

XR-C5200R/C5300R/C5300RX

SERVICE MANUAL

AEP Model
UK Model



Photo: XR-C5300R

Model Name Using Similar Mechanism	XR-C5110R
Tape Transport Mechanism Type	MG-25G-136

SPECIFICATIONS

Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.08 % (WRMS)
Frequency response	30 – 18,000 Hz
Signal-to-noise ratio	

Cassettetype

TYPE II, IV	61 dB
TYPE I	58 dB

Tuner section

FM

Tuning range	87.5 – 108.0 MHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450kHz
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

MW/LW

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 μ V LW: 40 μ V

Power amplifier section

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

General

Outputs	Audio output Power aerial relay control lead Power amplifier control lead Telephone ATT control lead (XR-C5300R/C5300RX only)
Tone controls	Bass \pm 9 dB at 100 Hz Treble \pm 9 dB at 10 kHz
Power requirements	12 V DC car battery (negative earth)
Dimensions	Approx. 178 \times 50 \times 183 mm (w/h/d)
Mounting dimensions	Approx. 182 \times 53 \times 162 mm (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1)

Design and specifications are subject to change without notice.

FM/MW/LW CASSETTE CAR STEREO



SONY®

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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.

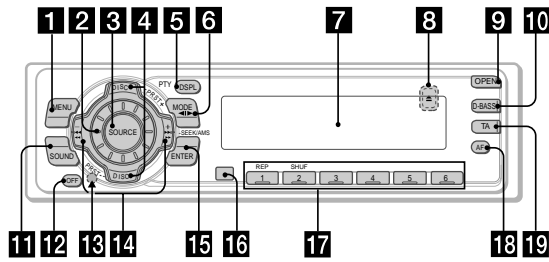
Notes on chip component replacement

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

SECTION 1 GENERAL

This section is extracted from instruction manual.

Location of controls



Refer to the pages listed for details.

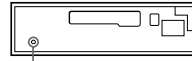
- 1** MENU button
9, 11, 12, 13, 15, 17, 19, 22, 24
- 2** Volume control dial
- 3** SOURCE (TUNER/TAPE/CD/MD) button
8, 10, 12, 13, 16, 23
- 4** PRST/DISC +/- (cursor up/down) buttons
8, 9, 11, 12, 13, 15, 17, 18, 19, 22, 24
During radio reception:
Preset stations select 13
During CD/MD playback:
Discchange 25
- 5** DSPL/PTY (display mode change/ programme type) button
11, 14, 18, 23, 24
- 6** MODE button 10, 11, 12, 13, 23
During tape playback:
Playback direction change 10
During radio reception:
BAND select 12
During CD/MD playback:
CD/MD unit select 23
- 7** Display window
- 8** (eject) button (located on the front side of the unit behind the front panel) 10
- 9** OPEN button 7, 10, 26
- 10** D-BASS button 23
- 11** SOUND button 21
- 12** OFF button* 7, 8, 10
- 13** Reset button (located on the front side of the unit behind the front panel) 7
- 14** SEEK/AMS-/+ (cursor left/right) buttons
8, 9, 10, 11, 12, 13, 15, 17, 19, 21, 22, 24, 25
Seek 13, 15
Automatic Music Sensor 10, 25
Manual search 13, 25
- 15** ENTER button
9, 11, 12, 13, 15, 17, 18, 19, 22, 24
- 16** Receptor for the card remote commander
- 17** Number buttons
During radio reception:
Preset number select 12, 13, 16, 17
During tape playback:
① REP 11
During CD/MD playback:
① REP 25
② SHUF 25
- 18** AF button 15, 17
- 19** TA button 16, 17

*2 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.

Getting Started

Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.
Remove the front panel and press the reset button with a pointed object, such as a ballpoint pen.



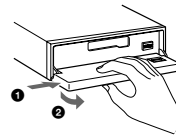
Reset button

Note
Pressing the reset button will erase the clock setting and some memorised functions.

Detaching the front panel

You can detach the front panel of this unit to protect the unit from being stolen.

- 1 Press (OFF).
- 2 Press (OPEN), then slide the front panel to the right side, and pull out from the left side.

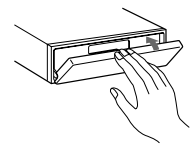
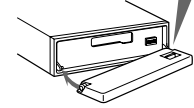
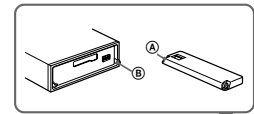


Notes

- Be sure not to drop the panel when detaching it from the unit.
- If you detach the panel while the unit is still turned on, the power will turn off automatically to prevent the speakers from being damaged.
- When you carry the front panel with you, use the supplied front panel case.

Attaching the front panel

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



Notes

- Be careful not to attach the front panel upside down.
- Do not press the front panel too hard against the unit when attaching it.
- Do not press too hard or put excessive pressure on the display window of the front panel.
- Do not expose the front panel to direct sunlight or heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight or where there may be a considerable rise in temperature.

Caution alarm

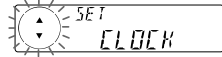
If you turn the car ignition off without removing the front panel, the caution alarm will beep for a few seconds.
If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.

Setting the clock

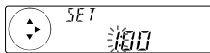
The clock uses a 24-hour digital indication.

Example: To set the clock to 10:08

- 1 Press (MENU), then press either side of (PRST/DISC) or (PRST) repeatedly until "CLOCK" appears.



- 1 Press (ENTER).



The hour indication flashes.

- 2 Press either side of (PRST/DISC) or (PRST) to set the hour.

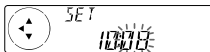


- 3 Press (+) side of (SEEK/AMS).

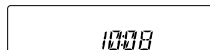


The minute indication flashes.

- 4 Press either side of (PRST/DISC) or (PRST) to set the minute.



- 2 Press (ENTER).



The clock starts.

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

Tips

- You can use the convenient CT function to set the clock automatically (page 19).
- When the D.INFO mode is set to ON, the time is always displayed (page 22).

Installation

Precautions

- If you mount other Sony equipment with this unit, it is better to mount this unit in the lower position.
- There must be a distance of at least 15 cm between the cassettes slot of the unit and shift lever to insert cassette easily. Choose the installation location carefully so the unit does not interfere with gear shifting and other driving operations.
- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperatures, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 20°.

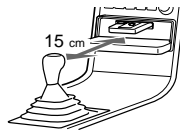
Instalación

Precauciones

- Si monta otro equipo Sony con esta unidad, es preferible montar esta unidad en la posición más baja.
- Para que sea posible insertar la cinta con facilidad, debe haber una distancia de al menos 15 cm entre la ranura de inserción de cintas de la unidad y la palanca de cambios. Instale la unidad en un lugar que no entorpezca las operaciones de cambio de marchas o de conducción en general.
- 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

Ajuste el ángulo de montaje a menos de 20°.



Montering

Säkerhetsföreskrifter

- Om du monterar annan Sony-utrustning till denna enhet är det bäst att montera denna enhet i det undre läget.
- För att du ska kunna sätta i och ta ut bandet måste avståndet vara minst 15 cm mellan kassettfacket på enheten och växelspaken. När du installerar enheten väljer du en plats så att enheten inte är i vägen när du kör.
- 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 monteringsstillbehören för att vara säker på att bilstereon monteras på ett säkert och korrekt sätt.

Tillåten monteringsvinkel

Monteringsvinkeln får inte vara större än 20 grader.

Instalação

Precauções

- É preferível montar este aparelho na posição mais baixa, se quiser montar simultaneamente outros equipamentos da Sony.
- Para colocar com facilidade a cassete, deve haver uma distância de pelo menos 15 cm entre a ranhura de introdução da cassete e a alavanca das mudanças.
- Escolha o local de instalação de forma a que o aparelho não interfira com as mudanças de velocidade ou com as outras manobras de condução.
- 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 hardware de montagem fornecido.

Ajuste do ângulo de montagem

Ajuste o ângulo de montagem a menos de 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 (A) in the front panel onto the spindle (B) on the unit as illustrated, then push the left side in.

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, cerciórese de pulsar (OFF). Después pulse (OPEN) a fin de abrirlo, después deslícelo hacia la derecha, y por último tire de su parte izquierda.

B Para instalarlo

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

Ta loss/fästa frontpanelen

Ta lossfrontpanelen 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 (A) på frontpanelen träns över axeln (B) på bilstereon enligt illustrationen. Tryck därefter frontpanelens vänstra del inåt.

Para retirar e colocar o painel frontal

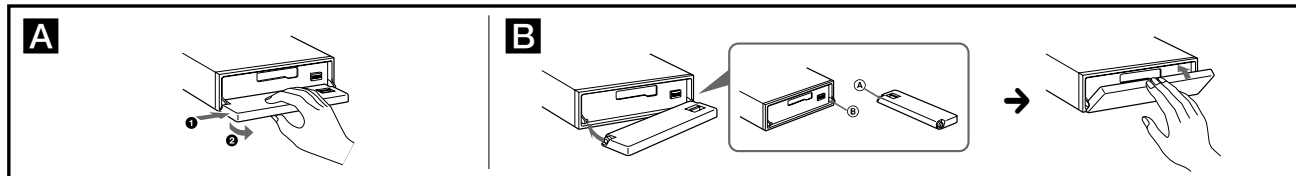
Retire o painel frontal antes de iniciar a instalação do aparelho.

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

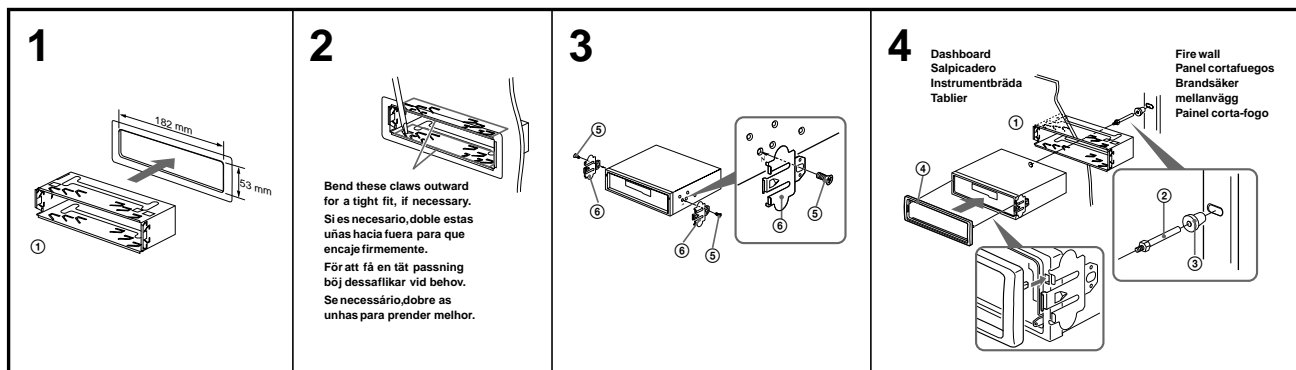


Installation in the dashboard

Instalación en el salpicadero

Montera på instrumentbrädan

Instalação no tablier



Reset button

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

Botón de restauración

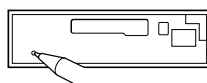
Cuando finalice la instalación y las conexiones, cerciórese de pulsar el botón de restauración con un bolígrafo, etc.

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, esferográfica, etc.



Connections

Cautions

- This unit is designed for negative earth 12 V DC operation only.
- Be careful not to pinch any wires between a 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 earth wires to a common earth 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.

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 turned off the engine.

When you press **(OFF)** momentarily, the clock display does not turn off and this causes battery wear.

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 ATA (Automatic Tuner Activation), AF (Alternative Frequency) or the TA (Traffic Announcement) function.
- A power aerial without a relay box cannot be used with this unit.
- When your car has a 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. 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 raíles 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.

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

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

Notas de ejemplo de conexiones

Notas sobre cables de control

- El cable de control (azul) de la antena motorizada suministra +12 V CC al activar el sintonizador o la función ATA (activación automática del sintonizador), 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 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 accesorio (rojo) al terminal de potencia del amplificador de antena existente. Para más información, consulte con el 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 ⑧ 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 podrá dañarse.
- 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 hiciera, podrá 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 tex. bilsätet.
- Anslut strömkabeln ⑧ till enheten och högtalarna innan du ansluter den till den yttre strömanslutningen.
- **Dra samtliga jordledningar till en och samma jordningspunkt.**
- Anslut den gula kabeln till en ledig bilkrets med ett högre amperetal än enhetens. Om du kopplar både denna enhet och andra stereokomponenter till en och samma bilkrets, måste den bilkrets de kopplas till ha en högre amperetal 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 ett högre amperetal än enhetens säkring, så att det är denna som går i stället för bilens.

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

Glöm inte att trycka på **(OFF)** på enheten under två sekunder för att stänga av klockans teckenfönster efter det att du har stängt av motorn.

Om du bara trycker på **(OFF)** ett kort ögonblick slocknar inte klockans teckenfönster vilket kan leda till att batteriet laddas ur.

Att observera angående anslutningsexemplet

Att observera angående de olika styrkablarna

- Motorantennens styrkabel (blå) leder +12 volts likström när kanalväljaren slås på eller när radiomottagningsautomatik ATA, mottagning av alternativ frekvenser AF eller mottagning av trafikmeddelanden TA aktiverats.
- En motorantenn utan styrrelä ska inte anslutas till denna bilstereo.
- Om bilen har en FM/MW/LW-antenn som är inbyggd i sidofönstret eller bakrutan, måste du ansluta motorantennens styrkabel (blå) eller tillbehörslägesströmkabeln (röd) till strömterminalen på antennförstärkaren. Din återförsäljare kan ge dig mer information.

Varning

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

Anslutning för minnesstöd

När du ansluter den gula, ingående strömkabeln försäkras minnesstretsen med ström hela tiden, även när tändlåset slås ifrån.

Att observera angående högtalarnas anslutning

- Själv 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 högtalarna 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 högtalartugg, eftersom de kan skada de aktiva högtalarna. Var noga med att bara ansluta passiva högtalare till dessa tuggar.

Ligações

Cuidado

- 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 para-choques e a carroceria 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 alifalantes antes de ligar ao conector de corrente auxiliar.
- **Ligue todos os cabos de massa num ponto de massa comum.**
- Ligue o cabo amarelo a um circuito eléctrico livre do automóvel, cuja potência nominal seja superior à dos fusíveis do aparelho. Se ligar este aparelho em série com outros componentes estéreo, a potência nominal do circuito eléctrico do automóvel onde os ligar tem de ser superior à soma da potência nominal dos fusíveis de todos os componentes individuais. Se não houver nenhum circuito eléctrico do automóvel com uma potência nominal 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 reventar os fusíveis respectivos, nenhum outro circuito seja cortado.

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

Verifique se carregou em **(OFF)** no aparelho durante dois segundos para desactivar o visor do relógio depois de ter desligado o motor. Se carregar ligeiramente em **(OFF)**, não desactiva o visor do relógio o que provoca o desgaste da bateria.

Notas sobre o exemplo de ligação

Notas sobre os fios de controlo

- O fio de controlo da antena eléctrica (azul) fornece +12 V CC quando ligar o sintonizador ou quando activar as funções ATA (Activação automática do sintonizador), AF (frequência alternativa) ou TA (Informação de trânsito).
- Não pode utilizar uma antena eléctrica sem caixa de relé com este aparelho.
- Se o seu automóvel tiver uma antena de FM/MW/LW montada no vidro traseiro/lateral, tem de ligar o fio de controlo da antena eléctrica (azul) ou o fio de entrada de alimentação para os acessórios (vermelho) ao terminal de alimentação do intensificador do sinal da antena existente.

Advertência

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.

Ligações para alimentação contínua da memória Quando o fio amarelo de entrada de alimentação ⑧ for ligado, os circuitos de memória ficarão com alimentação contínua, mesmo se a chave de ignição estiver desligada.

Notas sobre a ligação dos alifalantes

- Antes de ligar os alifalantes, desligue o aparelho.
- Utilize alifalantes com impedância de 4 a 8 ohm, e com capacidade admissível de potência adequada. Caso contrário, os alifalantes podem sofrer avarias.
- Não ligue os terminais do sistema de alifalantes ao chassi do automóvel, e não ligue os terminais do alifalante direito aos terminais do alifalante esquerdo.
- Não tente ligar os alifalantes em paralelo.
- Não ligue nenhum sistema de alifalantes activos (com amplificadores incorporados) aos terminais dos alifalantes do aparelho. Caso o faça, poderá avariar o sistema de alifalantes activos. Portanto, não se esqueça de ligar alifalantes passivos a estes terminais.

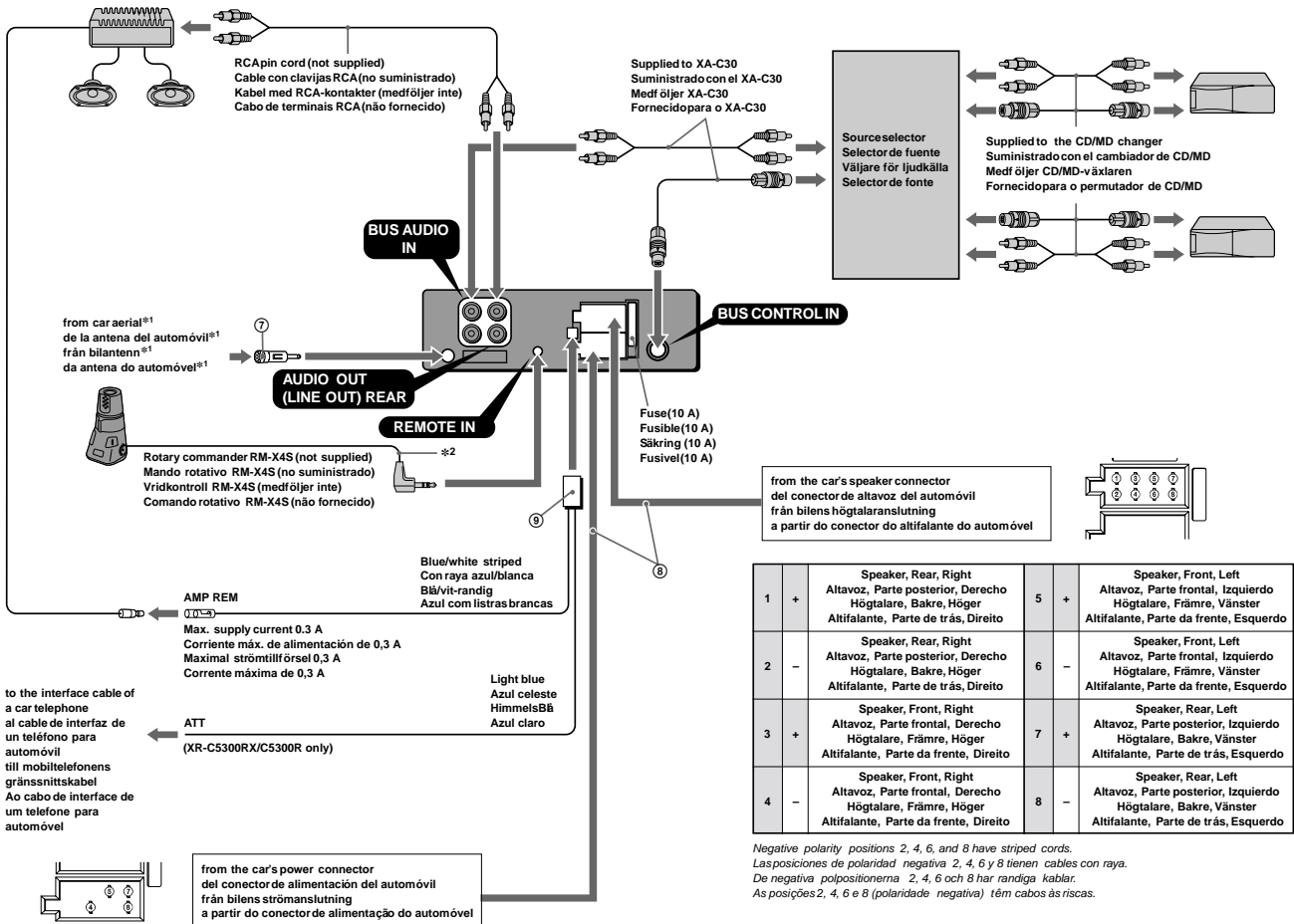
Connection example Ejemplo de conexiones Anslutningarna enligt exemplet Exemplo de ligações

***1 Note for the aerial connecting**
If your car aerial is an ISO (International Organization for Standardization) type, use the supplied adapter ① to connect it. First connect the car aerial to the supplied adapter, then connect it to the aerial jack of the master unit.
***2** Insert with the cord upwards.

