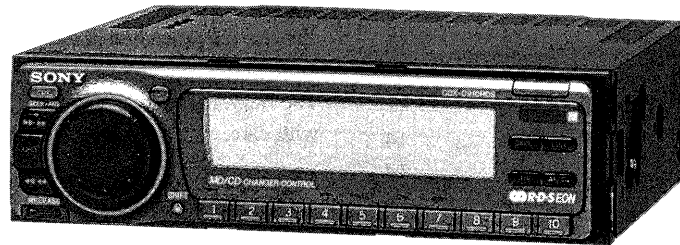


# CDX-C910/C910RDS

## SERVICE MANUAL

Ver 1.1 2002.07

US Model  
Canadian Model  
E Model  
CDX-C910  
AEP Model  
UK Model  
CDX-C910RDS



Refer to RM-X2S/X3S Service Manual (9-960-039-00) issued previously for information of remote commander (RM-X2S) supplied with this set.

Photo: CDX-C910RDS

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-333D-121
Optical Pick-Up Name	KSS-520A

### SPECIFICATIONS

#### CD player section

System	Compact disc digital audio system
Signal-to-noise ratio	105 dB
Frequency response	5 – 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 $\mu$ 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

<b>FM</b>	
Tuning range	FM tuning interval: 50 kHz/200 kHz switchable 87.5–108.0 MHz (at 50 kHz step) (AEP, UK, German, E) 87.5–107.9 MHz (at 200 kHz step) (US, Canadian, E)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	62 dB (stereo), 65 dB (mono)
Harmonic distortion at 1 kHz	0.9 % (stereo), 0.5 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

#### AM (CDX-C910)

Tuning range	AM tuning interval: 9 kHz/10 kHz switchable 531–1,602 kHz (at 9 kHz step) (E) 530–1,710 kHz (at 10 kHz step) (US, Canadian, E)
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	30 $\mu$ V

#### MW/LW (SW) (CDX-C910RDS)

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 281 kHz (AEP, UK) SW: 5,950 – 6,205 kHz (German)
Aerial terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	MW: 30 $\mu$ V LW: 50 $\mu$ V (AEP, UK) SW: 50 $\mu$ V (German)

#### Preamplifier section

Line outs	FRONT/REAR
Line out impedance	200 ohm
Bus input impedance	10 kohm
Distortion	0.005 % (1 kHz Bus Input)
Line out level	4 V rms

#### General

Output lead	Power antenna relay control lead Power amplifier control lead
Tone controls	Bass $\pm$ 8 dB at 100 Hz Treble $\pm$ 8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 x 50 x 176.5 mm (7 <sup>1</sup> / <sub>8</sub> x 2 x 7 in.) (w/h/d)
Mounting dimensions	Approx. 178 x 50 x 164.5 mm (7 <sup>1</sup> / <sub>8</sub> x 2 x 6 <sup>1</sup> / <sub>2</sub> in.) (w/h/d)
Mass	Approx. 1.8 kg (3 lb. 15 oz.)
Supplied accessories	Rotary remote RM-X2S (1) Parts for installation and connections (1 set) Front panel case (1)

Design and specifications are subject to change without notice.

CDX-C910  
**FM/AM COMPACT DISC PLAYER**  
CDX-C910RDS  
**FM/MW/LW (SW) COMPACT DISC PLAYER**  
**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.

### SAFETY-RELATED COMPONENT WARNING!!

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

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

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

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

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

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

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

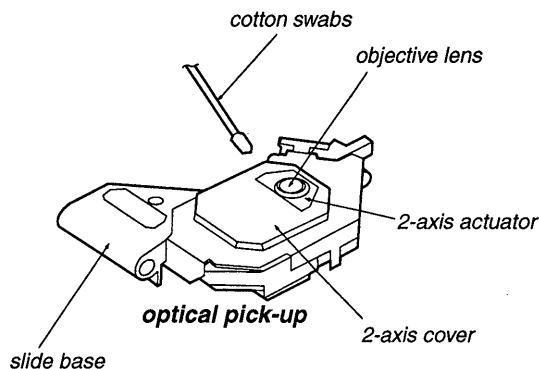
#### Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output Power: less than 44.6  $\mu$ W\*
  - \* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

### CAUTION

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

### NOTES ON CLEANING THE OBJECTIVE LENS



Apply CD lens cleaner B-4 (Part No.: J-2501-000-A) to cotton swabs (narrow type) (Part No.: J-2501-023-A) to be lightly wet. Use a force (about 5 g (0.18 oz)) to make the objective lens in contact with the bottom lightly, and clean the lens by spirals as following below. Replace the cotton swab and repeat this cleaning two or three times.



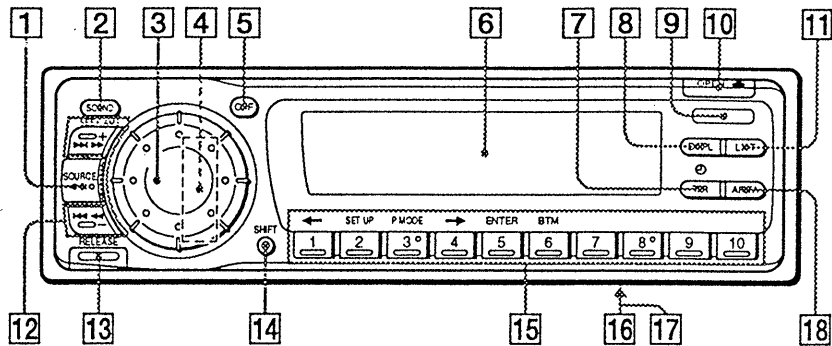
#### Notes:

Do not force to push the objective lens. Otherwise, the plate spring supporting the objective lens will be bent, causing a deteriorated RF waveform.

Never touch anything other than the objective lens. Otherwise, a significant deterioration occurs in the RF waveform.

## SECTION 1 GENERAL

### Location of controls



Refer to the pages for details.

- |  |  |
|--|--|
| <p>1 SOURCE (source select) button 6, 9, 12, 17, 18, 20, 22, 23, 25</p> <p>2 SOUND button 15, 22, 23, 24, 25, 26</p> <p>3 Dial (volume/bass/treble/balance/fader control) buttons 5, 12, 15, 20, 21, 22, 23, 24, 25</p> <p>4 RESET button (located on the front side of the unit hidden by the front panel) 4</p> <p>5 OFF button 4, 6</p> <p>6 Display window</p> <p>7 TIR button 12, 13</p> <p>8 DSPL (display mode change) button 6, 9, 10, 17, 20 (CDX-C910RDS)</p> <p>9 Receptor for the optional wireless remote</p> <p>10 OPEN/▲ (eject) button 6</p> <p>11 LIST button<br/>Disc Memo 20<br/>DSP Custom File 23<br/>List-up 21<br/>RDS Programme 13, 14</p> <p>12 SEEK/AMS (seek/Automatic Music Sensor/manual search) button 6, 7, 8, 9, 12, 13, 14, 17, 18, 19, 21</p> <p>13 RELEASE (front panel release) button 4, 27</p> | <p>14 SHIFT button<br/>BTM 9<br/>P.MODE 7, 8, 9, 11, 17, 18, 19, 20, 21, 22, 23<br/>SET UP 5, 14, 16, 17, 26</p> <p>15 During radio reception:<br/>Number buttons 9<br/>During CD/MD playback:<br/>Direct disc selection buttons 17</p> <p>16 POWER SELECT switch (located on the bottom of the unit)<br/>See "POWER SELECT Switch" in the Installation/Connections manual.</p> <p>17 DIGITAL/ANALOG switch (located on the bottom of the unit)<br/>See "DIGITAL/ANALOG Switch" in the Installation/Connections manual.</p> <p>18 AF/TA button 10, 11, 12 (CDX-C910RDS)</p> <p>When the positions of switches 16 and 17 have been changed, be sure to press the reset button after connecting power.</p> |
|--|--|

# Installation

# Instalación

# 安裝

## Precautions

- Do not tamper with the four holes on the upper surface of the unit. They are for tuner adjustments to be done only by service technicians.
- There must be a distance of at least 5 cm between the unit and the car's shift lever to open and close the front panel. Install the unit so that it does not interfere with gear shifting and other driving operations.
- Choose the mounting location carefully so that the unit does not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

## Mounting angle adjustment

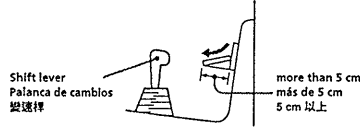
Adjust the mounting angle to less than 20°.

## Precauciones

- No toque los cuatro orificios de la superficie superior de la unidad. Estos orificios son para ajustes del sintonizador que solamente deberán realizar técnicos de reparación.
- Debe haber una distancia de al menos 5 cm entre la unidad y la palanca de cambios del automóvil para posibilitar la apertura y cierre del panel frontal. Instale la unidad de forma que no interfiera con la caja de cambios ni con otras operaciones de conducción.
- 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 caliente de calefacción, o a polvo, suciedad o vibraciones excesivas.
- Para realizar una instalación segura y firme, emplee solamente la ferretería de montaje suministrada.

