-073-01	DIODE MA111-TX	
D606	8-719-057-80	DIODE MA8180-M-TX	
D607	8-719-977-12	DIODE MA8068-M-TX	
D608	8-719-420-51	DIODE MA729-TX	
D609	8-719-057-80	DIODE MA8180-M-TX	
D610	8-719-073-01	DIODE MA111-TX	
D611	8-719-073-01	DIODE MA111-TX	
D612	8-719-977-12	DIODE MA8068-M-TX	
D613	8-719-977-12	DIODE MA8068-M-TX	
D614	8-719-073-01	DIODE MA111-TX	
D701	8-719-400-20	DIODE MA152WA-TX	
D702	8-719-073-01	DIODE MA111-TX	
D703	8-719-801-78	DIODE MA152WK-TX	
D751	8-719-423-32	DIODE MA8102-M	
D752	8-719-422-64	DIODE MA8062-M-TX	
D753	8-719-422-64	DIODE MA8062-M-TX	
D754	8-719-423-32	DIODE MA8102-M	
D755	8-719-423-32	DIODE MA8102-M	
D756	8-719-422-64	DIODE MA8062-M-TX	
D757	8-719-422-64	DIODE MA8062-M-TX	
D758	8-719-423-32	DIODE MA8120-M-TX	
D759	8-719-422-64	DIODE MA8062-M-TX	
D760	8-719-422-64	DIODE MA8062-M-TX	
D761	8-719-423-32	DIODE MA8102-M	
D762	8-719-422-64	DIODE MA8062-M-TX	
		< FUSE >	
F1	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
		< FERRITE BEAD >	
FB201	1-500-245-11	FERRITE BEAD INDUCTOR CHIP (C8500R)	
		< IC >	
IC201	8-759-650-68	IC SAA6588T/V2-118 (C8500R)	
IC202	8-759-711-82	IC NJM4580E (T1) (C8500R)	
IC301	8-759-653-27	IC TDA7402TR	
IC302	8-759-521-35	IC TL5001CD	
IC303	8-759-593-97	IC NJM2160AM-TE2 (C8500X)	
IC304	8-759-593-97	IC NJM2160AM-TE2 (C8500X)	
IC305	8-759-593-97	IC NJM2160AM-TE2 (C8500X)	
IC351	8-759-660-96	IC TDA7560 (C8500X)	
IC351	8-759-663-88	IC TA8268H (C8500R)	
IC502	8-759-670-66	IC MB90574BPMT-G-263-BND (C8500X)	
IC502	8-759-670-67	IC MB90574BPMT-G-264-BND (C8500R)	
IC503	8-759-581-75	IC XC61AN4102MR	
IC504	8-759-495-76	IC RN5VD33AA-TL	
IC601	8-759-449-89	IC BA8270F-E2	
IC701	8-759-670-68	IC HD6432355A10F (C8500X)	

MAIN

Ref. No.	Part No.	Description	Remark
IC701	8-759-672-71	IC HD6432355A21F (C8500R)	
IC702	8-759-277-63	IC TC7W14FU (TE12R)	
		< JACK >	
J651	1-566-822-41	JACK (REMOTE IN)	
		< COIL >	
L101	1-469-673-21	INDUCTOR 100uH	
L102	1-469-674-21	INDUCTOR 220uH	
L103	1-469-675-21	INDUCTOR 100uH	
L104	1-414-185-51	INDUCTOR 22uH	
L201	1-414-185-51	INDUCTOR 22uH	
L301	1-414-179-51	INDUCTOR 2.2uH	
L351	1-419-476-11	INDUCTOR 250uH	
L402	1-469-673-21	INDUCTOR 100uH	
L701	1-414-856-51	INDUCTOR 10uH	
		< TRANSISTOR >	
Q101	8-729-421-19	TRANSISTOR UN2213-TX	
Q102	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q103	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q104	8-729-822-84	TRANSISTOR 2SB1202FAT-TL	
Q105	8-729-822-84	TRANSISTOR 2SB1202FAT-TL	
Q106	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q107	8-729-822-84	TRANSISTOR 2SB1202FAT-TL	
Q108	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q109	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q110	8-729-040-17	TRANSISTOR 2SD2164-K	
Q111	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q112	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q113	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q201	8-729-920-85	TRANSISTOR 2SD1664-T101-QR	
Q202	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q203	8-729-106-60	TRANSISTOR 2SB1132-T101-QR	
Q204	8-729-421-22	TRANSISTOR UN2211-TX	
Q205	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q206	8-729-424-08	TRANSISTOR UN2111-TX	
Q207	8-729-421-22	TRANSISTOR UN2211-TX	
Q208	8-729-421-22	TRANSISTOR UN2211-TX (C8500R)	
Q209	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q351	8-729-421-22	TRANSISTOR UN2211-TX	
Q352	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q353	8-729-424-59	TRANSISTOR UN2212-TX	
Q354	8-729-424-18	TRANSISTOR UN2113	
Q355	8-729-424-59	TRANSISTOR UN2212-TX	
Q356	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q357	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q358	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q359	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q360	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q361	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q363	8-729-421-22	TRANSISTOR UN2211-TX	
Q364	8-729-421-22	TRANSISTOR UN2211-TX	
Q365	8-729-807-35	TRANSISTOR 2SB1123-T-TD	
Q366	8-729-807-35	TRANSISTOR 2SB1123-T-TD	
Q401	8-729-822-84	TRANSISTOR 2SB1202FAT-TL	
Q404	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q405	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	

Ref. No.	Part No.	Description	Remark
Q406	8-729-822-84	TRANSISTOR 2SB1202FAT-TL	
Q407	8-729-421-22	TRANSISTOR UN2211-TX	
Q601	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q602	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q603	8-729-424-18	TRANSISTOR UN2113-TX	
Q604	8-729-421-22	TRANSISTOR UN2211-TX	
Q605	8-729-424-18	TRANSISTOR UN2113	
Q701	8-729-424-08	TRANSISTOR UN2111-TX	
Q702	8-729-424-08	TRANSISTOR UN2111-TX	
Q703	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q704	8-729-822-84	TRANSISTOR 2SB1202FAT-TL	
Q705	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
		< RESISTOR >	
R101	1-216-839-11	METAL CHIP 33K 5% 1/16W	
R102	1-218-879-11	METAL CHIP 22K 0.5% 1/16W	
R103	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R104	1-218-903-11	METAL CHIP 220K 0.5% 1/16W	
R105	1-218-290-11	METAL CHIP 6.2K 5% 1/16W	
R106	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
R107	1-216-839-11	METAL CHIP 33K 5% 1/16W	
R108	1-216-849-11	METAL CHIP 220K 5% 1/16W	
R109	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R110	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R111	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R112	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R113	1-216-049-11	RES, CHIP 1K 5% 1/10W	
R114	1-216-049-11	RES, CHIP 1K 5% 1/10W	
R115	1-216-041-00	METAL CHIP 470 5% 1/10W	
R116	1-216-049-11	RES, CHIP 1K 5% 1/10W	
R117	1-216-037-00	METAL CHIP 330 5% 1/10W	
R118	1-216-033-00	METAL CHIP 220 5% 1/10W	
R119	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R120	1-216-817-11	METAL CHIP 470 5% 1/16W	
R121	1-216-049-11	RES, CHIP 1K 5% 1/10W	
R122	1-216-833-11	RES, CHIP 10K 5% 1/16W	
R123	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
R124	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R125	1-216-308-00	METAL CHIP 4.7 5% 1/10W	
R126	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R127	1-216-833-11	RES, CHIP 10K 5% 1/16W	
R128	1-216-839-11	METAL CHIP 33K 5% 1/16W	
R129	1-216-833-11	RES, CHIP 10K 5% 1/16W	
R130	1-216-077-00	RES, CHIP 15K 5% 1/10W	
R131	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R132	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R133	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R134	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R136	1-216-833-11	RES, CHIP 10K 5% 1/16W	
R137	1-216-833-11	RES, CHIP 10K 5% 1/16W	
R138	1-216-295-00	SHORT 0	
R139	1-216-001-00	METAL CHIP 10 5% 1/10W	
R140	1-216-041-00	METAL CHIP 470 5% 1/10W	
R141	1-216-049-11	RES, CHIP 1K 5% 1/10W	
R142	1-216-049-11	RES, CHIP 1K 5% 1/10W	
R201	1-216-853-11	METAL CHIP 470K 5% 1/16W	(C8500R)

Ref. No.	Part No.	Description			Remark
R202	1-216-821-11	METAL CHIP	1K	5%	1/16W (C8500R)
R203	1-216-832-11	METAL CHIP	8.2K	5%	1/16W (C8500R)
R204	1-216-817-11	METAL CHIP	470	5%	1/16W (C8500R)
R205	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R206	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500R)
R207	1-216-001-00	METAL CHIP	10	5%	1/10W
R208	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500R)
R209	1-216-025-00	RES, CHIP	100	5%	1/10W
R210	1-216-025-00	RES, CHIP	100	5%	1/10W
R211	1-216-025-00	RES, CHIP	100	5%	1/10W (C8500R)
R212	1-216-025-00	RES, CHIP	100	5%	1/10W (C8500R)
R213	1-216-864-11	METAL CHIP	0	5%	1/16W
R214	1-216-001-00	METAL CHIP	10	5%	1/10W
R215	1-216-841-11	METAL CHIP	47K	5%	1/16W
R216	1-216-817-11	METAL CHIP	470	5%	1/16W
R217	1-216-839-11	METAL CHIP	33K	5%	1/16W
R218	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R219	1-216-833-11	RES, CHIP	10K	5%	1/16W
R220	1-216-819-11	METAL CHIP	680	5%	1/16W
R221	1-216-073-00	METAL CHIP	10K	5%	1/10W (C8500R)
R222	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (C8500R)
R223	1-216-073-00	METAL CHIP	10K	5%	1/10W (C8500R)
R224	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (C8500R)
R225	1-216-815-11	METAL CHIP	330	5%	1/16W
R226	1-216-845-11	METAL CHIP	100K	5%	1/16W (C8500R)
R227	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (C8500R)
R228	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R229	1-216-797-11	METAL CHIP	10	5%	1/16W
R230	1-216-121-00	RES, CHIP	1M	5%	1/10W (C8500R)
R231	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R233	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R234	1-216-295-00	SHORT	0		
R236	1-216-295-00	SHORT	0		
R237	1-216-295-00	SHORT	0		
R238	1-216-295-00	SHORT	0 (C8500R)		
R301	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500X)
R302	1-216-025-00	RES, CHIP	100	5%	1/10W
R305	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R305	1-216-817-11	METAL CHIP	470	5%	1/16W (C8500X)
R306	1-216-841-11	METAL CHIP	47K	5%	1/16W
R307	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R307	1-216-817-11	METAL CHIP	470	5%	1/16W (C8500X)
R310	1-216-809-11	METAL CHIP	100	5%	1/16W
R311	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R312	1-216-073-00	METAL CHIP	10K	5%	1/10W
R313	1-216-809-11	METAL CHIP	100	5%	1/16W
R314	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R315	1-216-073-00	METAL CHIP	10K	5%	1/10W
R317	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R318	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500X)
R319	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500X)
R320	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500X)
R321	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500X)
R322	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500X)
R323	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500X)
R324	1-216-049-11	RES, CHIP	1K	5%	1/10W
R325	1-216-085-00	METAL CHIP	33K	5%	1/10W (C8500X)
R326	1-216-085-00	METAL CHIP	33K	5%	1/10W (C8500X)
R327	1-216-085-00	METAL CHIP	33K	5%	1/10W (C8500X)
R328	1-216-085-00	METAL CHIP	33K	5%	1/10W (C8500X)
R329	1-216-085-00	METAL CHIP	33K	5%	1/10W (C8500X)
R330	1-216-085-00	METAL CHIP	33K	5%	1/10W (C8500X)
R331	1-216-295-00	SHORT	0 (C8500R)		
R332	1-216-295-00	SHORT	0 (C8500R)		
R333	1-216-295-00	SHORT	0 (C8500R)		
R334	1-216-295-00	SHORT	0 (C8500R)		
R335	1-216-295-00	SHORT	0 (C8500R)		
R336	1-216-295-00	SHORT	0 (C8500R)		
R337	1-216-089-00	RES, CHIP	47K	5%	1/10W (C8500X)
R338	1-216-833-11	RES, CHIP	10K	5%	1/16W
R339	1-216-089-00	RES, CHIP	47K	5%	1/10W
R340	1-216-073-00	METAL CHIP	10K	5%	1/10W
R341	1-216-864-11	METAL CHIP	0	5%	1/16W
R343	1-216-813-11	METAL CHIP	220	5%	1/16W
R344	1-216-813-11	METAL CHIP	220	5%	1/16W
R345	1-216-813-11	METAL CHIP	220	5%	1/16W
R346	1-216-813-11	METAL CHIP	220	5%	1/16W
R347	1-216-813-11	METAL CHIP	220	5%	1/16W
R348	1-216-813-11	METAL CHIP	220	5%	1/16W
R349	1-216-821-11	METAL CHIP	1K	5%	1/16W (C8500R)
R349	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500X)
R350	1-216-295-00	SHORT	0 (C8500R)		
R350	1-216-073-00	METAL CHIP	10K	5%	1/10W (C8500X)

MAIN

Ref. No.	Part No.	Description			Remark
R351	1-216-837-11	METAL CHIP	22K	5%	1/16W
R352	1-216-837-11	METAL CHIP	22K	5%	1/16W
R353	1-216-837-11	METAL CHIP	22K	5%	1/16W
R354	1-216-837-11	METAL CHIP	22K	5%	1/16W
R355	1-216-081-00	METAL CHIP	22K	5%	1/10W
R356	1-216-081-00	METAL CHIP	22K	5%	1/10W
R357	1-216-841-11	METAL CHIP	47K	5%	1/16W
R358	1-216-841-11	METAL CHIP	47K	5%	1/16W
R359	1-216-821-11	METAL CHIP	1K	5%	1/16W
R360	1-216-864-11	METAL CHIP	0	5%	1/16W
R361	1-216-821-11	METAL CHIP	1K	5%	1/16W
R363	1-216-809-11	METAL CHIP	100	5%	1/16W
R364	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R365	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R366	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R367	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R368	1-216-222-00	RES, CHIP	10K	5%	1/8W
R369	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R370	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R371	1-216-833-11	RES, CHIP	10K	5%	1/16W
R372	1-216-833-11	RES, CHIP	10K	5%	1/16W
R373	1-216-222-00	RES, CHIP	10K	5%	1/8W
R374	1-216-222-00	RES, CHIP	10K	5%	1/8W
R375	1-216-864-11	METAL CHIP	0	5%	1/16W
R376	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500X)
R377	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500X)
R378	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500X)
R379	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500X)
R380	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500X)
R381	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500X)
R382	1-216-041-11	METAL CHIP	470	5%	1/10W (C8500X)
R383	1-216-041-11	METAL CHIP	470	5%	1/10W (C8500X)
R384	1-216-041-11	METAL CHIP	470	5%	1/10W (C8500X)
R385	1-216-041-11	METAL CHIP	470	5%	1/10W (C8500X)
R386	1-216-041-11	METAL CHIP	470	5%	1/10W (C8500X)
R387	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R387	1-216-817-11	METAL CHIP	470	5%	1/16W (C8500X)
R388	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R388	1-216-817-11	METAL CHIP	470	5%	1/16W (C8500X)
R389	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R389	1-216-817-11	METAL CHIP	470	5%	1/16W (C8500X)
R390	1-216-833-11	RES, CHIP	10K	5%	1/16W (C8500R)
R390	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500X)
R391	1-216-073-00	METAL CHIP	10K	5%	1/10W (C8500R)
R391	1-216-295-00	SHORT	0 (C8500X)		
R392	1-216-833-11	RES, CHIP	10K	5%	1/16W (C8500R)
R392	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500X)
R393	1-216-833-11	RES, CHIP	10K	5%	1/16W (C8500R)
R393	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500X)
R398	1-216-041-11	METAL CHIP	470	5%	1/10W (C8500X)
R408	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R409	1-216-073-00	METAL CHIP	10K	5%	1/10W
R412	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R414	1-216-049-11	RES, CHIP	1K	5%	1/10W
R415	1-216-049-11	RES, CHIP	1K	5%	1/10W
R416	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R417	1-216-049-11	RES, CHIP	1K	5%	1/10W
R418	1-216-041-00	METAL CHIP	470	5%	1/10W
R419	1-216-820-11	METAL CHIP	820	5%	1/16W
R420	1-216-864-11	METAL CHIP	0	5%	1/16W
R421	1-216-864-11	METAL CHIP	0	5%	1/16W
R501	1-216-081-00	METAL CHIP	22K	5%	1/10W
R502	1-216-841-11	METAL CHIP	47K	5%	1/16W (C8500R: TYPE C)
R502	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500X, C8500R: TYPE A)
R503	1-216-845-11	METAL CHIP	100K	5%	1/16W (C8500R: TYPE C)
R503	1-216-833-11	RES, CHIP	10K	5%	1/16W (C8500R: TYPE B)
R504	1-216-025-00	RES, CHIP	100	5%	1/10W
R505	1-216-295-00	SHORT	0 (C8500R)		
R506	1-216-049-11	RES, CHIP	1K	5%	1/10W
R507	1-216-049-11	RES, CHIP	1K	5%	1/10W
R508	1-216-049-11	RES, CHIP	1K	5%	1/10W
R509	1-216-049-11	RES, CHIP	1K	5%	1/10W
R510	1-216-097-00	RES, CHIP	100K	5%	1/10W (C8500R)
R511	1-216-845-11	METAL CHIP	100K	5%	1/16W (C8500X)
R512	1-216-821-11	METAL CHIP	1K	5%	1/16W
R513	1-216-049-11	RES, CHIP	1K	5%	1/10W
R514	1-216-049-11	RES, CHIP	1K	5%	1/10W (C8500R)
R515	1-216-864-11	METAL CHIP	0	5%	1/16W
R516	1-216-845-11	METAL CHIP	100K	5%	1/16W
R517	1-216-049-11	RES, CHIP	1K	5%	1/10W
R518	1-216-833-11	RES, CHIP	10K	5%	1/16W
R519	1-216-809-11	METAL CHIP	100	5%	1/16W
R520	1-216-049-11	RES, CHIP	1K	5%	1/10W
R521	1-216-809-11	METAL CHIP	100	5%	1/16W
R522	1-216-833-11	RES, CHIP	10K	5%	1/16W
R523	1-216-821-11	METAL CHIP	1K	5%	1/16W
R524	1-216-821-11	METAL CHIP	1K	5%	1/16W
R526	1-216-821-11	METAL CHIP	1K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R527	1-216-815-11	METAL CHIP	330	5%	1/16W
R528	1-216-821-11	METAL CHIP	1K	5%	1/16W
R529	1-216-049-11	RES, CHIP	1K	5%	1/10W
R530	1-216-845-11	METAL CHIP	100K	5%	1/16W
R531	1-216-821-11	METAL CHIP	1K	5%	1/16W
R532	1-216-821-11	METAL CHIP	1K	5%	1/16W
R533	1-216-809-11	METAL CHIP	100	5%	1/16W
R534	1-216-845-11	METAL CHIP	100K	5%	1/16W
R535	1-216-821-11	METAL CHIP	1K	5%	1/16W
R536	1-216-821-11	METAL CHIP	1K	5%	1/16W
R537	1-216-845-11	METAL CHIP	100K	5%	1/16W
R538	1-216-049-11	RES, CHIP	1K	5%	1/10W
R540	1-216-069-11	METAL CHIP	6.8K	5%	1/10W
R541	1-216-097-00	RES, CHIP	100K	5%	1/10W (C8500R)
R542	1-216-833-11	RES, CHIP	10K	5%	1/16W
R543	1-216-097-00	RES, CHIP	100K	5%	1/10W
R544	1-216-845-11	METAL CHIP	100K	5%	1/16W
R546	1-216-097-00	RES, CHIP	100K	5%	1/10W
R547	1-216-845-11	METAL CHIP	100K	5%	1/16W (C8500X)
R548	1-216-845-11	METAL CHIP	100K	5%	1/16W
R549	1-216-049-11	RES, CHIP	1K	5%	1/10W
R550	1-216-845-11	METAL CHIP	100K	5%	1/16W
R551	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R601	1-216-089-00	RES, CHIP	47K	5%	1/10W
R602	1-216-845-11	METAL CHIP	100K	5%	1/16W
R603	1-216-025-00	RES, CHIP	100	5%	1/10W
R604	1-216-295-00	SHORT	0		
R605	1-216-025-00	RES, CHIP	100	5%	1/10W
R606	1-216-097-00	RES, CHIP	100K	5%	1/10W
R607	1-216-845-11	METAL CHIP	100K	5%	1/16W
R608	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R609	1-216-833-11	RES, CHIP	10K	5%	1/16W
R610	1-216-025-00	RES, CHIP	100	5%	1/10W
R611	1-216-841-11	METAL CHIP	47K	5%	1/16W
R612	1-216-089-00	RES, CHIP	47K	5%	1/10W
R614	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R615	1-216-073-00	METAL CHIP	10K	5%	1/10W
R616	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R617	1-216-025-00	RES, CHIP	100	5%	1/10W
R618	1-216-025-00	RES, CHIP	100	5%	1/10W
R701	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R702	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R703	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R704	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R705	1-216-833-11	RES, CHIP	10K	5%	1/16W
R706	1-216-041-00	METAL CHIP	470	5%	1/10W
R707	1-216-809-11	METAL CHIP	100	5%	1/16W
R708	1-216-821-11	METAL CHIP	1K	5%	1/16W
R709	1-216-821-11	METAL CHIP	1K	5%	1/16W
R710	1-216-821-11	METAL CHIP	1K	5%	1/16W
R711	1-216-821-11	METAL CHIP	1K	5%	1/16W
R712	1-216-809-11	METAL CHIP	100	5%	1/16W
R713	1-216-295-00	SHORT	0		
R714	1-216-049-11	RES, CHIP	1K	5%	1/10W
R715	1-216-864-11	METAL CHIP	0	5%	1/16W
R716	1-216-845-11	METAL CHIP	100K	5%	1/16W
R717	1-216-809-11	METAL CHIP	100	5%	1/16W
R718	1-216-025-00	RES, CHIP	100	5%	1/10W
R719	1-216-821-11	METAL CHIP	1K	5%	1/16W
R720	1-216-049-11	RES, CHIP	1K	5%	1/10W
R721	1-216-025-00	RES, CHIP	100	5%	1/10W
R722	1-216-845-11	METAL CHIP	100K	5%	1/16W
R723	1-216-025-00	RES, CHIP	100	5%	1/10W
R724	1-216-809-11	METAL CHIP	100	5%	1/16W
R725	1-216-845-11	METAL CHIP	100K	5%	1/16W
R726	1-216-821-11	METAL CHIP	1K	5%	1/16W
R727	1-216-809-11	METAL CHIP	100	5%	1/16W
R728	1-216-809-11	METAL CHIP	100	5%	1/16W
R729	1-216-821-11	METAL CHIP	1K	5%	1/16W
R731	1-216-049-11	RES, CHIP	1K	5%	1/10W
R732	1-216-819-11	METAL CHIP	680	5%	1/16W
R734	1-216-845-11	METAL CHIP	100K	5%	1/16W
R735	1-216-864-11	METAL CHIP	0	5%	1/16W
R736	1-216-025-00	RES, CHIP	100	5%	1/10W
R737	1-216-025-00	RES, CHIP	100	5%	1/10W
R738	1-216-025-00	RES, CHIP	100	5%	1/10W
R739	1-216-845-11	METAL CHIP	100K	5%	1/16W
R740	1-216-845-11	METAL CHIP	100K	5%	1/16W
R741	1-216-845-11	METAL CHIP	100K	5%	1/16W
R742	1-216-821-11	METAL CHIP	1K	5%	1/16W
R743	1-216-864-11	METAL CHIP	0	5%	1/16W
R744	1-216-295-00	SHORT	0		