***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 ① 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** Insertar con el cable hacia arriba.

***1 Angående antennanslutning**
Om bilantennen är av ISO-typ (International Organization for Standardization), använd du medföljande adapter ① för att ansluta den. Anslut först bilantennen till medföljande adapter och därefter till antennuttaget på huvudenheten.
***2** Sätt in med kabeln vänd uppåt.

***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 ① para fazer a ligação respectiva. Ligue primeiro a antena do automóvel ao adaptador fornecido e depois à tomada de antena do sistema principal.
***2** Inserir com o fio virado para cima.



1	+	Speaker, Rear, Right Altavoz, Parte posterior, Derecho Högtalare, Bakre, Höger Altifalante, Parte de trás, Direito	5	+	Speaker, Front, Left Altavoz, Parte frontal, Izquierdo Högtalare, Främre, Vänster Altifalante, Parte da frente, Esquerdo
2	-	Speaker, Rear, Right Altavoz, Parte posterior, Derecho Högtalare, Bakre, Höger Altifalante, Parte de trás, Direito	6	-	Speaker, Front, Left Altavoz, Parte frontal, Izquierdo Högtalare, Främre, Vänster Altifalante, Parte da frente, Esquerdo
3	+	Speaker, Front, Right Altavoz, Parte frontal, Derecho Högtalare, Främre, Höger Altifalante, Parte da frente, Direito	7	+	Speaker, Rear, Left Altavoz, Parte posterior, Izquierdo Högtalare, Bakre, Vänster Altifalante, Parte de trás, Esquerdo
4	-	Speaker, Front, Right Altavoz, Parte frontal, Derecho Högtalare, Främre, Höger Altifalante, Parte da frente, Direito	8	-	Speaker, Rear, Left Altavoz, Parte posterior, Izquierdo Högtalare, Bakre, Vänster Altifalante, Parte de trás, Esquerdo

Negative polarity positions 2, 4, 6, and 8 have striped cords.
Las posiciones de polaridad negativa 2, 4, 6 y 8 tienen cables con raya.
De negativa polpositionerna 2, 4, 6 och 8 har randiga kablar.
As posições 2, 4, 6 e 8 (polaridade negativa) têm cabos às riscas.

4	continuous power supply suministro de alimentación continua kontinuerlig strömförsörjning alimentação de corrente continua	7	switched power supply suministro conmutado de alimentación switchad strömförsörjning alimentação de corrente comutada
5	power aerial control control de antena motorizada motorantenn antena eléctrica	8	earth toma de tierra jord Terra

Positions 1, 2, 3 and 6 do not have pins.
Las posiciones 1, 2, 3 y 6 no disponen de terminales.
Positionerna 1, 2, 3 och 6 saknar stift.
As posições 1, 2, 3 e 6 não têm pinos.

Power connection

Power connectors may vary depending on the car. Check your car's power connector diagram to make sure the connections match correctly. There are two basic types. You may need to switch the positions of the jump connector. Before connecting the unit to the car's power supply, be sure to match the position of the jump connector to the car's pin order. If the power connector of your car does not match the connector on the unit, use the supplied connector ②. If you have any questions or problems connecting your unit that are not covered in this manual, please consult the car dealer.

WARNING

Jump connector

Check the pin position of the power connector of the car with the table below. If positions 4 and 7 are reversed, remove the jump connector and shift it to the rightmost position as shown in the illustration.

Conexión de alimentación

Los conectores de alimentación pueden variar en función del automóvil. Consulte el diagrama del conector de alimentación del automóvil para comprobar que las conexiones coinciden correctamente. Existen dos tipos básicos. Es posible que sea necesario cambiar las posiciones del conector de empalme. Antes de conectar la unidad al suministro de alimentación del automóvil, asegúrese de que la posición del conector de empalme coincide con el orden de terminales de dicho automóvil. Si el conector de alimentación del automóvil no coincide con el de la unidad, emplee el conector ② suministrado. Si desea realizar alguna consulta o solucionar algún problema referentes a la conexión de la unidad que no aparezcan en este manual, póngase en contacto con el concesionario automovilístico.

ADVERTENCIA

Conector de empalme

Compruebe la posición de terminal del conector de alimentación del automóvil con la tabla que aparece más abajo. Si las posiciones 4 y 7 se invierten, retire el conector de empalme y desplácelo hasta la posición del extremo derecho como se muestra en la ilustración.

Strömanslutningsschema

Strömanslutningarna kan variera beroende på vilken bil du har. Kontrollera bilens diagram över strömanslutningar för att kontrollera att anslutningarna passar ihop. Det finns två huvudtyper. Du kan behöva ändra positionerna på överkopplingen. Innan du ansluter enheten till bilens strömförsörjning bör du kontrollera att överkopplingens placering överensstämmer med bilens polordning. Om din bilströmanslutningar inte överensstämmer med anslutningen på enheten använder du det medföljande kontaktdonet ②. Om du har några frågor eller problem när det gäller anslutningen av enheten som inte tas upp i denna bruksanvisning kan du kontakta bilåterförsäljaren.

VARNING

Överkoppling

Jämför bilens strömanslutning med tabellen till nedan. Om positionerna 4 och 7 är omkastade tar du bort överkopplingen och flyttar den till positionen längst till höger.

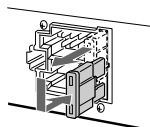
Diagrama de ligação de corrente

Os conectores de alimentação podem variar de automóvel para automóvel. Verifique o diagrama do conector de alimentação do seu automóvel, para ter a certeza de que a correspondência das ligações está correcta. Há dois tipos básicos. Pode ter que trocar as posições do cone etor de patilha. Antes de ligar o aparelho à fonte de alimentação do automóvel, não se esqueça de fazer a correspondência entre a posição do cone etor de patilha e a ordem dos pinos do automóvel. Se o conector de alimentação do seu automóvel não corresponder ao conector do aparelho, utilize os conector ② fornecido. Se tiver dúvidas ou problemas ao ligar o aparelho que não estejam referidos neste manual, consulte o vendedor do automóvel.

AVISO

Conector jump

Verifique a posição dos pinos do conector de alimentação do automóvel na tabela abaixo. Se as posições 4 e 7 estiverem invertidas, remova o conector jump e mude-o para a posição mais à direita, tal como se mostra na ilustração.



Connection diagram
Diagrama de conexiones
Kopplingsschema
Diagrama de ligações

Equipment used in illustrations (not supplied)

Equipo utilizado en las ilustraciones (no suministrado)

Utrustning som visas i illustrationer (medföljer inte)

Equipamento utilizado nas ilustrações (não fornecido)



Front speaker
 Altavoz delantero
 Framre högtalare
 Altifalante dianteiro



Power amplifier
 Amplificador de potencia
 Effektförstärkare
 Amplificador de potência

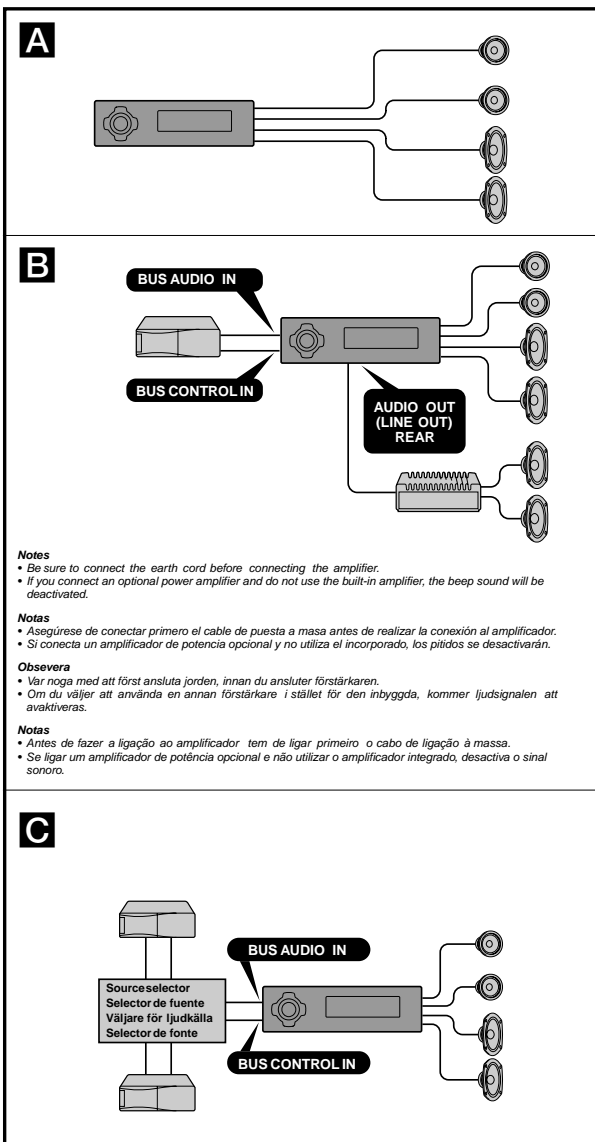


Rear speaker
 Altavoz trasero
 Bakre högtalare
 Altifalante traseiro



CD/MD changer
 Cambiador de CD/MD
 CD/MD-skivväxlare
 Permutador CD/MD

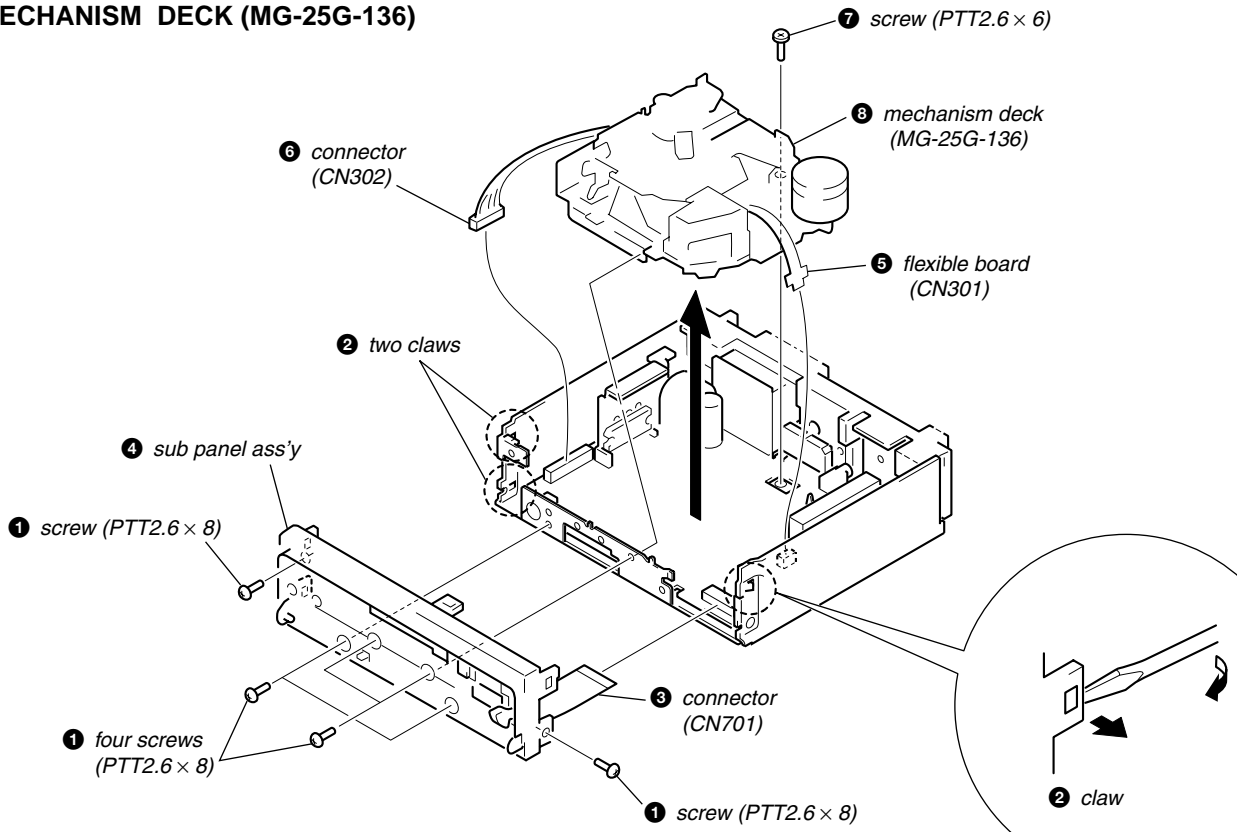
For connecting two or more changers, the source selector XA-C30 (optional) is necessary.
 Si desea conectar dos o más cambiadores, necesitará el selector de fuente XA-C30 (opcional).
 För anslutning av två eller flera växlare krävs väljaren XA-C30 (tillval).
 Para ligar um ou mais permutadores, é necessário o selector de fonte XA-C30 (opcional).



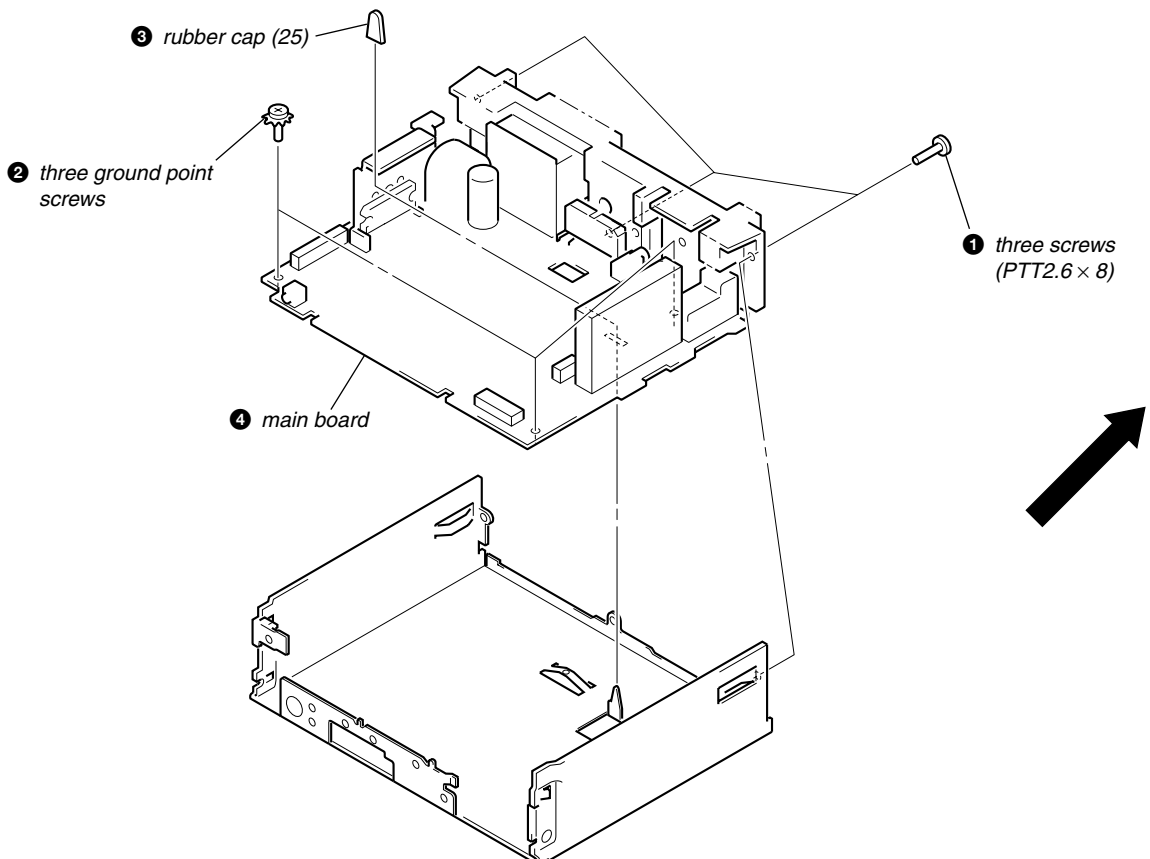
SECTION 2 DISASSEMBLY

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

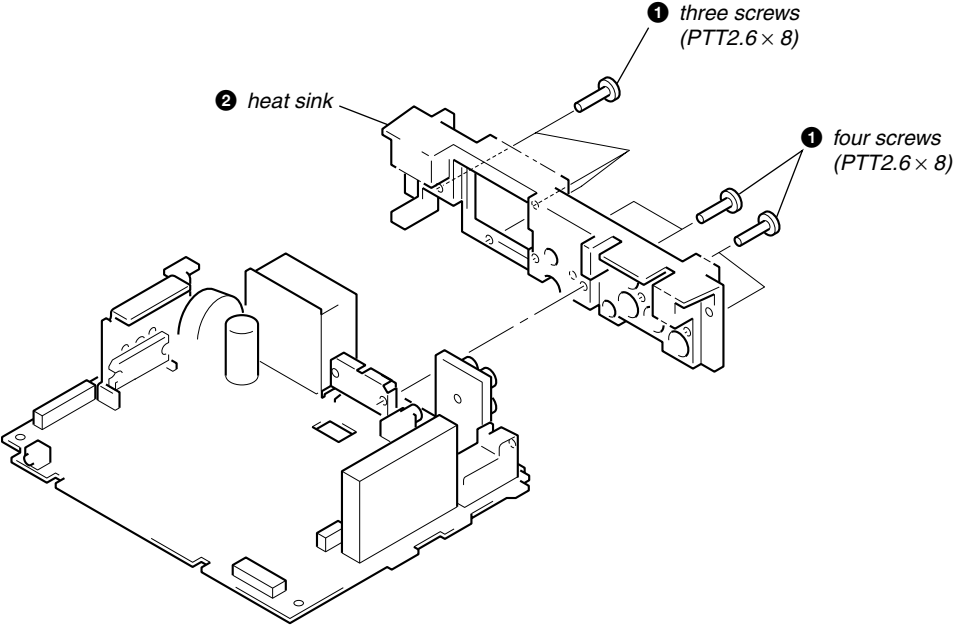
MECHANISM DECK (MG-25G-136)