## Ajuste del ángulo de montaje

Ajuste el ángulo de montaje a menos de 20°.



## 使用前須知事項

- 請勿擅自觸動本機頂部的四個小孔。該孔只供專業人員調整調諧機時之用。
- 本機和變速桿之間的距離至少要大於 5 cm，以便於開／關前面板。安裝選擇安裝位置，使裝置不影響換檔及其他駕駛操作。
- 本機請放在不妨礙司機駕駛之處。
- 避免把本機放在高溫之處，如陽光直射照射、暖氣機前、或灰塵及多、潮濕容易受震動等地方。
- 為了安全起見，安裝時請使用附屬的安裝道具。

## 安裝角度之調整

請在 20 度以內調整安裝角度。

## How to detach and attach the front panel

Be sure to detach the front panel before you start installing the unit.

### To detach

Before detaching the front panel, be sure to press **(OFF)** first. Press **(RELEASE)** to open up the front panel. Then slide the front panel a little to the left, and pull it off towards you.

### To attach

Align part ④ of the front panel to part ③ of the unit as illustrated, and push until it clicks.

## Forma de extraer e instalar el panel frontal

Antes de instalar la unidad, extraiga el panel frontal.

### Para extraerlo

Antes de extraer el panel frontal, ceriéndose de presionar **(OFF)**. Pulse **(RELEASE)** para abrir el panel frontal. A continuación, deslícelo ligeramente hacia la izquierda y extráigalo tirando hacia fuera.

### Para instalarlo

Alinee la parte ④ del panel con la parte ③ de la unidad como muestra la ilustración y, a continuación, ejerza presión hasta oír un chasquido.

## 前板之裝卸

開始安裝以前，請先拆下前板。

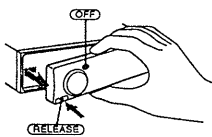
### 要拆卸時

要拆卸前板之前，請先按壓 **(OFF)**。按壓 **(RELEASE)** 以打開前板，然後將前板稍向左滑動，並向前拉出。

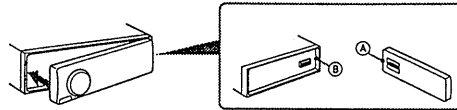
### 要安裝時

將前板的 ④ 部分如圖所示對準裝置的 ③ 部分，然後一直推至聽“卡搭”聲。

### To detach para extraerlo 要拆卸時



### To attach para instalarlo 要安裝時



## Mounting example

Installation in the dashboard

## Ejemplo de montaje

Instalación en el salpicadero

## 安裝例子

安裝於儀表板上

<p><b>1</b></p> <p>With the TOP marking up Con la marca TOP hacia arriba. 使註有 TOP 字樣之面向上。</p>	<p><b>2</b></p> <p>Bend these claws, if necessary. Si es necesario, doble estas uñas. 如有必要，折彎這些小翼片。</p>	<p><b>3</b></p>	<p><b>4</b></p> <p>Dashboard / Salpicadero / 儀表板 Fire wall / Panel cortafuegos / 防火壁</p>
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## Mounting the unit in a Japanese car

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

## Montaje de la unidad en un automóvil japonés

Usted no podrá instalar esta unidad en algunos automóviles japoneses. En tal caso, consulte a su proveedor Sony.

## 要安裝於日本汽車裡

有的汽車不能安裝本機，此時，請向離貴地最近的 Sony 經銷店查詢。

<p><b>TOYOTA</b></p> <p>① max. size 5 x 8 mm Tamaño máx. 5 x 8 mm 最大尺寸 5 x 8 mm</p> <p>Bracket Soporte 襯墊</p> <p>Existing parts supplied to your car Piezas existentes suministradas con su automóvil 安裝時，請使用附屬於汽車的各種道具。</p>	<p><b>NISSAN</b></p> <p>① max. size 5 x 8 mm Tamaño máx. 5 x 8 mm 最大尺寸 5 x 8 mm</p> <p>Bracket Soporte 襯墊</p> <p>Existing parts supplied to your car Piezas existentes suministradas con su automóvil 安裝時，請使用附屬於汽車的各種道具。</p>
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**Note**  
To prevent malfunction, install only with the supplied screws ① and use existing parts supplied to your car.

**Nota**  
Para evitar que se produzcan fallos, realice la instalación solamente con los tornillos suministrados ① y utilice los componentes suministrados para el automóvil.

**註**  
為防止發生意外事故，安裝時只能使用附屬的螺絲 ① 及汽車所附屬的部件。

## Installing the rotary remote

### Notes

- Choose the mounting location carefully so that the rotary remote will not interfere with operating the car.
- Do not install the rotary remote in a place where it may jeopardize the safety of the (front) passenger in anyway.
- When installing the rotary remote, be sure not to damage the electrical cables etc. on the other side of the mounting surface.
- Avoid installing the rotary remote where it may be subject to high temperatures, such as from direct sunlight or hot air from the heater etc.

## 安裝旋轉型遙控器

### 註

- 旋轉型遙控器請裝在不妨礙汽車駕駛之處。
- 不可把旋轉型遙控器裝在對乘客有危險的地方。
- 按遙控器時，請注意不要讓螺絲釘觸及按後面反面的電線等。
- 避免把遙控器安裝在過熱，如直射陽光底下或暖氣機熱氣吹來的地方。

## Instalación del mando rotativo

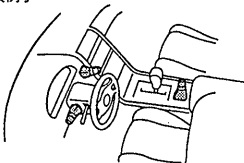
### Notes

- Elija cuidadosamente el lugar de montaje de forma que el mando rotativo no dificulte la conducción del coche.
- No instale el mando rotativo en un lugar donde pueda poner en peligro la seguridad del pasajero acompañante.
- Al instalar el mando rotativo, asegúrese de no dañar los cables de electricidad, etc., del otro lado de la superficie de montaje.
- Procure no instalar el mando rotativo en un lugar expuesto a altas temperaturas, como a la luz solar directa o al aire caliente de la calefacción, etc.

## Example of a mounting location

### Ejemplo de un lugar de montaje

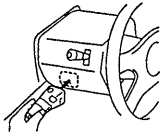
#### 安裝例子



- 1** Choose the exact location for the rotary remote to be mounted, then clean the mounting surface.  
Dirt or oil impair the adhesive strength of the double-sided adhesive tape.

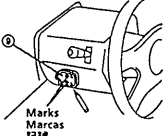
Una vez elegido el lugar de montaje del mando rotativo, limpie previamente la superficie de montaje.  
La suciedad o la grasa dañan la intensidad adhesiva de la tira adhesiva por los dos caras.

選擇一個適合安裝旋轉型遙控器的地方。  
表面灰塵或油污會減低兩面膠帶的黏貼力。


- 2** Mark two positions for the supplied screws.  
Use the screw holes on the mounting hardware ② to mark the positions.

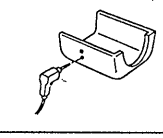
Marque dos posiciones para los tornillos suministrados.  
Para ello, utilice los orificios para tornillos de la ferretería de montaje ②.

畫 2 個供螺絲釘鑽孔之處。  
按照安裝道具 ② 的螺絲釘孔位置作記號。


- 3** Remove the steering wheel column cover, and drill 2 mm diameter holes where you have marked.

Extraiga la cubierta de la columna de la dirección y haga orificios de 2 mm. de diámetro en los lugares marcados.

取下轉向柱外殼，並在所作記號之處 開 2mm 大小的釘孔。


- 4** Warm the mounting surface and the double-sided adhesive tape on the mounting hardware ② to the temperature of 20°C to 30°C, and attach the mounting hardware onto the mounting surface by applying even pressure. Then screw it down with the supplied screws ①.

Attach a piece of heavy duty tape etc. on the other side of the mounting surface to cover the protruding tips of the screws so that they will not interfere with the electrical cables etc. inside the steering wheel column.

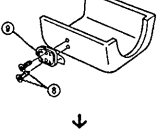
Caliente la superficie de montaje y la cinta adhesiva de doble cara de la ferretería de montaje ② a una temperatura entre 20°C y 30°C, y ajuste la ferretería de montaje a la superficie de montaje ejerciendo una presión uniforme. A continuación, apriete los tornillos ① suministrados.

Adhiere un trozo de cinta adhesiva resistente, etc. en el otro lado de la superficie de montaje para cubrir los extremos de los tornillos que sobresalgan, de forma que no interfieran con los cables de electricidad, etc., del interior de la columna de dirección.