< SWITCH >

S101	1-692-431-21	SWITCH, TACTILE (RESET)
S102	1-771-540-11	SWITCH, PUSH (1KEY) (NOSE DETECT)

< THERMISTOR >

TH101	1-801-792-21	THERMISTOR, POSITIVE
TH102	1-810-940-11	THERMISTOR, POSITIVE
TH103	1-810-940-11	THERMISTOR, POSITIVE

< TUNER UNIT >

TUX201	A-3320-738-A	TUNER UNIT (TUX-020)

< VIBRATOR >

X101	1-767-853-21	VIBRATOR, CRYSTAL (4.332MHz) (C8500R)
X103	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)
X104	1-781-844-11	VIBRATOR, CRYSTAL (3.68MHz)
X105	1-781-822-21	VIBRATOR, CERAMIC (18.432MHz)

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A-3326-037-A SENSOR BOARD, COMPLETE

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For the parts on the SENSOR board, replace the entire mounted board.

****

* A-3326-039-A SERVO BOARD, COMPLETE

****

< CAPACITOR >

C11	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C302	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

SERVO

Ref. No.	Part No.	Description			Remark
C305	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C306	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C307	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C308	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C309	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C310	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C311	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C314	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C315	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C316	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C317	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C318	1-104-852-11	TANTALUM CHIP	22uF	20%	6.3V
C319	1-104-852-11	TANTALUM CHIP	22uF	20%	6.3V
C320	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C321	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C322	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C324	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C325	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C326	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C327	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C328	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C329	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C330	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C331	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C333	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C336	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C339	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C342	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C343	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C344	1-104-852-11	TANTALUM CHIP	22uF	20%	6.3V
C345	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C346	1-104-852-11	TANTALUM CHIP	22uF	20%	6.3V
C347	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C348	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C349	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C350	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C351	1-104-852-11	TANTALUM CHIP	22uF	20%	10V
C352	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C353	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C356	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C357	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C358	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C359	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C361	1-135-259-11	TANTALUM CHIP	10uF	20%	6.3V
C362	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C402	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C403	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C501	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C506	1-104-852-11	TANTALUM CHIP	22uF	20%	10V
C510	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C511	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C512	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C514	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C515	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C516	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN101	1-764-616-12	HOUSING, CONNECTOR (PC BOARD) 30P			
CN102	1-573-929-21	CONNECTOR, FFC/FPC (ZIF) 20P			
CN103	1-764-439-21	CONNECTOR, FPC 11P			
		< DIODE >			
D401	8-719-157-93	DIODE DTZ-TT11-3.0B			
D501	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
FB302	1-414-760-21	FERRITE BEAD INDUCTOR CHIP			
		< IC >			
IC301	8-752-384-47	IC CXD2652AR			
IC302	8-752-080-95	IC CXA2523AR			
IC303	8-759-430-25	IC BH6511FS			
IC304	8-759-096-87	IC TC7WU04FU (TE12R)			
IC305	8-759-040-83	IC BA6287F			
IC306	8-759-058-62	IC TC7S08FU (TE85R)			
IC307	8-759-368-16	IC MN41V4400TT-08S			
IC401	8-759-909-71	IC BA4558F-E2			
IC501	8-752-909-21	IC CXP84340-217Q			
IC502	8-759-238-47	IC TC74HCT7007AF (EL)			
IC503	8-759-238-47	IC TC74HCT7007AF (EL)			
		< COIL/SHORT >			
L301	1-412-058-11	INDUCTOR CHIP	10uH		
L302	1-412-058-11	INDUCTOR CHIP	10uH		
L303	1-219-365-11	SHORT	0		
L304	1-219-365-11	SHORT	0		
L305	1-219-365-11	SHORT	0		
L306	1-219-365-11	SHORT	0		
L501	1-412-058-11	INDUCTOR CHIP	10uH		
		< TRANSISTOR >			
Q301	8-729-230-49	TRANSISTOR 2SC2712Y-TE85L			
Q302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR			
Q401	8-729-920-85	TRANSISTOR 2SD1664-T101-QR			
Q402	8-729-106-60	TRANSISTOR 2SB1132-T101-QR			
Q403	8-729-421-22	TRANSISTOR UN2211-TX			
		< RESISTOR >			
R301	1-216-809-11	METAL CHIP	100	5%	1/16W
R302	1-216-809-11	METAL CHIP	100	5%	1/16W
R303	1-216-809-11	METAL CHIP	100	5%	1/16W
R304	1-216-809-11	METAL CHIP	100	5%	1/16W
R305	1-216-809-11	METAL CHIP	100	5%	1/16W
R306	1-216-809-11	METAL CHIP	100	5%	1/16W
R307	1-216-809-11	METAL CHIP	100	5%	1/16W
R308	1-216-809-11	METAL CHIP	100	5%	1/16W
R311	1-216-809-11	METAL CHIP	100	5%	1/16W
R313	1-216-809-11	METAL CHIP	100	5%	1/16W
R314	1-216-809-11	METAL CHIP	100	5%	1/16W
R318	1-216-833-11	RES, CHIP	10K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R319	1-216-845-11	METAL CHIP	100K	5%	1/16W
R320	1-216-855-11	METAL CHIP	680K	5%	1/16W
R324	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R325	1-216-821-11	METAL CHIP	1K	5%	1/16W
R327	1-216-821-11	METAL CHIP	1K	5%	1/16W
R328	1-216-811-11	METAL CHIP	150	5%	1/16W
R329	1-216-819-11	METAL CHIP	680	5%	1/16W
R330	1-216-853-11	METAL CHIP	470K	5%	1/16W
R331	1-216-809-11	METAL CHIP	100	5%	1/16W
R332	1-216-809-11	METAL CHIP	100	5%	1/16W
R333	1-216-819-11	METAL CHIP	680	5%	1/16W
R334	1-216-809-11	METAL CHIP	100	5%	1/16W
R335	1-216-815-11	METAL CHIP	330	5%	1/16W
R336	1-216-853-11	METAL CHIP	470K	5%	1/16W
R337	1-216-853-11	METAL CHIP	470K	5%	1/16W
R338	1-216-833-11	RES, CHIP	10K	5%	1/16W
R339	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R340	1-216-843-11	METAL CHIP	68K	5%	1/16W
R341	1-216-837-11	METAL CHIP	22K	5%	1/16W
R342	1-216-833-11	RES, CHIP	10K	5%	1/16W
R343	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R344	1-216-833-11	RES, CHIP	10K	5%	1/16W
R345	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R346	1-216-841-11	METAL CHIP	47K	5%	1/16W
R347	1-216-833-11	RES, CHIP	10K	5%	1/16W
R348	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R349	1-216-025-00	RES, CHIP	100	5%	1/10W
R350	1-216-142-00	RES, CHIP	4.7	5%	1/8W
R351	1-218-855-11	METAL CHIP	2.2K	0.5%	1/16W
R352	1-218-855-11	METAL CHIP	2.2K	0.5%	1/16W
R353	1-218-855-11	METAL CHIP	2.2K	0.5%	1/16W
R354	1-216-857-11	METAL CHIP	1M	5%	1/16W
R355	1-216-833-11	RES, CHIP	10K	5%	1/16W
R356	1-216-833-11	RES, CHIP	10K	5%	1/16W
R357	1-216-017-00	RES, CHIP	47	5%	1/10W
R358	1-216-864-11	METAL CHIP	0	5%	1/16W
R401	1-216-073-00	METAL CHIP	10K	5%	1/10W
R402	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R403	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/16W
R405	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R406	1-218-869-11	METAL CHIP	8.2K	0.5%	1/16W
R501	1-216-821-11	METAL CHIP	1K	5%	1/16W
R502	1-216-821-11	METAL CHIP	1K	5%	1/16W
R503	1-216-821-11	METAL CHIP	1K	5%	1/16W
R504	1-216-821-11	METAL CHIP	1K	5%	1/16W
R505	1-216-821-11	METAL CHIP	1K	5%	1/16W
R506	1-216-845-11	METAL CHIP	100K	5%	1/16W
R507	1-218-863-11	METAL CHIP	4.7K	0.5%	1/16W
R510	1-216-864-11	METAL CHIP	0	5%	1/16W
R511	1-216-845-11	METAL CHIP	100K	5%	1/16W
R512	1-216-847-11	METAL CHIP	150K	5%	1/16W
R516	1-216-809-11	METAL CHIP	100	5%	1/16W
R517	1-216-809-11	METAL CHIP	100	5%	1/16W
R518	1-216-809-11	METAL CHIP	100	5%	1/16W
R519	1-216-809-11	METAL CHIP	100	5%	1/16W
R520	1-216-809-11	METAL CHIP	100	5%	1/16W
R521	1-216-809-11	METAL CHIP	100	5%	1/16W
R522	1-216-821-11	METAL CHIP	1K	5%	1/16W
R523	1-216-821-11	METAL CHIP	1K	5%	1/16W
R524	1-216-821-11	METAL CHIP	1K	5%	1/16W
R525	1-216-845-11	METAL CHIP	100K	5%	1/16W
R526	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R527	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R528	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R529	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R531	1-216-845-11	METAL CHIP	100K	5%	1/16W
R532	1-216-864-11	METAL CHIP	0	5%	1/16W
R533	1-216-845-11	METAL CHIP	100K	5%	1/16W
R534	1-216-845-11	METAL CHIP	100K	5%	1/16W
R535	1-216-845-11	METAL CHIP	100K	5%	1/16W
R536	1-216-864-11	METAL CHIP	0	5%	1/16W
R537	1-216-809-11	METAL CHIP	100	5%	1/16W
R538	1-216-845-11	METAL CHIP	100K	5%	1/16W
R539	1-216-845-11	METAL CHIP	100K	5%	1/16W
R540	1-216-845-11	METAL CHIP	100K	5%	1/16W
R542	1-216-845-11	METAL CHIP	100K	5%	1/16W
R547	1-216-864-11	METAL CHIP	0	5%	1/16W

< COMPOSITION CIRCUIT BLOCK >

RB301	1-233-576-11	RES, CHIP NETWORK 100
RB302	1-233-576-11	RES, CHIP NETWORK 100
RB503	1-233-412-11	RES, CHIP NETWORK 1K (3216)

< THERMISTOR >

TH501	1-810-421-11	THERMISTOR NTH5G36B103K01TE

< VIBRATOR >

X501	1-760-365-11	VIBRATOR, CERAMIC (10MHz)

****

*	1-677-865-11	SUB BOARD
		**********

< CONNECTOR >

CN751	1-794-064-11	SOCKET, CONNECTOR 14P
CN752	1-770-736-21	SOCKET, CONNECTOR 14P

< LED >

LED751	8-719-077-75	LED BR1101F-TR (MD DISC SLOT) (C8500X)
LED751	8-719-077-78	LED BG1101F-TR (MD DISC SLOT) (C8500R)

< SWITCH >

LSW751	1-771-609-11	SWITCH, TACTILE (WITH LED) (⏏) (C8500R)
LSW751	1-771-883-11	SWITCH, TACTILE (WITH LED) (⏏) (C8500X)

< TRANSISTOR >

Q751	8-729-421-22	TRANSISTOR UN2211-TX
Q752	8-729-903-46	TRANSISTOR 2SB1132-T100-QR

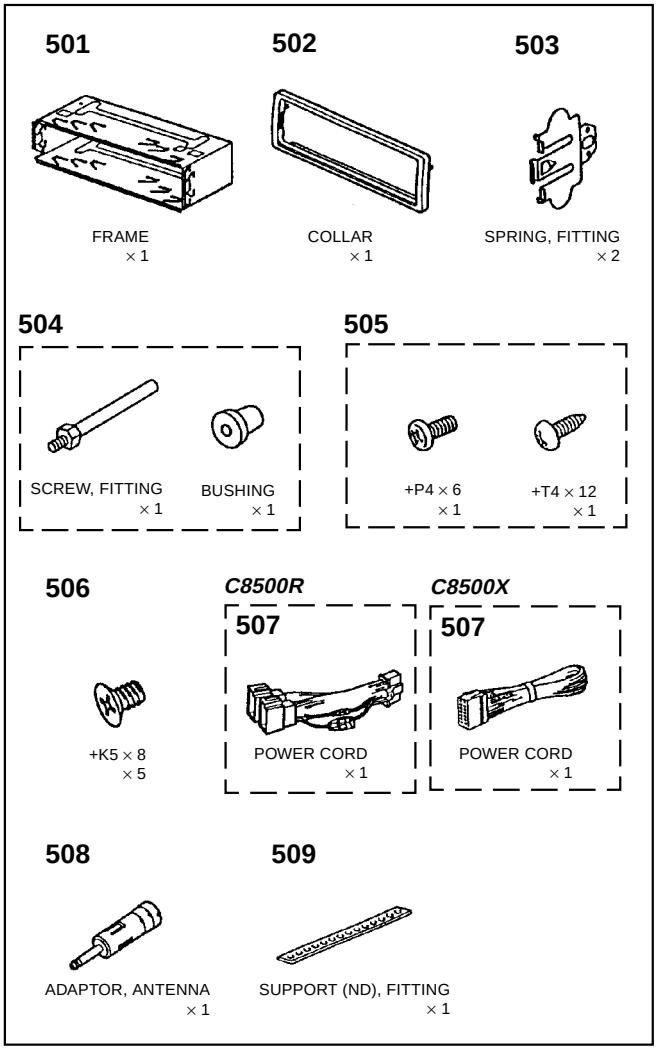
< RESISTOR >

R751	1-216-025-00	RES, CHIP	100	5%	1/10W
R752	1-216-049-11	RES, CHIP	1K	5%	1/10W
R753	1-216-049-11	RES, CHIP	1K	5%	1/10W

SUB

Ref. No.	Part No.	Description			Remark
R754	1-216-186-00	RES, CHIP	330	5%	1/8W (C8500R)
R754	1-216-194-00	METAL CHIP	680	5%	1/8W (C8500X)
		MISCELLANEOUS			
		**********			
17	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER)			(C8500R)
17	1-792-194-11	CORD (WITH CONNECTOR) (POWER)			(C8500X)
23	1-792-602-11	CORD (WITH CONNECTOR) (SUB OUT)			
60	1-694-660-11	CONDUCTIVE BOARD, CONNECTION			
153	1-654-693-11	SENSOR FLEXIBLE BOARD			
⚠165	8-583-065-03	OPTICAL PICK-UP KMS-241C/J1RP			
F1	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A)			
LCD901	1-803-915-11	DISPLAY PANEL, LIQUID CRYSTAL (C8500R)			
LCD901	1-803-915-21	DISPLAY PANEL, LIQUID CRYSTAL (C8500X)			
M901	A-3301-407-A	MOTOR ASSY, SP (SPINDLE)			
M902	A-3291-190-A	MOTOR ASSY, SL (SLED)			
M903	A-3291-191-A	MOTOR ASSY, LO (LOADING)			
		**********			
		HARDWARE LIST			
		**********			
#1	7-621-772-20	SCREW +B 2X5			
#2	7-685-795-09	SCREW +PTT 2.6X12 (S)			
#3	7-685-794-09	SCREW +PTT 2.6X10 (S)			
#4	7-685-792-09	SCREW +PTT 2.6X6 (S)			
#5	7-685-851-04	SCREW +BVTT 2X4 (S)			
#6	7-624-102-04	STOP RING 1.5, TYPE -E			
#7	7-627-852-37	PRECISION SCREW +P 1.7X1.8 TYPE3			
#8	7-621-772-08	SCREW +B 2X3			
#9	7-621-555-10	SCREW +K 2X3			
#10	7-685-793-09	SCREW +PTT 2.6X8 (S)			
#12	7-627-553-28	SCREW, PRECISION +P 2X2.5			
#13	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT			
		ACCESSORIESE & PACKING MATERIALS			
		**********			
	1-418-812-11	REMOTE COMMANDER (RM-X91) (C8500X)			
	3-044-623-01	LID, BATTERY CASE (for RM-X91) (C8500X)			
	3-045-190-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (US)			
	3-045-191-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE, RUSSIAN) (AEP, UK)			
	3-045-191-21	MANUAL, INSTRUCTION (FRENCH, GERMAN, DUTCH, ITALIAN, GREEK) (AEP)			
	3-045-191-31	MANUAL, INSTRUCTION (GERMAN) (German)			
	3-045-193-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, SPANISH) (US)			
	3-045-194-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, SWEDISH, PORTUGUESE, RUSSIAN) (AEP, UK)			
	3-045-194-21	MANUAL, INSTRUCTION, INSTALL (FRENCH, GERMAN, DUTCH, ITALIAN, GREEK) (Greman, AEP)			
	X-3378-490-1	CASE (PANEL) ASSY			

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTION	
		**********	
501	3-012-360-31	FRAME	
502	3-040-979-01	COLLAR	
503	3-233-644-01	SPRING, FITTING	
504	X-3366-405-1	SCREW ASSY (EXP), FITTING (C8500R)	
505	X-3368-725-1	SCREW ASSY, FITTING (C8500X)	
506	X-3371-913-1	SCREW ASSY (J) (C8500R)	
507	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER)	(C8500R)
507	1-792-194-11	CORD (WITH CONNECTOR) (POWER)	(C8500X)
508	1-465-459-21	ADAPTOR, ANTENNA (C8500R)	
509	3-924-961-01	SUPPORT (ND), FITTING (C8500X)	



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

MDX-C8500R/C8500X

SONY

SERVICE MANUAL

US Model
MDX-C8500X
AEP Model
UK Model
MDX-C8500R

SUPPLEMENT-1

File this supplement with the service manual.