MAIN BOARD



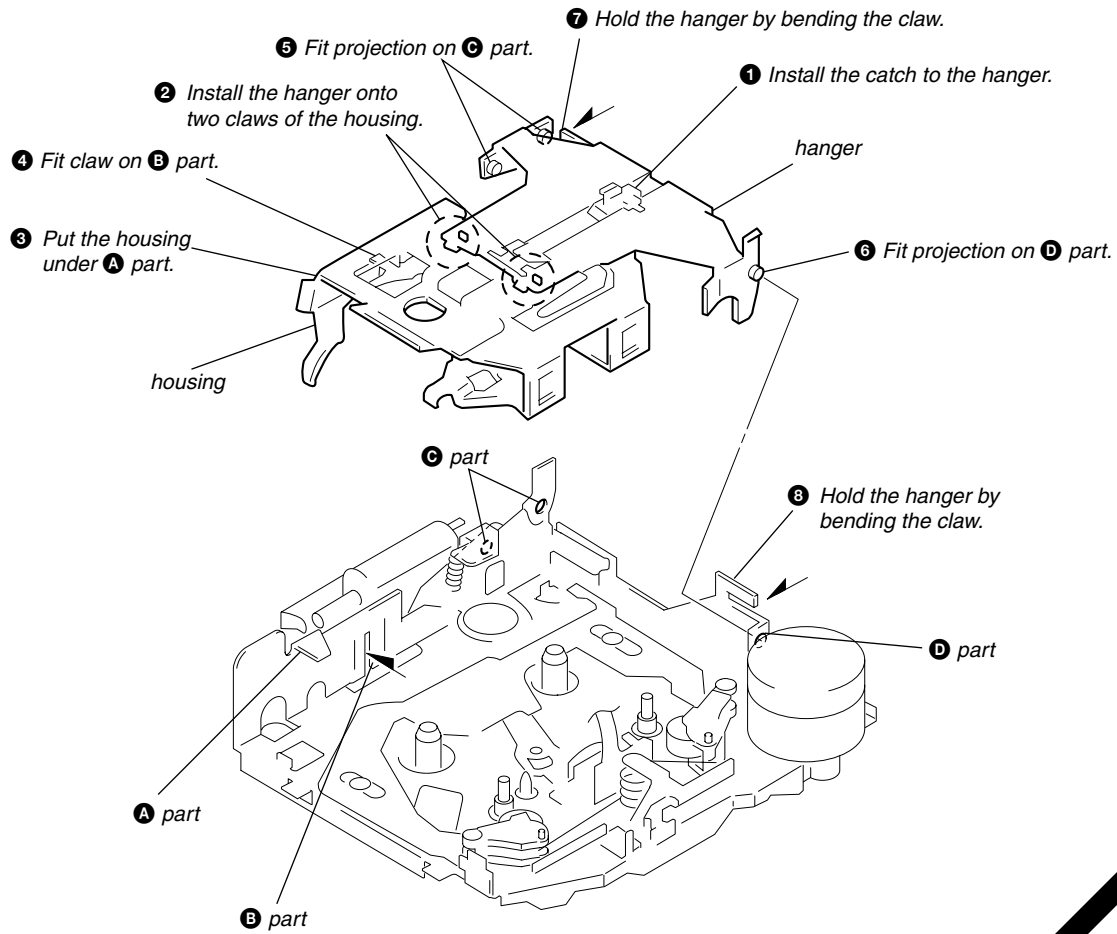
HEAT SINK



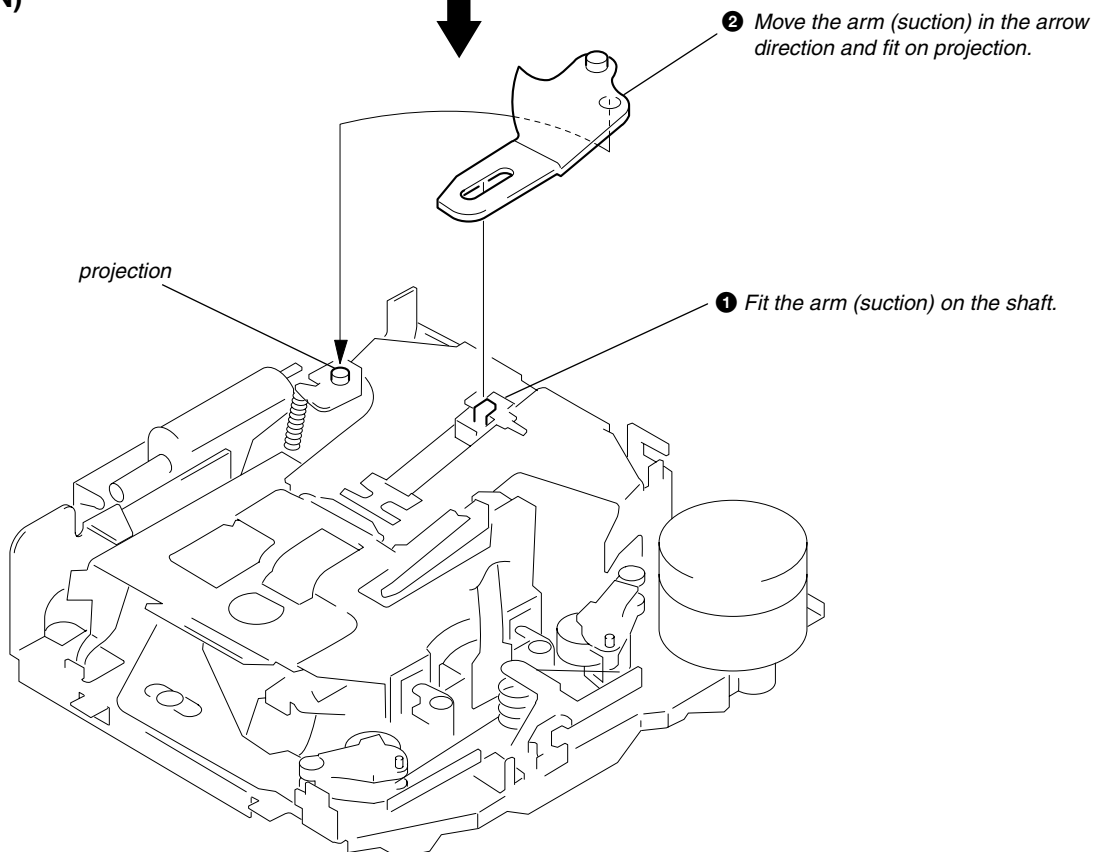
SECTION 3 ASSEMBLY OF MECHANISM DECK

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

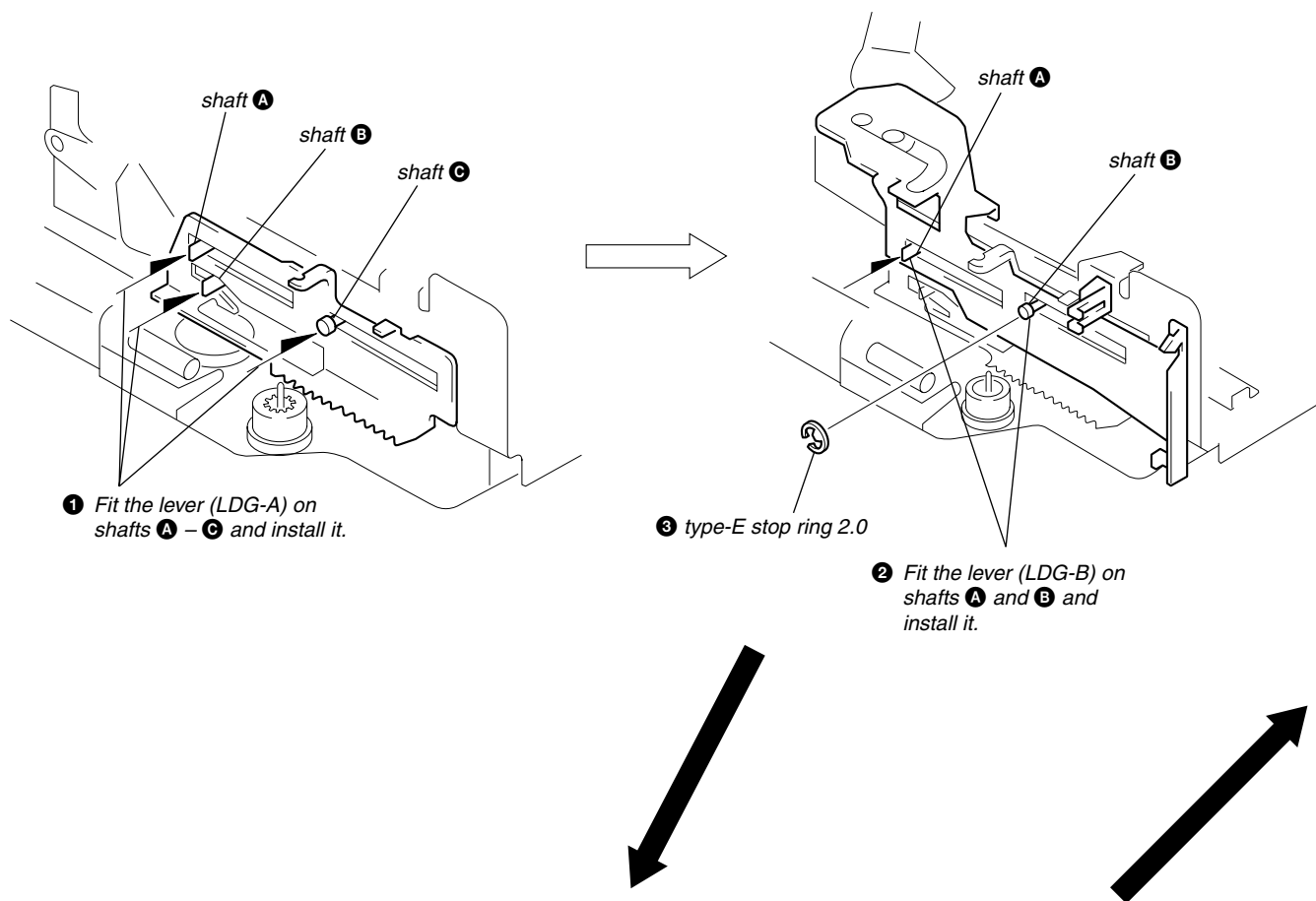
HOUSING



ARM (SUCTION)



LEVER (LDG-A) / (LDG-B)

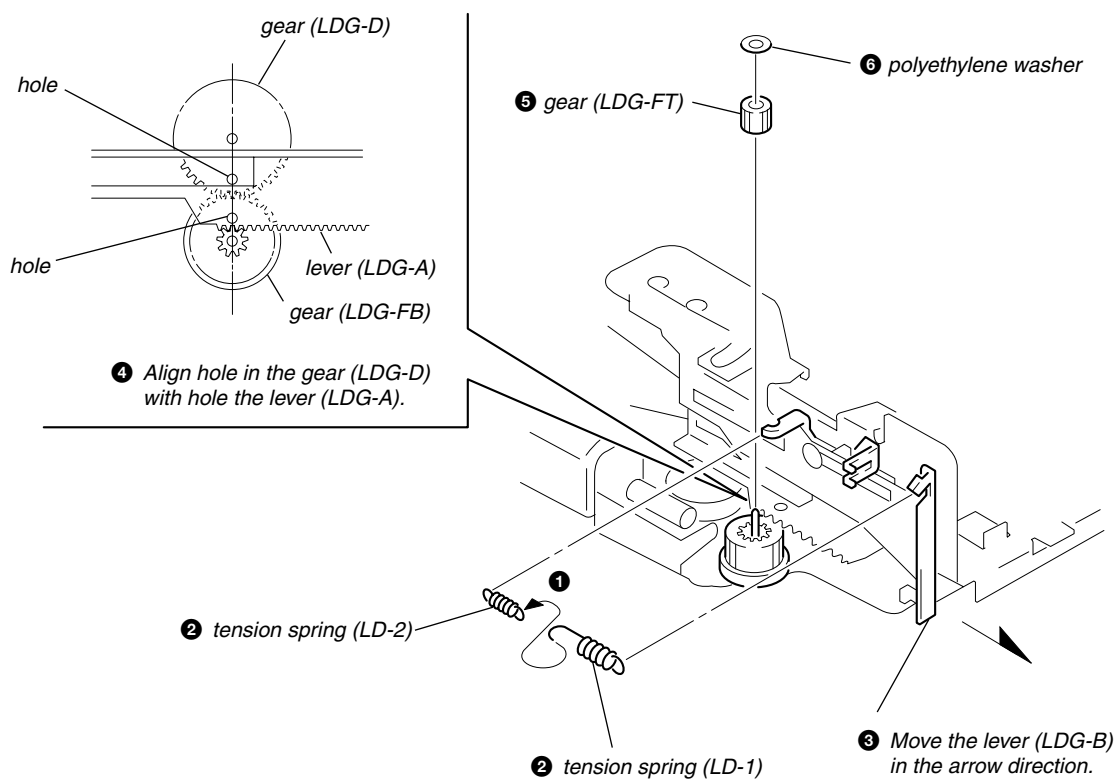


1 Fit the lever (LDG-A) on shafts A – C and install it.

3 type-E stop ring 2.0

2 Fit the lever (LDG-B) on shafts A and B and install it.

GEAR (LDG-FT)



4 Align hole in the gear (LDG-D) with hole the lever (LDG-A).

5 gear (LDG-FT)

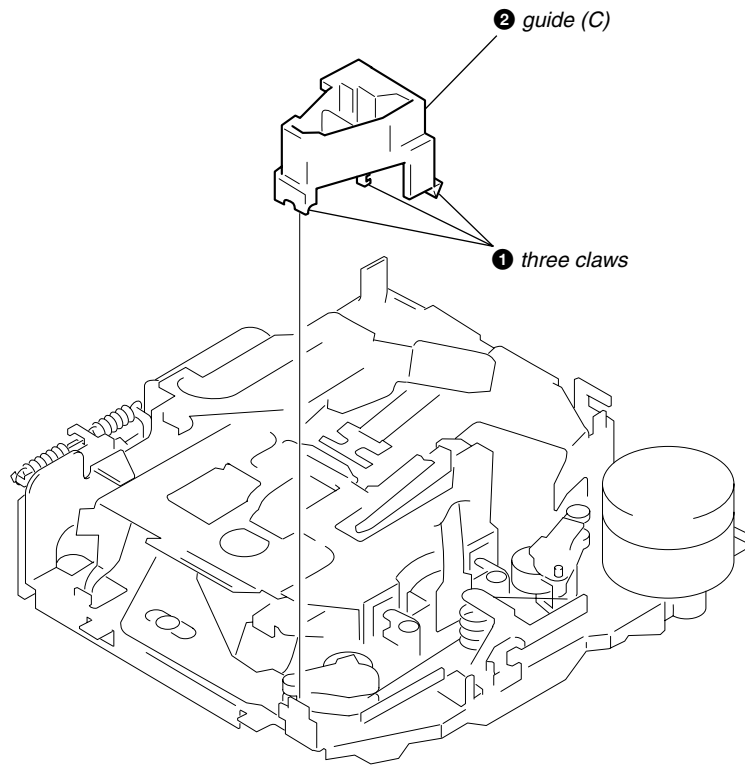
6 polyethylene washer

2 tension spring (LD-2)

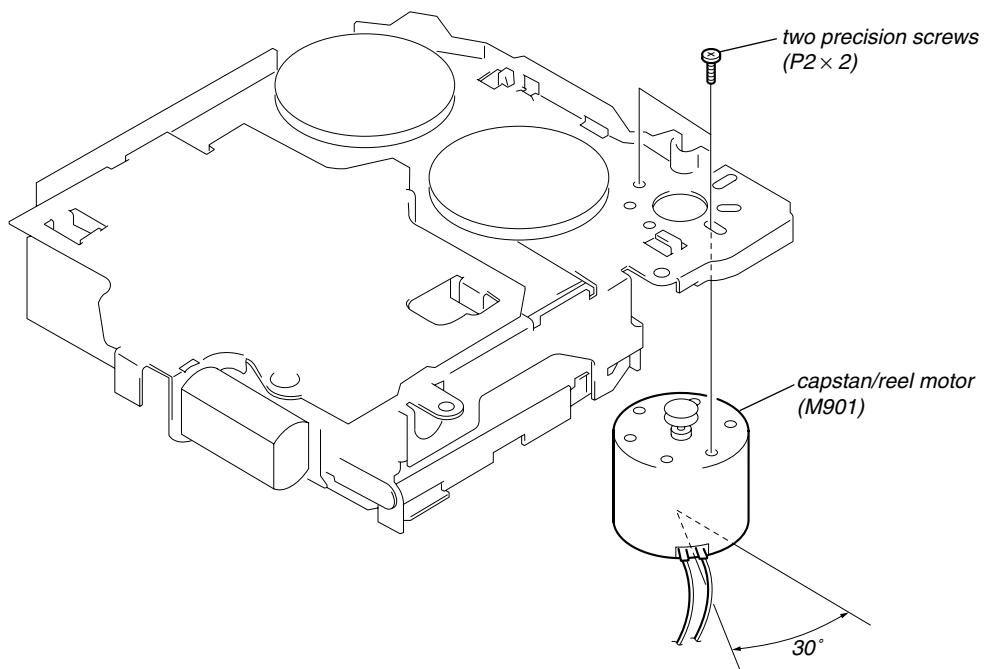
2 tension spring (LD-1)

3 Move the lever (LDG-B) in the arrow direction.

GUIDE (C)



MOUNTING POSITION OF CAPSTAN/REEL MOTOR (M901)



SECTION 4 MECHANICAL ADJUSTMENTS

- Clean the following parts with a denatured-alcohol-moistened swab:
 - playback head
 - pinch roller
 - rubber belt
 - capstan
 - idler
- Demagnetize the playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	2.95 – 6.37 mN•m (30 – 65 g•cm) (0.42 – 0.90 oz•inch)
Forward Back Tension	CQ-102C	0.05 – 0.44 mN•m (0.5 – 4.5g•cm) (0.01 – 0.06 oz•inch)
Reverse	CQ-102RC	2.95 – 6.37 mN•m (30 – 65 g•cm) (0.42 – 0.90 oz•inch)
Reverse Back Tension	CQ-102RC	0.05 – 0.44 mN•m (0.5 – 4.5g•cm) (0.01 – 0.06 oz•inch)
FF, REW	CQ-201B	5.89 – 19.61 mN•m (60 – 200 g•cm) (0.83 – 2.78 oz•inch)

• Tape Tension Measurement

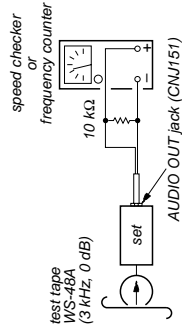
Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 8.83 mN•m (more than 90 g) (more than 3.18 oz)
Reverse	CQ-403R	more than 8.83 mN•m (more than 90 g) (more than 3.18 oz)

SECTION 5 ELECTRICAL ADJUSTMENTS

TAPE DECK SECTION 0 dB=0.775 V

Tape Speed Adjustment

Setting:



Procedure:

- Put the set into the FWD PB mode.
- Adjust adjustment resistor for inside capstan motor so that the reading on the speed checker or frequency counter becomes in specification.