把安裝面及安裝道具 ② 的兩面膠帶加熱至 20°C 到 30°C 程度，然後把安裝道具貼在轉向柱外殼，貼時所施加壓力須均勻。以附屬的螺絲釘 ① 把安裝道具釘緊。

在安裝面的反面之螺絲釘尖端部分，貼張強力膠帶等，以免隔密轉向柱內部的電線等。

Heavy duty tape etc.  
Cinta adhesiva resistente, etc.  
強力膠帶等


- 5** After installing the steering wheel column cover, attach the rotary remote to the mounting hardware by aligning the four holes on the bottom of the rotary remote to the four catches on the mounting hardware and sliding the rotary remote until it locks into place as illustrated.

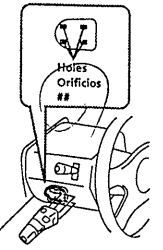
Note  
If you are mounting the rotary remote to the steering wheel column, make sure that the protruding tips of the screws on the inner surface of the column do not in anyway hinder or interfere with the movement of the rotating shaft, operative parts of the switches or the electrical cables etc. inside the column.

Una vez instalada la cubierta de la columna de dirección, fije el mando rotativo a la ferretería de montaje alineando los cuatro orificios de la parte inferior del mando con los cuatro enganches de la ferretería de montaje. A continuación, deslice el mando hasta que encaje en su sitio como se muestra en la ilustración.

Note  
Si monta el mando rotativo en la columna de dirección, asegúrese de que los extremos de los tornillos que sobresalgan de la superficie interior de la columna no dificulten el movimiento del eje de rotación ni los componentes operativos de los conmutadores o los cables de electricidad, etc., del interior de la columna.

在轉向柱外殼重新裝上以後，把遙控器裝在安裝道具上。裝時請把遙控器底部的 4 個小孔對準安裝道具的 4 個小鈎，然後按照插圖所示，把遙控器插入道具。

註  
在把遙控器裝在轉向柱外殼時，必須注意轉向柱內的螺絲釘之尖端，不可對旋轉軸或轉向柱內部的轉軸、開關的操作部分或電線等。



## Reset button

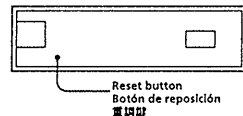
When the installation and connections are over, be sure to press the reset button with a ballpoint pen etc.

## 重調鍵

安裝和線路之連接完畢以後，請以原子筆等按壓重調鍵。

## Botón de reposición

Quando haya finalizado la instalación y las conexiones, cerciórese de presionar el botón de reposición con un bolígrafo, etc.



## Inverter

- Install the inverter far away from the unit using double-sided adhesive tape or something similar.
- Do not bundle the inverter's cord with a pin cord or other connecting cord.
- Be sure not to mount the inverter under a mat or in a place exposed to splashing water of air conditioner. It may cause electric shock or damage to the unit.

### Note

If the inverter's cord is pinched, the display indications may not appear.

## (US, Canadian model)

### Note for Connecting

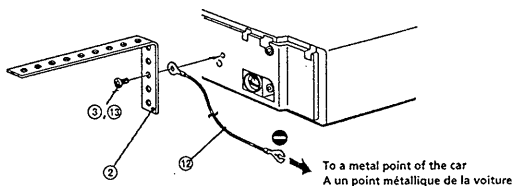
If there is alternator noise (a whining sound when raising engine speed), ground the master unit by connecting it to a metal point of the car with the supplied chassis ground cord ②. Connect the ground cord to the master unit with part ③ or ④ as shown in the illustration.

In the case of connections for a Japanese car, use only the supplied part ③ or ④.

### Remarque sur le raccordement

Si l'alternateur génère des interférences (pleurage lorsque le régime moteur augmente), reliez l'appareil principal à la masse en le raccordant à un point métallique de la voiture au moyen du fil de masse pour châssis ② fourni. Raccordez le fil de masse à l'appareil principal au moyen de la pièce ③ ou ④ comme indiqué dans l'illustration.

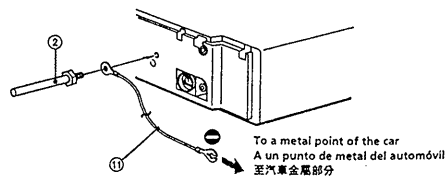
Dans le cas d'un raccordement sur une voiture japonaise, utilisez uniquement la pièce ③ ou ④ fournie.



## (AEP, UK, German, E model)

### Note for Connecting

If there is alternator noise (a whining sound when raising engine speed), earth the master unit by connecting it to a metal point of the car with the supplied chassis earth cord ①. Connect the earth cord to the master unit with part ② as shown in the illustration.



# Connections

# Conexiones

# 線路之連接

## Caution

- This unit is designed for negative earth 12 V DC operation only.
- Before making connections, disconnect the earth terminal of the car battery to avoid short circuits.
- Connect the yellow and red power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- Run all earth wires to a common earth point.

## Precauciones

- Esta unidad ha sido diseñada para alimentarse con 12 V CC, negativo a masa, solamente.
- Antes de realizar las conexiones, desconecte el terminal de puesta a masa de la batería del automóvil a fin de evitar cortocircuitos.
- Conecte los cables conectores de alimentación amarillo y rojo solamente después de haber conectado los demás.
- Cerciórese de conectar el cable conector de alimentación rojo a un terminal de 12 V positivo que se energice al poner la llave de encendido en la posición para accesorios.
- Conecte todos los conductores de puesta a masa a un punto común.

## 注意

- 本機只能使用負極接地 12 V 直流電源。
- 連接以前，先拔取汽車電池的接地端子，以免發生短路。
- 紅色和黃色電源輸入導線必須在所有電線都連接完畢以後才連接。
- 紅色電源輸入導線請連接到汽車發動機點火鑰匙轉在輔助位置時才通電狀態的正 12 V 電源端子。
- 所有地線都必須連接到同一地點才行。

## If your car has no accessory position on the ignition key switch — POWER SELECT switch

The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear if your car has no accessory position on the ignition key switch. To avoid this battery wear, set the POWER SELECT switch located on the bottom of the unit to the 0 position, then press the reset button. The illumination is reset to stay off while the unit is not being played.

**Note**  
The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the 0 position.

## Si el automóvil no dispone de posición para accesorios en la llave de encendido

La iluminación del panel frontal ha sido ajustada en fábrica para que esté activada aunque la unidad no se encuentre en reproducción. Sin embargo, este ajuste puede provocar cierta descarga de la batería del automóvil si éste no dispone de posición para accesorios en la llave de encendido. Para evitar esto, ponga el selector POWER SELECT, situado en la base de la unidad, en la posición 0 y, después, presione el botón de reposición. La iluminación estará desactivada cuando la unidad no se encuentre en reproducción.

**Nota**  
La alarma de precaución del panel frontal no se activará cuando el selector POWER SELECT se encuentre en la posición 0.

## 若要在汽車發動機點火鑰匙開關沒具輔助位置的汽車裡使用時

前板的照明燈在未出廠以前，被設定在即使不使用也會發亮的狀態。若要在汽車發動機點火鑰匙開關沒具輔助位置的汽車裡使用本機的話，此照明燈將會一直消耗電量的汽車電池電力。因此為了避免在這種狀態下的電池消耗，請把本機底下的 POWER SELECT 開關設定在 0 之處，然後按壓前板的重調鍵。則不使用本機時，照明燈便不發亮。

**註**  
POWER SELECT 開關設定在 0 的話，前板的操作錯誤警告功能便失效。

## Frequency select switch (E model)

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

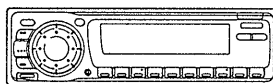
## Selector de frecuencia

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

## 頻率選擇開關

本裝置的 AM (FM) 調諧區間在出廠以前被設定在 9 K (50 K) 位置上。若貴地的頻率區間為 10 kHz (200 kHz)，連接以前請先將本機機底的選擇開關設定在 10 K (200 K) 之處。

Change the position with a jeweler's screwdriver, etc.  
Cambie la posición con un destornillador de relojero, etc.  
以珠寶行用的尖嘴起子等改變開關位置。



## When making a digital connection

### — DIGITAL/ANALOG Switch

To connect a unit with an optical cable, connect the optical cable (optional) to the optical adapter (optional), and plug the adapter into the special socket on the rear of the unit. Then set the DIGITAL/ANALOG switch located at the bottom of the unit to DIGITAL.

- Note**
- The DIGITAL/ANALOG switch is factory-set to ANALOG.
  - After changing the switch position, make sure to press the Reset button.
  - If the switch is not correctly set, the unit will work without producing a sound.

## Para realizar una conexión digital

### — Selector DIGITAL/ANALOG

Para conectar una unidad con un cable óptico, conecte un cable óptico (opcional) a un adaptador óptico (opcional), y enchufe el adaptador en el receptáculo especial del panel posterior de la unidad. Después ponga el selector DIGITAL/ANALOG en la base de la unidad en DIGITAL.