Subject:
1. Correction
2. Board Modification

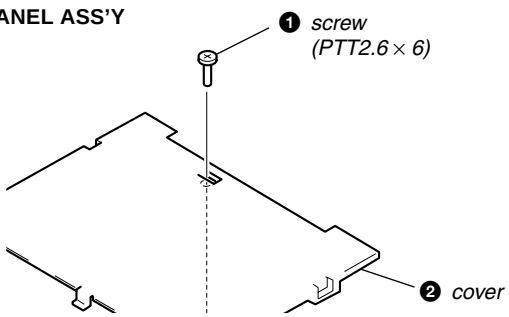
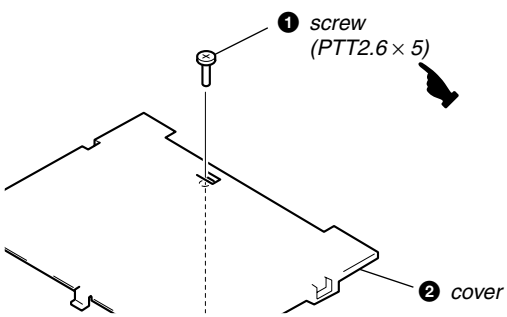
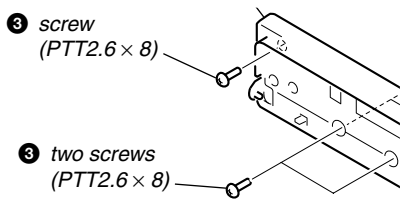
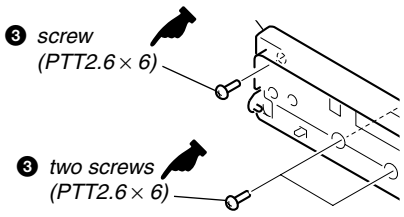
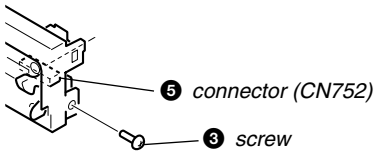
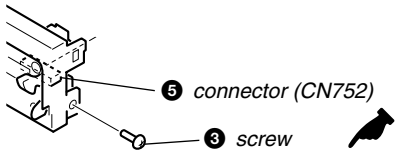
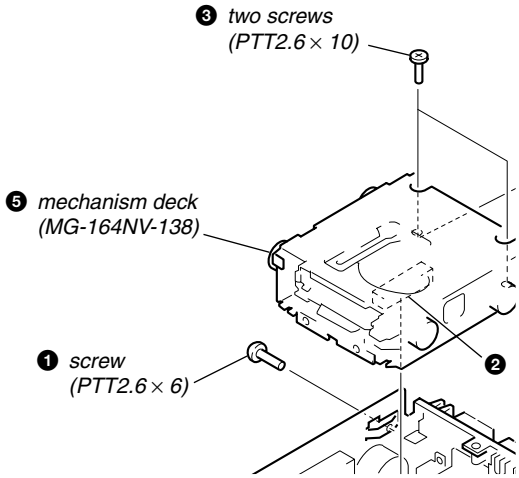
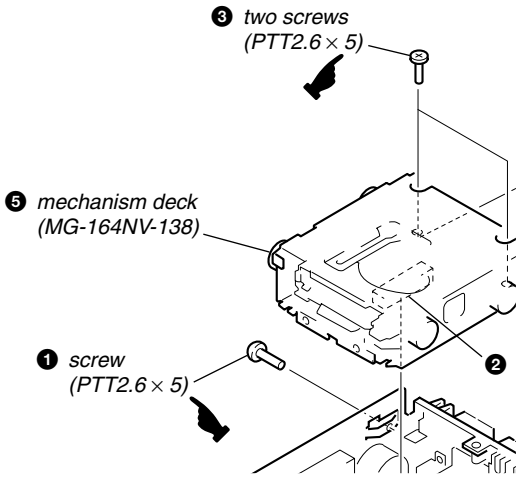
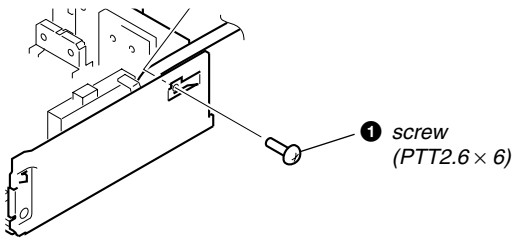
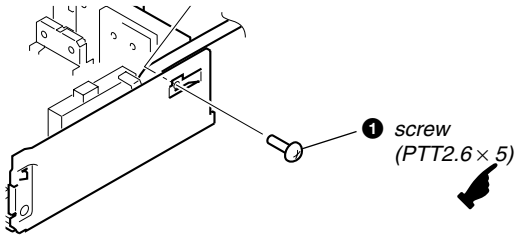
(ECN-CSA02398/CSA02816/CSA02817)

TABLE OF CONTENTS

1. CORRECTION

• DISASSEMBLY

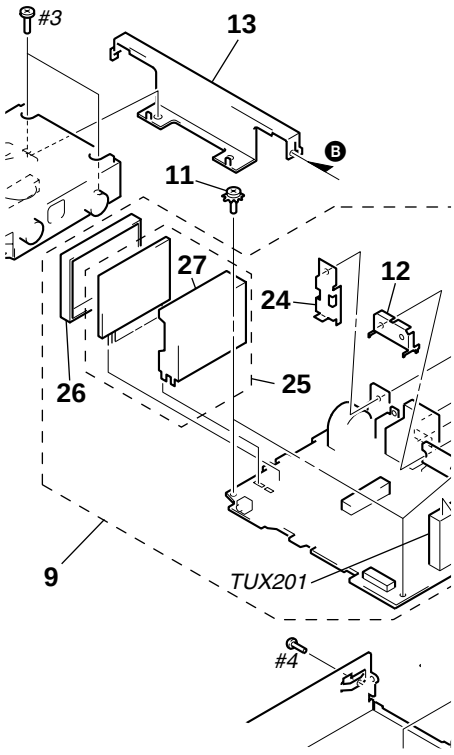
☛ : Indicates corrected portion.

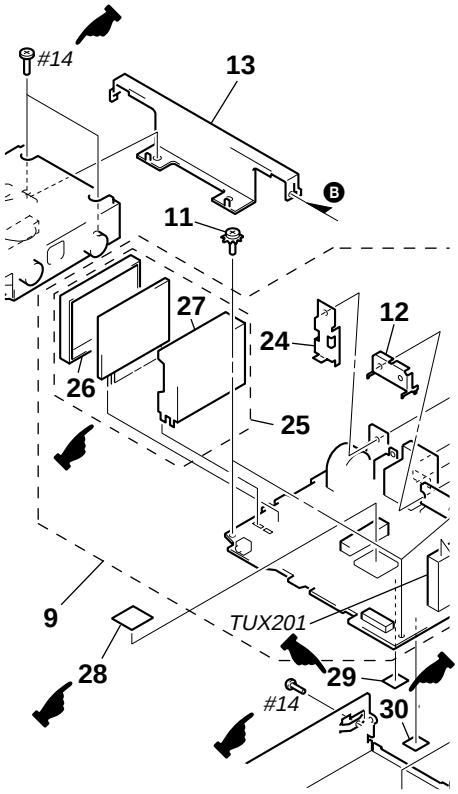
Page	INCORRECT	CORRECT
	SUB PANEL ASS'Y 	
	SUB PANEL ASS'Y 	
	SUB PANEL ASS'Y 	
11	**MECHANISM DECK (MG-164NV-138)** 	
	MECHANISM DECK (MG-164NV-138) 	

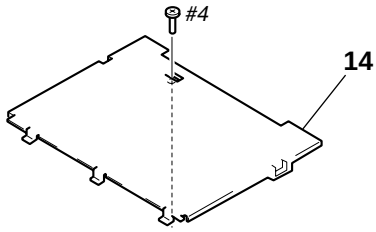
• **EXPLODED VIEWS**

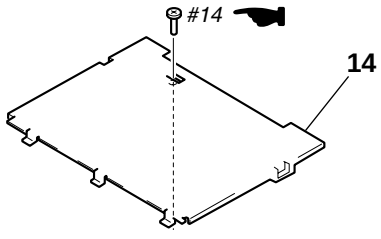
☛ **: Indicates corrected portion.**

Page	INCORRECT				CORRECT			
	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
59	* 15	3-040-996-01	HEAT SINK (2P)		* 15	3-040-996-32	HEAT SINK (2P) (C8500R)	
					* 15	3-040-996-72	HEAT SINK (2P) (C8500X)	
	23	1-792-602-11	CORD (WITH CONNECTOR) (SUB OUT)		23	1-790-355-52	CORD (WITH CONNECTOR) (RCA)	(SUB OUT)
					* 28	3-049-439-02	SHEET (IC), RADIATION	
					* 29	3-049-650-01	SHEET (TR), RADIATION (C8500R)	
					* 30	3-049-651-01	SHEET (B), RADIATION (C8500R)	









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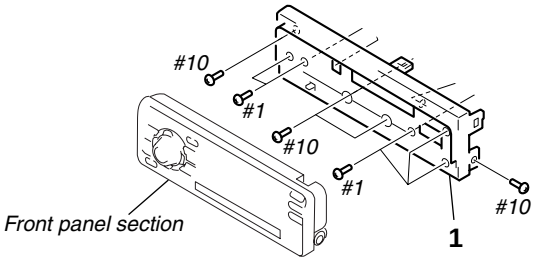
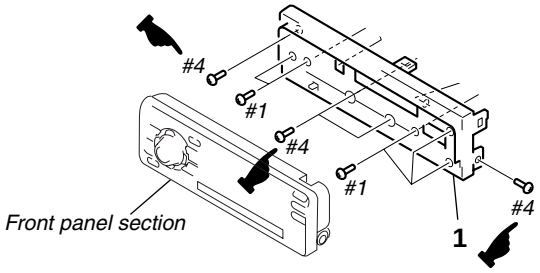
<tr><td rowspan="2">59</td><td> 
</td><td> 
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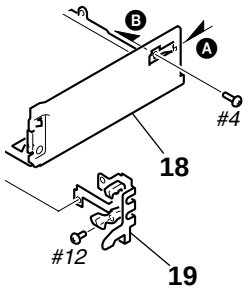
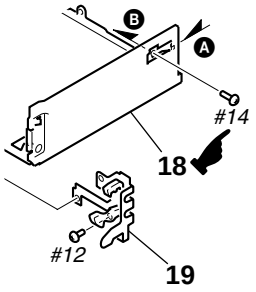
<tr><td> 
</td><td> 
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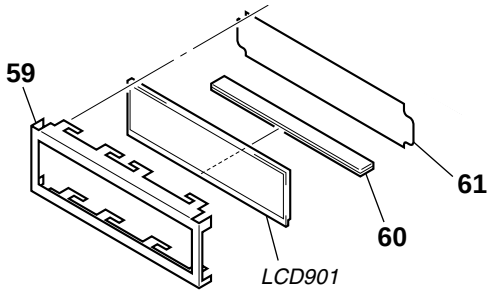
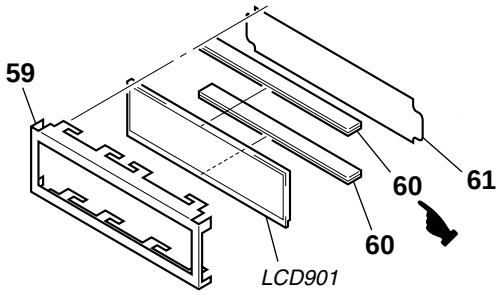
65 3-935-151-01 SPRING (OPEN)</td><td>Ref. No. Part No. Description Remark
65 3-037-267-01 SPRING (OPEN)</td></tr>
<tr><td> 
</td><td> 
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• **ELECTRICAL PARTS LIST**

☛ **: Indicates corrected portion.**

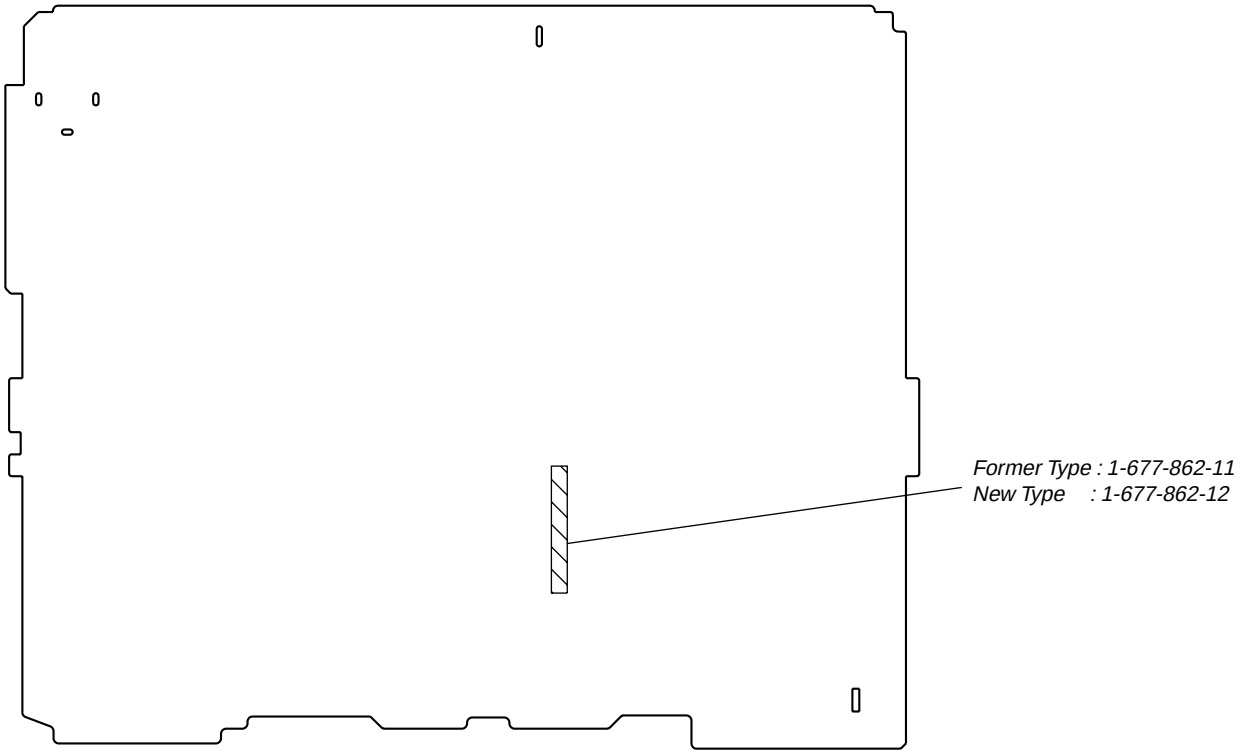
Page	INCORRECT				CORRECT			
	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
63					*	3-045-994-01	COVER (DSP), SHIELD	
66	*	3-040-996-01	HEAT SINK (2P)		*	3-040-996-32	HEAT SINK (2P) (C8500R)	
					*	3-040-996-72	HEAT SINK (2P) (C8500X)	
	*	3-045-994-01	COVER (DSP), SHIELD					
76			MISCELLANEOUS ********** CORD (WITH CONNECTOR) (SUB OUT)				MISCELLANEOUS ********** CORD (WITH CONNECTOR) (RCA) (SUB OUT)	
			**********				**********	
			HARD WARE LIST **********				HARD WARE LIST **********	
	#2	7-685-795-09	SCREW+PTT2.6×12 (S)		#2	7-685-793-09	SCREW+PTT2.6×8 (S)	
	#10	7-685-793-09	SCREW+PTT2.6×8 (S)		#10	7-685-795-09	SCREW+PTT2.6×12 (S)	
					#14	7-685-791-09	SCREW+PTT2.6×5 (S)	
			ACCESSORIES & PACKING MATERIALS **********				ACCESSORIES & PACKING MATERIALS **********	
		3-045-191-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE, RUSSIAN) (AEP, UK)			3-045-187-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE, RUSSIAN) (AEP, UK)	
		3-045-191-21	MANUAL, INSTRUCTION (FRENCH, GERMAN, DUTCH, ITALIAN, GREEK) (AEP)			3-045-187-21	MANUAL, INSTRUCTION (FRENCH, GERMAN, DUTCH, ITALIAN, GREEK) (AEP)	
		3-045-191-31	MANUAL, INSTRUCTION (GERMAN) (German)			3-045-187-31	MANUAL, INSTRUCTION (GERMAN) (German)	
		3-045-194-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, SWEDISH, PORTUGUESE, RUSSIAN) (AEP, UK)			3-045-198-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, SWEDISH, PORTUGUESE, RUSSIAN) (AEP, UK)	
		3-045-194-21	MANUAL, INSTRUCTION, INSTALL (FRENCH, GERMAN, DUTCH, ITALIAN, GREEK) (Greman, AEP)			3-045-198-21	MANUAL, INSTRUCTION, INSTALL (FRENCH, GERMAN, DUTCH, ITALIAN, GREEK) (German, AEP)	
			PARTS FOR INSTALLATION AND CONNECTION **********				PARTS FOR INSTALLATION AND CONNECTION **********	
	501	3-012-360-31	FRAME		501	X-3373-602-1	FRAME ASSY	
	506	X-3371-913-1	SCREW ASSY (J) (C8500R)		506	3-934-325-01	SCREW +K (5×8) TAPPING	

2. BOARD MODIFICATION

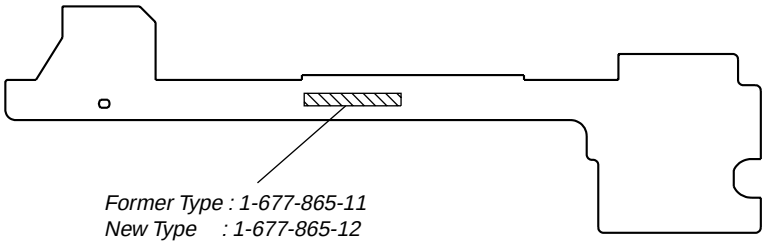
In this set, MAIN, DSO, SUB and KEY boards have been changed in the midway of production.
This supplement contains only a difference portion.

2-1. New/Former Type Discrimination

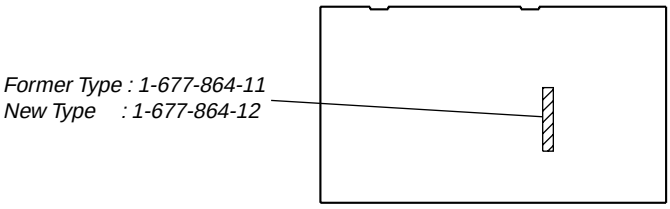
– MAIN BOARD (Component Side) –



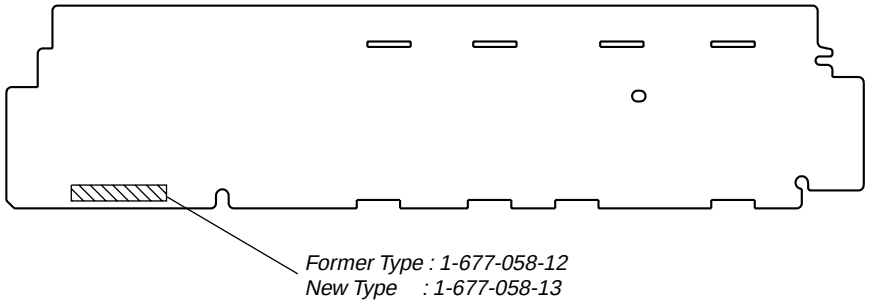
– SUB BOARD (Component Side) –



– DSO BOARD (Component Side) –



– KEY BOARD (Conductor Side) –

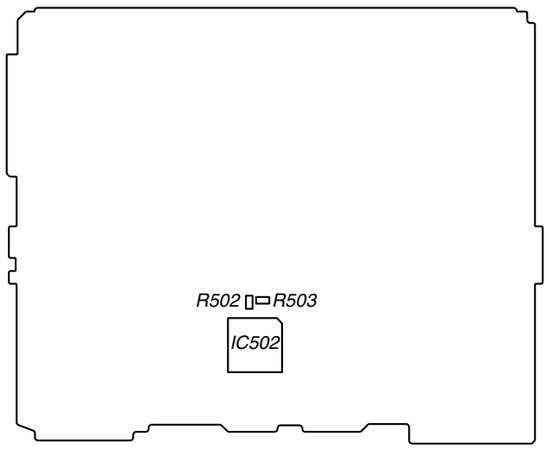


2-2. SERVICING NOTES

• Model Identification

There are three types of main board in according of destination for MDX-C8500R.

– MAIN BOARD (Component Side)

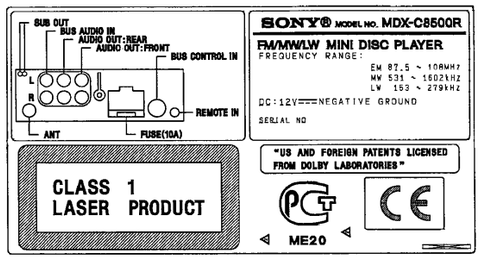


	R502	R503
TYPE A	○	×
TYPE B	×	○
TYPE C	○	○

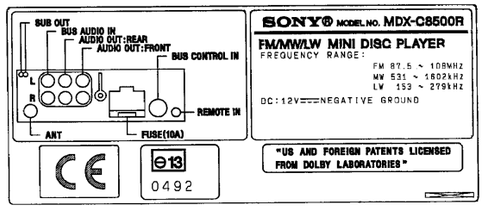
Type A, B and C can be identified by its model number label at the buttom of the set.