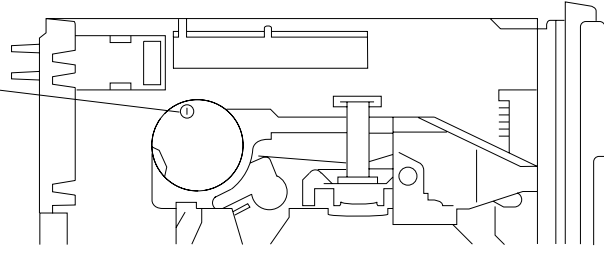
Specification: Constant speed

Speed checker	Frequency counter
-1.5 to +2.5%	2,955 to 3,075 Hz

Adjustment Location:

– SET UPPER VIEW –

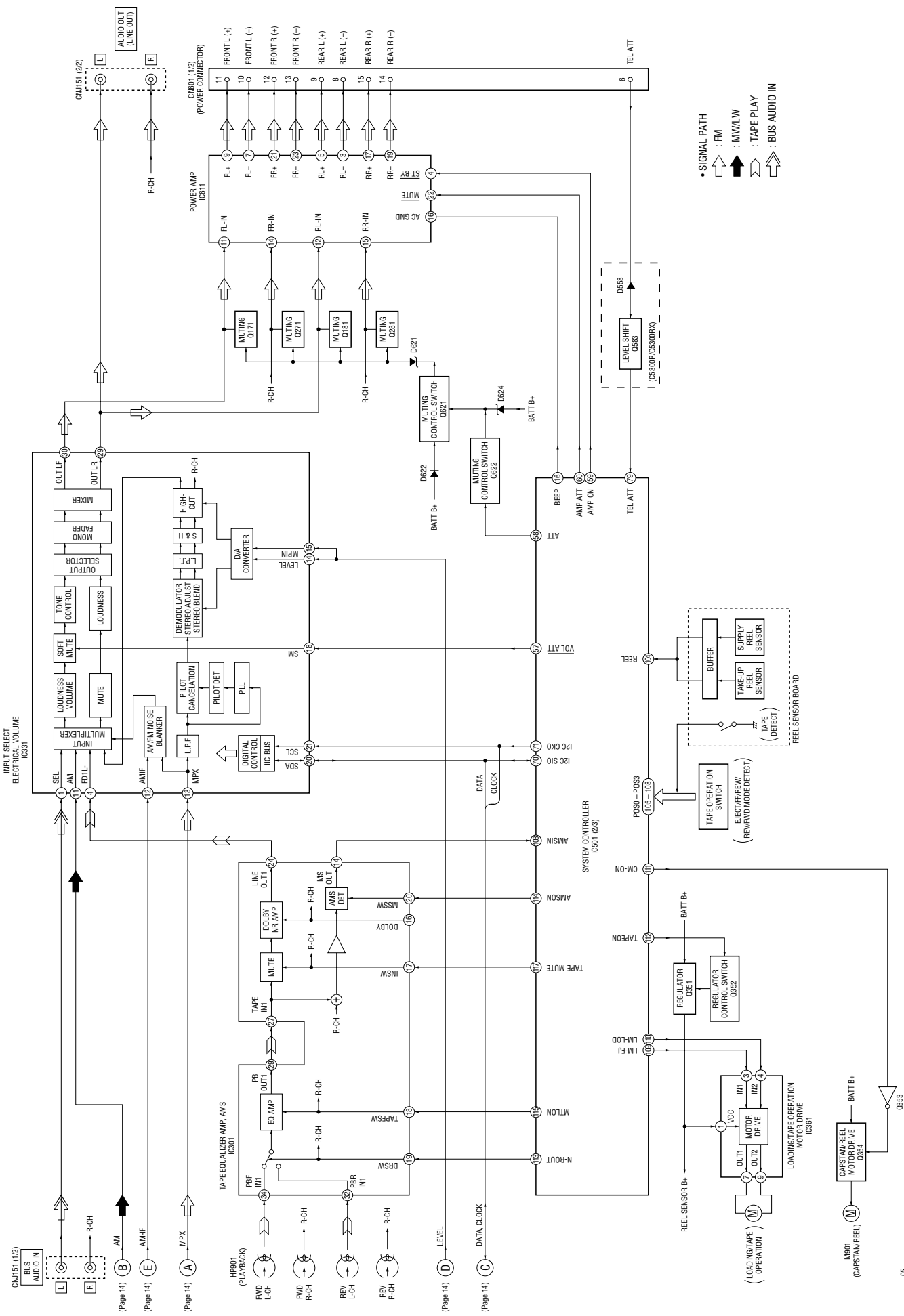
Tape Speed Adjustment



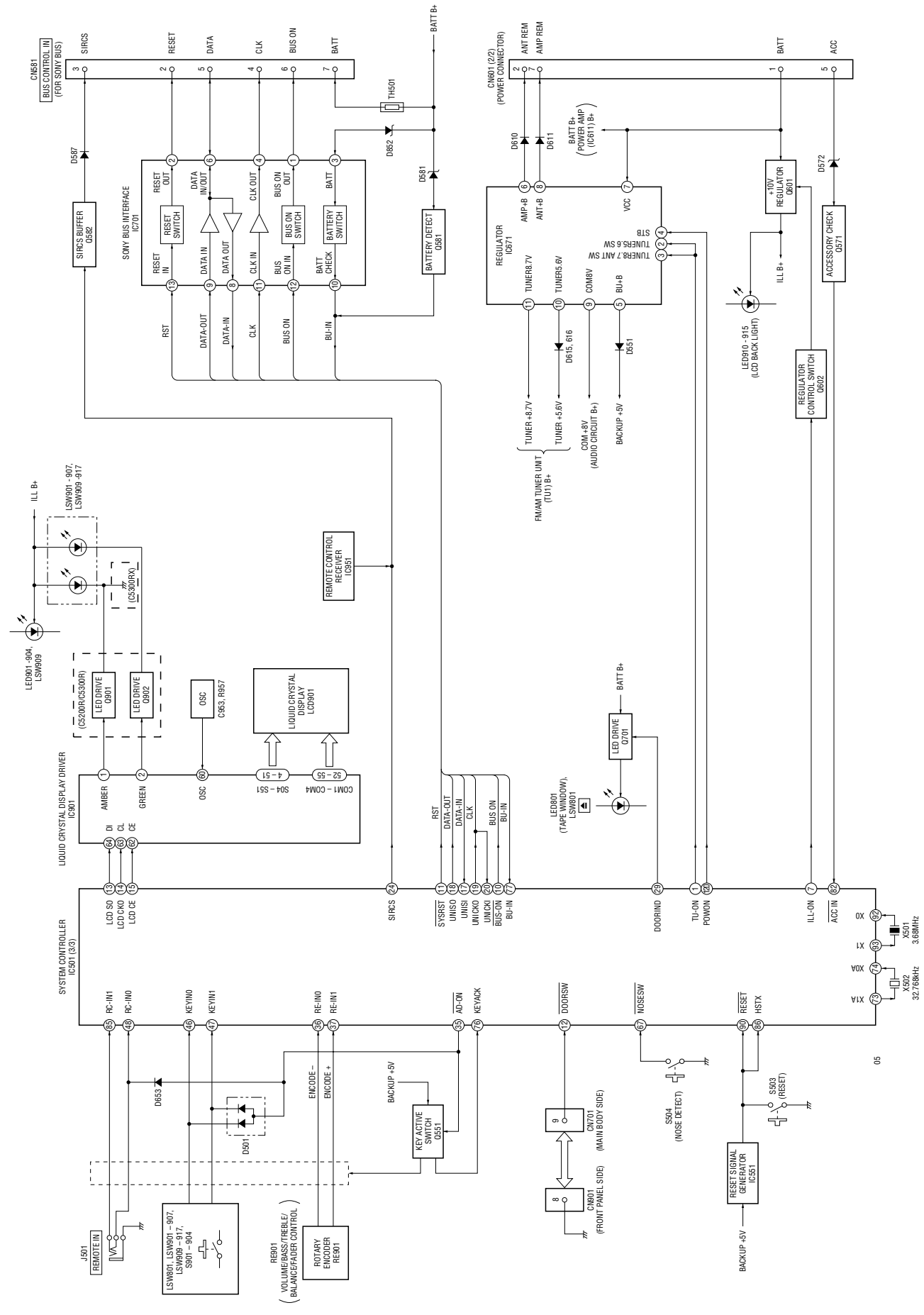
TUNER SECTION

Tuner section adjustments are done automatically in this set.

6-2. BLOCK DIAGRAM - TAPE/MAIN Section -



6-3. BLOCK DIAGRAM - DISPLAY/KEY CONTROL/BUS CONTROL/POWER SUPPLY Section -



6-4. 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.
- ▨ : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Caution:

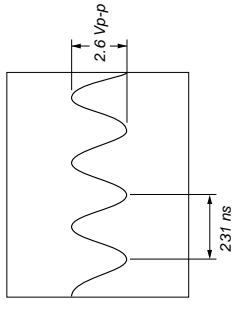
Pattern face side: Parts on the pattern face side seen from (Conductor Side) the pattern face are indicated.
 Parts face side: Parts on the parts face side seen from (Component Side) the parts face are indicated.

Note on Schematic Diagram:

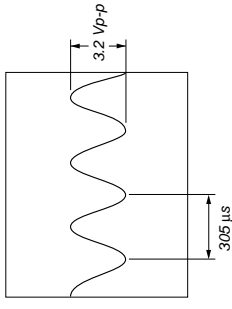
- All capacitors are in μF unless otherwise noted. pF: μF and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- Δ : internal component.
- \square : panel designation.
- $\square \pm$: B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
- () : MW/LW
- (< >) : TAPE PLAYBACK
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- FM
- MW/LW
- BUS AUDIO IN
- TAPE PLAYBACK

• Waveforms – MAIN Board –

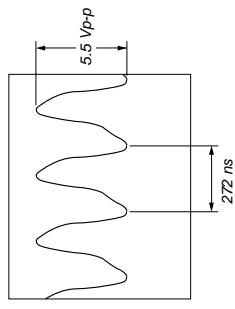
① IC51 ⑤ (OSC)



② IC501 ⑩ (X1A)

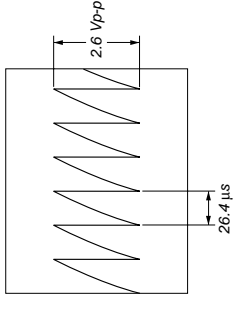


③ IC501 ⑥ (X1)

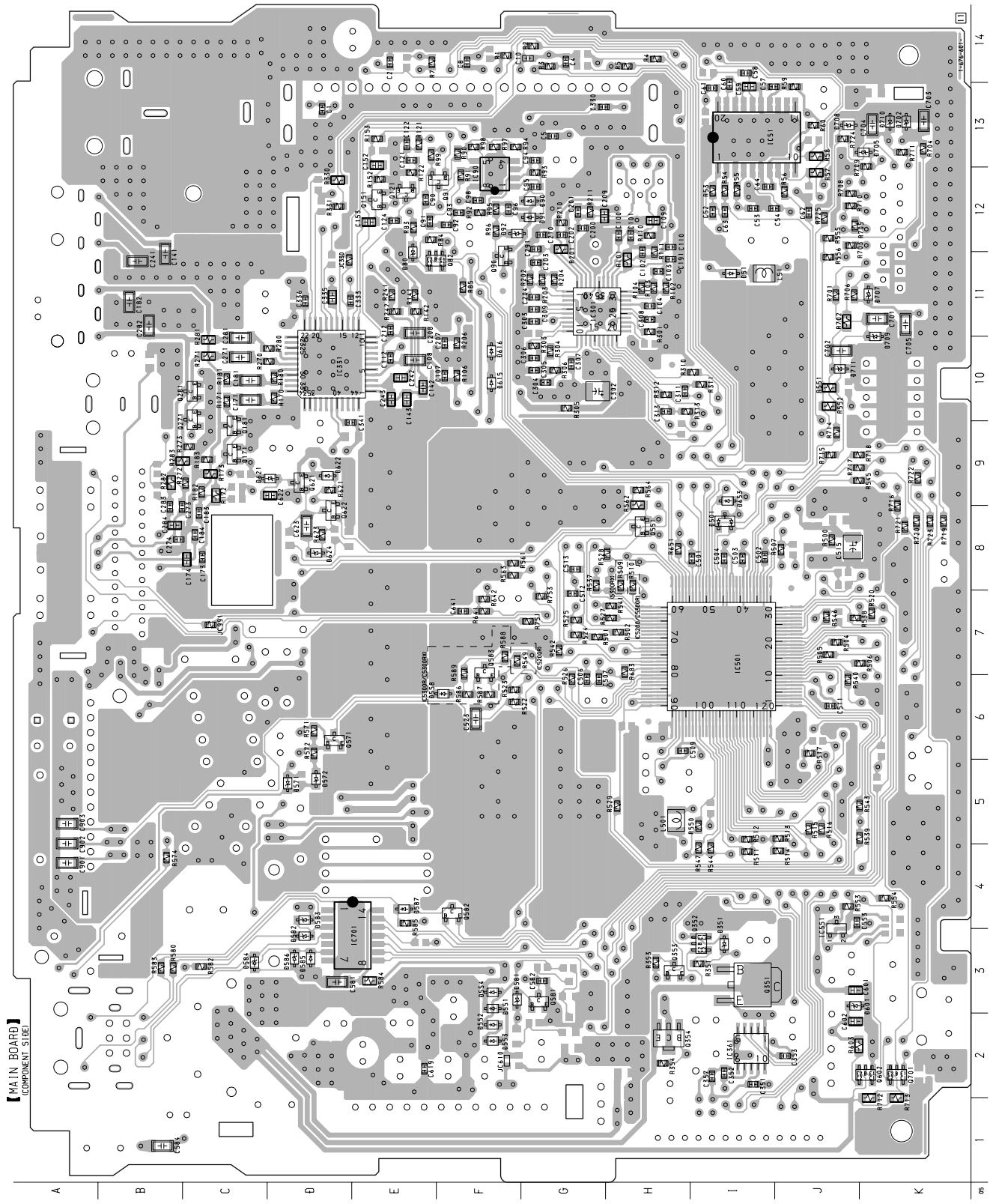


– KEY Board –

① IC901 ⑥ (OSC)



6-5. PRINTED WIRING BOARD – MAIN BOARD (Component Side) –

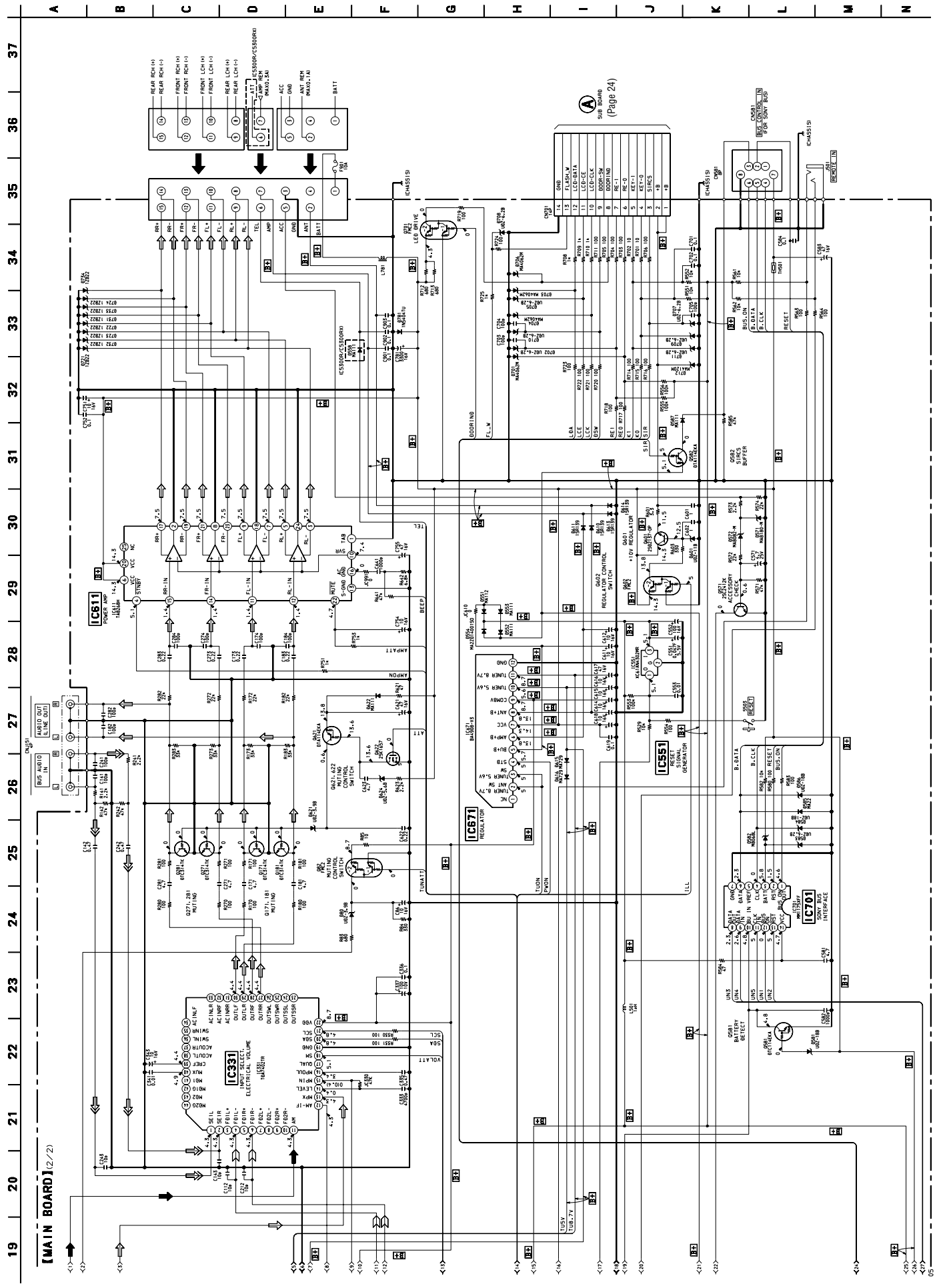


【MAIN BOARD】
(COMPONENT SIDE)