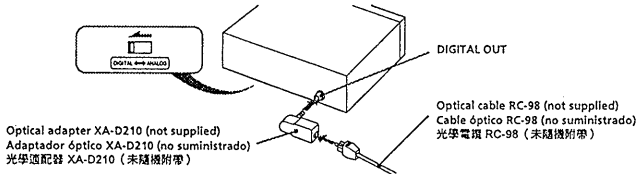
- Notas**
- El selector DIGITAL/ANALOG ha sido ajustado en fábrica a ANALOG.
  - Después de haber cambiado la posición del selector, cerciórese de presionar el botón de reposición.
  - Si el selector no está correctamente ajustado, la unidad funcionará sin producir sonido.

## 數碼連接

### — DIGITAL/ANALOG (數碼/模擬) 開關

要用光學電纜連接裝置，請將光學電纜（選購件）連接至光學適配器（選購件），並將該適配器插入裝置背面的特殊插座中。然後將位於裝置底部的 DIGITAL/ANALOG 開關設定於 DIGITAL。

- 註**
- 本裝置出廠時，DIGITAL/ANALOG 開關設定於 ANALOG。
  - 改變開關後，務請按一下重調鍵。
  - 若開關設定不正確，本裝置將不能發出聲音。



When you change the position of the switch, be sure to press the reset button after the connections are completed.

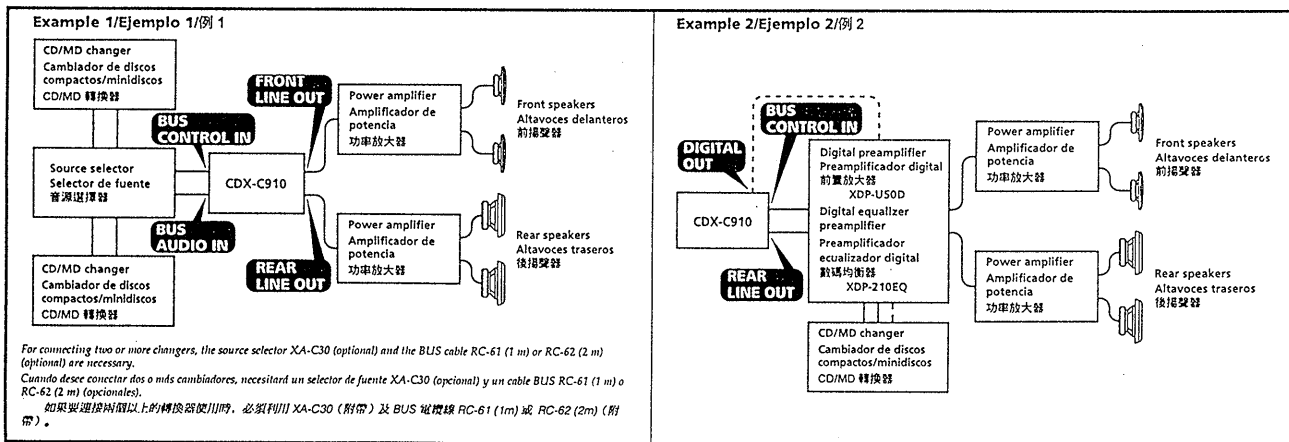
Cuando haya cambiado la posición del selector, cerciórese de presionar uno de el botón de reposición después de haber finalizado las conexiones.