– SPECIFICATION LABEL –

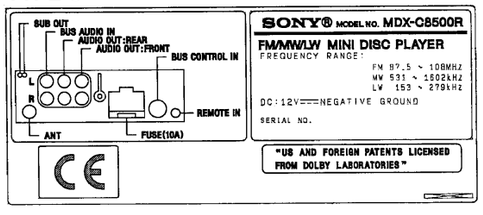
TYPE A



TYPE B



TYPE C



2-3. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:

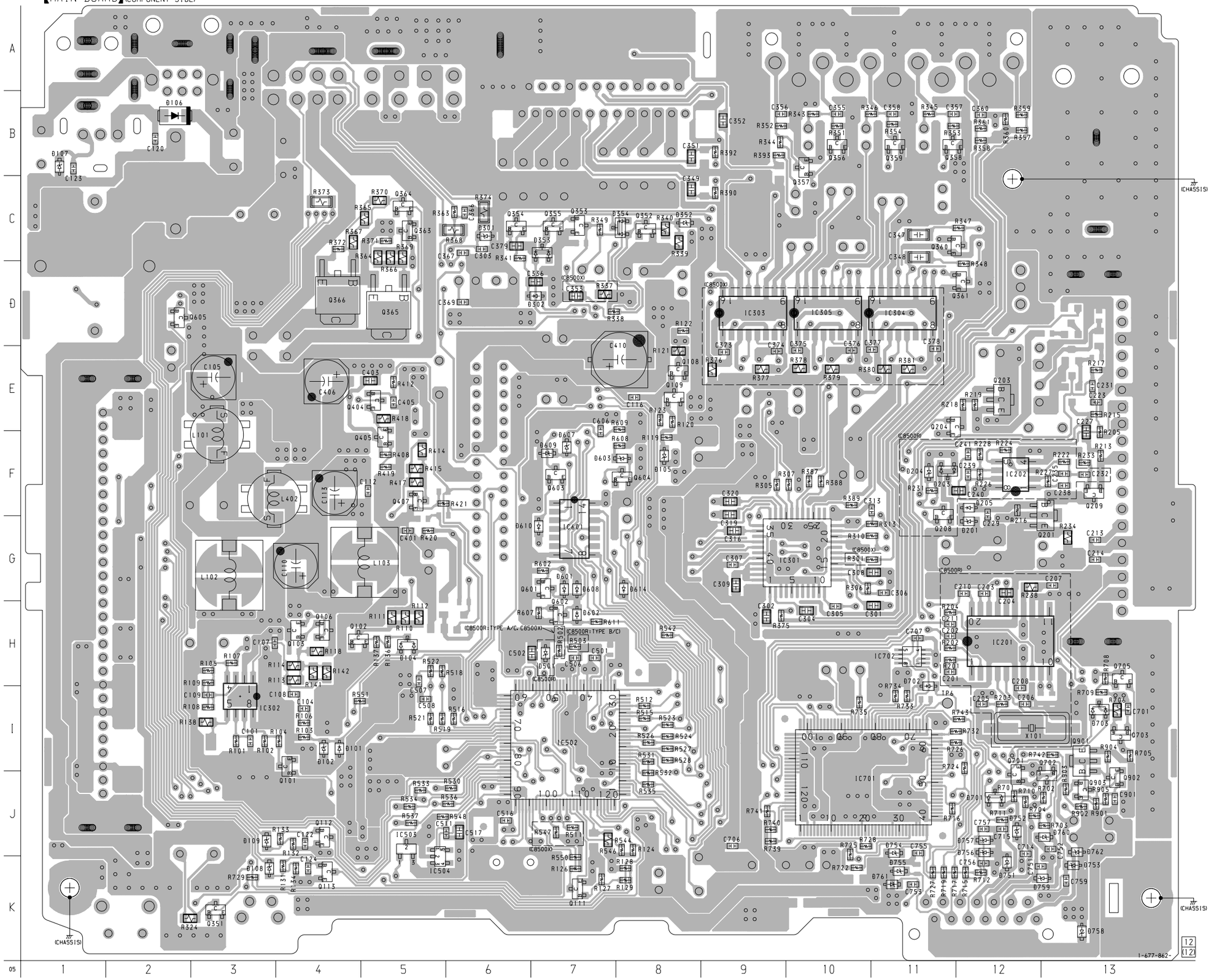
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM(MW/LW)
  [ ] : LW
  ⟨⟨ ⟩⟩ : MD PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM(MW/LW)
  ⇨ : BUS AUDIO IN
  Σ : MD PLAY
- Please refer to servicing notes for system of TYPE A, B and C.

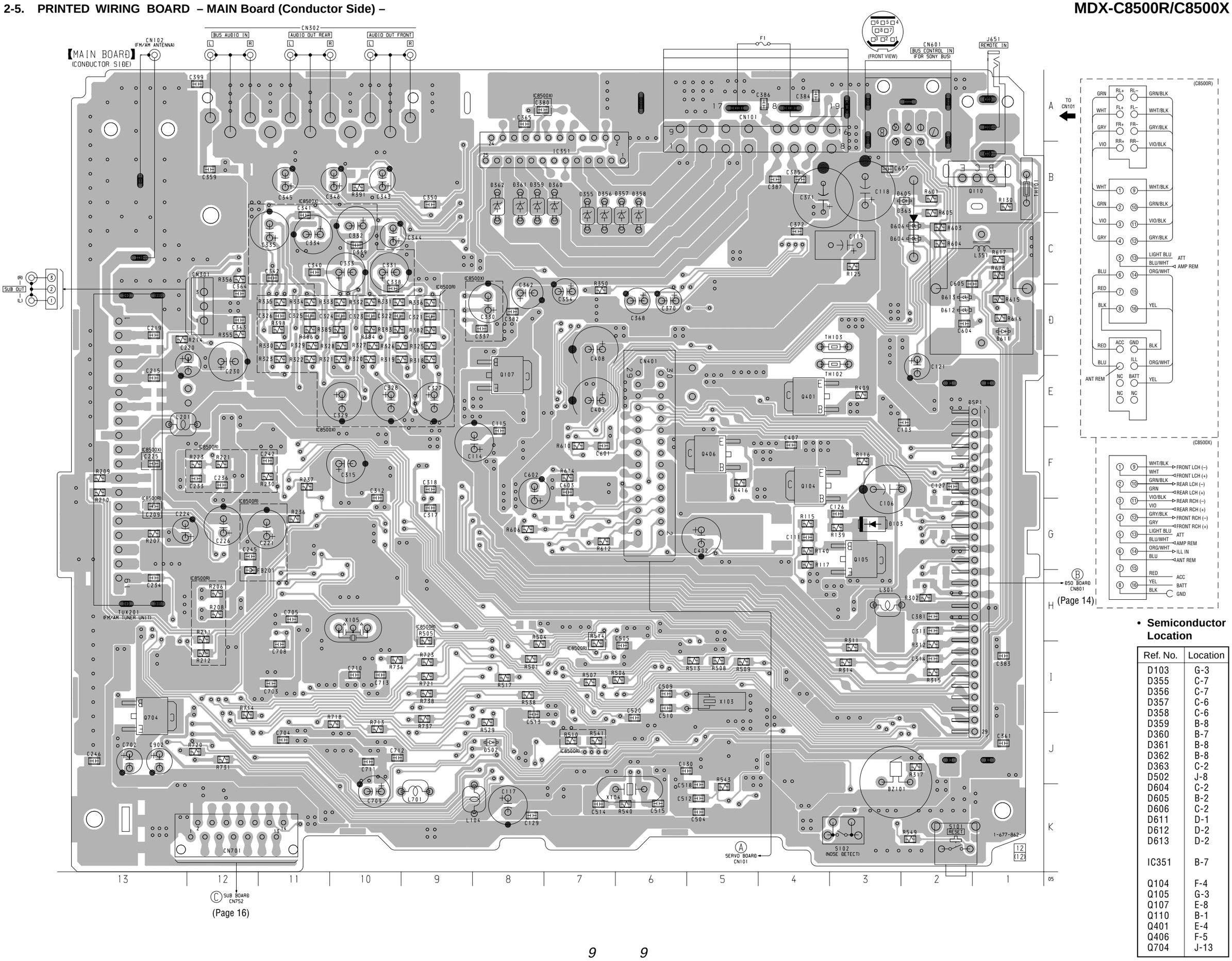
2-4. PRINTED WIRING BOARD – MAIN Board (Component Side) –

【MAIN BOARD】(COMPONENT SIDE)



- **Semiconductor Location**

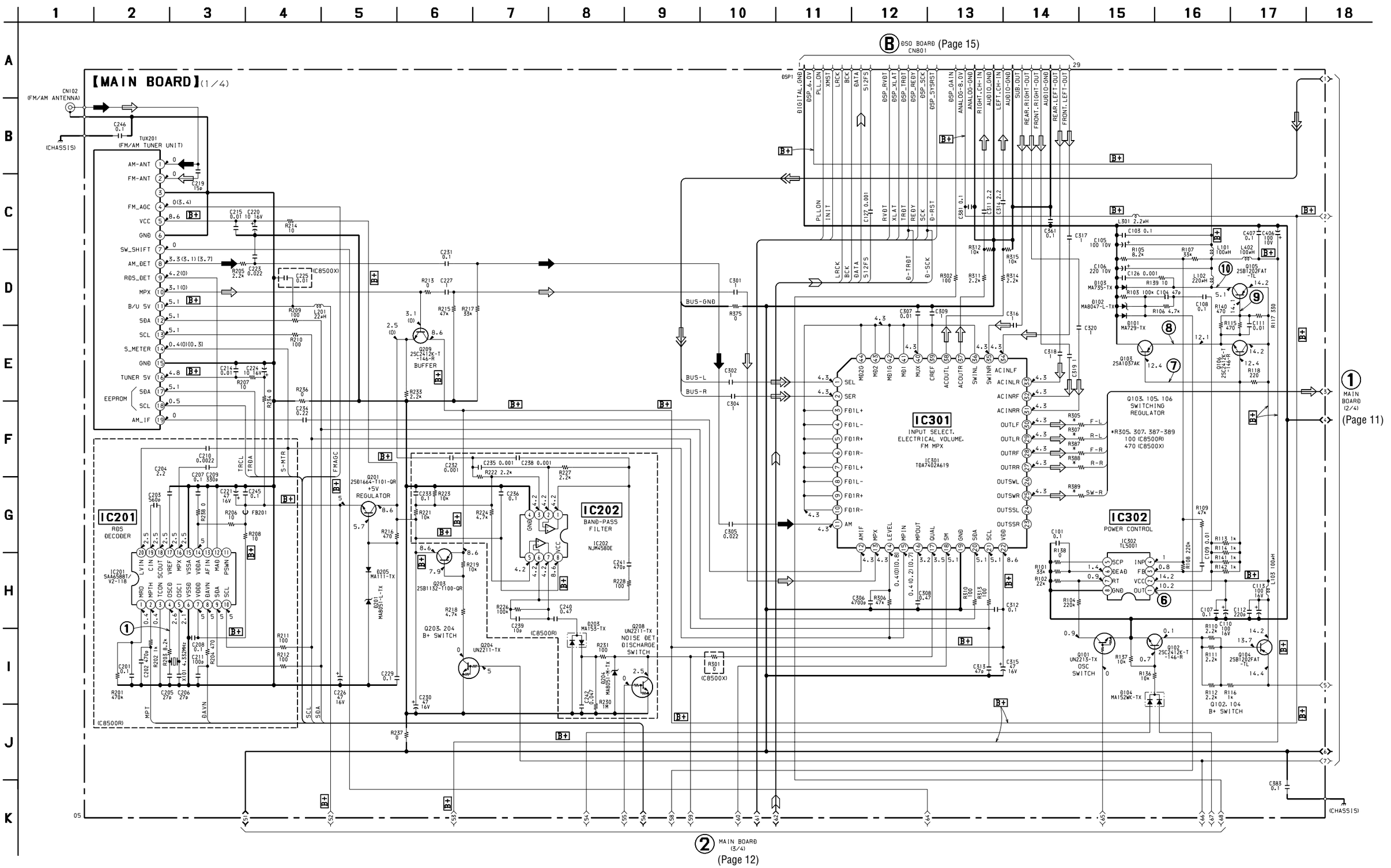
Ref. No.	Location	Ref. No.	Location
D101	I-4	IC503	J-5
D102	I-4	IC504	K-5
D104	H-5	IC601	G-7
D105	F-8	IC701	J-10
D106	B-2	IC702	H-11
D107	B-1		
D108	K-3	Q101	I-4
D109	J-3	Q102	H-4
D201	G-12	Q103	H-4
D203	F-11	Q106	H-4
D204	F-11	Q108	E-8
D205	F-12	Q109	E-8
D301	C-6	Q111	K-7
D302	D-7	Q112	J-4
D352	C-8	Q113	K-4
D353	C-7	Q201	G-13
D354	C-8	Q203	E-12
D501	H-11	Q204	E-11
D601	G-7	Q208	F-11
D602	H-7	Q209	F-13
D603	F-8	Q351	K-3
D607	F-7	Q352	C-8
D608	G-7	Q353	C-7
D609	F-7	Q354	C-6
D610	G-7	Q355	C-7
D614	G-8	Q356	B-10
D701	J-12	Q357	B-10
D702	I-11	Q358	B-11
D703	I-13	Q359	B-11
D751	K-12	Q360	C-11
D752	J-12	Q361	D-12
D753	K-13	Q363	C-5
D754	J-11	Q364	C-5
D755	K-11	Q365	D-5
D756	J-12	Q366	D-4
D757	J-12	Q404	E-5
D758	K-13	Q405	F-5
D759	K-13	Q407	F-5
D760	J-13	Q601	G-7
D761	K-11	Q602	H-7
D762	J-13	Q603	F-7
		Q604	F-8
IC201	H-12	Q605	D-2
IC202	F-12	Q701	J-12
IC301	G-10	Q702	J-13
IC302	I-3	Q703	I-13
IC303	D-9	Q705	H-13
IC304	D-11	Q901	I-13
IC305	D-10	Q902	J-13
IC502	I-7	Q903	J-13



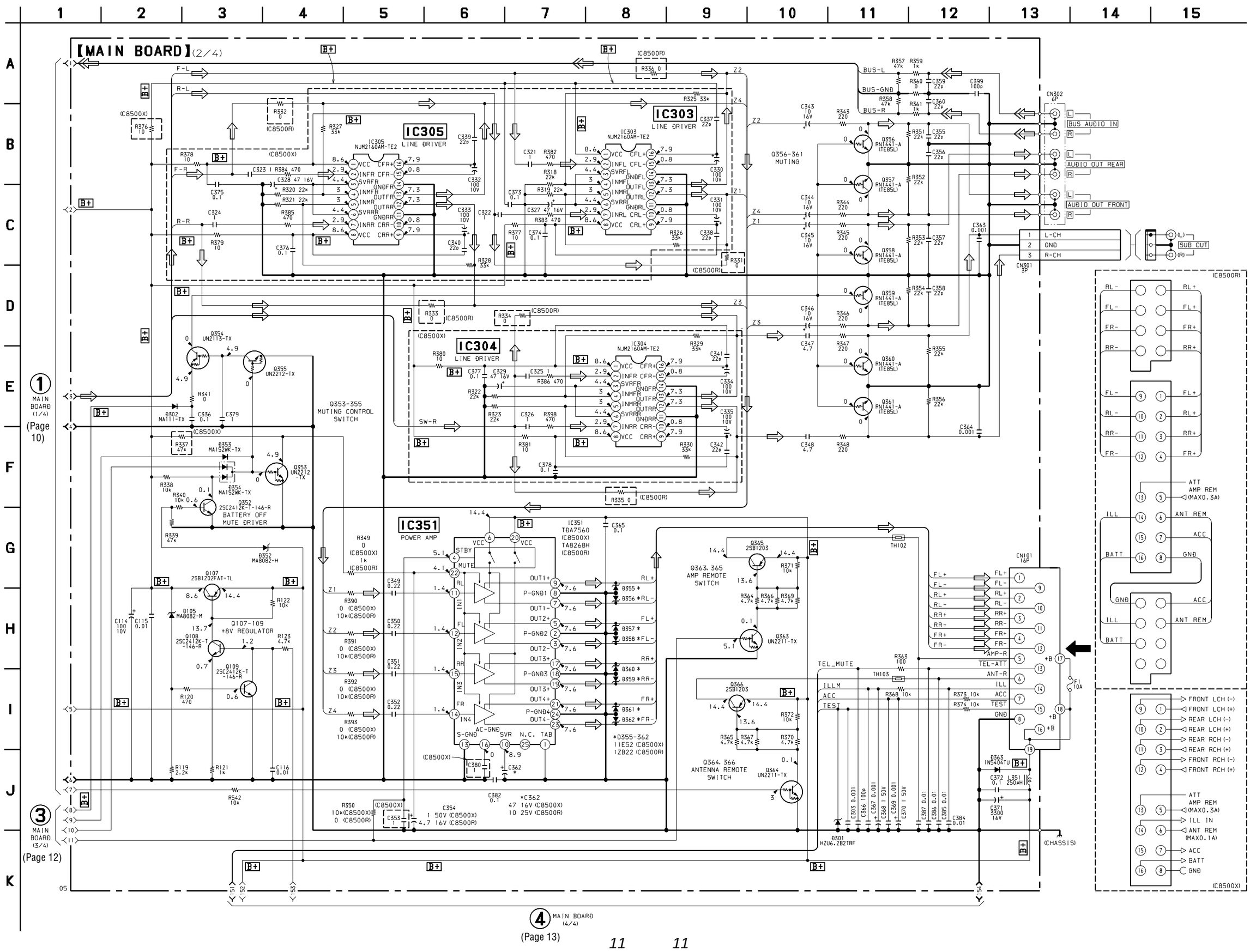
- **Semiconductor Location**

Ref. No.	Location
D103	G-3
D355	C-7
D356	C-7
D357	C-6
D358	C-6
D359	B-8
D360	B-7
D361	B-8
D362	B-8
D363	C-2
D502	J-8
D604	C-2
D605	B-2
D606	C-2
D611	D-1
D612	D-2
D613	D-2
IC351	B-7
Q104	F-4
Q105	G-3
Q107	E-8
Q110	B-1
Q401	E-4
Q406	F-5
Q704	J-13

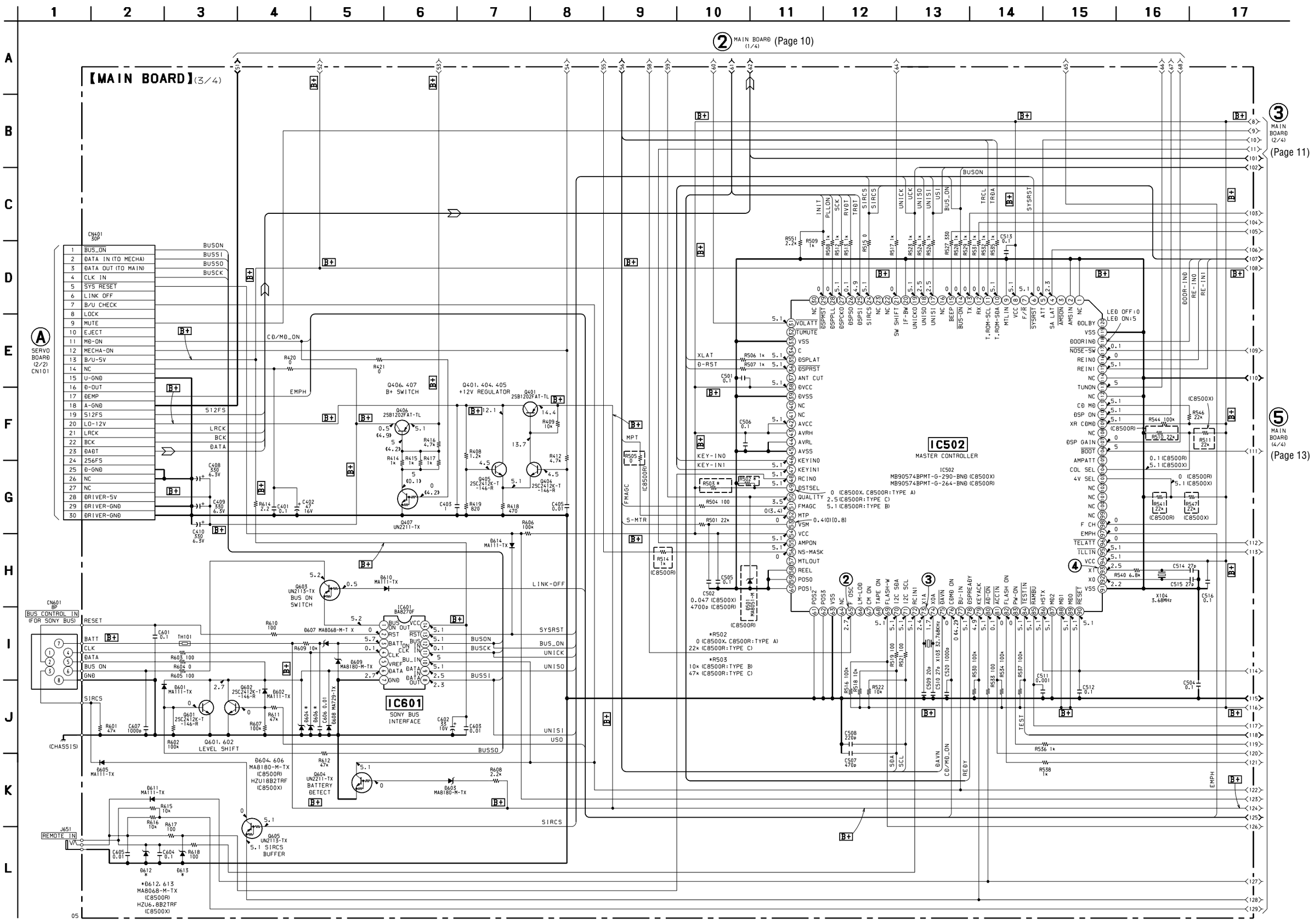
2-6. SCHEMATIC DIAGRAM – MAIN Board (1/4) –