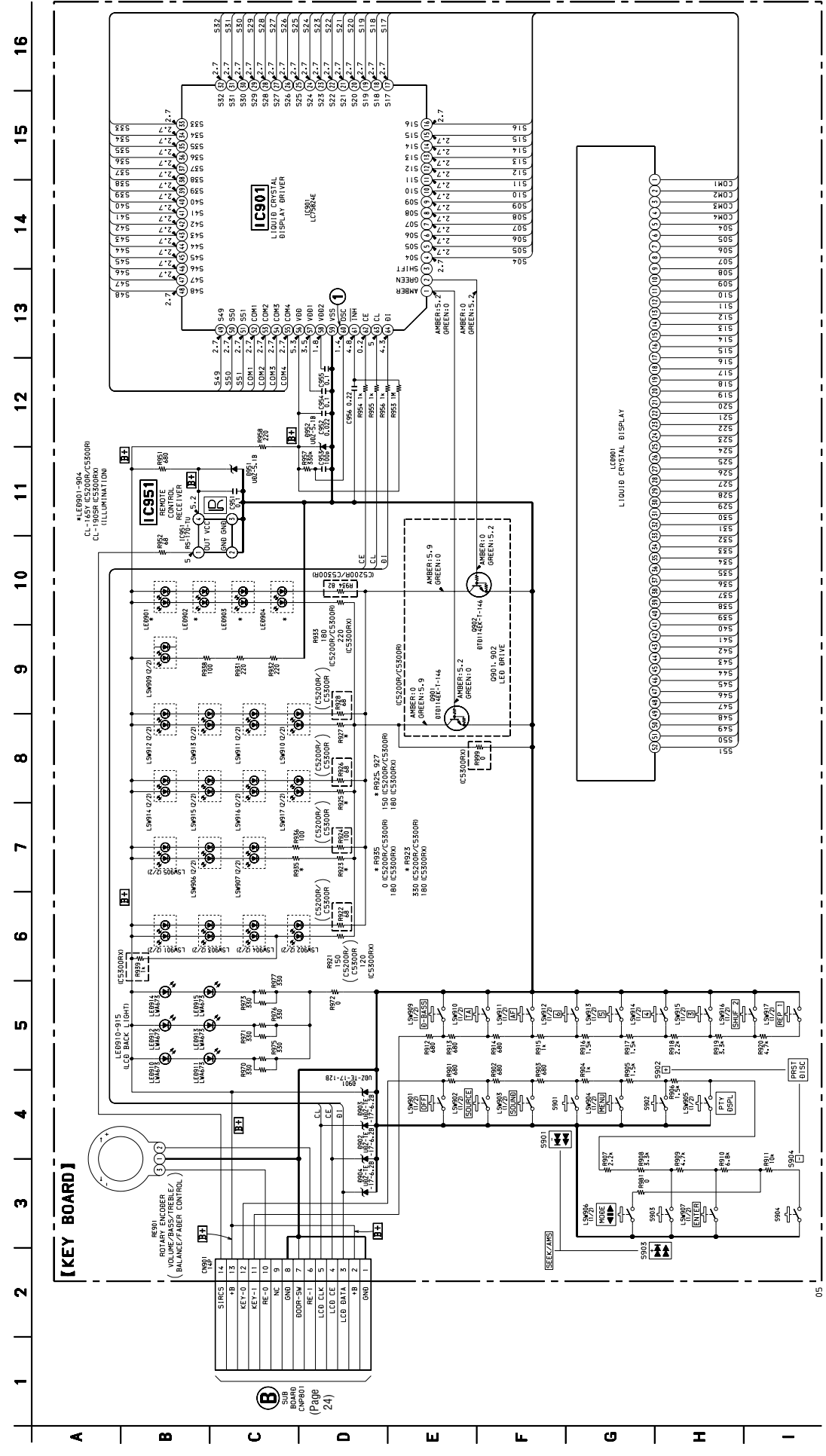
• Semiconductor
Location

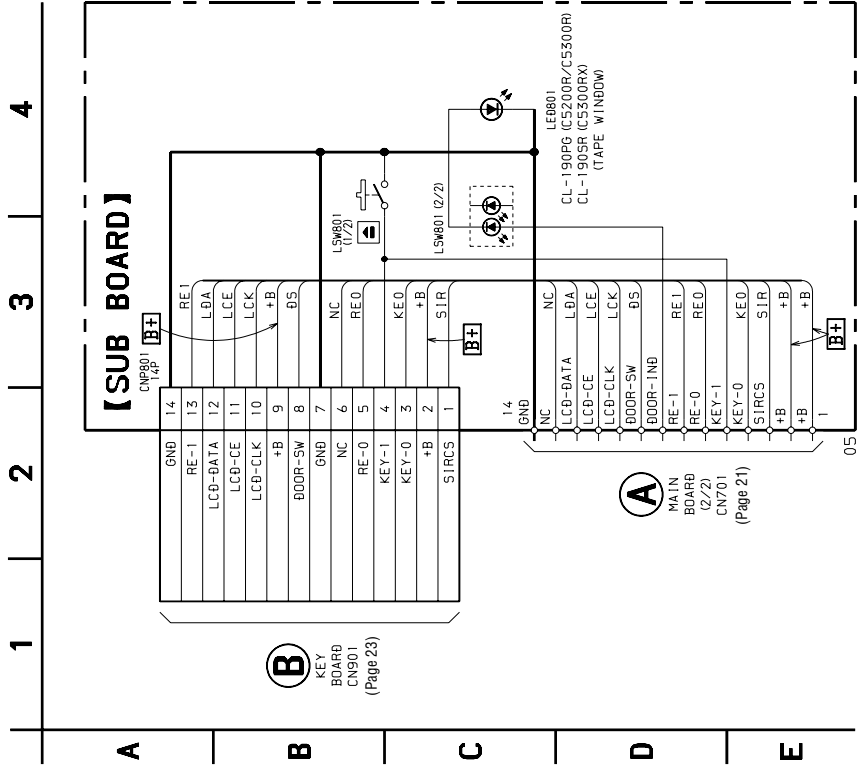
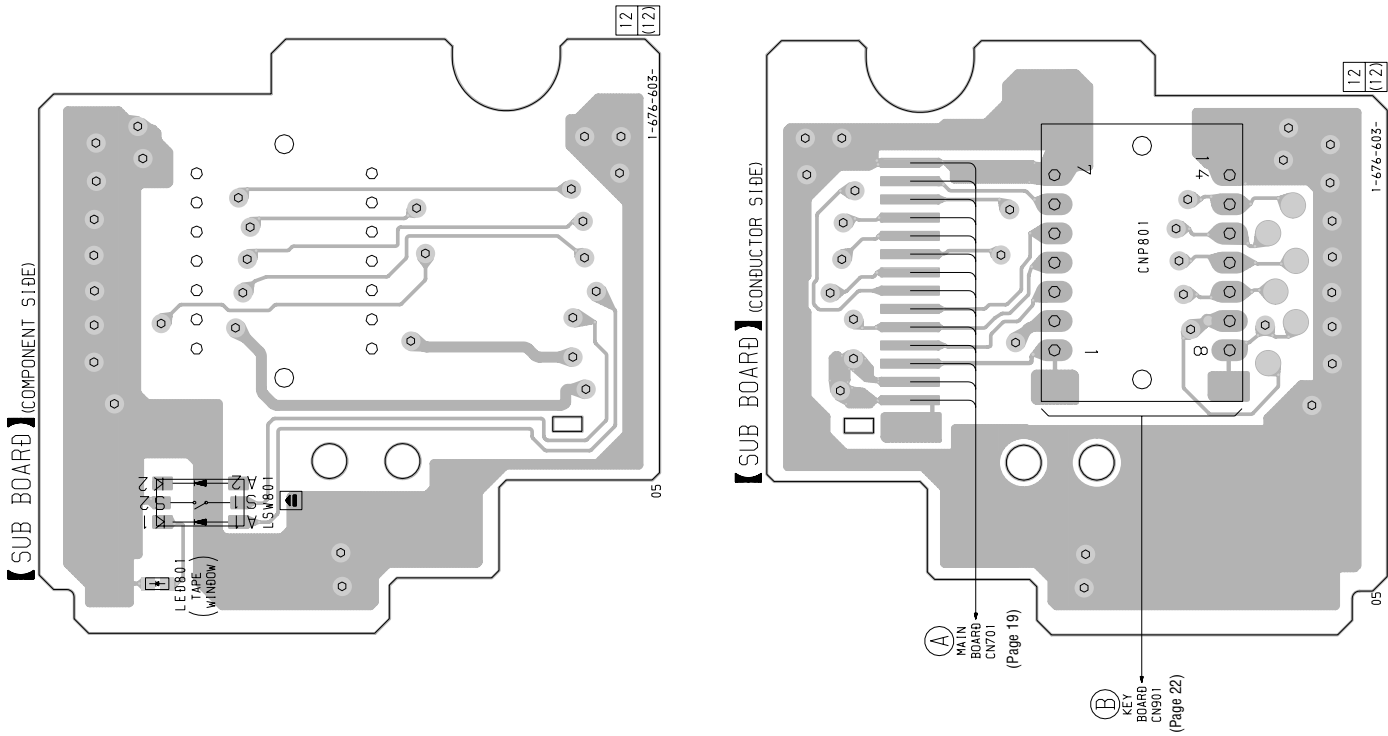
Ref. No.	Location
D51	I-11
D80	E-11
D90	G-12
D91	G-12
D92	F-12
D351	I-3
D501	I-8
D551	F-3
D552	F-2
D553	F-2
D554	F-3
D558	F-6
D571	D-5
D572	D-5
D581	F-3
D582	D-3
D583	D-4
D584	C-3
D585	D-3
D586	D-3
D587	E-4
D601	J-3
D615	F-10
D616	F-10
D621	D-9
D622	D-9
D624	D-8
D653	I-9
D705	K-13
D702	K-13
D707	K-11
D708	J-13
D709	K-13
D710	K-13
D711	J-10
IC51	I-13
IC90	F-12
IC301	G-11
IC331	D-10
IC361	I-2
IC501	I-7
IC551	J-3
IC701	D-4
O82	F-11
O90	F-11
O91	F-12
O121	E-12
O151	E-12
O171	C-9
O181	C-9
O271	C-10
O281	C-10
O351	I-3
O352	I-3
O353	H-3
O354	H-2
O351	H-8
O571	D-6
O581	G-3
O582	F-4
O583	F-7
O602	K-2
O621	D-8
O622	D-8
O701	K-2

6-8. SCHEMATIC DIAGRAM - MAIN Board (2/2) - • See page 25 for IC Block Diagrams.



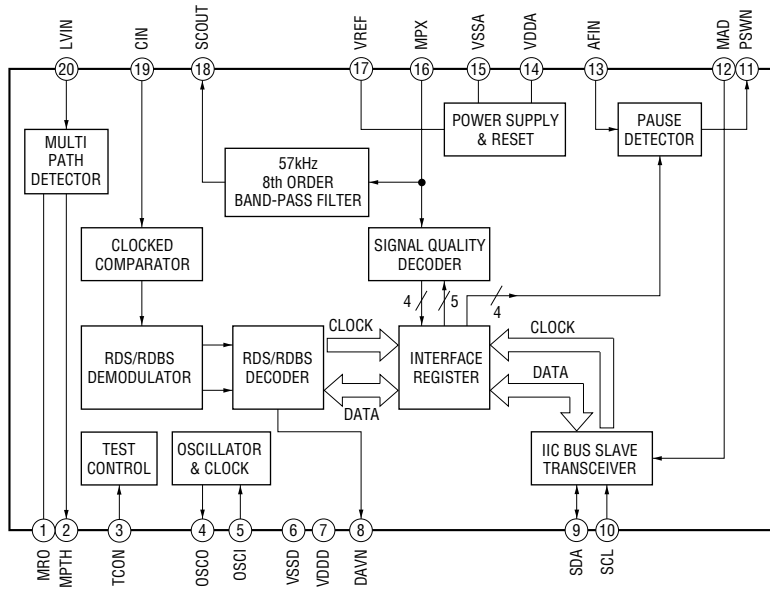
6-10. SCHEMATIC DIAGRAM – KEY BOARD – • See page 17 for Waveforms.



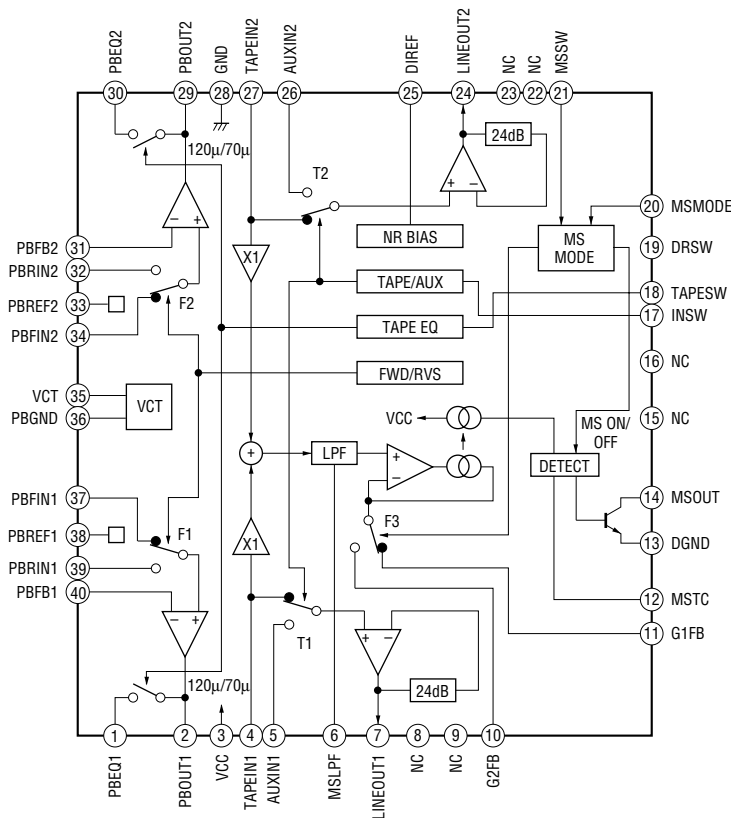


• IC Block Diagrams
 – MAIN BOARD –

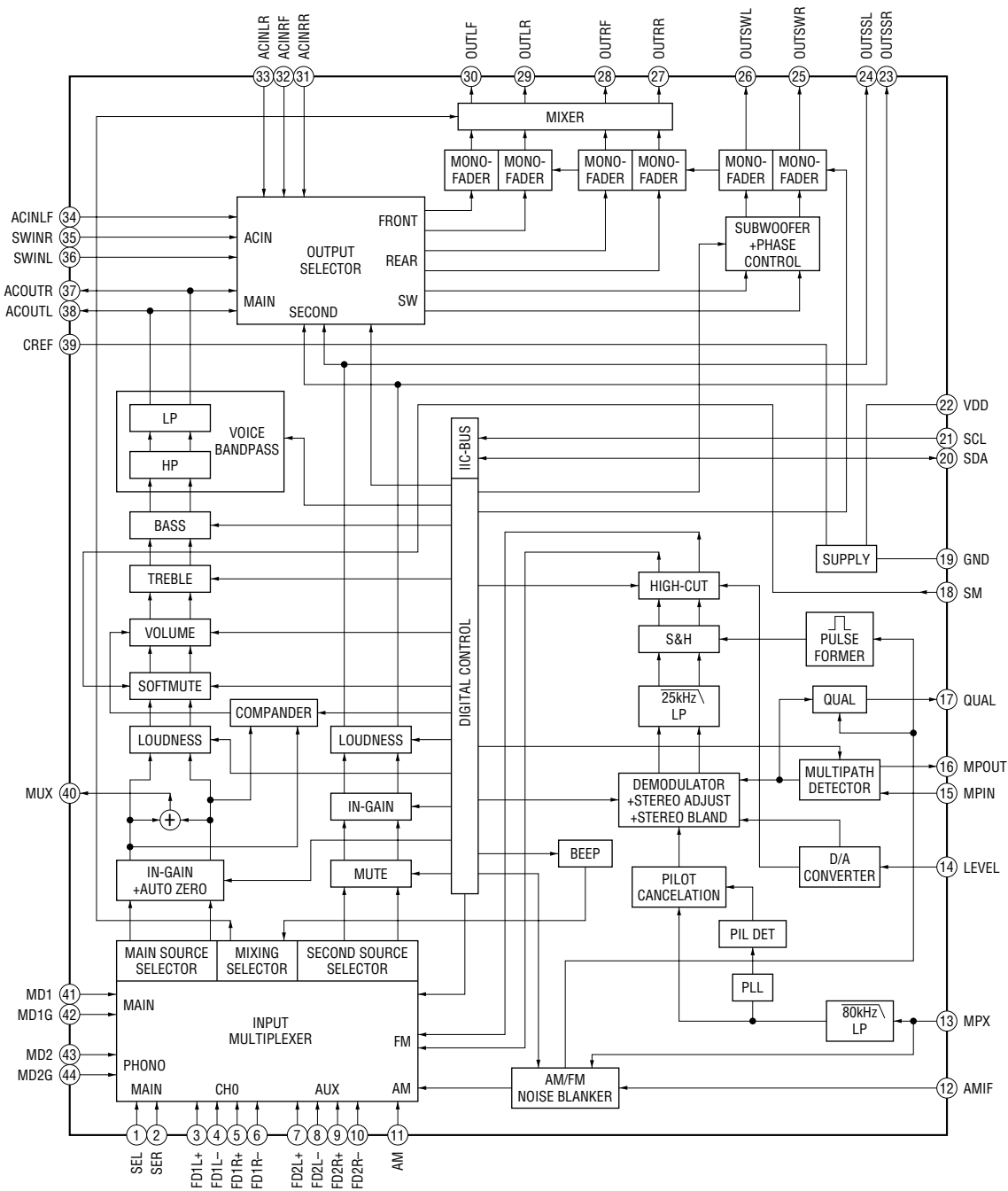
IC51 SAA6588T/V2-118



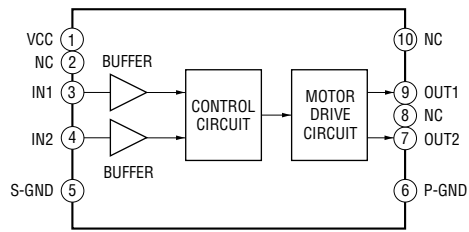
IC301 CXA2509AQ-T4



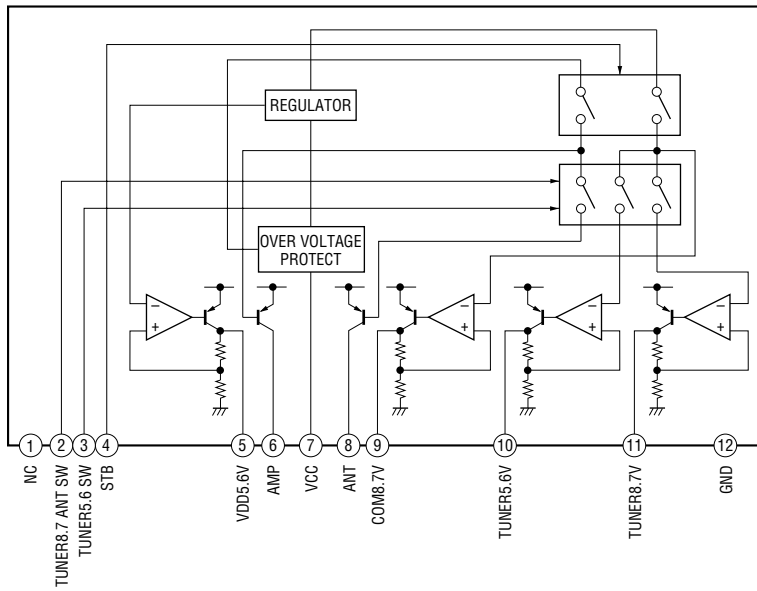
IC331 TDA7402TR



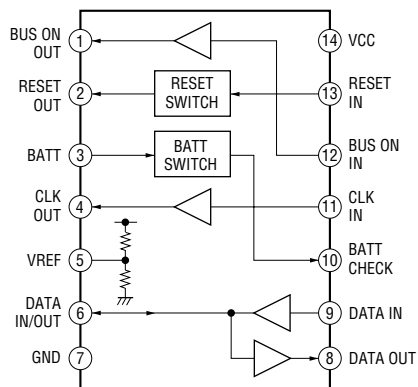
IC361 LB1930M-TLM



IC671 BA4908-V3



IC701 MM1175XFF



6-13. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC501 MB90574BPMT-G-267-BND (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	TU-ON	O	Tuner system power supply on/off control signal output to the BA4908 (IC671) “H”: tuner power on
2	ANT CUT	O	Tuner system power supply on/off control signal output terminal “H”: tuner power on Not used (open)
3	<u>BUS-ON</u>	O	Bus on/off control signal output to the SONY bus interface (IC701) “L”: bus on
4 to 6	NCO	O	Not used (open)
7	ILL-ON	O	Power on/off control signal output of the illumination LED and liquid crystal display driver (IC901) “H”: power on
8	VCC	—	Power supply terminal (+5V)
9	E2P SIO	I/O	Two-way data bus with the FM/AM tuner unit (TU1)
10	E2P CKO	I/O	Two-way data bus with the FM/AM tuner unit (TU1)
11	<u>SYSRST</u>	O	Reset signal output to the SONY bus interface (IC701) “L”: reset
12	<u>DOORSW</u>	I	Front panel open/close detection signal input “L” is input when the front panel is closed
13	LCD SO	O	Serial data output to the liquid crystal display driver (IC901)
14	LCD CKO	O	Serial data transfer clock signal output to the liquid crystal display driver (IC901)
15	LCD CE	O	Chip enable signal output to the liquid crystal display driver (IC901) “H” active
16	BEEP	O	Beep sound drive signal output terminal
17	UNISI	I	Serial data input from the SONY bus interface (IC701)
18	UNISO	O	Serial data output to the SONY bus interface (IC701)
19	UNICKO	O	Serial data transfer clock signal output to the SONY bus interface (IC701)
20	UNICKI	I	Serial data transfer clock signal input from the SONY bus interface (IC701)
21	CD/MD	I	CD/MD selection signal input terminal Not used (fixed at “L” in this set)
22	<u>FLASH-W</u>	I	Internal flash memory data write mode detection signal input terminal “L”: data write mode Not used (fixed at “H” in this set)
23	NCO	O	Not used (open)
24	SIRCS	I	Sircs remote control signal input form the remote control receiver (IC951)
25 to 28	NCO	O	Not used (open)
29	DOOR-IND	O	LED drive signal output of the door indicator (LED801) “H”: LED on “H” is output to turn on LED when front panel is opened
30	IFWIDTH	I	IF band detection signal input terminal Not used (open)
31	NCO	O	Not used (open)
32	NS MASK	O	Discharge control signal output for the noise detection circuit “H”: discharge
33	VSS	—	Ground terminal
34	C	—	Connected to coupling capacitor for the power supply
35	<u>AD-ON</u>	O	A/D converter power control signal output terminal When the KEYACK (pin ⑦) that controls reference voltage power for key A/D conversion input is active, “L” is output from this terminal to enable the input
36	RE-IN0	I	Dial pulse input of the rotary encoder (RE901) (for VOLUME/BASS/TREBLE/BALANCE/FADER control)
37	RE-IN1	I	
38	DVCC	—	Power supply terminal (+5V) (for D/A converter)
39	DVSS	—	Ground terminal (for D/A converter)
40, 41	NCO	O	Not used (open)
42	AVCC	—	Power supply terminal (+5V) (for A/D converter)
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 A/D converter)