改變開關位置時，在連接好機器後請一定按一下重調鍵。

## Connection diagram

## Diagrama de conexiones

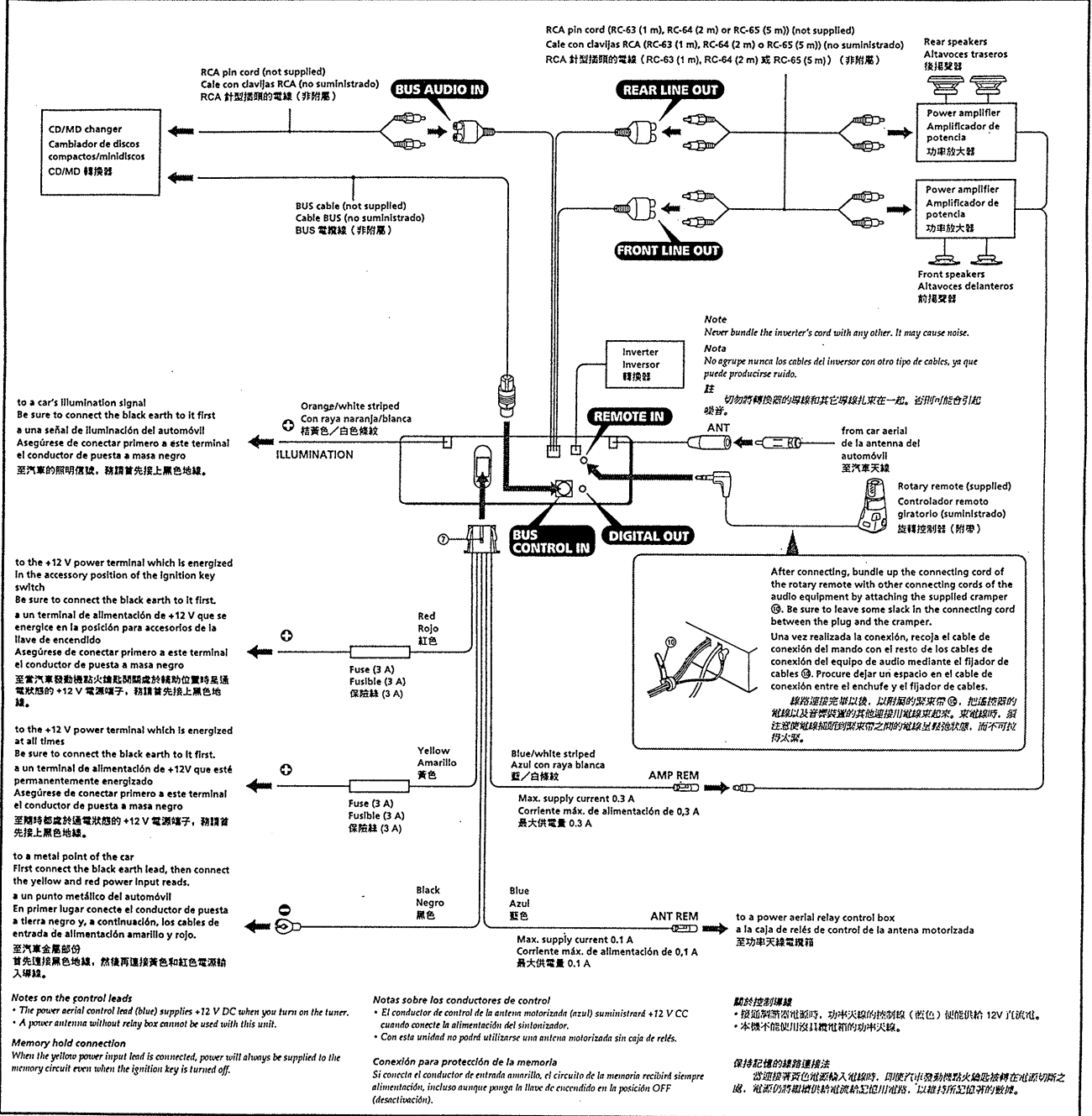
## 線路連接方塊圖



Connection example

Ejemplo de conexión

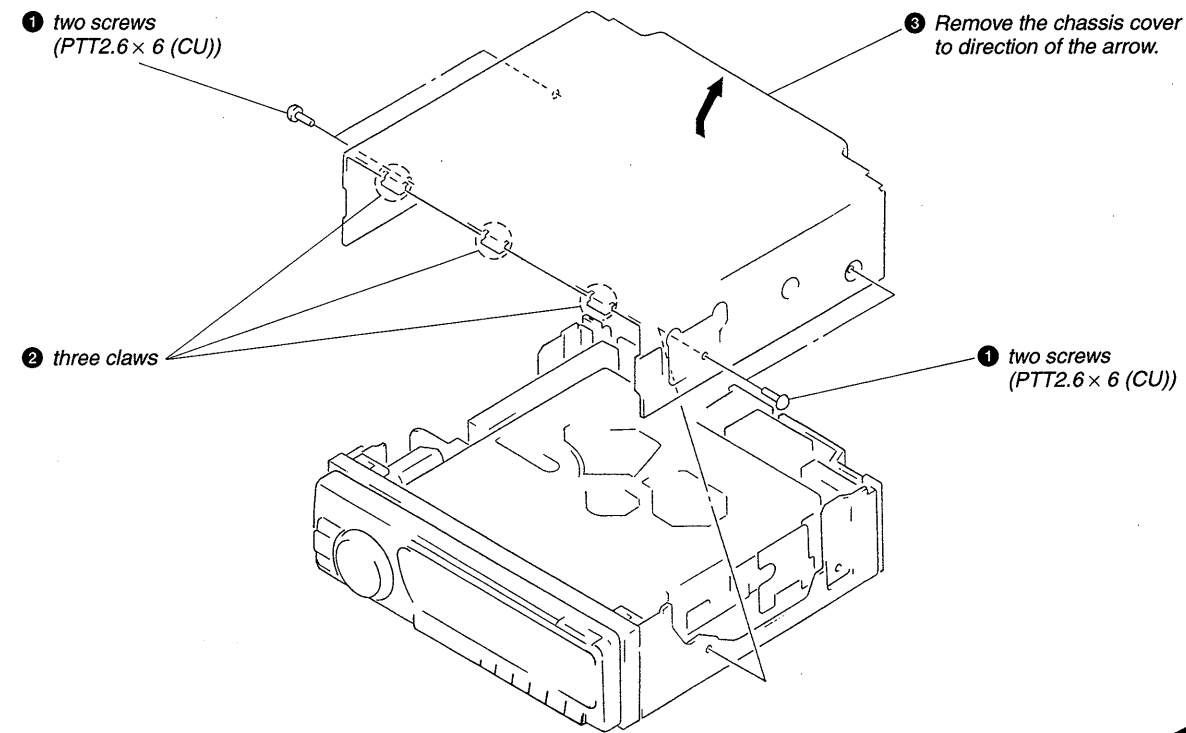
線路之連接圖例



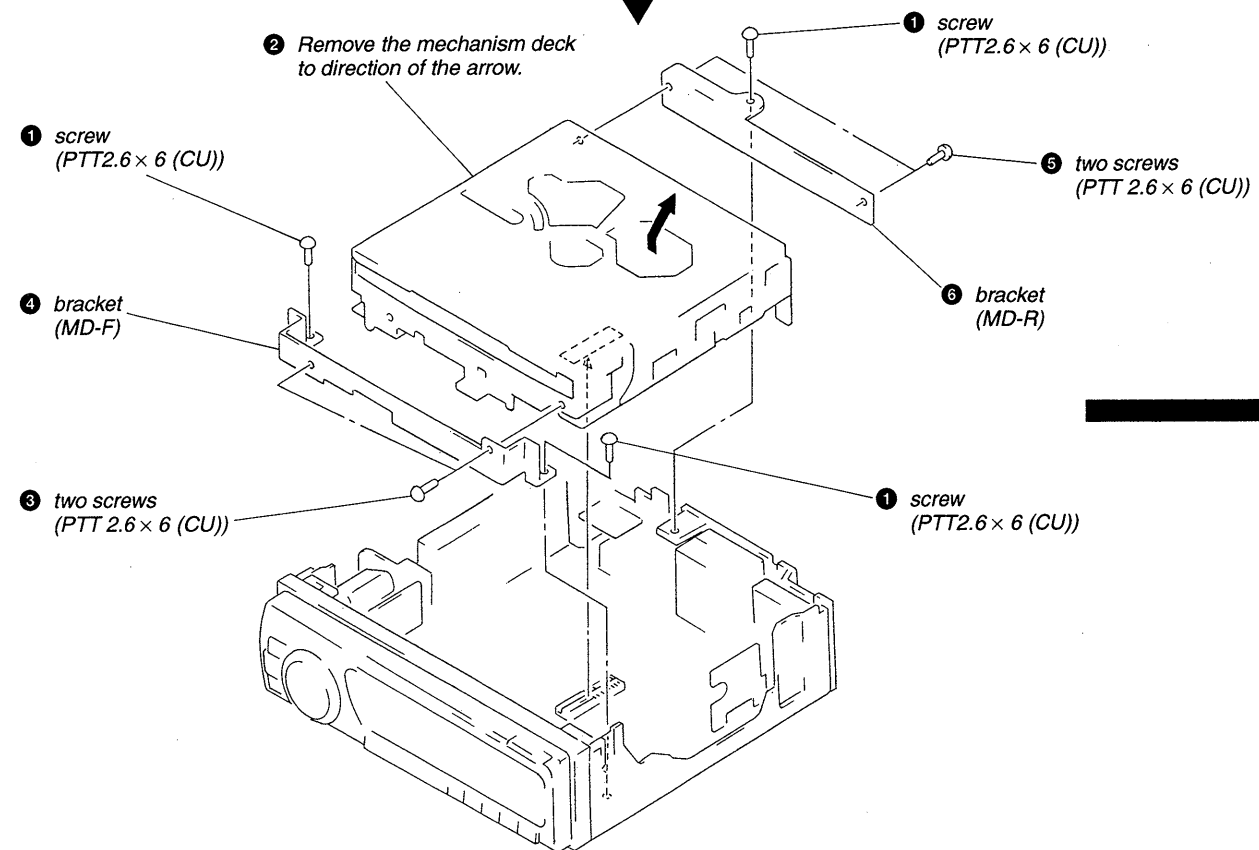
## SECTION 2 DISASSEMBLY

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