2-7. SCHEMATIC DIAGRAM – MAIN Board (2/4) –



2-8. SCHEMATIC DIAGRAM – MAIN Board (3/4) –



2-9. SCHEMATIC DIAGRAM – MAIN Board (4/4) –

【MAIN BOARD】(4/4)

IC701
LIQUID CRYSTAL DISPLAY DRIVE CONTROLLER
IC701
HD643255A25F

IC702
LEVEL SHIFT
IC702
TC7W14FU

IC503
RESET SIGNAL GENERATOR
IC503
XC61AN4102MR

IC504
RAM RESET
IC504
RN5V035AA-TL

Q110
+5V REGULATOR

Q111
LEVEL SHIFT

Q112
ACCESSORY CHECK

Q113
ILLUMINATION LINE DETECT
2SC2412K-T1-146-R

Q701, 702
KEY ACTIVE SWITCH

Q703-705
REGULATOR

Q901-903
REGULATOR

S102
(NOSE DETECT)

S101
RESET

X105
18.452MHz

TP6

CN701
14P

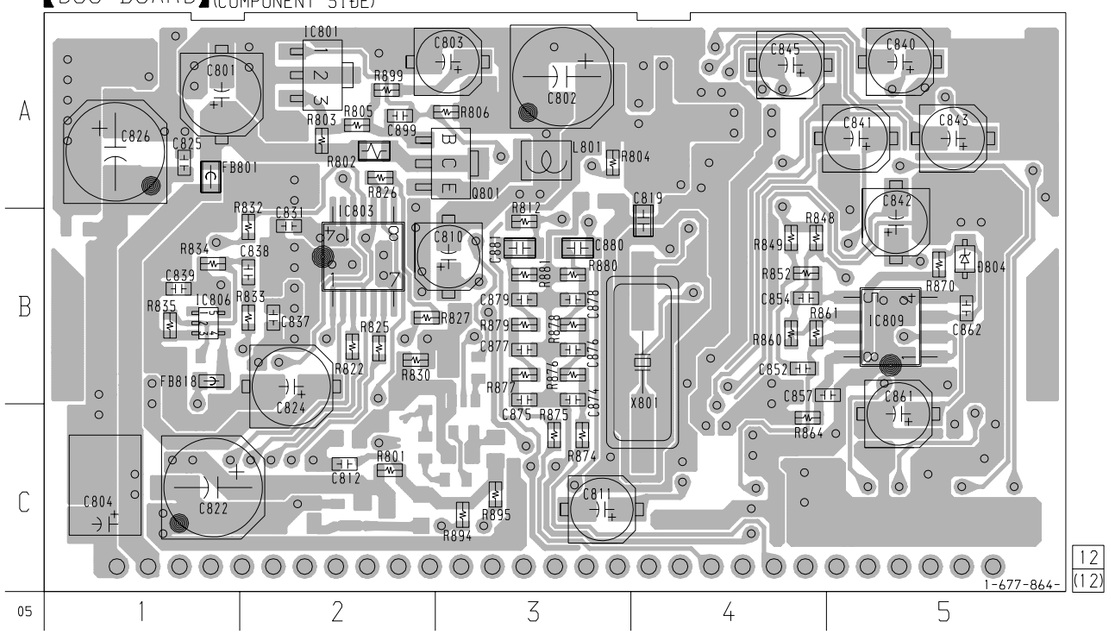
14	DOOR-SW
13	LCD+B
12	SIRCS
11	LCD-CLK
10	LCD-CE
9	LCD-DATA
8	KEY-0
7	KEY-1
6	RE-0
5	RE-1
4	LCD-INH
3	DOOR-IND
2	GND
1	GND

(CHASSIS)

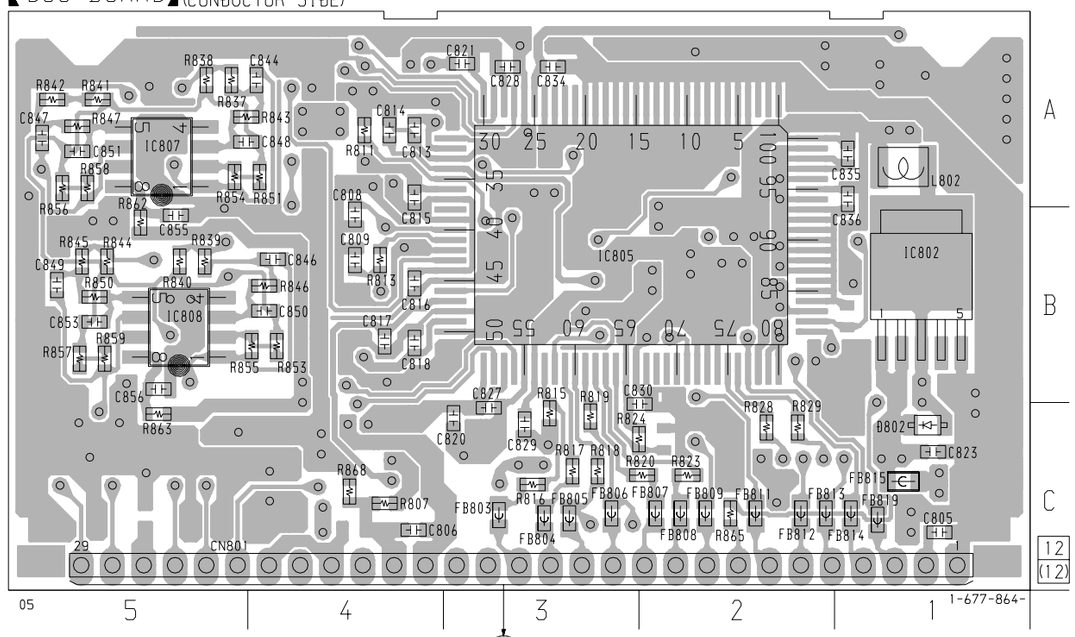
④ MAIN BOARD (2/4) (Page 11)
⑤ MAIN BOARD (3/4) (Page 12)
Ⓒ SUB BOARD CN752 (Page 17)

2-10. PRINTED WIRING BOARD – DSO Board –

【ĐSO BOARĐ】(COMPONENT SIĐE)



【ĐSO BOARĐ】(CONĐUCTOR SIĐE)



(Page 9)

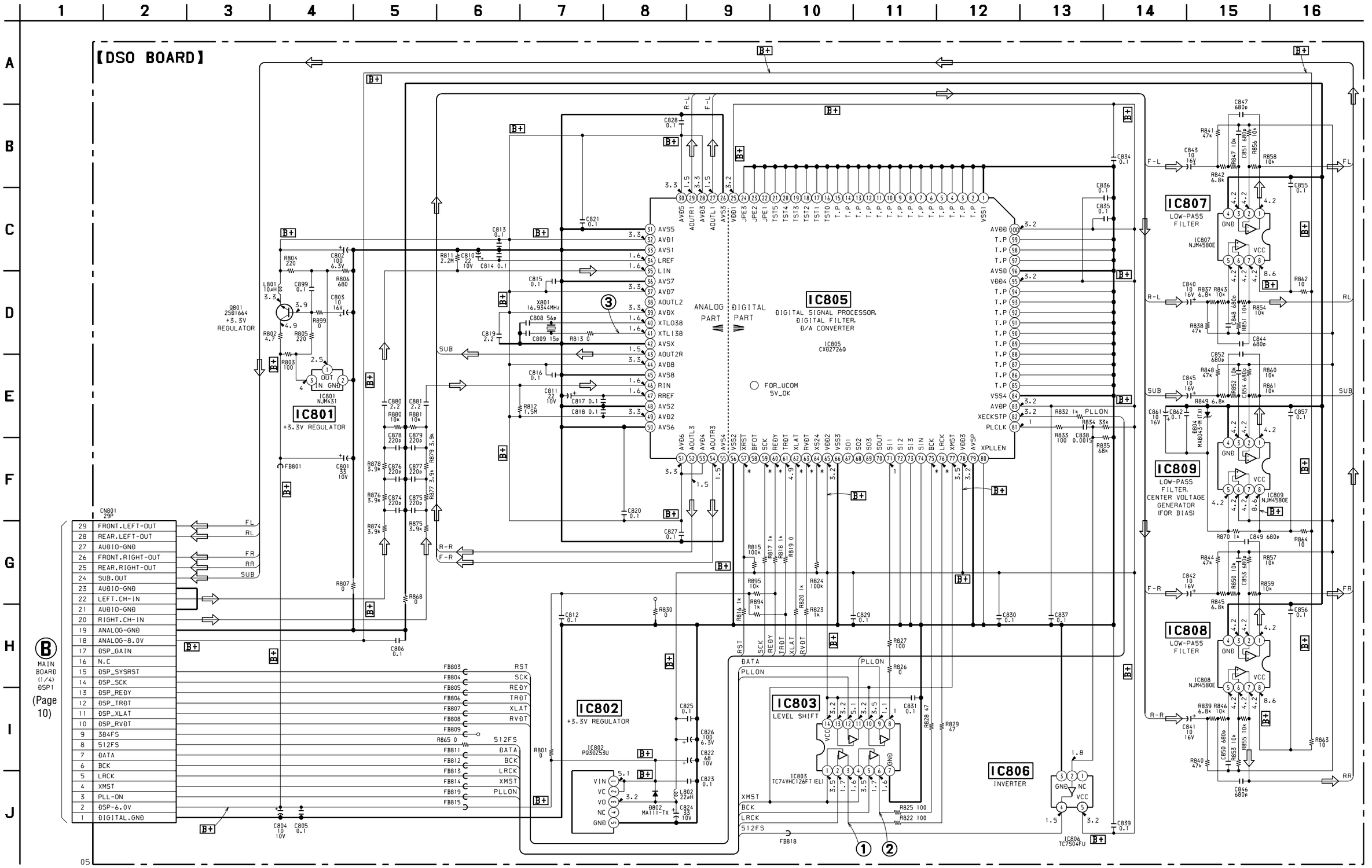
- **Semiconductor Location**

Ref. No.	Location
D804	B-5
IC801	A-2
IC803	B-3
IC806	B-1
IC809	B-5
Q801	A-3

- **Semiconductor Location**

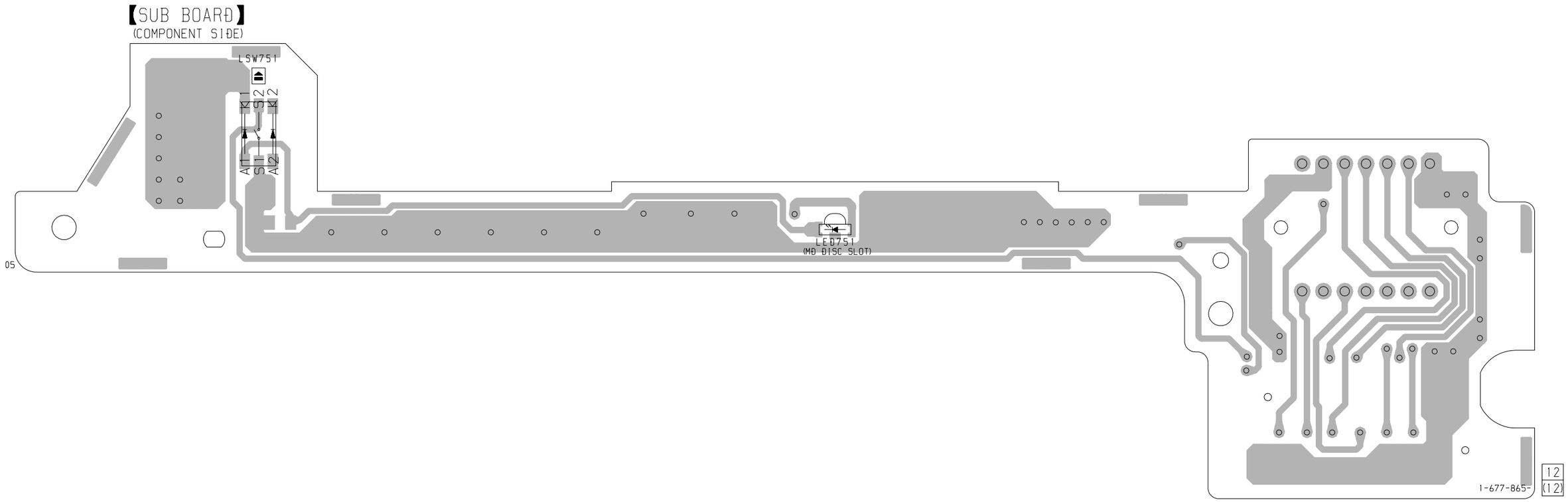
Ref. No.	Location
D802	C-1
IC802	B-1
IC805	B-3
IC807	A-5
IC808	B-5

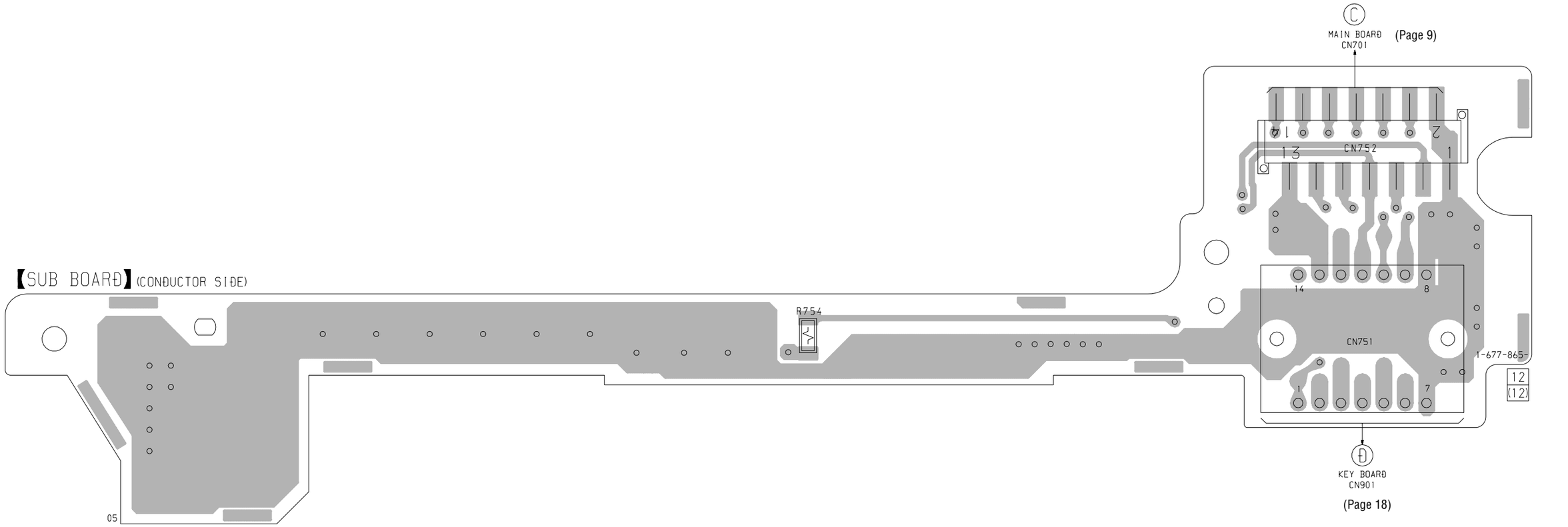
2-11. SCHEMATIC DIAGRAM – DSO Board –



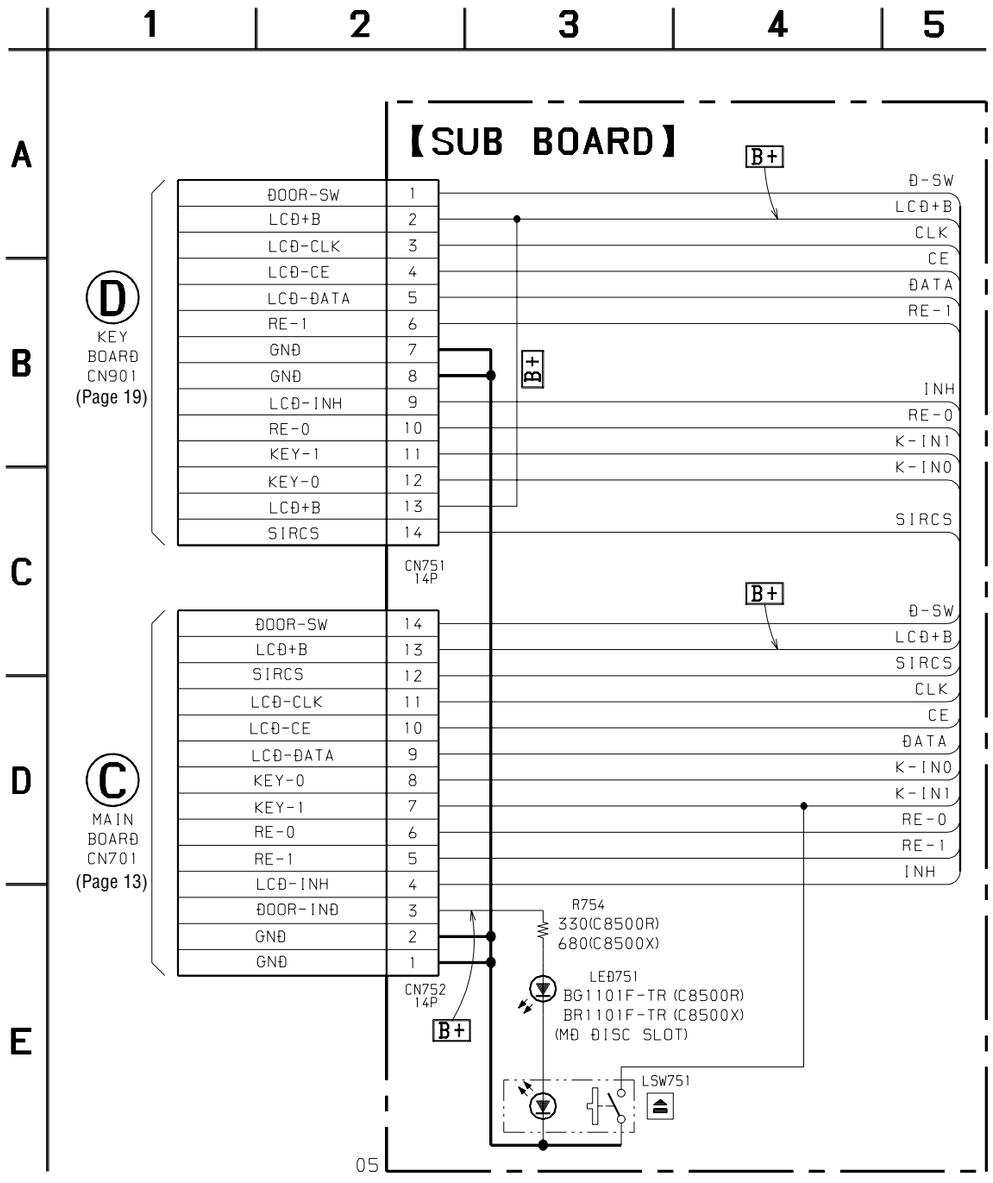
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : MD PLAY
  ∗ : Impossible to measure