Pin No.	Pin Name	I/O	Description
46	KEYIN0	I	Key input terminal (A/D input) (LSW901 to LSW907, S901 to S904) OFF, SOURCE, SOUND, MENU, PTY DSPL, MODE ◀▶, ENTER, SEEK/AMS ◀◀ ◀◀-, PRST DISC+, SEEK/AMS ▶▶▶ ▶▶▶+, PRST DISC- keys input
47	KEYIN1	I	Key input terminal (A/D input) (LSW801, LSW909 to LSW917) ▲, D-BASS, TA, AF, 6, 5, 4, 3, SHIFT 2, REP 1 keys input
48	RC-IN0	I	Rotary remote commander key input terminal (A/D input)
49	DSTSEL	I	Destination setting terminal (fixed at "L")
50	QUALITY	I	Noise level detection signal input at SEEK mode (A/D input)
51	FMAGC	I	FM AGC level detection signal input from the FM/AM tuner unit (TU1) (A/D input)
52	MPTH	I	Multi-path detection signal input from the RDS decoder (IC51)
53	VSM	I	FM and AM signal meter voltage detection input from the FM/AM tuner unit (TU1) (A/D input)
54	VCC	—	Power supply terminal (+5V)
55	<u>RAMBU</u>	I	Internal RAM reset detection signal input terminal Input terminal to check that RAM data are not destroyed due to low voltage This checking is made within 100 msec after reset Fixed at "H" in this set
56	TUNATT	O	Muting on/off control signal output of the FM and AM tuner signal "H": muting on
57	<u>VOL ATT</u>	O	Muting control signal output to the electrical volume (IC331) Volume minimum: "∞" output ("H" active)
58	ATT	O	Audio line muting on/off control signal output terminal "H": muting on
59	AMP ON	O	Standby on/off control signal output to the power amplifier (IC611) "L": standby mode, "H": amp on
60	<u>AMP ATT</u>	O	Muting on/off control signal output to the power amplifier (IC611) "L": muting on
61	COLSW	I	Setting terminal for the illumination color "L": 2 colors, "H": 1 color (fixed at "L" in XR-C5200R/C5300R, fixed at "H" in XR-C5300RX)
62	COLSEL	I	Setting terminal for the illumination color "L": amber, "H": green
63	VSS	—	Ground terminal
64	DAVN	I	Data transmit completed detect signal input from the RDS decoder (IC51) "H" active
65	FILE	I	Setting terminal for the custom file (fixed at "L" in this set)
66	TEXT	I	Setting terminal for the CD text (fixed at "L" in this set)
67	<u>NOSESW</u>	I	Front panel block remove/attach detection signal input terminal "L": front panel is attached
68, 69	NCO	O	Not used (open)
70	I2C SIO	I/O	Two-way data bus with the RDS decoder (IC51), electrical volume (IC331) and FM/AM tuner unit (TU1)
71	I2C CKO	O	Bus clock signal output to the RDS decoder (IC51), electrical volume (IC331) and FM/AM tuner unit (TU1)
72	NCO	O	Not used (open)
73	X1A	O	Sub system clock output terminal (32.768 kHz)
74	X0A	I	Sub system clock input terminal (32.768 kHz)
75	NCO	O	Not used (open)
76	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"
77	BU-IN	I	Battery detect signal input from the SONY bus interface (IC701) and battery detect circuit "L" is input at low voltage
78	<u>ILL IN</u>	I	Auto dimmer control illumination line detection signal input terminal "L" is input at dimmer detection Fixed at "L" in this set
79	TEL-ATT	I	Telephone muting signal input terminal At input of "H", the signal is attenuated by -20 dB Used for XR-C5300R/C5300RX

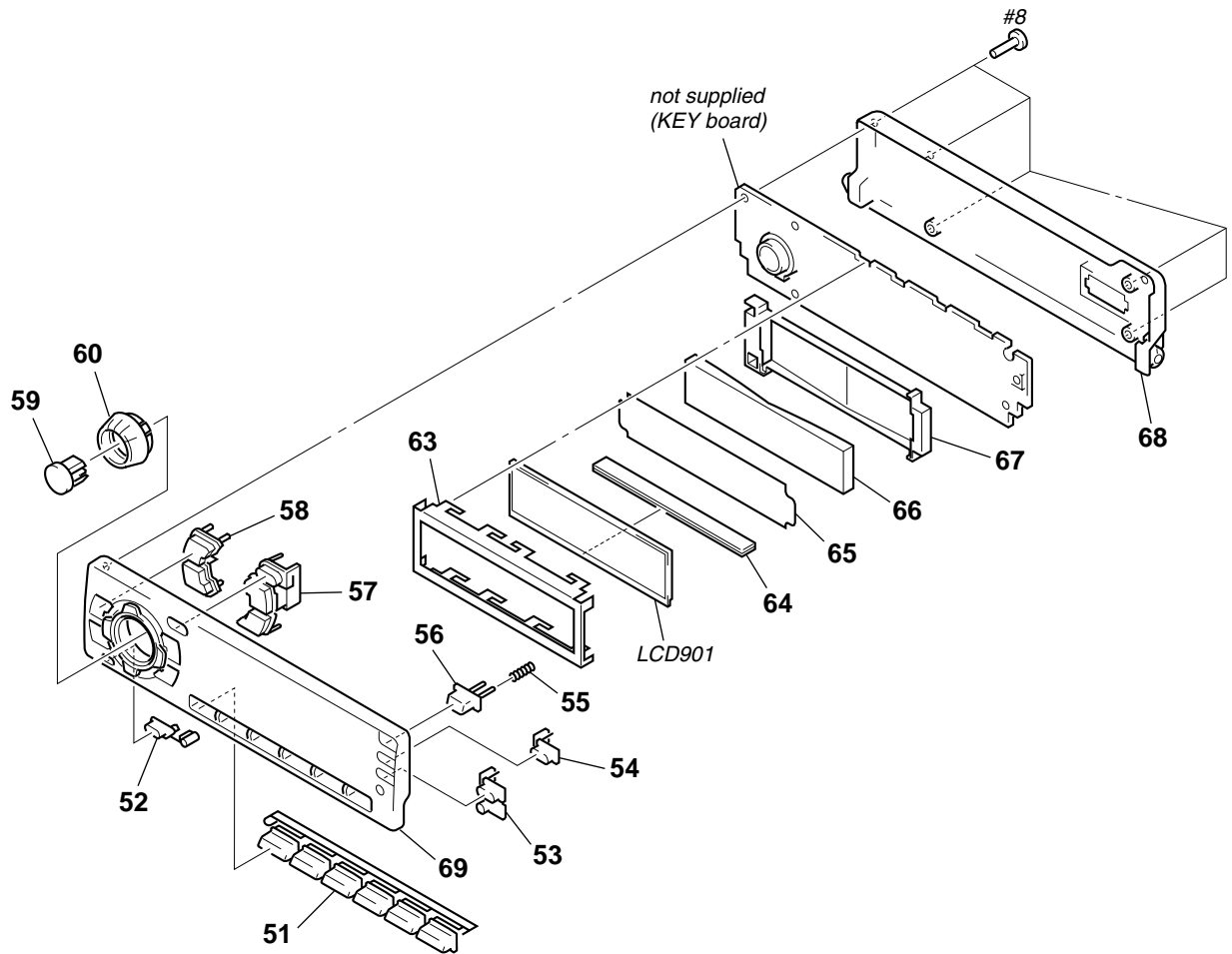
Pin No.	Pin Name	I/O	Description
80	NCO	O	Not used (open)
81	<u>TESTIN</u>	I	Setting terminal for the test mode “L”: test mode, Normally: fixed at “H”
82	<u>ACC IN</u>	I	Accessory detect signal input terminal “L”: accessory on
83	NCO	O	Not used (open)
84	LOCKIN	I	MD lock detection signal input terminal Not used (open)
85	RC-IN1	I	Rotary remote commander shift key input terminal “L”: shift
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, 89	MD1, MD0	I	Setting terminal for the CPU operational mode (fixed at “H” in this set)
90	<u>RESET</u>	I	System reset signal input from the reset signal generator (IC551) and reset switch (S503) “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 to 97	NCO	O	Not used (open)
98	DIMSEL	I	Dimmer selection signal input terminal (fixed at “H” in this set)
99	TAPE/CD	I	Tape/CD selection signal input terminal “L”: CD, “H”: tape (fixed at “H” in this set)
100, 101	NCO	O	Not used (open)
102	MTLIN	I	Auto metal detection signal input terminal “L”: auto metal (fixed at “H” in this set)
103	AMSIN	I	Whether a music is present or not from CXA2509AQ (IC301) is detected at auto music sensor “L”: music is present, “H”: music is not present
104	REEL	I	Rotation detect signal input from supply reel sensor and take-up reel sensor on the deck mechanism
105	POS0	I	Tape position (EJECT/FF/REW/REV/FWD mode) detect input from the tape operation switch on the deck mechanism 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
106	POS1	I	
107	POS2	I	
108	POS3	I	
109	LM-EJ	O	Motor drive signal output to the loading/tape operation motor drive (IC361) “H” active (For the eject direction and reverse side operation) *1
110	LM-LOD	O	Motor drive signal output to the loading/tape operation motor drive (IC361) “H” active (For the loading direction and forward side operation) *1
111	CM-ON	O	Capstan/reel motor (M901) drive signal output terminal “H”: motor on
112	TAPEON	O	Tape system power supply on/off control signal output terminal “H”: tape on
113	N-ROUT	O	Forward/reverse direction control signal output to the CXA2509AQ (IC301) “L”: forward direction, “H”: reverse direction
114	<u>AMSON</u>	O	Tape auto music sensor control signal output to the CXA2509AQ (IC301) “L” is output to lower the gain for audio level at FF/REW mode
115	MTLON	I/O	METAL control in/out terminal At initial mode: auto/manual mode selection input of METAL function (manual at “L” input) At manual mode: METAL on/off control signal output terminal (METAL on at “H” output) At auto mode: input at MTLIN (pin ⑩)
116	DOLON	I/O	Dolby control in/out terminal At initial mode: valid/invalid selection input of dolby function (valid at “L” input) At normal mode: dolby on/off control signal output terminal (dolby on at “H” output) Not used this function (fixed at “H”)
117	TAPE ATT	O	Tape muting on/off control signal output to the CXA2509AQ (IC301) “H”: muting on Active at ATA, FF/REW mode

Pin No.	Pin Name	I/O	Description
118	NCO	O	Not used (open)
119	VSS	—	Ground terminal
120	POWON	O	Main system power supply on/off control signal output to the BA4908 (IC671) “H”: power on

Terminal \ Mode	STOP	LOADING/ FORWARD	EJECT/ REVERSE	BRAKE
LM-LOD (pin ⑩)	“L”	“H”	“L”	“H”
LM-EJ (pin ⑨)	“L”	“L”	“H”	“H”

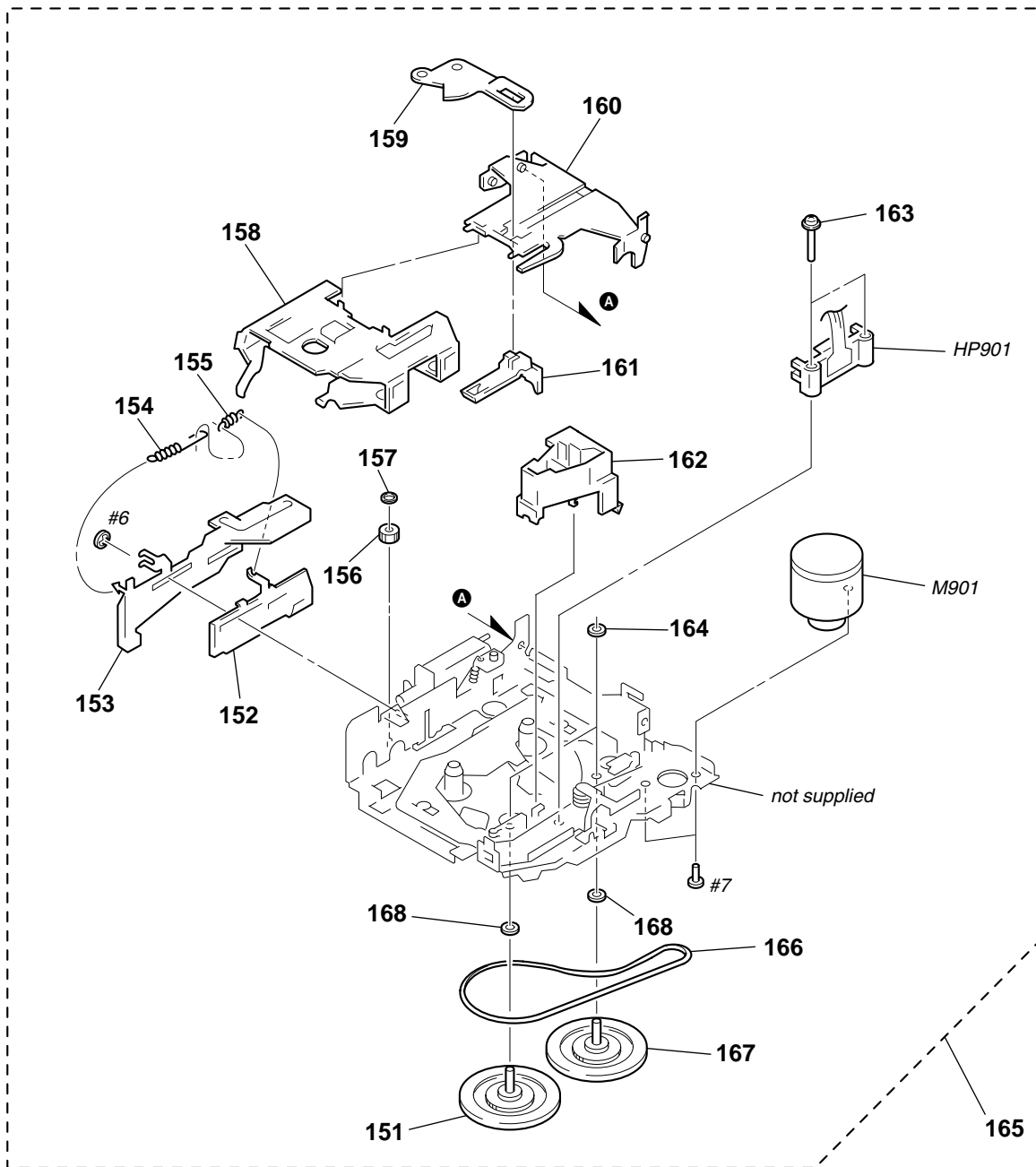
*1 Loading/tape operation motor control

(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-040-988-01	BUTTON (1-6) (1. 2. 3. 4. 5. 6)		64	1-694-660-11	CONDUCTIVE BOARD, CONNECTION	
52	3-040-987-01	BUTTON (OFF)		* 65	3-041-371-01	SHEET (REFLECTOR)	
53	3-041-006-01	BUTTON (AF/TA)		* 66	3-040-993-01	PLATE (LCD), LIGHT GUIDE	
54	3-041-005-11	BUTTON (D) (D-BASS)		* 67	3-040-992-01	HOLDER (LCD)	
55	3-037-267-01	SPRING (OPEN)		68	X-3378-398-1	PANEL ASSY, FRONT BACK	
56	3-040-989-01	BUTTON (OPEN)		69	X-3378-584-1	PANEL SUB ASSY (C5300R)	
57	3-040-985-01	BUTTON (DIR/ENTER) (DSPL. MODE ◀▶ . ENTER)		69	X-3378-585-1	PANEL SUB ASSY (C5200R)	
58	3-040-986-01	BUTTON (MENU/SOUND)		69	X-3378-572-1	PANEL SUB ASSY (C5300RX)	
59	3-040-980-01	BUTTON (SOURCE)		LCD901	1-803-906-11	DISPLAY PANEL, LIQUID CRYSTAL (C5200R/C5300R)	
60	3-040-981-01	KNOB (VOL)		LCD901	1-803-906-31	DISPLAY PANEL, LIQUID CRYSTAL (C5300RX)	
* 63	3-040-997-01	PLATE (LCD), GROUND					

**(3) MECHANISM DECK SECTION
(MG-25G-136)**



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-3291-667-A	CLUTCH (FR) ASSY		161	3-933-346-01	CATCHER	
* 152	3-019-130-01	LEVER (LDG-A)		162	3-933-344-01	GUIDE (C)	
* 153	3-019-131-01	LEVER (LDG-B)		163	3-014-798-01	SCREW (HEAD), SPECIAL	
154	3-020-539-01	SPRING (LD-1), TENSION		164	3-364-151-01	WASHER	
155	3-020-540-01	SPRING (LD-2), TENSION		165	A-3220-610-A	MECHANISM DECK ASSY	
156	3-020-542-01	GEAR (LOADING FT)		166	3-017-302-01	BELT (25)	
157	3-341-753-11	WASHER, POLYETHYLENE		167	3-936-853-01	FLYWHEEL (F)	
158	3-020-533-01	HOUSING		168	3-701-437-21	WASHER	
* 159	3-020-532-01	ARM (SUCTION)		HP901	1-500-196-21	HEAD, MAGNETIC (PLAYBACK)	
160	3-020-534-01	HANGER		M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	

SECTION 8 ELECTRICAL PARTS LIST

KEY

NOTE:

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

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . . : μ A. . . uPA. . . : μ PA. . .
uPB. . . : μ PB. . . uPC. . . : μ PC. . .
uPD. . . : μ PD. . .
- CAPACITORS
uF: μ F
- COILS
uH: μ H