### CHASSIS COVER

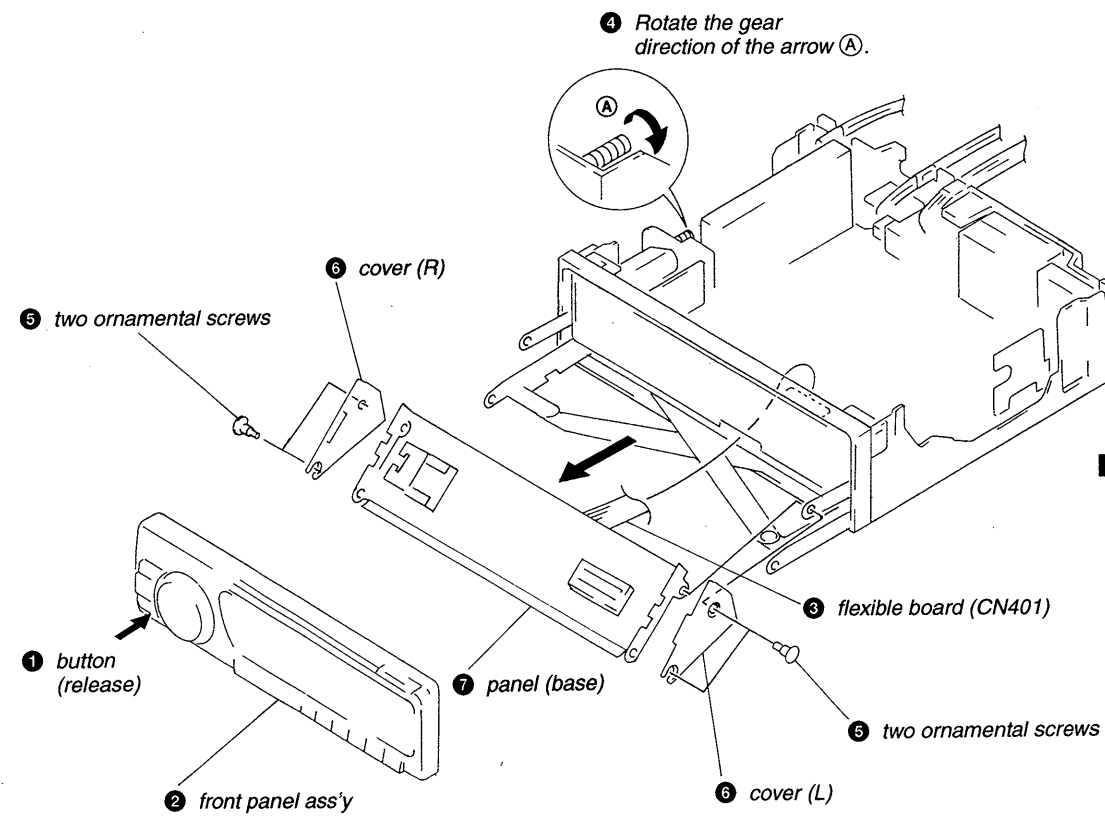


### MECHANISM DECK SECTION

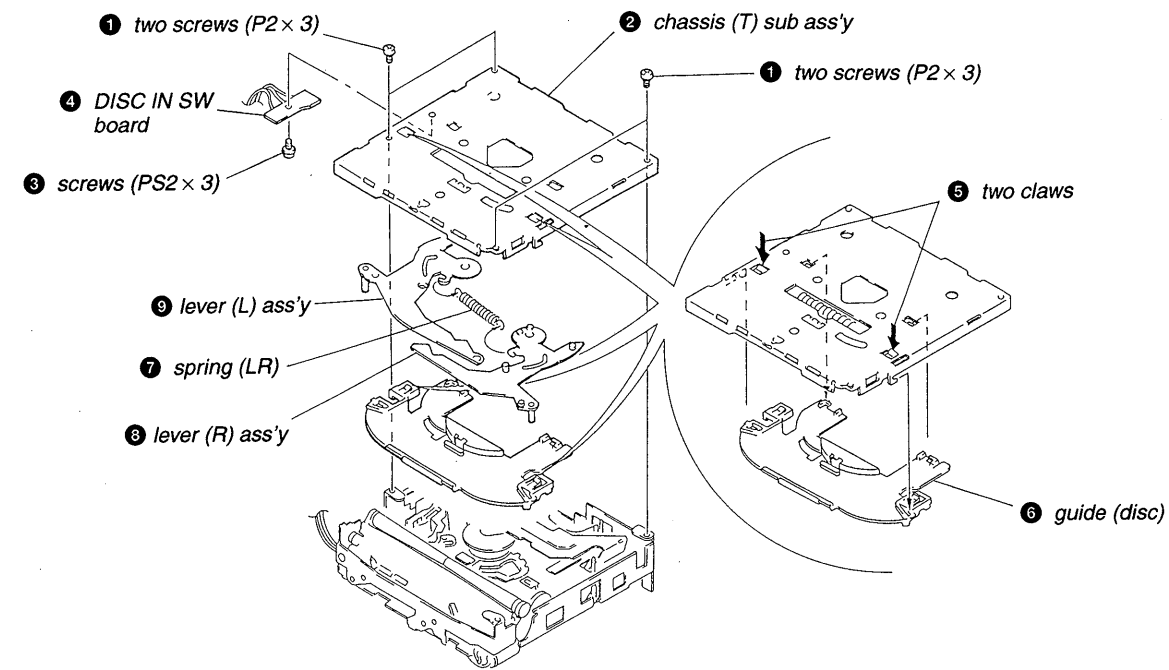


- 8 -

### FRONT PANEL SECTION

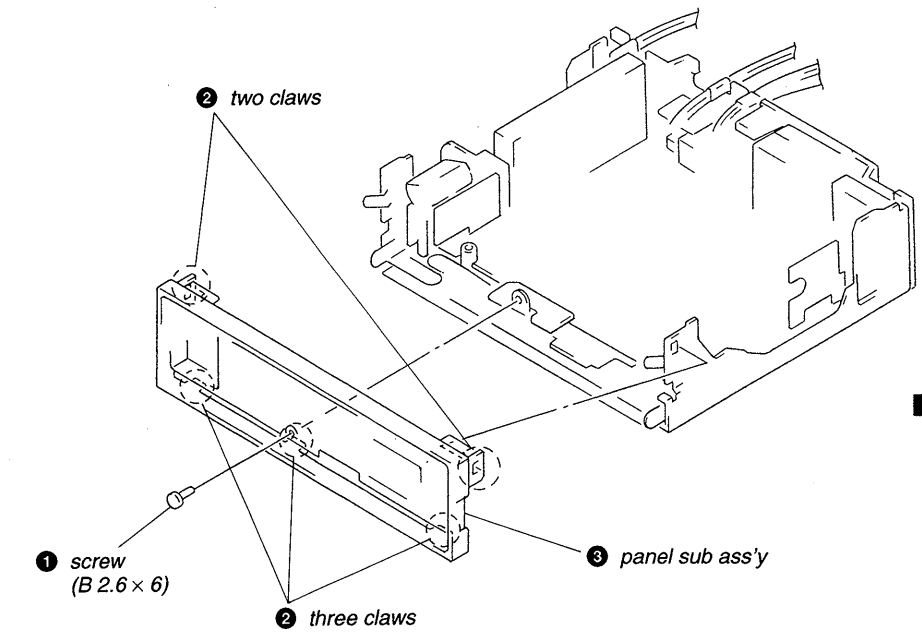


### DISC IN SW BOARD, CHASSIS (T) SUB ASS'Y

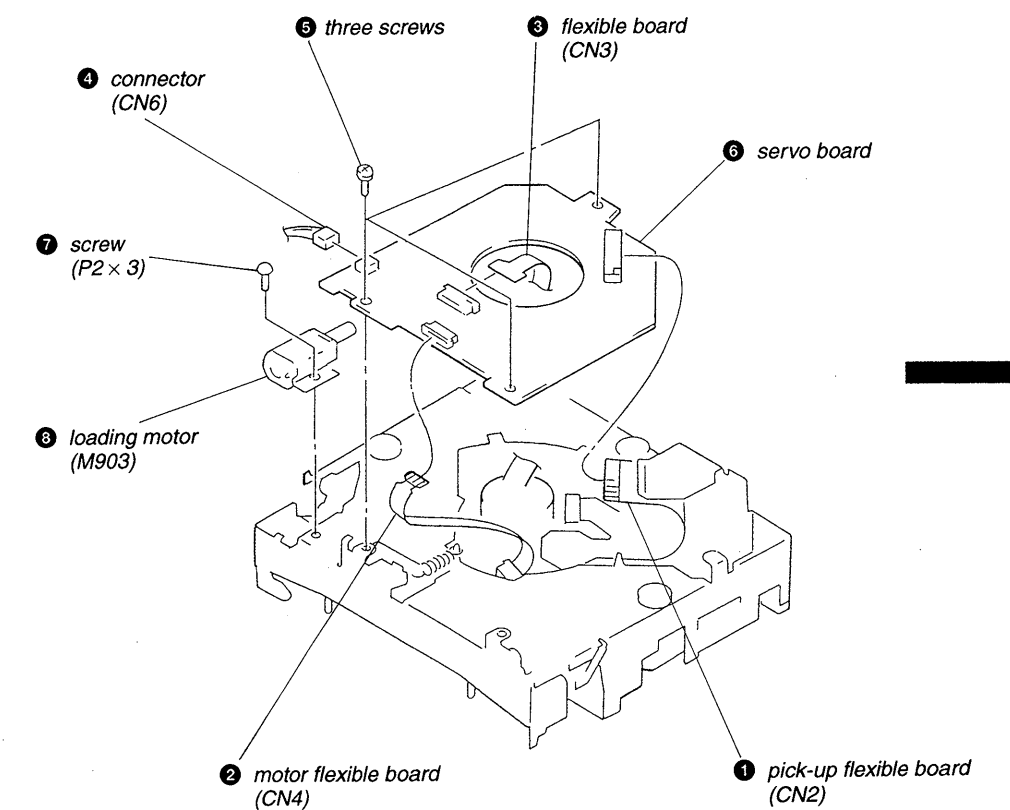


- 9 -

### PANEL SUB ASS'Y



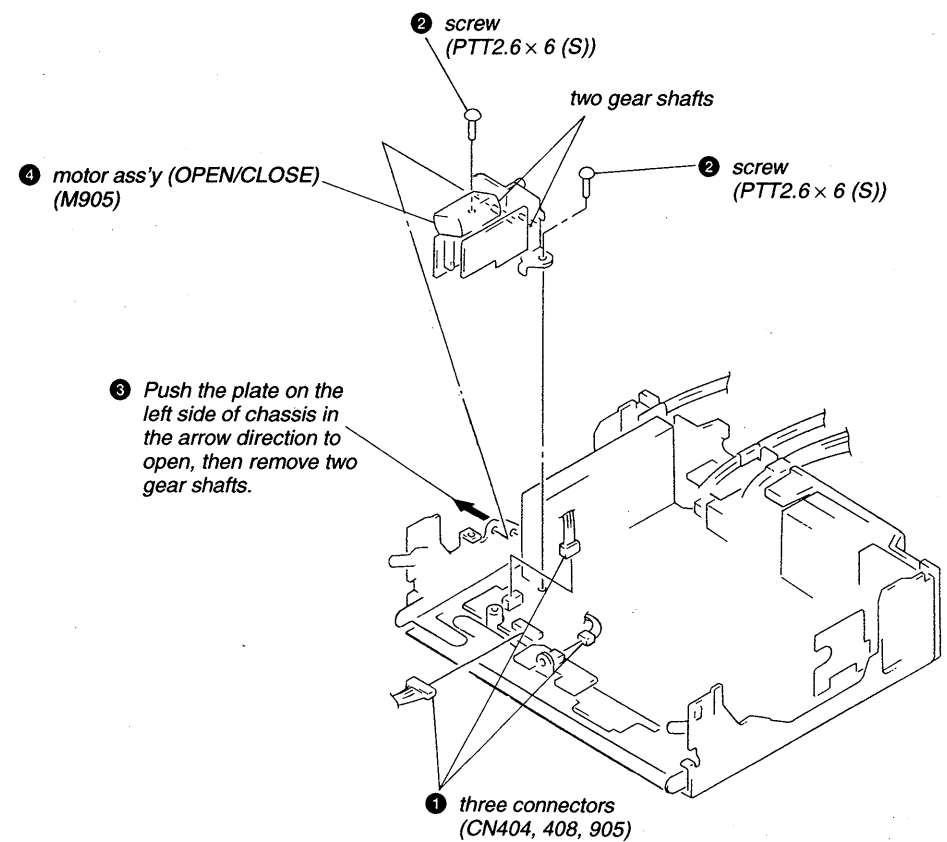
### SERVO BOARD, LOADING MOTOR (M903)