2-12. PRINTED WIRING BOARD – SUB Board –





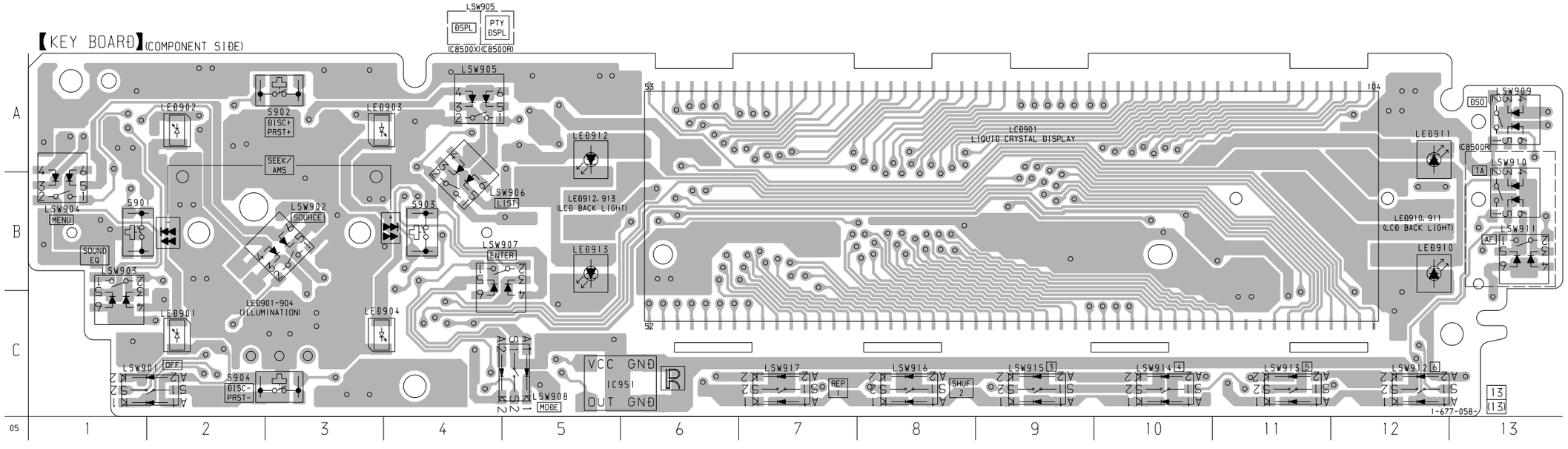
2-13. SCHEMATIC DIAGRAM – SUB Board –



2-14. PRINTED WIRING BOARD – KEY Board –

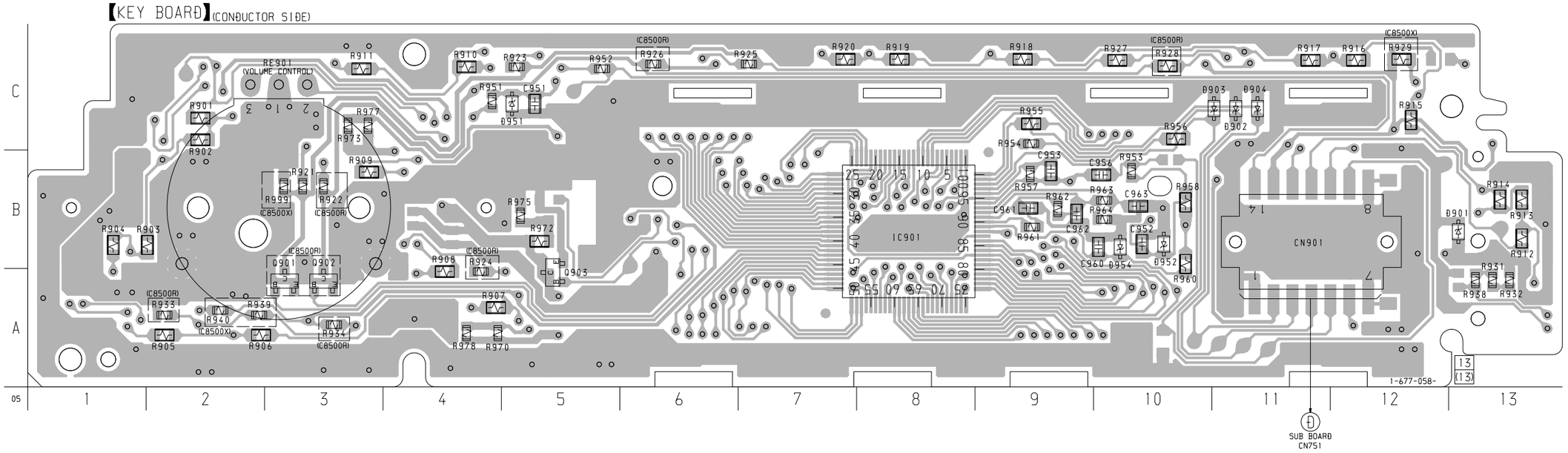
- **Semiconductor Location**

Ref. No.	Location
IC951	C-6
LED901	C-2
LED902	A-2
LED903	A-3
LED904	C-3
LED910	B-12
LED911	A-12
LED912	A-5
LED913	B-5



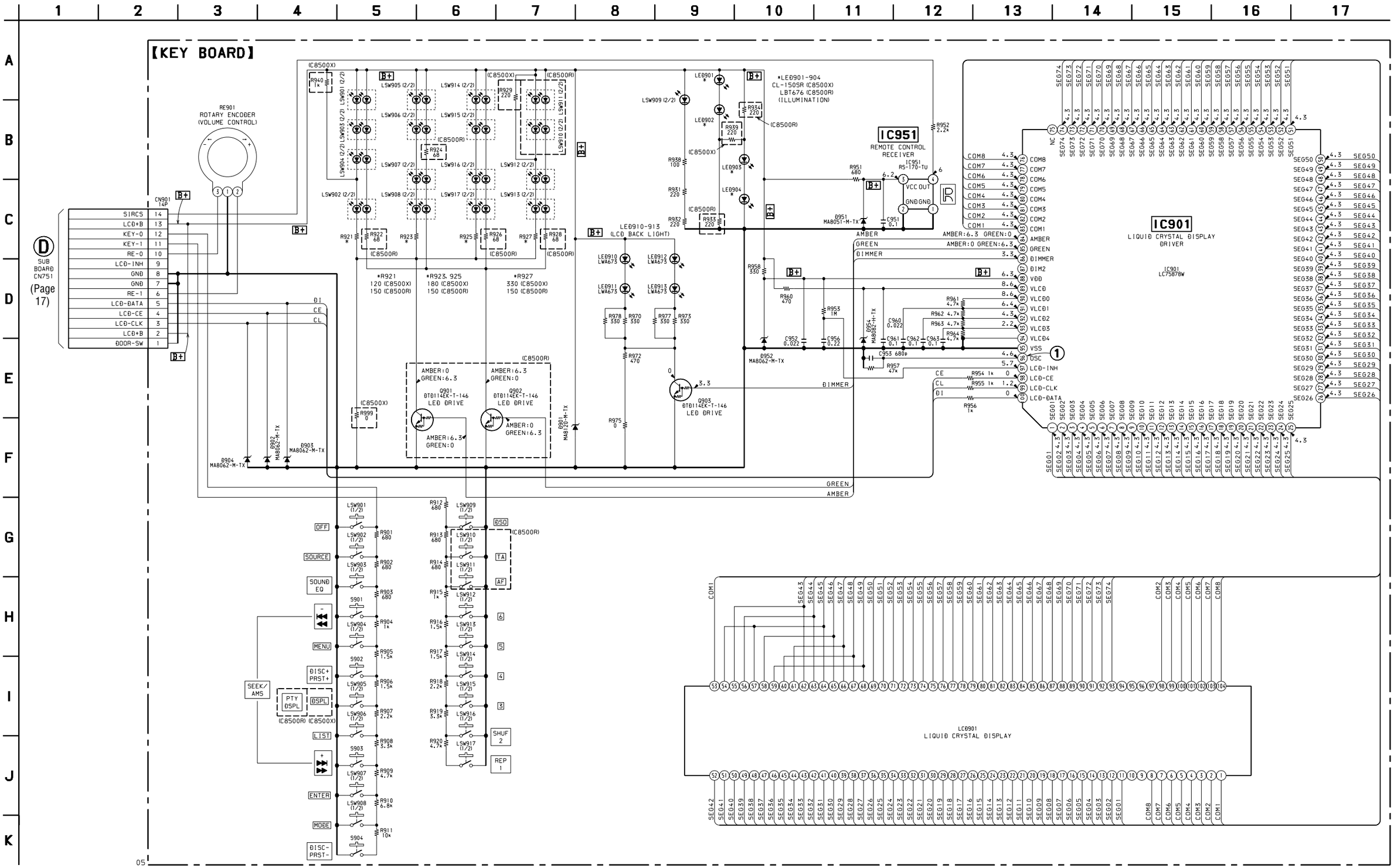
- **Semiconductor Location**

Ref. No.	Location
D901	B-13
D902	C-11
D903	C-11
D904	C-11
D951	C-5
D952	B-10
D954	B-10
IC901	B-8
Q901	A-3
Q902	A-3
Q903	A-5



(Page 16)

2-15. SCHEMATIC DIAGRAM – KEY Board –



2-16. EXPLODED VIEWS

☛ : Changed portion.

Page	Former type				New type			
	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
59	* 8	1-677-865-11	SUB BOARD		* 8	1-677-865-12	SUB BOARD	
60	* 61	3-041-371-02	SHEET (REFLECTOR)		* 61	3-041-371-11	SHEET (REFLECTOR)	

DSO

2-17. 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
- Please refer to servicing notes (page 7) for system of TYPE A, B and C.
- 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

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

Ref. No.	Part No.	Description			Remark
*	A-3294-916-A	DSO BOARD, COMPLETE			
		**********			
*	3-045-138-01	CASE (DSP), SHIELD			
*	3-045-994-01	COVER (DSP), SHIELD			
		< CAPACITOR >			
C801	1-126-393-11	ELECT CHIP	33uF	20%	10V
C802	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C803	1-126-394-11	ELECT CHIP	10uF	20%	16V
C804	1-117-709-11	ELECT CHIP	10uF	20%	10V
C805	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C806	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C808	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C809	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C810	1-128-993-21	ELECT CHIP	22uF	20%	10V
C811	1-128-993-21	ELECT CHIP	22uF	20%	10V
C812	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C813	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C814	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C815	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C816	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C817	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C818	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C819	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C820	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C821	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C822	1-128-415-11	ELECT CHIP	68uF	20%	10V
C823	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C824	1-126-393-11	ELECT CHIP	33uF	20%	10V
C825	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C826	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C827	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C828	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C829	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C830	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C831	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C834	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C835	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C836	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C837	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C838	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C839	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C840	1-126-394-11	ELECT CHIP	10uF	20%	16V
C841	1-126-394-11	ELECT CHIP	10uF	20%	16V
C842	1-126-394-11	ELECT CHIP	10uF	20%	16V
C843	1-126-394-11	ELECT CHIP	10uF	20%	16V
C844	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C845	1-126-394-11	ELECT CHIP	10uF	20%	16V
C846	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C847	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C848	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C849	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C850	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C851	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C852	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C853	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C854	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C855	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C856	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C857	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C861	1-126-394-11	ELECT CHIP	10uF	20%	16V
C862	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C874	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C875	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C876	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C877	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C878	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C879	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C880	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C881	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C899	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN801	1-794-320-11	PIN, CONNECTOR (PC BOARD) 29P			
		< DIODE >			
D802	8-719-073-01	DIODE MA111-TX			
D804	8-719-421-82	DIODE MA8043-M (TX)			
		< FERRITE BEAD >			
FB801	1-414-235-22	FERRITE BEAD INDUCTOR CHIP			
FB803	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB804	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB805	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB806	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB807	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			

Ref. No.	Part No.	Description			Remark
FB808	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB809	1-414-760-21	FERRITE BEAD INDUCTOR CHIP			
FB811	1-414-760-21	FERRITE BEAD INDUCTOR CHIP			
FB812	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB813	1-500-329-21	FERRITE BEAD INDUCTOR CHIP			
FB814	1-414-760-21	FERRITE BEAD INDUCTOR CHIP			
FB815	1-414-235-22	FERRITE BEAD INDUCTOR CHIP			
FB818	1-414-760-21	FERRITE BEAD INDUCTOR CHIP			
FB819	1-414-760-21	FERRITE BEAD INDUCTOR CHIP			
		< IC >			
IC801	8-759-710-88	IC NJM431U-TE2			
IC802	8-759-431-14	IC PQ3DZ53U			
IC803	8-759-524-05	IC TC74VHC126FT (EL)			
IC805	8-752-402-48	IC CXD2726Q-4			
IC806	8-759-058-58	IC TC7S04FU (TE85R)			
IC807	8-759-711-82	IC NJM4580E (T1)			
IC808	8-759-711-82	IC NJM4580E (T1)			
IC809	8-759-711-82	IC NJM4580E (T1)			
		< COIL >			
L801	1-412-058-11	INDUCTOR CHIP 10uH			
L802	1-412-060-11	INDUCTOR CHIP 22uH			
		< TRANSISTOR >			
Q801	8-729-920-85	TRANSISTOR 2SD1664-T101-QR			
		< RESISTOR >			
R801	1-216-864-11	METAL CHIP	0	5%	1/16W
R802	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R803	1-216-809-11	METAL CHIP	100	5%	1/16W
R804	1-219-274-11	RES, CHIP	220	2%	1/16W
R805	1-216-813-11	METAL CHIP	220	5%	1/16W
R806	1-219-286-11	RES, CHIP	680	2%	1/16W
R807	1-216-864-11	METAL CHIP	0	5%	1/16W
R811	1-216-861-11	METAL CHIP	2.2M	5%	1/16W
R812	1-216-859-11	RES, CHIP	1.5M	5%	1/16W
R813	1-216-864-11	METAL CHIP	0	5%	1/16W
R815	1-216-845-11	METAL CHIP	100K	5%	1/16W
R816	1-216-821-11	METAL CHIP	1K	5%	1/16W
R817	1-216-821-11	METAL CHIP	1K	5%	1/16W
R818	1-216-821-11	METAL CHIP	1K	5%	1/16W
R819	1-216-864-11	METAL CHIP	0	5%	1/16W
R820	1-216-821-11	METAL CHIP	1K	5%	1/16W
R822	1-216-809-11	METAL CHIP	100	5%	1/16W
R823	1-216-821-11	METAL CHIP	1K	5%	1/16W
R824	1-216-845-11	METAL CHIP	100K	5%	1/16W
R825	1-216-809-11	METAL CHIP	100	5%	1/16W
R826	1-216-864-11	METAL CHIP	0	5%	1/16W
R827	1-216-809-11	METAL CHIP	100	5%	1/16W
R828	1-216-805-11	METAL CHIP	47	5%	1/16W
R829	1-216-805-11	METAL CHIP	47	5%	1/16W
R830	1-216-864-11	METAL CHIP	0	5%	1/16W
R832	1-216-821-11	METAL CHIP	1K	5%	1/16W
R833	1-216-809-11	METAL CHIP	100	5%	1/16W
R834	1-216-839-11	METAL CHIP	33K	5%	1/16W
R835	1-216-843-11	METAL CHIP	68K	5%	1/16W
R837	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R838	1-216-841-11	METAL CHIP	47K	5%	1/16W
R839	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R840	1-216-841-11	METAL CHIP	47K	5%	1/16W
R841	1-216-841-11	METAL CHIP	47K	5%	1/16W
R842	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R843	1-216-833-11	METAL CHIP	10K	5%	1/16W
R844	1-216-841-11	METAL CHIP	47K	5%	1/16W
R845	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R846	1-216-833-11	METAL CHIP	10K	5%	1/16W
R847	1-216-833-11	METAL CHIP	10K	5%	1/16W
R848	1-216-841-11	METAL CHIP	47K	5%	1/16W
R849	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R850	1-216-833-11	METAL CHIP	10K	5%	1/16W
R851	1-216-833-11	METAL CHIP	10K	5%	1/16W
R852	1-216-833-11	METAL CHIP	10K	5%	1/16W
R853	1-216-833-11	METAL CHIP	10K	5%	1/16W
R854	1-216-833-11	METAL CHIP	10K	5%	1/16W
R855	1-216-833-11	METAL CHIP	10K	5%	1/16W
R856	1-216-833-11	METAL CHIP	10K	5%	1/16W
R857	1-216-833-11	METAL CHIP	10K	5%	1/16W
R858	1-216-833-11	METAL CHIP	10K	5%	1/16W
R859	1-216-833-11	METAL CHIP	10K	5%	1/16W
R860	1-216-833-11	METAL CHIP	10K	5%	1/16W
R861	1-216-833-11	METAL CHIP	10K	5%	1/16W
R862	1-216-797-11	METAL CHIP	10	5%	1/16W
R863	1-216-797-11	METAL CHIP	10	5%	1/16W
R864	1-216-797-11	METAL CHIP	10	5%	1/16W
R865	1-216-864-11	METAL CHIP	0	5%	1/16W
R868	1-216-864-11	METAL CHIP	0	5%	1/16W
R870	1-216-821-11	METAL CHIP	1K	5%	1/16W
R874	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R875	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R876	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R877	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R878	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R879	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R880	1-216-833-11	METAL CHIP	10K	5%	1/16W
R881	1-216-833-11	METAL CHIP	10K	5%	1/16W
R894	1-216-821-11	METAL CHIP	1K	5%	1/16W
R895	1-216-833-11	METAL CHIP	10K	5%	1/16W
R899	1-216-864-11	METAL CHIP	0	5%	1/16W
		< VIBRATOR >			
X801	1-767-467-11	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
		KEY BOARD			
		**********			
	1-694-660-1	CONDUCTIVE BOARD, CONNECTION			
*	3-040-992-0	HOLDER (LCD)			
*	3-040-993-0	PLATE (LCD), LIGHT GUIDE			
*	3-040-997-0	PLATE (LCD), GROUND			
*	3-041-371-1	SHEET (REFLECTOR)			
		< CAPACITOR >			
C951	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C952	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C953	1-163-137-00	CERAMIC CHIP	680PF	5%	50V

KEY

Ref. No.	Part No.	Description			Remark
C956	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C960	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C961	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C962	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C963	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CN901	1-794-065-21	PLUG, CONNECTOR 14P			
		< DIODE >			
D901	8-719-423-32	DIODE MA8120-M-TX			
D902	8-719-422-64	DIODE MA8062-M-TX			
D903	8-719-422-64	DIODE MA8062-M-TX			
D904	8-719-422-64	DIODE MA8062-M-TX			
D951	8-719-420-90	DIODE MA8051-M-TX			
D952	8-719-422-64	DIODE MA8062-M-TX			
D954	8-719-422-89	DIODE MA8082-H-TX			
		< IC >			
IC901	8-759-653-26	IC LC75878W			
IC951	8-749-012-25	IC RS-170-TU			
		< LIQUID CRYSTAL DISPLAY >			
LCD901	1-803-915-11	DISPLAY PANEL, LIQUID CRYSTAL (C8500R)			
LCD901	1-803-915-21	DISPLAY PANEL, LIQUID CRYSTAL (C8500X)			
		< LED >			
LED901	8-719-026-38	LED CL-150SR-CD-T (ILLUMINATION)			(C8500X)
LED901	8-719-064-68	LED LBT676-J2/K1/K2 (ILLUMINATION)			(C8500R)
LED902	8-719-026-38	LED CL-150SR-CD-T (ILLUMINATION)			(C8500X)
LED902	8-719-064-68	LED LBT676-J2/K1/K2 (ILLUMINATION)			(C8500R)
LED903	8-719-026-38	LED CL-150SR-CD-T (ILLUMINATION)			(C8500X)
LED903	8-719-064-68	LED LBT676-J2/K1/K2 (ILLUMINATION)			(C8500R)
LED904	8-719-026-38	LED CL-150SR-CD-T (ILLUMINATION)			(C8500X)
LED904	8-719-064-68	LED LBT676-J2/K1/K2 (ILLUMINATION)			(C8500R)
LED910	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)			
LED911	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)			
LED912	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)			
LED913	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)			
		< SWITCH >			
LSW901	1-771-610-11	SWITCH, TACTILE (WITH LED) (OFF) (C8500R)			
LSW901	1-771-883-11	SWITCH, TACTILE (WITH LED) (OFF) (C8500X)			
LSW902	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (SOURCE)			(C8500R)
LSW902	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOURCE)			(C8500X)
LSW903	1-762-620-21	SWITCH, KEY BOARD (WITH LED)			(SOUND EQ) (C8500R)
LSW903	1-771-476-11	SWITCH, KEY BOARD (WITH LED)			(SOUND EQ) (C8500X)
LSW904	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (MENU)			(C8500R)
LSW904	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (MENU)			(C8500X)
LSW905	1-762-620-21	SWITCH, KEY BOARD (WITH LED)			(PTY, DSPL) (C8500R)
LSW905	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (DSPL)			(C8500X)
LSW906	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (LIST)			(C8500R)
LSW906	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (LIST)			(C8500X)
LSW907	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (ENTER)			(C8500R)
LSW907	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (ENTER)			(C8500X)
LSW908	1-771-610-11	SWITCH, TACTILE (WITH LED) (MODE)			(C8500R)
LSW908	1-771-883-11	SWITCH, TACTILE (WITH LED) (MODE)			(C8500X)
LSW909	1-762-737-11	SWITCH, KEYBOARD (LED) (DSO)			
LSW910	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (TA)			(C8500R)
LSW911	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (AF)			(C8500R)
LSW912	1-771-610-11	SWITCH, TACTILE (WITH LED) (6) (C8500R)			
LSW912	1-771-883-11	SWITCH, TACTILE (WITH LED) (6) (C8500X)			
LSW913	1-771-610-11	SWITCH, TACTILE (WITH LED) (5) (C8500R)			
LSW913	1-771-883-11	SWITCH, TACTILE (WITH LED) (5) (C8500X)			
LSW914	1-771-610-11	SWITCH, TACTILE (WITH LED) (4) (C8500R)			
LSW914	1-771-883-11	SWITCH, TACTILE (WITH LED) (4) (C8500X)			
LSW915	1-771-610-11	SWITCH, TACTILE (WITH LED) (3) (C8500R)			
LSW915	1-771-883-11	SWITCH, TACTILE (WITH LED) (3) (C8500X)			
LSW916	1-771-610-11	SWITCH, TACTILE (WITH LED) (SHUF 2)			(C8500R)
LSW916	1-771-883-11	SWITCH, TACTILE (WITH LED) (SHUF 2)			(C8500X)
LSW917	1-771-610-11	SWITCH, TACTILE (WITH LED) (REP 1)			(C8500R)
LSW917	1-771-883-11	SWITCH, TACTILE (WITH LED) (REP 1)			(C8500X)
		< TRANSISTOR >			
Q901	8-729-904-75	TRANSISTOR	DTD114EK-T-146 (C8500R)		
Q902	8-729-904-75	TRANSISTOR	DTD114EK-T-146 (C8500R)		
Q903	8-729-904-75	TRANSISTOR	DTD114EK-T-146		
		< RESISTOR >			
R901	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R902	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R903	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R904	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R905	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R906	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R907	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R908	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R909	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R910	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R911	1-208-806-11	RES, CHIP	10K	2%	1/10W
R912	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R913	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R914	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R915	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R916	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R917	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R918	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R919	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R920	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R921	1-216-810-11	METAL CHIP	120	5%	1/16W (C8500X)
R921	1-216-811-11	METAL CHIP	150	5%	1/16W (C8500R)
R922	1-216-807-11	METAL CHIP	68	5%	1/16W (C8500R)
R923	1-216-811-11	METAL CHIP	150	5%	1/16W (C8500R)
R923	1-216-812-11	METAL CHIP	180	5%	1/16W (C8500X)
R924	1-216-807-11	METAL CHIP	68	5%	1/16W (C8500R)
R925	1-216-811-11	METAL CHIP	150	5%	1/16W (C8500R)
R925	1-216-812-11	METAL CHIP	180	5%	1/16W (C8500X)
R926	1-216-807-11	METAL CHIP	68	5%	1/16W (C8500R)
R927	1-216-029-00	METAL CHIP	150	5%	1/10W (C8500R)
R927	1-216-037-00	METAL CHIP	330	5%	1/10W (C8500X)
R928	1-216-021-00	METAL CHIP	68	5%	1/10W (C8500R)
R929	1-216-033-00	METAL CHIP	220	5%	1/10W (C8500X)
R931	1-216-813-11	METAL CHIP	220	5%	1/16W
R932	1-216-813-11	METAL CHIP	220	5%	1/16W
R933	1-216-813-11	METAL CHIP	220	5%	1/16W (C8500R)
R934	1-216-813-11	METAL CHIP	220	5%	1/16W (C8500R)
R938	1-216-809-11	METAL CHIP	100	5%	1/16W
R939	1-216-813-11	METAL CHIP	220	5%	1/16W (C8500X)
R940	1-216-821-11	METAL CHIP	1K	5%	1/16W (C8500X)
R951	1-216-819-11	METAL CHIP	680	5%	1/16W
R952	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R953	1-216-857-11	METAL CHIP	1M	5%	1/16W
R954	1-216-821-11	METAL CHIP	1K	5%	1/16W
R955	1-216-049-11	RES, CHIP	1K	5%	1/10W
R956	1-216-049-11	RES, CHIP	1K	5%	1/10W
R957	1-216-841-11	METAL CHIP	47K	5%	1/16W
R958	1-216-037-00	METAL CHIP	330	5%	1/10W
R960	1-216-041-00	METAL CHIP	470	5%	1/10W
R961	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R962	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R963	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R964	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R970	1-216-815-11	METAL CHIP	330	5%	1/16W