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

Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark
		KEY BOARD *****			LED902	8-719-078-15	LED CL-165Y/PG-D-T (ILLUMINATION) (C5200R/C5300R)	
	1-694-660-11	CONDUCTIVE BOARD, CONNECTION			LED903	8-719-061-16	LED CL-190SR-CD-T (ILLUMINATION) (C5300RX)	
*	3-040-992-01	HOLDER (LCD)			LED903	8-719-078-15	LED CL-165Y/PG-D-T (ILLUMINATION) (C5200R/C5300R)	
*	3-040-993-01	PLATE (LCD), LIGHT GUIDE			LED904	8-719-061-16	LED CL-190SR-CD-T (ILLUMINATION) (C5300RX)	
*	3-040-997-01	PLATE (LCD), GROUND			LED904	8-719-078-15	LED CL-165Y/PG-D-T (ILLUMINATION) (C5200R/C5300R)	
*	3-041-371-01	SHEET (REFLECTOR)			LED910	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
		< CAPACITOR >			LED911	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
C951	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V			LED912	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
C952	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V			LED913	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
C953	1-163-251-11	CERAMIC CHIP 100PF 5% 50V			LED914	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
C954	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V			LED915	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	
C955	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V					< SWITCH >	
C956	1-164-489-11	CERAMIC CHIP 0.22uF 10% 16V			LSW901	1-771-610-11	SWITCH, TACTILE (WITH LED) (OFF) (C5200R/C5300R)	
		< CONNECTOR >			LSW901	1-771-883-21	SWITCH, TACTILE (WITH LED) (OFF) (C5300RX)	
CN901	1-794-065-21	PLUG, CONNECTOR 14P			LSW902	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (SOURCE) (C5200R/C5300R)	
		< DIODE >			LSW902	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOURCE) (C5300RX)	
D901	8-719-158-49	DIODE UDZ-TE-17-12B			LSW903	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (SOUND) (C5200R/C5300R)	
D902	8-719-056-82	DIODE UDZ-TE-17-6.2B			LSW903	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOUND) (C5300RX)	
D903	8-719-056-82	DIODE UDZ-TE-17-6.2B			LSW904	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (MENU) (C5200R/C5300R)	
D904	8-719-056-82	DIODE UDZ-TE-17-6.2B			LSW904	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (MENU) (C5300RX)	
D951	8-719-976-99	DIODE UDZ-TE-17-5.1B			LSW905	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (PTY DSPL) (C5200R/C5300R)	
D952	8-719-976-99	DIODE UDZ-TE-17-5.1B			LSW905	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (PTY DSPL) (C5300RX)	
		< IC >			LSW906	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (MODE ◀▶) (C5200R/C5300R)	
IC901	8-759-366-34	IC LC75824E			LSW906	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (MODE ◀▶) (C5300RX)	
IC951	8-749-012-25	IC RS-170-TU			LSW907	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (ENTER) (C5200R/C5300R)	
		< LIQUID CRYSTAL DISPLAY >			LSW907	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (ENTER) (C5300RX)	
LCD901	1-803-906-11	DISPLAY PANEL, LIQUID CRYSTAL (C5200R/C5300R)			LSW909	1-762-737-11	SWITCH, KEYBOARD (LED) (D-BASS)	
LCD901	1-803-906-31	DISPLAY PANEL, LIQUID CRYSTAL (C5300RX)						
		< LED >						
LED901	8-719-061-16	LED CL-190SR-CD-T (ILLUMINATION) (C5300RX)						
LED901	8-719-078-15	LED CL-165Y/PG-D-T (ILLUMINATION) (C5200R/C5300R)						
LED902	8-719-061-16	LED CL-190SR-CD-T (ILLUMINATION) (C5300RX)						

KEY

Ref. No.	Part No.	Description	Remark
LSW910	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (TA) (C5200R/C5300R)	
LSW910	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (TA) (C5300RX)	
LSW911	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (AF) (C5200R/C5300R)	
LSW911	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (AF) (C5300RX)	
LSW912	1-771-610-11	SWITCH, TACTILE (WITH LED) (6) (C5200R/C5300R)	
LSW912	1-771-883-21	SWITCH, TACTILE (WITH LED) (6) (C5300RX)	
LSW913	1-771-610-11	SWITCH, TACTILE (WITH LED) (5) (C5200R/C5300R)	
LSW913	1-771-883-21	SWITCH, TACTILE (WITH LED) (5) (C5300RX)	
LSW914	1-771-610-11	SWITCH, TACTILE (WITH LED) (4) (C5200R/C5300R)	
LSW914	1-771-883-21	SWITCH, TACTILE (WITH LED) (4) (C5300RX)	
LSW915	1-771-610-11	SWITCH, TACTILE (WITH LED) (3) (C5200R/C5300R)	
LSW915	1-771-883-21	SWITCH, TACTILE (WITH LED) (3) (C5300RX)	
LSW916	1-771-610-11	SWITCH, TACTILE (WITH LED) (SHUF 2) (C5200R/C5300R)	
LSW916	1-771-883-21	SWITCH, TACTILE (WITH LED) (SHUF 2) (C5300RX)	
LSW917	1-771-610-11	SWITCH, TACTILE (WITH LED) (REP 1) (C5200R/C5300R)	
LSW917	1-771-883-21	SWITCH, TACTILE (WITH LED) (REP 1) (C5300RX)	
< TRANSISTOR >			
Q901	8-729-904-75	TRANSISTOR	DTD114EK-T-146 (C5200R/C5300R)
Q902	8-729-904-75	TRANSISTOR	DTD114EK-T-146 (C5200R/C5300R)
< 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
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 (C5300RX)
R921	1-216-811-11	METAL CHIP	150 5% 1/16W (C5200R/C5300R)

Ref. No.	Part No.	Description	Remark
R922	1-216-807-11	METAL CHIP	68 5% 1/16W (C5200R/C5300R)
R923	1-216-812-11	METAL CHIP	180 5% 1/16W (C5300RX)
R923	1-216-815-11	METAL CHIP	330 5% 1/16W (C5200R/C5300R)
R924	1-216-809-11	METAL CHIP	100 5% 1/16W (C5200R/C5300R)
R925	1-216-031-00	METAL CHIP	180 5% 1/10W (C5300RX)
R925	1-216-029-00	METAL CHIP	150 5% 1/10W (C5200R/C5300R)
R926	1-216-807-11	METAL CHIP	68 5% 1/16W (C5200R/C5300R)
R927	1-216-031-00	METAL CHIP	180 5% 1/10W (C5300RX)
R927	1-216-029-00	METAL CHIP	150 5% 1/10W (C5200R/C5300R)
R928	1-216-807-11	METAL CHIP	68 5% 1/16W (C5200R/C5300R)
R931	1-216-813-11	METAL CHIP	220 5% 1/16W
R932	1-216-813-11	METAL CHIP	220 5% 1/16W
R933	1-216-812-11	METAL CHIP	180 5% 1/16W (C5200R/C5300R)
R933	1-216-813-11	METAL CHIP	220 5% 1/16W (C5300RX)
R934	1-216-808-11	METAL CHIP	82 5% 1/16W (C5200R/C5300R)
R935	1-216-812-11	METAL CHIP	180 5% 1/16W (C5300RX)
R935	1-216-864-11	METAL CHIP	0 5% 1/16W (C5200R/C5300R)
R936	1-216-809-11	METAL CHIP	100 5% 1/16W (C5200R/C5300R)
R938	1-216-809-11	METAL CHIP	100 5% 1/16W
R939	1-216-821-11	METAL CHIP	1K 5% 1/16W (C5300RX)
R951	1-216-819-11	METAL CHIP	680 5% 1/16W
R952	1-216-021-00	METAL CHIP	68 5% 1/10W
R953	1-216-857-11	METAL CHIP	1M 5% 1/16W
R954	1-216-049-11	RES-CHIP	1K 5% 1/10W
R955	1-216-049-11	RES-CHIP	1K 5% 1/10W
R956	1-216-821-11	METAL CHIP	1K 5% 1/16W
R957	1-216-851-11	METAL CHIP	330K 5% 1/16W
R958	1-216-033-00	METAL CHIP	220 5% 1/10W
R970	1-216-815-11	METAL CHIP	330 5% 1/16W
R971	1-216-815-11	METAL CHIP	330 5% 1/16W
R972	1-216-864-11	METAL CHIP	0 5% 1/16W
R973	1-216-815-11	METAL CHIP	330 5% 1/16W
R975	1-216-815-11	METAL CHIP	330 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
R981	1-216-864-11	METAL CHIP	0 5% 1/16W
R999	1-216-864-11	METAL CHIP	0 5% 1/16W (C5300RX)
< ROTARY ENCODER >			
RE901	1-475-014-11	ENCODER, ROTARY (VOLUME/BASS/TREBLE/ BALANCE/FADER CONTROL)	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< SWITCH >		C110	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V	
S901	1-771-884-21	SWITCH, TACTILE (WITH LED) (SEEK/AMS - ◀◀◀◀)		C112	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V	
S902	1-771-884-21	SWITCH, TACTILE (WITH LED) (PRST DISC +)		C121	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
S903	1-771-884-21	SWITCH, TACTILE (WITH LED) (SEEK/AMS + ▶▶▶▶)		C122	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
S904	1-771-884-21	SWITCH, TACTILE (WITH LED) (PRST DISC -)		C124	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
*****				C141	1-163-181-00	CERAMIC CHIP 100PF 5% 50V	
*	A-3326-147-A	MAIN BOARD, COMPLETE (C5300R)		C142	1-107-823-11	CERAMIC CHIP 0.47uF 10% 16V	
*	A-3326-161-A	MAIN BOARD, COMPLETE (C5300RX)		C143	1-163-227-11	CERAMIC CHIP 10PF 0.5PF 50V	
*	A-3326-168-A	MAIN BOARD, COMPLETE (C5200R) *****		C152	1-109-982-11	CERAMIC CHIP 1uF 10% 10V	
*	3-040-998-01	BRACKET (IC)		C153	1-109-982-11	CERAMIC CHIP 1uF 10% 10V	
*	3-041-014-11	HEAT SINK (IS02P)		C171	1-164-506-11	CERAMIC CHIP 4.7uF 16V	
*	3-041-262-01	HEAT SINK (REG/XR)		C173	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S		C174	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
	7-685-793-09	SCREW +PTT 2.6X8 (S)		C181	1-164-506-11	CERAMIC CHIP 4.7uF 16V	
		< CAPACITOR >		C182	1-163-181-00	CERAMIC CHIP 100PF 5% 50V	
C1	1-162-918-11	CERAMIC CHIP 18PF 5% 50V		C183	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
C2	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		C184	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C3	1-126-933-11	ELECT 100uF 20% 16V		C191	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V	
C4	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V		C200	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V	
C5	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		C201	1-162-959-11	CERAMIC CHIP 330PF 5% 50V	
C6	1-126-933-11	ELECT 100uF 20% 16V		C202	1-162-959-11	CERAMIC CHIP 330PF 5% 50V	
C8	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V (C5200R)		C203	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C10	1-162-923-11	CERAMIC CHIP 47PF 5% 50V		C204	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
C52	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		C207	1-162-963-11	CERAMIC CHIP 680PF 10% 50V	
C53	1-162-916-11	CERAMIC CHIP 12PF 5% 50V		C208	1-164-506-11	CERAMIC CHIP 4.7uF 16V	
C54	1-162-916-11	CERAMIC CHIP 12PF 5% 50V		C209	1-163-227-11	CERAMIC CHIP 10PF 0.5PF 50V	
C55	1-124-589-11	ELECT 47uF 20% 16V		C210	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V	
C57	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		C212	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V	
C58	1-162-959-11	CERAMIC CHIP 330PF 5% 50V		C241	1-163-181-00	CERAMIC CHIP 100PF 5% 50V	
C59	1-164-505-11	CERAMIC CHIP 2.2uF 16V		C242	1-107-823-11	CERAMIC CHIP 0.47uF 10% 16V	
C60	1-164-739-11	CERAMIC CHIP 560PF 5% 50V		C243	1-163-227-11	CERAMIC CHIP 10PF 0.5PF 50V	
C61	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V		C271	1-164-506-11	CERAMIC CHIP 4.7uF 16V	
C62	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V		C273	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
C63	1-164-315-11	CERAMIC CHIP 470PF 5% 50V		C274	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C64	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		C281	1-164-506-11	CERAMIC CHIP 4.7uF 16V	
C86	1-124-233-11	ELECT 10uF 20% 16V		C282	1-163-181-00	CERAMIC CHIP 100PF 5% 50V	
C90	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V		C283	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
C91	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V		C284	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C92	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V		C291	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V	
C93	1-164-315-11	CERAMIC CHIP 470PF 5% 50V		C302	1-131-651-21	TANTALUM CHIP 10uF 20% 16V	
C94	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V		C303	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C95	1-125-891-11	CERAMIC CHIP 0.47uF 10% 10V		C304	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C96	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V		C305	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C98	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		C306	1-125-891-11	CERAMIC CHIP 0.47uF 10% 10V	
C100	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V		C307	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C101	1-162-959-11	CERAMIC CHIP 330PF 5% 50V		C308	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C102	1-162-959-11	CERAMIC CHIP 330PF 5% 50V		C309	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C103	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V		C311	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C104	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V		C313	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C107	1-162-963-11	CERAMIC CHIP 680PF 10% 50V		C330	1-162-959-11	CERAMIC CHIP 330PF 5% 50V	
C108	1-164-506-11	CERAMIC CHIP 4.7uF 16V		C331	1-124-234-00	ELECT 22uF 20% 16V	
C109	1-163-227-11	CERAMIC CHIP 10PF 0.5PF 50V		C333	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V	
				C335	1-107-823-11	CERAMIC CHIP 0.47uF 10% 16V	
				C336	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
				C337	1-124-584-00	ELECT 100uF 20% 10V	
				C341	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
				C343	1-124-233-11	ELECT 10uF 20% 16V	
				C351	1-164-156-11	CERAMIC CHIP 0.1uF 25V	