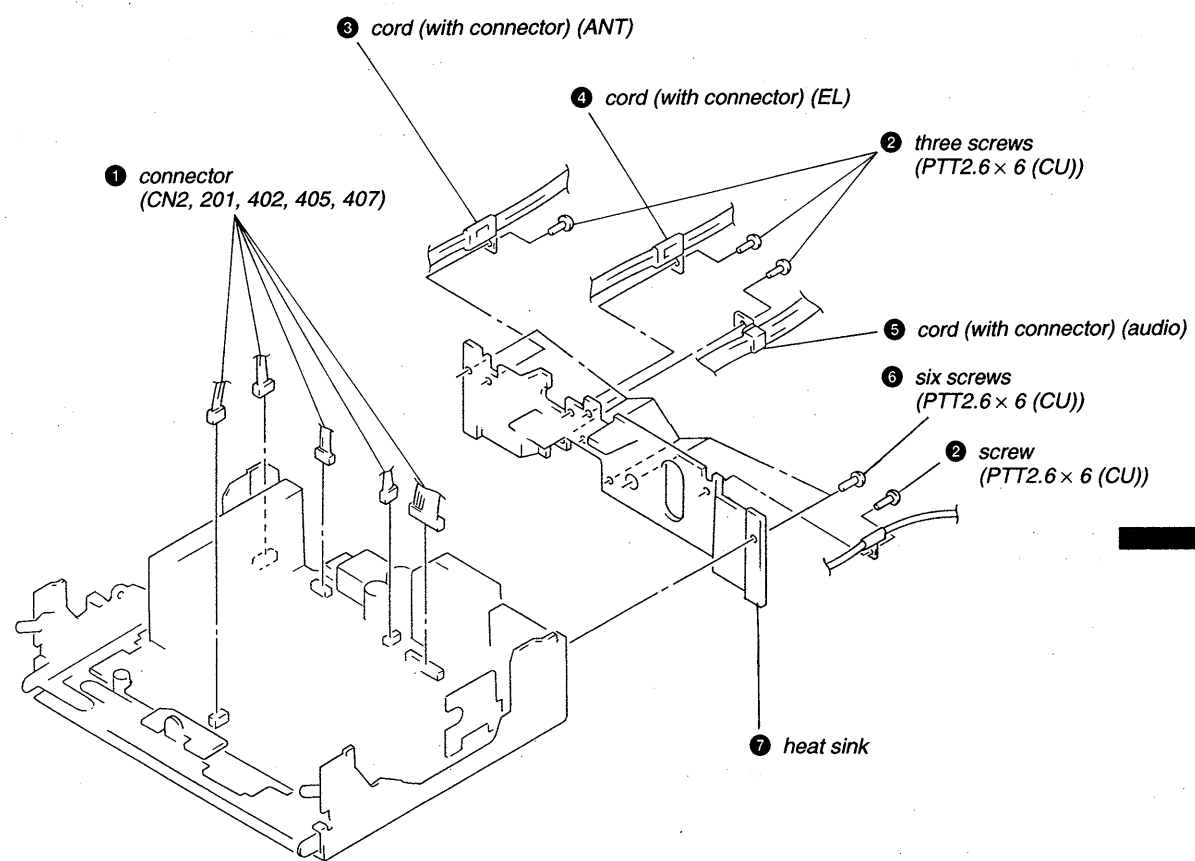
- 10 -



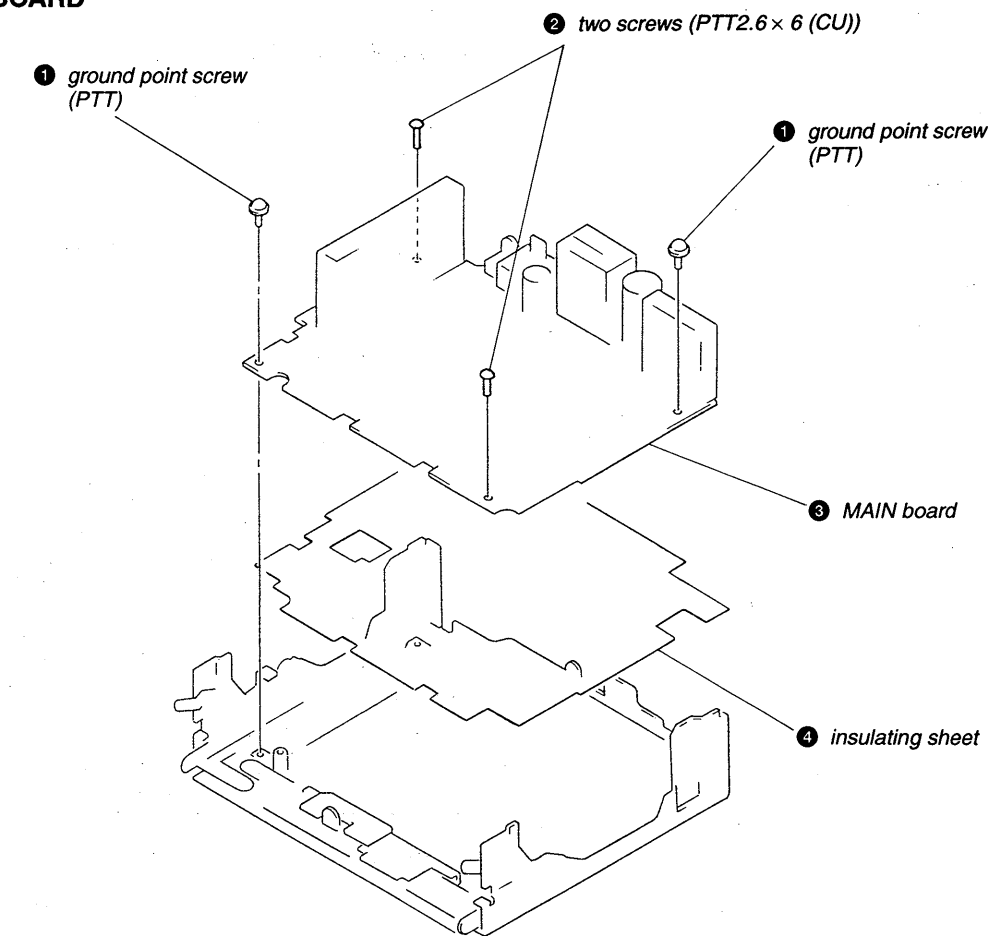
**MOTOR ASS'Y (OPEN/CLOSE) (M905)**



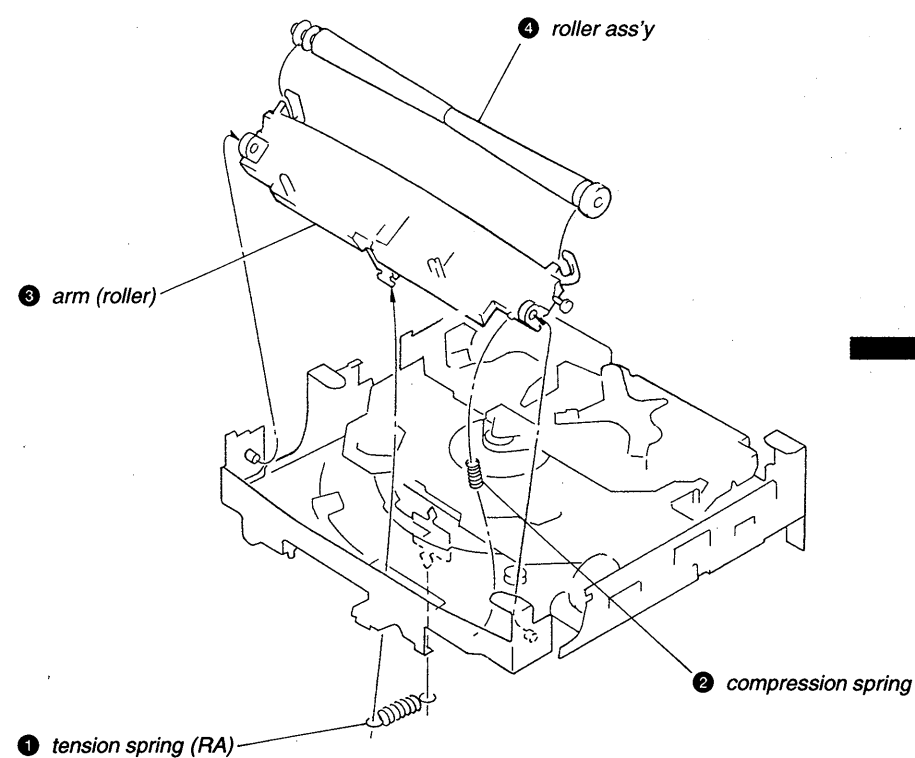
**HEAT SINK**



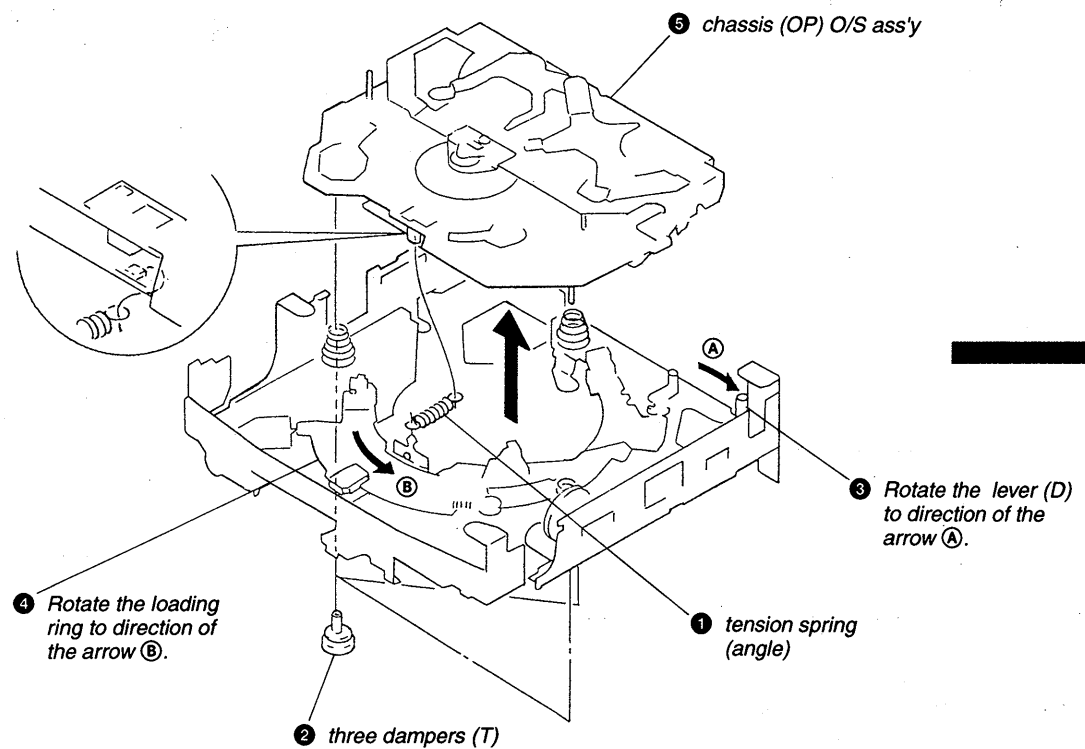
**MAIN BOARD**



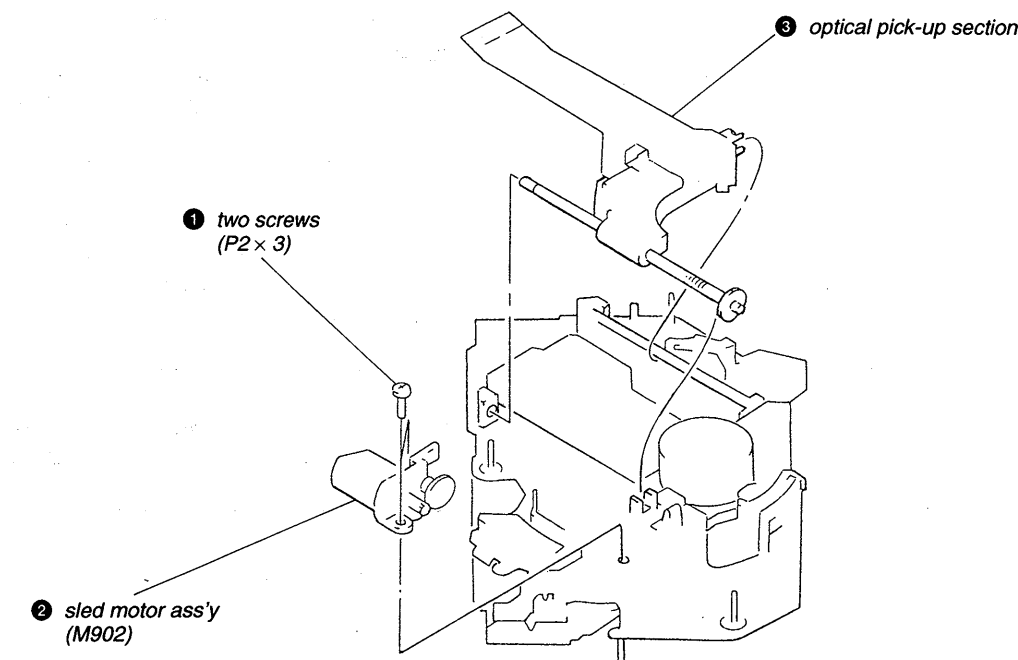
**ROLLER ASS'Y, ARM (ROLLER)**



**CHASSIS (OP) O/S ASS'Y**



**OPTICAL PICK-UP SECTION**



## SECTION 3 TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and AM (MW) Auto Scan/Stop Level adjustments can be performed easier than it in ordinary procedure.

### Set the Test Mode

1. Set the "OFF" mode.
2. Push the preset **[4]** button.
3. Push the preset **[5]** button.
4. Press the preset **[1]** button for two seconds.
5. Then the display indicates all lights, the test mode is set.

### Release the Test Mode

1. Push the "OFF" button.

## SECTION 4 ELECTRICAL ADJUSTMENTS

### CD SECTION

CD section adjustments are done automatically in this set.

### TUNER SECTION

0dB=1 $\mu$ V

### Cautions during repair

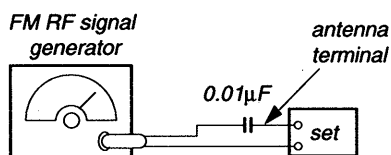
When the front end is defective, replace it by a new one because its internal block is difficult to repair.

### FM Auto Scan/Stop Level Adjustment

#### Setting:

SOURCE button: FM

FREQUENCY SELECT switch (E model): 10k