Ref. No.	Part No.	Description			Remark
R972	1-216-041-00	METAL CHIP	470	5%	1/10W
R973	1-216-815-11	METAL CHIP	330	5%	1/16W
R975	1-216-864-11	METAL CHIP	0	5%	1/16W
R977	1-216-815-11	METAL CHIP	330	5%	1/16W
R978	1-216-815-11	METAL CHIP	330	5%	1/16W
R999	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500X)
		< ROTARY ENCODER >			
RE901	1-475-014-11	ENCODER, ROTARY (VOLUME CONTROL)			
		< SWITCH >			
S901	1-771-884-11	SWITCH, TACTILEILE (SEEK/AMS - ⏮ ◀◀)			
S902	1-771-884-11	SWITCH, TACTILEILE (DISC +, PRST +)			
S903	1-771-884-11	SWITCH, TACTILEILE (SEEK/AMS + ▶▶⏭ ▶▶)			
S904	1-771-884-11	SWITCH, TACTILEILE (DISC -, PRST -)			
**********					
*	A-3294-906-A	MAIN BOARD, COMPLETE (C8500X)			
*	A-3294-915-A	MAIN BOARD, COMPLETE (C8500R: TYPE A)			
*	A-3294-918-A	MAIN BOARD, COMPLETE (C8500R: TYPE B)			
*	A-3294-919-A	MAIN BOARD, COMPLETE (C8500R: TYPE C)			
		**********			
*	3-040-996-32	HEAT SINK (2P) (C8500R)			
*	3-040-996-72	HEAT SINK (2P) (C8500X)			
*	3-040-998-01	BRACKET (IC)			
*	3-041-261-01	BRACKET (TR)			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-795-09	SCREW +PTT 2.6X12 (S)			
		< BUZZER >			
BZ101	1-504-920-11	BUZZER			
		< CAPACITOR >			
C101	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C103	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C104	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C105	1-131-661-21	ELECT CHIP	100uF	20%	10V
C106	1-126-176-11	ELECT	220uF	20%	10V
C107	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C108	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C109	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C110	1-117-681-11	ELECT CHIP	100uF	20%	16V
C111	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C112	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C113	1-117-681-11	ELECT CHIP	100uF	20%	16V
C114	1-124-584-00	ELECT	100uF	20%	10V
C115	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C116	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C117	1-124-584-00	ELECT	100uF	20%	10V
C118	1-126-926-11	ELECT	1000uF	20%	10V
C119	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C120	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C121	1-104-942-11	ELECT	1uF	20%	50V
C122	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C123	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C124	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C126	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C127	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C129	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C130	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C201	1-164-156-11	CERAMIC CHIP	0.1uF		25V (C8500R)
C202	1-162-962-11	CERAMIC CHIP	470PF	10%	50V (C8500R)
C203	1-164-739-11	CERAMIC CHIP	560PF	5%	50V (C8500R)
C204	1-164-505-11	CERAMIC CHIP	2.2uF		16V (C8500R)
C205	1-162-920-11	CERAMIC CHIP	27PF	5%	50V (C8500R)
C206	1-162-920-11	CERAMIC CHIP	27PF	5%	50V (C8500R)
C207	1-164-156-11	CERAMIC CHIP	0.1uF		25V (C8500R)
C208	1-164-156-11	CERAMIC CHIP	0.1uF		25V (C8500R)
C209	1-163-263-11	CERAMIC CHIP	330PF	5%	50V (C8500R)
C210	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (C8500R)
C211	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (C8500R)
C214	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C215	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C219	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C220	1-126-157-11	ELECT	10uF	20%	16V
C221	1-124-589-11	ELECT	47uF	20%	16V (C8500R)
C223	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C224	1-126-157-11	ELECT	10uF	20%	16V
C225	1-163-031-11	CERAMIC CHIP	0.01uF		50V (C8500X)
C226	1-124-589-11	ELECT	47uF	20%	16V
C227	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C229	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C230	1-124-589-11	ELECT	47uF	20%	16V
C231	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C232	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (C8500R)
C233	1-163-038-11	CERAMIC CHIP	0.1uF		25V (C8500R)
C234	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C235	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (C8500R)
C236	1-163-038-11	CERAMIC CHIP	0.1uF		25V (C8500R)
C238	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (C8500R)
C239	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (C8500R)
C240	1-164-005-11	CERAMIC CHIP	0.47uF		25V (C8500R)
C241	1-164-315-11	CERAMIC CHIP	470PF	5%	50V (C8500R)
C242	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V (C8500R)
C245	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V (C8500R)
C246	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C301	1-164-346-11	CERAMIC CHIP	1uF		16V
C302	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C303	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C304	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C305	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C306	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C307	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C308	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C309	1-164-346-11	CERAMIC CHIP	1uF		16V
C311	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C312	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C313	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C314	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C315	1-124-589-11	ELECT	47uF	20%	16V
C316	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C317	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C318	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C319	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C320	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C321	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C322	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C323	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C324	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C325	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C326	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C327	1-124-589-11	ELECT	47uF	20%	16V (C8500X)
C328	1-124-589-11	ELECT	47uF	20%	16V (C8500X)
C329	1-124-589-11	ELECT	47uF	20%	16V (C8500X)
C330	1-124-584-00	ELECT	100uF	20%	10V (C8500X)
C331	1-124-584-00	ELECT	100uF	20%	10V (C8500X)
C332	1-124-584-00	ELECT	100uF	20%	10V (C8500X)
C333	1-124-584-00	ELECT	100uF	20%	10V (C8500X)
C334	1-124-584-00	ELECT	100uF	20%	10V (C8500X)
C335	1-124-584-00	ELECT	100uF	20%	10V (C8500X)
C336	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C337	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (C8500X)
C338	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (C8500X)
C339	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (C8500X)
C340	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (C8500X)
C341	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (C8500X)

Ref. No.	Part No.	Description			Remark
C342	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (C8500X)
C343	1-126-157-11	ELECT	10uF	20%	16V
C344	1-126-157-11	ELECT	10uF	20%	16V
C345	1-126-157-11	ELECT	10uF	20%	16V
C346	1-126-157-11	ELECT	10uF	20%	16V
C347	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C348	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C349	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C350	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C351	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C352	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C353	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C354	1-104-942-11	ELECT	1uF	20%	50V (C8500X)
C354	1-124-259-11	ELECT	4.7uF	20%	16V (C8500R)
C355	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C356	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C357	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C358	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C359	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C360	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C361	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C362	1-124-261-00	ELECT	10uF	20%	50V (C8500R)
C362	1-124-589-11	ELECT	47uF	20%	16V (C8500X)
C363	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C364	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C365	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C366	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C367	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C368	1-104-942-11	ELECT	1uF	20%	50V
C369	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C370	1-104-942-11	ELECT	1uF	20%	50V
C371	1-135-473-21	ELECT	3300uF	20%	16V
C372	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C373	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (C8500X)
C374	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (C8500X)
C375	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (C8500X)
C376	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (C8500X)
C377	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (C8500X)
C378	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (C8500X)
C379	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C380	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (C8500X)
C381	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C382	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C383	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C384	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C385	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C386	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C387	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C399	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C401	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C402	1-124-589-11	ELECT	47uF	20%	16V
C403	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C405	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C406	1-131-661-21	ELECT CHIP	100uF	20%	10V
C407	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C408	1-128-057-11	ELECT	330uF	20%	6.3V
C409	1-128-057-11	ELECT	330uF	20%	6.3V
C410	1-135-474-21	ELECT	330uF	20%	6.3V
C501	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C502	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V (C8500X)
C502	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V (C8500R)
C504	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C505	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C506	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C507	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C508	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C509	1-163-234-11	CERAMIC CHIP	20PF	5%	50V
C510	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C511	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C512	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C513	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C514	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C515	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C516	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C517	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C518	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C520	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C601	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C602	1-124-229-00	ELECT	33uF	20%	10V
C603	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C604	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C605	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C606	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C607	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C701	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C702	1-104-942-11	ELECT	1uF	20%	50V
C703	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C704	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C705	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C707	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C708	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C709	1-126-154-11	ELECT	47uF	20%	6.3V
C710	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C711	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C712	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C713	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C714	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C715	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C751	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C752	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C753	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C755	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C756	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C757	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C759	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C901	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C902	1-104-942-11	ELECT	1uF	20%	50V
		< CONNECTOR/JACK >			
CN101	1-774-701-11	PIN, CONNECTOR 16P			
CN102	1-764-808-21	JACK (ANT) (FM/AM ANTENNA)			
* CN301	1-564-506-11	PLUG, CONNECTOR 3P			
CN302	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN, AUDIO OUT REAR/FRONT)			
CN401	1-764-617-12	PIN, CONNECTOR (PC BOARD) 30P			
CN601	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)			
CN701	1-770-408-11	CONNECTOR, BOARD TO BOARD 14P			
		< DIODE >			
D101	8-719-420-51	DIODE MA729-TX			
D102	8-719-422-29	DIODE MA8047-L-TX			
D103	8-719-060-81	DIODE MA735-TX			
D104	8-719-801-78	DIODE MA152WK-TX			
D105	8-719-420-14	DIODE MA8082-M (TX)			
D106	8-719-060-81	DIODE MA735-TX			
D107	8-719-422-62	DIODE MA8062-L-TX			
D108	8-719-422-86	DIODE MA8082-L-TX			
D109	8-719-977-12	DIODE MA8068-M-TX			
D201	8-719-422-41	DIODE MA8051-L-TX			
D203	8-719-800-76	DIODE MA153-TX (C8500R)			
D204	8-719-420-90	DIODE MA8051-M-TX (C8500R)			
D205	8-719-073-01	DIODE MA111-TX			
D301	8-719-105-99	DIODE RD6.2M-B1			
D302	8-719-073-01	DIODE MA111-TX			
D352	8-719-422-89	DIODE MA8082-H-TX			
D353	8-719-801-78	DIODE MA152WK-TX			
D354	8-719-801-78	DIODE MA152WK-TX			
D355	8-719-079-66	DIODE 1ZB22 (TP5.SONY) (C8500R)			
D355	8-719-200-82	DIODE 11ES2-TB5 (C8500X)			
D356	8-719-079-66	DIODE 1ZB22 (TP5.SONY) (C8500R)			
D356	8-719-200-82	DIODE 11ES2-TB5 (C8500X)			
D357	8-719-079-66	DIODE 1ZB22 (TP5.SONY) (C8500R)			
D357	8-719-200-82	DIODE 11ES2-TB5 (C8500X)			
D358	8-719-079-66	DIODE 1ZB22 (TP5.SONY) (C8500R)			
D358	8-719-200-82	DIODE 11ES2-TB5 (C8500X)			
D359	8-719-079-66	DIODE 1ZB22 (TP5.SONY) (C8500R)			
D359	8-719-200-82	DIODE 11ES2-TB5 (C8500X)			
D360	8-719-079-66	DIODE 1ZB22 (TP5.SONY) (C8500R)			
D360	8-719-200-82	DIODE 11ES2-TB5 (C8500X)			
D361	8-719-079-66	DIODE 1ZB22 (TP5.SONY) (C8500R)			
D361	8-719-200-82	DIODE 11ES2-TB5 (C8500X)			
D362	8-719-079-66	DIODE 1ZB22 (TP5.SONY) (C8500R)			
D362	8-719-200-82	DIODE 11ES2-TB5 (C8500X)			
D363	8-719-049-38	DIODE 1N5404TU			
D501	8-719-420-90	DIODE MA8051-M-TX (C8500R)			
D502	8-719-073-01	DIODE MA111-TX			
D601	8-719-073-01	DIODE MA111-TX			
D602	8-719-073-01	DIODE MA111-TX			
D603	8-719-057-80	DIODE MA8180-M-TX			
D604	8-719-057-80	DIODE MA8180-M-TX (C8500R)			
D604	8-719-071-25	DIODE HZU18B2TRF (C8500X)			
D605	8-719-073-01	DIODE MA111-TX			
D606	8-719-057-80	DIODE MA8180-M-TX (C8500R)			
D606	8-719-071-25	DIODE HZU18B2TRF (C8500X)			
D607	8-719-977-12	DIODE MA8068-M-TX			
D608	8-719-420-51	DIODE MA729-TX			
D609	8-719-057-80	DIODE MA8180-M-TX			
D610	8-719-073-01	DIODE MA111-TX			
D611	8-719-073-01	DIODE MA111-TX			
D612	8-719-064-08	DIODE HZU6.8B2TRF (C8500X)			
D612	8-719-977-12	DIODE MA8068-M-TX (C8500R)			
D613	8-719-064-08	DIODE HZU6.8B2TRF (C8500X)			
D613	8-719-977-12	DIODE MA8068-M-TX (C8500R)			
D614	8-719-073-01	DIODE MA111-TX			
D701	8-719-400-20	DIODE MA152WA-TX			
D702	8-719-073-01	DIODE MA111-TX			
D703	8-719-801-78	DIODE MA152WK-TX			
D751	8-719-423-32	DIODE MA8120-M-TX			
D752	8-719-422-64	DIODE MA8062-M-TX			
D753	8-719-105-99	DIODE RD6.2M-B1			
D754	8-719-423-32	DIODE MA8120-M-TX			
D755	8-719-423-32	DIODE MA8120-M-TX			
D756	8-719-4105-99	DIODE RD6.2M-B1			
D757	8-719-105-99	DIODE RD6.2M-B1			
D758	8-719-423-32	DIODE MA8120-M-TX			
D759	8-719-105-99	DIODE RD6.2M-B1			
D760	8-719-105-99	DIODE RD6.2M-B1			
D761	8-719-423-32	DIODE MA8120-M-TX			
D762	8-719-423-32	DIODE MA8120-M-TX			
		< FERRITE BEAD >			
FB201	1-500-245-11	FERRITE BEAD INDUCTOR CHIP (C8500R)			
		< IC >			
IC201	8-759-492-59	IC SAA6588T/V2-118 (C8500R)			
IC202	8-759-711-82	IC NJM4580E (T1) (C8500R)			
IC301	8-759-653-27	IC TDA7402TR			
IC302	8-759-521-35	IC TL5001CDR			
IC303	8-759-593-97	IC NJM2160AM-TE2 (C8500X)			
IC304	8-759-593-97	IC NJM2160AM-TE2 (C8500X)			
IC305	8-759-593-97	IC NJM2160AM-TE2 (C8500X)			
IC351	8-759-660-96	IC TDA7560 (C8500X)			
IC351	8-759-663-88	IC TA8268H (C8500R)			
IC502	8-759-670-67	IC MB90574BPMT-G-264-BND (C8500R)			
IC502	8-759-686-86	IC MB90574BPMT-G-290-BND (C8500X)			
IC503	8-759-581-75	IC XC61AN4102MR			
IC504	8-759-495-76	IC RN5VD33AA-TL			
IC601	8-759-449-89	IC BA8270F-E2			
IC701	8-759-686-87	IC HD643255A25F			
IC702	8-759-277-63	IC TC7W14FU (TE12R)			
		< JACK >			
J651	1-566-822-41	JACK (REMOTE IN)			
		< COIL >			
L101	1-469-673-21	INDUCTOR 100uH			

Ref. No.	Part No.	Description		Remark
L102	1-469-674-21	INDUCTOR	220uH	
L103	1-469-675-21	INDUCTOR	100uH	
L104	1-414-185-51	INDUCTOR	22uH	
L201	1-414-185-51	INDUCTOR	22uH	
L301	1-414-179-51	INDUCTOR	2.2uH	
L351	1-419-476-11	COIL, CHOKE	250uH	
L402	1-469-673-21	INDUCTOR	100uH	
L701	1-414-856-51	INDUCTOR	10uH	
		< TRANSISTOR >		
Q101	8-729-421-19	TRANSISTOR	UN2213-TX	
Q102	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q103	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q104	8-729-019-03	TRANSISTOR	2SB1202FA-T-TL	
Q105	8-729-019-03	TRANSISTOR	2SB1202FA-T-TL	
Q106	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q107	8-729-019-03	TRANSISTOR	2SB1202FA-T-TL	
Q108	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q109	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q110	8-729-040-17	TRANSISTOR	2SD2164-K	
Q111	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q112	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q113	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q201	8-729-920-85	TRANSISTOR	2SD1664-T101-QR	
Q203	8-729-106-60	TRANSISTOR	2SB1132-T101-QR	
Q204	8-729-421-22	TRANSISTOR	UN2211-TX	
Q208	8-729-421-22	TRANSISTOR	UN2211-TX (C8500R)	
Q209	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q351	8-729-421-22	TRANSISTOR	UN2211-TX	
Q352	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q353	8-729-424-59	TRANSISTOR	UN2212-TX	
Q354	8-729-424-18	TRANSISTOR	UN2113-TX	
Q355	8-729-424-59	TRANSISTOR	UN2212-TX	
Q356	8-729-021-95	TRANSISTOR	RN1441-A (TE85L)	
Q357	8-729-021-95	TRANSISTOR	RN1441-A (TE85L)	
Q358	8-729-021-95	TRANSISTOR	RN1441-A (TE85L)	
Q359	8-729-021-95	TRANSISTOR	RN1441-A (TE85L)	
Q360	8-729-021-95	TRANSISTOR	RN1441-A (TE85L)	
Q361	8-729-021-95	TRANSISTOR	RN1441-A (TE85L)	
Q363	8-729-421-22	TRANSISTOR	UN2211-TX	
Q364	8-729-421-22	TRANSISTOR	UN2211-TX	
Q365	8-729-821-63	TRANSISTOR	2SB1203T-TL	
Q366	8-729-821-63	TRANSISTOR	2SB1203T-TL	
Q401	8-729-019-03	TRANSISTOR	2SB1202FA-T-TL	
Q404	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q405	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q406	8-729-019-03	TRANSISTOR	2SB1202FA-T-TL	
Q407	8-729-421-22	TRANSISTOR	UN2211-TX	
Q601	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q602	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q603	8-729-424-18	TRANSISTOR	UN2113-TX	
Q604	8-729-421-22	TRANSISTOR	UN2211-TX	
Q605	8-729-424-18	TRANSISTOR	UN2113-TX	
Q701	8-729-424-08	TRANSISTOR	UN2111-TX	
Q702	8-729-424-08	TRANSISTOR	UN2111-TX	
Q703	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	
Q704	8-729-019-03	TRANSISTOR	2SB1202FA-T-TL	
Q705	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	