MAIN

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description	Remark
C352	1-164-156-11	CERAMIC CHIP	0.1uF	25V	* CN302	1-506-995-11	PIN, CONNECTOR (PC BOARD) 13P	
C353	1-162-970-11	CERAMIC CHIP	0.01uF	10%	CN581	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)	
C355	1-124-234-00	ELECT	22uF	20%	CN601	1-794-070-11	PIN, CONNECTOR (ISO) (POWER)	
C356	1-126-934-11	ELECT	220uF	20%	CN701	1-784-456-11	CONNECTOR, FFC/FPC 14P	
C357	1-164-156-11	CERAMIC CHIP	0.1uF	25V			< JACK >	
C364	1-124-233-11	ELECT	10uF	20%	CNJ151	1-774-699-12	JACK, PIN 4P (BUS AUDIO IN, AUDIO OUT (LINE OUT))	
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%			< DIODE >	
C502	1-107-826-11	CERAMIC CHIP	0.1uF	10%	D51	8-719-067-56	DIODE MA112-TX	
C503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	D80	8-719-422-12	DIODE UDZ-TE-17-3.9B	
C504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	D90	8-719-073-01	DIODE MA111-TX	
C506	1-162-975-11	CERAMIC CHIP	24PF	5%	D91	8-719-073-01	DIODE MA111-TX	
C507	1-162-919-11	CERAMIC CHIP	22PF	5%	D92	8-719-976-99	DIODE UDZ-TE-17-5.1B	
C509	1-162-970-11	CERAMIC CHIP	0.01uF	10%	D351	8-719-977-22	DIODE UDZ-TE-17-9.1B	
C510	1-124-584-00	ELECT	100uF	20%	D352	8-719-911-19	DIODE 1SS119-25TD	
C511	1-107-826-11	CERAMIC CHIP	0.1uF	10%	D501	8-719-400-20	DIODE MA152WA-TX	
C512	1-164-230-11	CERAMIC CHIP	220PF	5%	D551	8-719-067-56	DIODE MA112-TX	
C513	1-164-315-11	CERAMIC CHIP	470PF	5%	D552	8-719-073-01	DIODE MA111-TX	
C515	1-131-651-21	TANTALUM CHIP	10uF	20%	D553	8-719-073-01	DIODE MA111-TX	
C523	1-163-077-00	CERAMIC CHIP	0.1uF	50V	D554	8-719-072-70	DIODE MA2ZD14001S0	
C551	1-125-701-11	DOUBLE LAYER	0.047F	5.5V	D558	8-719-073-01	DIODE MA111-TX (C5300R/C5300RX)	
C552	1-126-933-11	ELECT	100uF	20%	D571	8-719-057-80	DIODE MA8180-M-TX	
C553	1-162-970-11	CERAMIC CHIP	0.01uF	10%	D572	8-719-420-14	DIODE MA8082-M (TX)	
C571	1-126-163-11	ELECT	4.7uF	20%	D581	8-719-056-93	DIODE UDZ-TE-17-18B	
C581	1-164-506-11	CERAMIC CHIP	4.7uF	16V	D582	8-719-017-62	DIODE MA8068-L-TX	
C582	1-162-964-11	CERAMIC CHIP	0.001uF	10%	D583	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C583	1-107-909-11	ELECT	47uF	20%	D584	8-719-056-93	DIODE UDZ-TE-17-18B	
C584	1-163-077-00	CERAMIC CHIP	0.1uF	10%	D585	8-719-072-70	DIODE MA2ZD14001S0	
C601	1-164-346-11	CERAMIC CHIP	1uF	16V	D586	8-719-056-93	DIODE UDZ-TE-17-18B	
C602	1-164-346-11	CERAMIC CHIP	1uF	16V	D587	8-719-073-01	DIODE MA111-TX	
C611	1-126-157-11	ELECT	10uF	20%	D601	8-719-056-88	DIODE UDZ-TE-17-11B	
C612	1-126-157-11	ELECT	10uF	20%	D610	8-719-970-02	DIODE 1SR139-400T-32	
C614	1-126-157-11	ELECT	10uF	20%	D611	8-719-970-02	DIODE 1SR139-400T-32	
C615	1-126-157-11	ELECT	10uF	20%	D613	8-719-970-02	DIODE 1SR139-400T-32	
C616	1-126-157-11	ELECT	10uF	20%	D614	8-719-970-02	DIODE 1SR139-400T-32	
C617	1-107-909-11	ELECT	47uF	20%	D615	8-719-420-51	DIODE MA729-TX	
C618	1-126-157-11	ELECT	10uF	20%	D616	8-719-420-51	DIODE MA729-TX	
C619	1-107-826-11	CERAMIC CHIP	0.1uF	10%	D621	8-719-422-12	DIODE UDZ-TE-17-3.9B	
C621	1-124-589-11	ELECT	47uF	20%	D622	8-719-073-01	DIODE MA111-TX	
C622	1-164-489-11	CERAMIC CHIP	0.22uF	10%	D624	8-719-158-15	DIODE UDZ-TE-17-5.6B	
C623	1-164-506-11	CERAMIC CHIP	4.7uF	16V	D653	8-719-073-01	DIODE MA111-TX	
C641	1-162-964-11	CERAMIC CHIP	0.001uF	10%	D701	8-719-035-74	DIODE MA4062-M (TA)	
C701	1-163-077-00	CERAMIC CHIP	0.1uF	10%	D702	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C702	1-163-077-00	CERAMIC CHIP	0.1uF	10%	D703	8-719-035-74	DIODE MA4062-M (TA)	
C703	1-163-181-00	CERAMIC CHIP	100PF	5%	D704	8-719-035-74	DIODE MA4062-M (TA)	
C704	1-163-181-00	CERAMIC CHIP	100PF	5%	D705	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C705	1-163-181-00	CERAMIC CHIP	100PF	5%	D706	8-719-035-74	DIODE MA4062-M (TA)	
C751	1-126-157-11	ELECT	10uF	20%	D707	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C752	1-136-165-00	MYLAR	0.1uF	5%	D708	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C754	1-124-233-11	ELECT	10uF	20%	D709	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C755	1-107-909-11	ELECT	47uF	20%	D710	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C781	1-107-885-31	ELECT	3300uF	20%	D711	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C901	1-163-077-00	CERAMIC CHIP	0.1uF	10%	D712	8-719-034-74	DIODE MA4120-M (TA)	
C902	1-163-077-00	CERAMIC CHIP	0.1uF	10%	D721	8-719-079-42	DIODE 1ZB22 (TPA3)	
C903	1-163-077-00	CERAMIC CHIP	0.1uF	10%	D722	8-719-079-42	DIODE 1ZB22 (TPA3)	
		< CONNECTOR >			D723	8-719-079-42	DIODE 1ZB22 (TPA3)	
CN301	1-766-260-11	CONNECTOR, FFC/FPC (ZIF) 7P						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D724	8-719-079-42	DIODE 1ZB22 (TPA3)					
D731	8-719-079-42	DIODE 1ZB22 (TPA3)				< RESISTOR >	
D732	8-719-079-42	DIODE 1ZB22 (TPA3)		R1	1-216-809-11	METAL CHIP 100	5% 1/16W
D733	8-719-079-42	DIODE 1ZB22 (TPA3)		R2	1-216-809-11	METAL CHIP 100	5% 1/16W
D734	8-719-079-42	DIODE 1ZB22 (TPA3)		R3	1-216-837-11	METAL CHIP 22K	5% 1/16W
D781	8-719-049-38	DIODE 1N5404TU		R4	1-216-809-11	METAL CHIP 100	5% 1/16W
		< IC >		R5	1-216-809-11	METAL CHIP 100	5% 1/16W
IC51	8-759-650-68	IC SAA6588T/V2-118		R7	1-216-841-11	METAL CHIP 47K	5% 1/16W
IC90	8-759-909-71	IC BA4558F		R53	1-216-853-11	METAL CHIP 470K	5% 1/16W
IC301	8-752-079-78	IC CXA2509AQ-T4		R54	1-216-821-11	METAL CHIP 1K	5% 1/16W
IC331	8-759-653-27	IC TDA7402TR		R55	1-216-827-11	METAL CHIP 3.3K	5% 1/16W
IC361	8-759-527-33	IC LB1930M-TLM		R56	1-216-817-11	METAL CHIP 470	5% 1/16W
IC501	8-759-665-96	IC MB90574BPMT-G-267-BND		R57	1-216-025-00	RES-CHIP 100	5% 1/10W
IC551	8-759-574-61	IC XC61AN4302MR		R58	1-216-025-00	RES-CHIP 100	5% 1/10W
IC611	8-759-663-88	IC TA8268H		R59	1-216-797-11	METAL CHIP 10	5% 1/16W
IC671	8-759-661-47	IC BA4908-V3		R60	1-216-797-11	METAL CHIP 10	5% 1/16W
IC701	8-759-096-16	IC MM1175XFF		R83	1-216-819-11	METAL CHIP 680	5% 1/16W
		< JACK >		R84	1-216-815-11	METAL CHIP 330	5% 1/16W
J1	1-764-808-21	JACK (ANT) (FM/AM ANTENNA)		R85	1-216-797-11	METAL CHIP 10	5% 1/16W
J501	1-566-822-41	JACK (REMOTE IN)		R90	1-216-825-11	METAL CHIP 2.2K	5% 1/16W
		< RESISTOR >		R91	1-216-825-11	METAL CHIP 2.2K	5% 1/16W
JC330	1-216-841-11	METAL CHIP 47K	5% 1/16W	R92	1-216-809-11	METAL CHIP 100	5% 1/16W
JC610	1-216-864-11	METAL CHIP 0	5% 1/16W	R93	1-216-845-11	METAL CHIP 100K	5% 1/16W
JC991	1-216-864-11	METAL CHIP 0	5% 1/16W	R94	1-216-829-11	METAL CHIP 4.7K	5% 1/16W
		< COIL >		R95	1-216-857-11	METAL CHIP 1M	5% 1/16W
L51	1-412-026-11	INDUCTOR CHIP 1uH		R96	1-216-829-11	METAL CHIP 4.7K	5% 1/16W
L501	1-412-026-11	INDUCTOR CHIP 1uH		R97	1-216-833-11	RES-CHIP 10K	5% 1/16W
L781	1-419-476-11	COIL, CHOKE (2000)		R98	1-216-833-11	RES-CHIP 10K	5% 1/16W
		< TRANSISTOR >		R99	1-216-825-11	METAL CHIP 2.2K	5% 1/16W
Q82	8-729-921-25	TRANSISTOR FMC2-T148		R101	1-216-041-00	METAL CHIP 470	5% 1/10W
Q90	8-729-900-53	TRANSISTOR DTC114EKA-T146		R102	1-216-851-11	METAL CHIP 330K	5% 1/16W
Q91	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R103	1-216-835-11	METAL CHIP 15K	5% 1/16W
Q121	8-729-920-21	TRANSISTOR DTC314TK-T-146		R104	1-216-836-11	METAL CHIP 18K	5% 1/16W
Q151	8-729-920-21	TRANSISTOR DTC314TK-T-146		R106	1-216-835-11	METAL CHIP 15K	5% 1/16W
Q171	8-729-920-21	TRANSISTOR DTC314TK-T-146		R110	1-216-845-11	METAL CHIP 100K	5% 1/16W
Q181	8-729-920-21	TRANSISTOR DTC314TK-T-146		R111	1-216-845-11	METAL CHIP 100K	5% 1/16W
Q271	8-729-920-21	TRANSISTOR DTC314TK-T-146		R121	1-216-825-11	METAL CHIP 2.2K	5% 1/16W
Q281	8-729-920-21	TRANSISTOR DTC314TK-T-146		R122	1-216-839-11	METAL CHIP 33K	5% 1/16W
Q351	8-729-015-11	TRANSISTOR 2SD1802FAST-TL		R141	1-216-825-11	METAL CHIP 2.2K	5% 1/16W
Q352	8-729-921-25	TRANSISTOR FMC2-T148		R142	1-216-841-11	METAL CHIP 47K	5% 1/16W
Q353	8-729-900-53	TRANSISTOR DTC114EKA-T146		R152	1-216-841-11	METAL CHIP 47K	5% 1/16W
Q354	8-729-106-60	TRANSISTOR 2SB1132-T100-R		R153	1-216-864-11	METAL CHIP 0	5% 1/16W
Q551	8-729-027-23	TRANSISTOR DTA114EKA-T146		R170	1-216-809-11	METAL CHIP 100	5% 1/16W
Q571	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R171	1-216-809-11	METAL CHIP 100	5% 1/16W
Q581	8-729-900-53	TRANSISTOR DTC114EKA-T146		R172	1-216-081-00	METAL CHIP 22K	5% 1/10W
Q582	8-729-027-23	TRANSISTOR DTA114EKA-T146		R173	1-216-085-00	METAL CHIP 33K	5% 1/10W
Q583	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR (C5300R/C5300RX)		R180	1-216-809-11	METAL CHIP 100	5% 1/16W
Q601	8-729-423-99	TRANSISTOR 2SD2137-OP-TA		R181	1-216-809-11	METAL CHIP 100	5% 1/16W
Q602	8-729-921-25	TRANSISTOR FMC2-T148		R182	1-216-837-11	METAL CHIP 22K	5% 1/16W
Q621	8-729-027-23	TRANSISTOR DTA114EKA-T146		R183	1-216-839-11	METAL CHIP 33K	5% 1/16W
Q622	8-729-021-94	FET 2SK1657-T1B		R201	1-216-041-00	METAL CHIP 470	5% 1/10W
Q701	8-729-921-25	TRANSISTOR FMC2-T148		R202	1-216-851-11	METAL CHIP 330K	5% 1/16W
				R203	1-216-835-11	METAL CHIP 15K	5% 1/16W
				R204	1-216-836-11	METAL CHIP 18K	5% 1/16W
				R206	1-216-835-11	METAL CHIP 15K	5% 1/16W
				R210	1-216-845-11	METAL CHIP 100K	5% 1/16W
				R211	1-216-845-11	METAL CHIP 100K	5% 1/16W

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R241	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R543	1-216-845-11	METAL CHIP	100K	5%	1/16W
R242	1-216-841-11	METAL CHIP	47K	5%	1/16W	R544	1-216-845-11	METAL CHIP	100K	5%	1/16W
R270	1-216-809-11	METAL CHIP	100	5%	1/16W	R545	1-216-809-11	METAL CHIP	100	5%	1/16W
R271	1-216-025-00	RES-CHIP	100	5%	1/10W	R546	1-216-845-11	METAL CHIP	100K	5%	1/16W
R272	1-216-837-11	METAL CHIP	22K	5%	1/16W						
R273	1-216-839-11	METAL CHIP	33K	5%	1/16W	R547	1-216-845-11	METAL CHIP	100K	5%	1/16W
R280	1-216-809-11	METAL CHIP	100	5%	1/16W	R549	1-216-845-11	METAL CHIP	100K	5%	1/16W
R281	1-216-025-00	RES-CHIP	100	5%	1/10W						(C5200R)
R282	1-216-081-00	METAL CHIP	22K	5%	1/10W	R550	1-216-845-11	METAL CHIP	100K	5%	1/16W
R283	1-216-085-00	METAL CHIP	33K	5%	1/10W	R551	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
						R552	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
R301	1-216-836-11	METAL CHIP	18K	5%	1/16W	R553	1-216-845-11	METAL CHIP	100K	5%	1/16W
R303	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R554	1-216-809-11	METAL CHIP	100	5%	1/16W
R304	1-216-835-11	METAL CHIP	15K	5%	1/16W	R555	1-216-845-11	METAL CHIP	100K	5%	1/16W
R305	1-216-797-11	METAL CHIP	10	5%	1/16W	R556	1-216-845-11	METAL CHIP	100K	5%	1/16W
R306	1-216-849-11	METAL CHIP	220K	5%	1/16W	R561	1-216-833-11	RES-CHIP	10K	5%	1/16W
R310	1-216-821-11	METAL CHIP	1K	5%	1/16W	R562	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
R311	1-216-821-11	METAL CHIP	1K	5%	1/16W	R563	1-216-809-11	METAL CHIP	100	5%	1/16W
R312	1-216-821-11	METAL CHIP	1K	5%	1/16W	R564	1-216-809-11	METAL CHIP	100	5%	1/16W
R313	1-216-821-11	METAL CHIP	1K	5%	1/16W	R571	1-216-841-11	METAL CHIP	47K	5%	1/16W
R330	1-216-025-00	RES-CHIP	100	5%	1/10W	R572	1-216-837-11	METAL CHIP	22K	5%	1/16W
R331	1-216-809-11	METAL CHIP	100	5%	1/16W	R573	1-249-421-11	CARBON	2.2K	5%	1/4W
R351	1-216-821-11	METAL CHIP	1K	5%	1/16W	R574	1-216-837-11	METAL CHIP	22K	5%	1/16W
R352	1-249-383-11	CARBON	1.5	5%	1/6W	R580	1-216-809-11	METAL CHIP	100	5%	1/16W
R353	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R582	1-216-833-11	RES-CHIP	10K	5%	1/16W
R354	1-216-833-11	RES-CHIP	10K	5%	1/16W	R583	1-216-809-11	METAL CHIP	100	5%	1/16W
R500	1-216-797-11	METAL CHIP	10	5%	1/16W	R584	1-216-017-00	RES-CHIP	47	5%	1/10W
R501	1-216-809-11	METAL CHIP	100	5%	1/16W	R585	1-216-841-11	METAL CHIP	47K	5%	1/16W
R502	1-216-809-11	METAL CHIP	100	5%	1/16W	R586	1-216-833-11	RES-CHIP	10K	5%	1/16W
R504	1-216-821-11	METAL CHIP	1K	5%	1/16W						(C5300R/C5300RX)
R505	1-216-821-11	METAL CHIP	1K	5%	1/16W	R587	1-216-833-11	RES-CHIP	10K	5%	1/16W
											(C5300R/C5300RX)
R506	1-216-821-11	METAL CHIP	1K	5%	1/16W	R588	1-216-845-11	METAL CHIP	100K	5%	1/16W
R507	1-216-845-11	METAL CHIP	100K	5%	1/16W						(C5300R/C5300RX)
R509	1-216-845-11	METAL CHIP	100K	5%	1/16W						
					(C5300RX)	R589	1-216-839-11	METAL CHIP	33K	5%	1/16W
R510	1-216-845-11	METAL CHIP	100K	5%	1/16W						(C5300R/C5300RX)
					(C5200R/C5300R)	R601	1-249-387-11	CARBON	3.3	5%	1/4W
R511	1-216-845-11	METAL CHIP	100K	5%	1/16W	R603	1-216-037-00	METAL CHIP	330	5%	1/10W
						R621	1-216-805-11	METAL CHIP	47	5%	1/16W
R512	1-216-845-11	METAL CHIP	100K	5%	1/16W	R623	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R513	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R514	1-216-845-11	METAL CHIP	100K	5%	1/16W	R641	1-216-841-11	METAL CHIP	47K	5%	1/16W
R515	1-216-845-11	METAL CHIP	100K	5%	1/16W	R642	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R516	1-216-845-11	METAL CHIP	100K	5%	1/16W	R651	1-216-853-11	METAL CHIP	470K	5%	1/16W
						R683	1-216-841-11	METAL CHIP	47K	5%	1/16W
R517	1-216-845-11	METAL CHIP	100K	5%	1/16W	R701	1-216-797-11	METAL CHIP	10	5%	1/16W
R520	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R522	1-216-845-11	METAL CHIP	100K	5%	1/16W	R702	1-216-001-00	METAL CHIP	10	5%	1/10W
R523	1-216-845-11	METAL CHIP	100K	5%	1/16W	R703	1-216-809-11	METAL CHIP	100	5%	1/16W
R524	1-216-833-11	RES-CHIP	10K	5%	1/16W	R704	1-216-809-11	METAL CHIP	100	5%	1/16W
						R705	1-216-809-11	METAL CHIP	100	5%	1/16W
R525	1-216-833-11	RES-CHIP	10K	5%	1/16W	R706	1-216-809-11	METAL CHIP	100	5%	1/16W
R526	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R527	1-216-845-11	METAL CHIP	100K	5%	1/16W	R708	1-216-821-11	METAL CHIP	1K	5%	1/16W
R528	1-216-845-11	METAL CHIP	100K	5%	1/16W	R709	1-216-821-11	METAL CHIP	1K	5%	1/16W
R529	1-216-833-11	RES-CHIP	10K	5%	1/16W	R710	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R711	1-216-809-11	METAL CHIP	100	5%	1/16W
R537	1-216-845-11	METAL CHIP	100K	5%	1/16W	R712	1-216-045-00	METAL CHIP	680	5%	1/10W
R538	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R539	1-216-845-11	METAL CHIP	100K	5%	1/16W	R713	1-216-045-00	METAL CHIP	680	5%	1/10W
R540	1-216-845-11	METAL CHIP	100K	5%	1/16W	R714	1-216-809-11	METAL CHIP	100	5%	1/16W
R541	1-216-845-11	METAL CHIP	100K	5%	1/16W	R715	1-216-809-11	METAL CHIP	100	5%	1/16W
						R716	1-216-809-11	METAL CHIP	100	5%	1/16W
R542	1-216-841-11	METAL CHIP	47K	5%	1/16W	R717	1-216-809-11	METAL CHIP	100	5%	1/16W

Ref. No.	Part No.	Description	Remark
R718	1-216-809-11	METAL CHIP	100 5% 1/16W
R719	1-216-809-11	METAL CHIP	100 5% 1/16W
R720	1-216-809-11	METAL CHIP	100 5% 1/16W
R721	1-216-809-11	METAL CHIP	100 5% 1/16W
R722	1-216-809-11	METAL CHIP	100 5% 1/16W
R723	1-216-809-11	METAL CHIP	100 5% 1/16W
R724	1-216-809-11	METAL CHIP	100 5% 1/16W
R725	1-216-821-11	METAL CHIP	1K 5% 1/16W
R751	1-216-821-11	METAL CHIP	1K 5% 1/16W
R753	1-216-821-11	METAL CHIP	1K 5% 1/16W
< SWITCH >			
S503	1-692-431-21	SWITCH, TACTILE (RESET)	
S504	1-771-540-11	SWITCH, PUSH (1 KEY) (NOSE DETECT)	
< THERMISTOR >			
TH501	1-803-350-21	THERMISTOR, POSITIVE	
< TUNER >			
TU1	A-3220-738-A	FM AM TUNER UNIT TUX-020	
< VIBRATOR >			
X51	1-579-242-41	VIBRATOR, CRYSTAL (4.332MHz)	
X501	1-767-833-21	VIBRATOR, CERAMIC (3.68MHz)	
X502	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)	

*	1-676-603-12	SUB BOARD	*****
	1-792-195-11	CABLE, FLEXIBLE FLAT	
< CONNECTOR >			
CNP801	1-794-064-11	SOCKET, CONNECTOR 14P	
< LED >			
LED801	8-719-038-07	LED CL-190PG-CD-T (TAPE WINDOW) (C5200R/C5300R)	
LED801	8-719-061-16	LED CL-190SR-CD-T (TAPE WINDOW) (C5300RX)	
< SWITCH >			
LSW801	1-771-609-11	SWITCH, TACTILE (WITH LED) (▲) (C5200R/C5300R)	
LSW801	1-771-883-21	SWITCH, TACTILE (WITH LED) (▲) (C5300RX)	

MISCELLANEOUS			

3	1-792-195-11	CABLE, FLEXIBLE FLAT	
14	1-782-381-11	CORD (WITH CONNECTOR) (ISO P&S) (POWER)	
15	1-777-989-21	CORD (WITH CONNECTOR) (AMP REM) (C5200R: AEP, UK)	
15	1-777-989-41	CORD (WITH CONNECTOR) (AMP REM/ATT) (C5300R/C5300RX)	
64	1-694-660-11	CONDUCTIVE BOARD, CONNECTION	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A)	

Ref. No.	Part No.	Description	Remark
HP901	1-500-196-21	HEAD, MAGNETIC (PLAYBACK)	
LCD901	1-803-906-11	DISPLAY PANEL, LIQUID CRYSTAL (C5200R/C5300R)	
LCD901	1-803-906-31	DISPLAY PANEL, LIQUID CRYSTAL (C5300RX)	
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	

HARDWARE LIST			

#1	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#2	7-621-772-20	SCREW +B 2X5	
#3	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#4	7-627-553-28	SCREW, PRECISION +P 2X2.5	
#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#6	7-624-104-04	STOP RING 2.0, TYPE -E	
#7	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
#8	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	

ACCESSORIES & PACKING MATERIALS			

3-044-359-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE) (AEP, UK)		
3-044-359-21	MANUAL, INSTRUCTION (FRENCH, GERMAN, DUTCH, ITALIAN, GREEK) (AEP, German)		
3-044-359-31	MANUAL, INSTRUCTION (GERMAN) (German)		
3-044-359-41	MANUAL, INSTRUCTION (ENGLISH, CZECH, POLISH, TURKISH, RUSSIAN) (AEP, South European)		
3-044-360-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, SWEDISH, PORTUGUESE) (AEP, UK)		
3-044-360-21	MANUAL, INSTRUCTION, INSTALL (FRENCH, GERMAN, DUTCH, ITALIAN, GREEK) (AEP, German)		
3-044-360-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, CZECH, POLISH, TURKISH, RUSSIAN) (AEP, South European)		
3-044-360-41	MANUAL, INSTRUCTION, INSTALL (GERMAN) (German)		
X-3378-490-1	CASE (PANEL) ASSY		

XR-C5200R/C5300R/C5300RX

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

501	X-3373-602-1	FRAME ASSY	
502	X-3366-405-1	SCREW ASSY (EXP), FITTING	
503	3-040-979-01	COLLAR	
504	3-934-325-01	SCREW, +K (5X8) TAPPING	
505	3-041-000-01	SPRING, FITTING	
506	1-465-459-21	ADAPTER, ANTENNA	
507	1-782-381-11	CORD (WITH CONNECTOR)	(ISO P&S) (POWER)
508	1-777-989-41	CORD (WITH CONNECTOR)	(AMP REM/ATT) (C5300R/C5300RX)
509	1-777-989-21	CORD (WITH CONNECTOR)	(AMP REM) (C5200R: AEP, UK)