Ref. No.	Part No.	Description			Remark
Q901	8-729-106-60	TRANSISTOR	2SB1132-T101-QR		
Q902	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R		
Q903	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R		
		< RESISTOR >			
R101	1-216-839-11	METAL CHIP	33K	5%	1/16W
R102	1-218-879-11	METAL CHIP	22K	0.5%	1/16W
R103	1-216-845-11	METAL CHIP	100K	5%	1/16W
R104	1-218-903-11	METAL CHIP	220K	0.5%	1/16W
R105	1-218-832-11	METAL CHIP	8.2K	5%	1/16W
R106	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R107	1-216-839-11	METAL CHIP	33K	5%	1/16W
R108	1-216-849-11	METAL CHIP	220K	5%	1/16W
R109	1-216-841-11	METAL CHIP	47K	5%	1/16W
R110	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R111	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R112	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R113	1-216-049-11	RES, CHIP	1K	5%	1/10W
R114	1-216-049-11	RES, CHIP	1K	5%	1/10W
R115	1-216-041-00	METAL CHIP	470	5%	1/10W
R116	1-216-049-11	RES, CHIP	1K	5%	1/10W
R117	1-216-037-00	METAL CHIP	330	5%	1/10W
R118	1-216-033-00	METAL CHIP	220	5%	1/10W
R119	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R120	1-216-817-11	METAL CHIP	470	5%	1/16W
R121	1-216-049-11	RES, CHIP	1K	5%	1/10W
R122	1-216-833-11	METAL CHIP	10K	5%	1/16W
R123	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R124	1-216-845-11	METAL CHIP	100K	5%	1/16W
R125	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R126	1-216-845-11	METAL CHIP	100K	5%	1/16W
R127	1-216-833-11	METAL CHIP	10K	5%	1/16W
R128	1-216-839-11	METAL CHIP	33K	5%	1/16W
R129	1-216-833-11	METAL CHIP	10K	5%	1/16W
R130	1-216-077-00	RES, CHIP	15K	5%	1/10W
R131	1-216-841-11	METAL CHIP	47K	5%	1/16W
R132	1-216-845-11	METAL CHIP	100K	5%	1/16W
R133	1-216-841-11	METAL CHIP	47K	5%	1/16W
R134	1-216-845-11	METAL CHIP	100K	5%	1/16W
R136	1-216-833-11	METAL CHIP	10K	5%	1/16W
R137	1-216-833-11	METAL CHIP	10K	5%	1/16W
R138	1-216-295-11	SHORT	0		
R139	1-216-001-00	METAL CHIP	10	5%	1/10W
R140	1-216-041-00	METAL CHIP	470	5%	1/10W
R141	1-216-049-11	RES, CHIP	1K	5%	1/10W
R142	1-216-049-11	RES, CHIP	1K	5%	1/10W
R201	1-216-853-11	METAL CHIP	470K	5%	1/16W (C8500R)
R202	1-216-821-11	METAL CHIP	1K	5%	1/16W (C8500R)
R203	1-216-832-11	METAL CHIP	8.2K	5%	1/16W (C8500R)
R204	1-216-817-11	METAL CHIP	470	5%	1/16W (C8500R)
R205	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R206	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500R)
R207	1-216-001-00	METAL CHIP	10	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R208	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500R)
R209	1-216-025-11	RES, CHIP	100	5%	1/10W
R210	1-216-025-11	RES, CHIP	100	5%	1/10W
R211	1-216-025-11	RES, CHIP	100	5%	1/10W (C8500R)
R212	1-216-025-11	RES, CHIP	100	5%	1/10W (C8500R)
R213	1-216-864-11	METAL CHIP	0	5%	1/16W
R214	1-216-001-00	METAL CHIP	10	5%	1/10W
R215	1-216-841-11	METAL CHIP	47K	5%	1/16W
R216	1-216-817-11	METAL CHIP	470	5%	1/16W
R217	1-216-839-11	METAL CHIP	33K	5%	1/16W
R218	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R219	1-216-833-11	METAL CHIP	10K	5%	1/16W
R221	1-216-073-00	METAL CHIP	10K	5%	1/10W (C8500R)
R222	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (C8500R)
R223	1-216-073-00	METAL CHIP	10K	5%	1/10W (C8500R)
R224	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (C8500R)
R226	1-216-845-11	METAL CHIP	100K	5%	1/16W (C8500R)
R227	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (C8500R)
R228	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R230	1-216-121-11	RES, CHIP	1M	5%	1/10W (C8500R)
R231	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R233	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R234	1-216-295-11	SHORT	0		
R236	1-216-295-11	SHORT	0		
R237	1-216-295-11	SHORT	0		
R238	1-216-295-11	SHORT	0 (C8500R)		
R301	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500X)
R302	1-216-025-11	RES, CHIP	100	5%	1/10W
R305	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R305	1-216-817-11	METAL CHIP	470	5%	1/16W (C8500X)
R306	1-216-841-11	METAL CHIP	47K	5%	1/16W
R307	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R307	1-216-817-11	METAL CHIP	470	5%	1/16W (C8500X)
R310	1-216-809-11	METAL CHIP	100	5%	1/16W
R311	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R312	1-216-073-00	METAL CHIP	10K	5%	1/10W
R313	1-216-809-11	METAL CHIP	100	5%	1/16W
R314	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R315	1-216-073-00	METAL CHIP	10K	5%	1/10W
R317	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R318	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500X)
R319	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500X)
R320	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500X)
R321	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500X)
R322	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500X)
R323	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500X)
R324	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R325	1-216-085-00	METAL CHIP	33K	5%	1/10W (C8500X)
R326	1-216-085-00	METAL CHIP	33K	5%	1/10W (C8500X)
R327	1-216-085-00	METAL CHIP	33K	5%	1/10W (C8500X)
R328	1-216-085-00	METAL CHIP	33K	5%	1/10W (C8500X)
R329	1-216-085-00	METAL CHIP	33K	5%	1/10W (C8500X)
R330	1-216-085-00	METAL CHIP	33K	5%	1/10W (C8500X)
R331	1-216-295-11	SHORT	0 (C8500R)		
R332	1-216-295-11	SHORT	0 (C8500R)		
R333	1-216-295-11	SHORT	0 (C8500R)		
R334	1-216-295-11	SHORT	0 (C8500R)		
R335	1-216-295-11	SHORT	0 (C8500R)		
R336	1-216-295-11	SHORT	0 (C8500R)		
R337	1-216-089-11	RES, CHIP	47K	5%	1/10W (C8500X)
R338	1-216-833-11	METAL CHIP	10K	5%	1/16W
R339	1-216-089-11	RES, CHIP	47K	5%	1/10W
R340	1-216-073-00	METAL CHIP	10K	5%	1/10W
R341	1-216-864-11	METAL CHIP	0	5%	1/16W
R343	1-216-813-11	METAL CHIP	220	5%	1/16W
R344	1-216-813-11	METAL CHIP	220	5%	1/16W
R345	1-216-813-11	METAL CHIP	220	5%	1/16W
R346	1-216-813-11	METAL CHIP	220	5%	1/16W
R347	1-216-813-11	METAL CHIP	220	5%	1/16W
R348	1-216-813-11	METAL CHIP	220	5%	1/16W
R349	1-216-821-11	METAL CHIP	1K	5%	1/16W (C8500R)
R349	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500X)
R350	1-216-073-00	METAL CHIP	10K	5%	1/10W (C8500X)
R350	1-216-295-11	SHORT	0 (C8500R)		
R351	1-216-837-11	METAL CHIP	22K	5%	1/16W
R352	1-216-837-11	METAL CHIP	22K	5%	1/16W
R353	1-216-837-11	METAL CHIP	22K	5%	1/16W
R354	1-216-837-11	METAL CHIP	22K	5%	1/16W
R355	1-216-081-00	METAL CHIP	22K	5%	1/10W
R356	1-216-081-00	METAL CHIP	22K	5%	1/10W
R357	1-216-841-11	METAL CHIP	47K	5%	1/16W
R358	1-216-841-11	METAL CHIP	47K	5%	1/16W
R359	1-216-821-11	METAL CHIP	1K	5%	1/16W
R360	1-216-864-11	METAL CHIP	0	5%	1/16W
R361	1-216-821-11	METAL CHIP	1K	5%	1/16W
R363	1-216-809-11	METAL CHIP	100	5%	1/16W
R364	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R365	1-216-065-00	RES, CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R366	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R367	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R368	1-216-222-00	RES, CHIP	10K	5%	1/8W
R369	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R370	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R371	1-216-833-11	METAL CHIP	10K	5%	1/16W
R372	1-216-833-11	METAL CHIP	10K	5%	1/16W
R373	1-216-222-00	RES, CHIP	10K	5%	1/8W
R374	1-216-222-00	RES, CHIP	10K	5%	1/8W
R375	1-216-864-11	METAL CHIP	0	5%	1/16W
R376	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500X)
R377	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500X)
R378	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500X)
R379	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500X)
R380	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500X)
R381	1-216-001-00	METAL CHIP	10	5%	1/10W (C8500X)
R382	1-216-041-00	METAL CHIP	470	5%	1/10W (C8500X)
R383	1-216-041-00	METAL CHIP	470	5%	1/10W (C8500X)
R384	1-216-041-00	METAL CHIP	470	5%	1/10W (C8500X)
R385	1-216-041-00	METAL CHIP	470	5%	1/10W (C8500X)
R386	1-216-041-00	METAL CHIP	470	5%	1/10W (C8500X)
R387	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R387	1-216-817-11	METAL CHIP	470	5%	1/16W (C8500X)
R388	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R388	1-216-817-11	METAL CHIP	470	5%	1/16W (C8500X)
R389	1-216-809-11	METAL CHIP	100	5%	1/16W (C8500R)
R389	1-216-817-11	METAL CHIP	470	5%	1/16W (C8500X)
R390	1-216-833-11	METAL CHIP	10K	5%	1/16W (C8500R)
R390	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500X)
R391	1-216-073-00	METAL CHIP	10K	5%	1/10W (C8500R)
R391	1-216-295-11	SHORT	0 (C8500X)		
R392	1-216-833-11	METAL CHIP	10K	5%	1/16W (C8500R)
R392	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500X)
R393	1-216-833-11	METAL CHIP	10K	5%	1/16W (C8500R)
R393	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500X)
R398	1-216-041-00	METAL CHIP	470	5%	1/10W (C8500X)
R408	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R409	1-216-073-00	METAL CHIP	10K	5%	1/10W
R412	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R414	1-216-049-11	RES, CHIP	1K	5%	1/10W
R415	1-216-049-11	RES, CHIP	1K	5%	1/10W
R416	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R417	1-216-049-11	RES, CHIP	1K	5%	1/10W
R418	1-216-041-00	METAL CHIP	470	5%	1/10W
R419	1-216-820-11	METAL CHIP	820	5%	1/16W
R420	1-216-864-11	METAL CHIP	0	5%	1/16W
R421	1-216-864-11	METAL CHIP	0	5%	1/16W
R501	1-216-081-00	METAL CHIP	22K	5%	1/10W
R502	1-216-837-11	METAL CHIP	22K	5%	1/16W (C8500R: TYPE C)
R502	1-216-864-11	METAL CHIP	0	5%	1/16W (C8500R: TYPE A, C8500X)
R503	1-216-833-11	METAL CHIP	10K	5%	1/16W (C8500R: TYPE B)
R503	1-216-841-11	METAL CHIP	47K	5%	1/16W (C8500R: TYPE C)
R504	1-216-025-11	RES, CHIP	100	5%	1/10W
R505	1-216-295-11	SHORT	0 (C8500R)		
R506	1-216-049-11	RES, CHIP	1K	5%	1/10W
R507	1-216-049-11	RES, CHIP	1K	5%	1/10W
R508	1-216-049-11	RES, CHIP	1K	5%	1/10W
R509	1-216-049-11	RES, CHIP	1K	5%	1/10W
R510	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500R)
R511	1-216-837-11	METAL CHIP	22K	5%	1/16W (C8500X)
R512	1-216-821-11	METAL CHIP	1K	5%	1/16W
R513	1-216-049-11	RES, CHIP	1K	5%	1/10W
R514	1-216-049-11	RES, CHIP	1K	5%	1/10W (C8500R)
R515	1-216-864-11	METAL CHIP	0	5%	1/16W
R516	1-216-845-11	METAL CHIP	100K	5%	1/16W
R517	1-216-049-11	RES, CHIP	1K	5%	1/10W
R518	1-216-833-11	METAL CHIP	10K	5%	1/16W
R519	1-216-809-11	METAL CHIP	100	5%	1/16W
R521	1-216-809-11	METAL CHIP	100	5%	1/16W
R522	1-216-833-11	METAL CHIP	10K	5%	1/16W
R523	1-216-821-11	METAL CHIP	1K	5%	1/16W
R524	1-216-821-11	METAL CHIP	1K	5%	1/16W
R526	1-216-821-11	METAL CHIP	1K	5%	1/16W
R527	1-216-815-11	METAL CHIP	330	5%	1/16W
R528	1-216-821-11	METAL CHIP	1K	5%	1/16W
R529	1-216-049-11	RES, CHIP	1K	5%	1/10W
R530	1-216-845-11	METAL CHIP	100K	5%	1/16W
R531	1-216-821-11	METAL CHIP	1K	5%	1/16W
R532	1-216-821-11	METAL CHIP	1K	5%	1/16W
R533	1-216-809-11	METAL CHIP	100	5%	1/16W
R534	1-216-845-11	METAL CHIP	100K	5%	1/16W
R535	1-216-821-11	METAL CHIP	1K	5%	1/16W
R536	1-216-821-11	METAL CHIP	1K	5%	1/16W
R537	1-216-845-11	METAL CHIP	100K	5%	1/16W
R538	1-216-049-11	RES, CHIP	1K	5%	1/10W
R540	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R541	1-216-081-00	METAL CHIP	22K	5%	1/10W (C8500R)
R542	1-216-833-11	METAL CHIP	10K	5%	1/16W

MAIN **SUB**

Ref. No.	Part No.	Description			Remark
R543	1-216-097-11	RES, CHIP	100K	5%	1/10W
R544	1-216-845-11	METAL CHIP	100K	5%	1/16W
R546	1-216-081-00	METAL CHIP	22K	5%	1/10W
R547	1-216-837-11	METAL CHIP	22K	5%	1/16W (C8500X)
R548	1-216-845-11	METAL CHIP	100K	5%	1/16W
R549	1-216-049-11	RES, CHIP	1K	5%	1/10W
R550	1-216-845-11	METAL CHIP	100K	5%	1/16W
R551	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R601	1-216-089-11	RES, CHIP	47K	5%	1/10W
R602	1-216-845-11	METAL CHIP	100K	5%	1/16W
R603	1-216-025-11	RES, CHIP	100	5%	1/10W
R604	1-216-295-11	SHORT	0		
R605	1-216-025-11	RES, CHIP	100	5%	1/10W
R606	1-216-097-11	RES, CHIP	100K	5%	1/10W
R607	1-216-845-11	METAL CHIP	100K	5%	1/16W
R608	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R609	1-216-833-11	METAL CHIP	10K	5%	1/16W
R610	1-216-025-11	RES, CHIP	100	5%	1/10W
R611	1-216-841-11	METAL CHIP	47K	5%	1/16W
R612	1-216-089-11	RES, CHIP	47K	5%	1/10W
R614	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R615	1-216-073-00	METAL CHIP	10K	5%	1/10W
R616	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R617	1-216-025-11	RES, CHIP	100	5%	1/10W
R618	1-216-025-11	RES, CHIP	100	5%	1/10W
R701	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R702	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R703	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R704	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R705	1-216-833-11	METAL CHIP	10K	5%	1/16W
R706	1-216-041-00	METAL CHIP	470	5%	1/10W
R708	1-216-821-11	METAL CHIP	1K	5%	1/16W
R709	1-216-821-11	METAL CHIP	1K	5%	1/16W
R710	1-216-821-11	METAL CHIP	1K	5%	1/16W
R711	1-216-821-11	METAL CHIP	1K	5%	1/16W
R712	1-216-809-11	METAL CHIP	100	5%	1/16W
R713	1-216-295-11	SHORT	0		
R714	1-216-049-11	RES, CHIP	1K	5%	1/10W
R715	1-216-049-11	RES, CHIP	1K	5%	1/10W
R716	1-216-845-11	METAL CHIP	100K	5%	1/16W
R717	1-216-864-11	METAL CHIP	0	5%	1/16W
R718	1-216-025-11	RES, CHIP	100	5%	1/10W
R719	1-216-821-11	METAL CHIP	1K	5%	1/16W
R720	1-216-049-11	RES, CHIP	1K	5%	1/10W
R721	1-216-025-11	RES, CHIP	100	5%	1/10W
R722	1-216-845-11	METAL CHIP	100K	5%	1/16W
R723	1-216-025-11	RES, CHIP	100	5%	1/10W
R724	1-216-809-11	METAL CHIP	100	5%	1/16W
R725	1-216-845-11	METAL CHIP	100K	5%	1/16W
R726	1-216-821-11	METAL CHIP	1K	5%	1/16W
R727	1-216-809-11	METAL CHIP	100	5%	1/16W
R728	1-216-809-11	METAL CHIP	100	5%	1/16W
R729	1-216-821-11	METAL CHIP	1K	5%	1/16W
R731	1-216-049-11	RES, CHIP	1K	5%	1/10W
R732	1-216-819-11	METAL CHIP	680	5%	1/16W
R733	1-216-845-11	METAL CHIP	100K	5%	1/16W
R734	1-216-845-11	METAL CHIP	100K	5%	1/16W
R735	1-216-864-11	METAL CHIP	0	5%	1/16W
R736	1-216-025-11	RES, CHIP	100	5%	1/10W
R737	1-216-025-11	RES, CHIP	100	5%	1/10W
R738	1-216-025-11	RES, CHIP	100	5%	1/10W
R739	1-216-845-11	METAL CHIP	100K	5%	1/16W
R740	1-216-845-11	METAL CHIP	100K	5%	1/16W
R741	1-216-845-11	METAL CHIP	100K	5%	1/16W
R742	1-216-821-11	METAL CHIP	1K	5%	1/16W
R743	1-216-864-11	METAL CHIP	0	5%	1/16W
R901	1-216-817-11	METAL CHIP	470	5%	1/16W
R902	1-216-821-11	METAL CHIP	1K	5%	1/16W
R903	1-216-821-11	METAL CHIP	1K	5%	1/16W
R904	1-216-833-11	METAL CHIP	10K	5%	1/16W
R905	1-216-821-11	METAL CHIP	1K	5%	1/16W
		< SWITCH >			
S101	1-692-431-21	SWITCH, TACTILE (RESET)			
S102	1-771-540-11	SWITCH, PUSH (1 KEY) (NOSE DETECT)			
		< THERMISTOR >			
TH101	1-801-792-21	THERMISTOR, POSITIVE			
TH102	1-810-940-11	THERMISTOR, POSITIVE			
TH103	1-810-940-11	THERMISTOR, POSITIVE			
		< TUNER UNIT >			
TUX201	A-3320-738-A	FM/AM TUNER UNIT (TUX-020)			
		< VIBRATOR >			
X101	1-767-853-21	VIBRATOR, CRYSTAL (4.332MHz) (C8500R)			
X103	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
X104	1-767-993-41	VIBRATOR, CRYSTAL (3.68MHz)			
X105	1-781-822-21	VIBRATOR, CERAMIC (18.432MHz)			
**********					
*	1-677-865-12	SUB BOARD			
		**********			
*	3-039-443-11	SHEET (CONNECTOR)			
		< CONNECTOR >			
CN751	1-794-064-11	SOCKET, CONNECTOR 14P			
CN752	1-770-736-21	SOCKET, CONNECTOR 14P			
		< LED >			
LED751	8-719-077-75	LED BR1101F-TR (MD DISC SLOT) (C8500X)			
LED751	8-719-077-78	LED BG1101F-TR (MD DISC SLOT) (C8500R)			
		< SWITCH >			
LSW751	1-771-609-11	SWITCH, TACTILE (WITH LED) (⏏) (C8500R)			
LSW751	1-771-883-11	SWITCH, TACTILE (WITH LED) (⏏) (C8500X)			
		< RESISTOR >			
R754	1-216-186-00	RES, CHIP	330	5%	1/8W (C8500R)
R754	1-216-194-00	METAL CHIP	680	5%	1/8W (C8500X)

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Audio Entertainment Group

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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.

Ver.	Date	Description of Revision
1.1	2001.05	Change of Part No. for SPRING, FITTING (ECN-CSA04727)
1.0	2000.08	Supplement-1
	2000.02	New