Carrier frequency : 97.9MHz (US, Canadian, E model)  
98.0MHz (AEP, UK, German model)

Output level : 22dB(12.6 $\mu$ V)

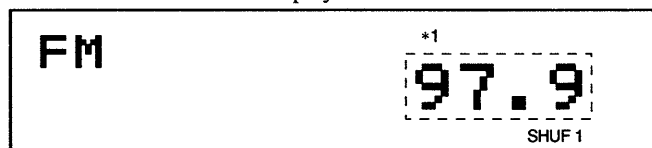
Mode : mono

Modulation : 1kHz, 75kHz deviation

#### Procedure:

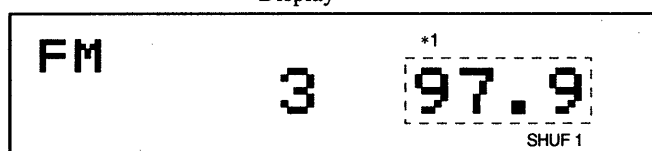
1. Set to the test mode.
2. Push the **[SOURCE]** button and set to FM.

Display



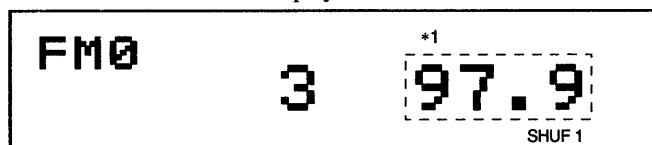
3. Push the preset **[3]** button.

Display



4. Adjust with the volume RV2 on TU1 so that the "FM" indication turns to "FM0" indication on the display window. But, in case of already indicated "FM0", turn the RV2 so that put out light "0" indication and adjustment.

Display

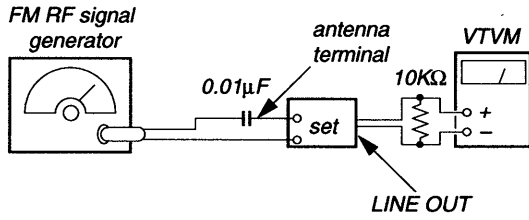


\*1: AEP, UK and German models are indicates "98.0".

## FM Stereo Separation Adjustment

### Setting:

SOURCE button: FM  
 FREQUENCY SELECT switch (E model): 10 K



Carrier frequency : 97.9MHz (US, Canadian, E model)  
 98.0MHz (AEP, UK, German model)  
 Output level : 60dB(1mV)  
 Mode : stereo  
 Modulation : main: 1kHz, 75kHz deviation (100%)  
 19kHz pilot: 7.5kHz deviation (10%)

### Procedure:

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ <sup>ⓑ</sup> Adjust RV4 on TU1 for minimum reading.
R-CH	R-CH	Ⓒ <sup>ⓒ</sup>
L-CH	R-CH	Ⓓ <sup>ⓓ</sup> Adjust RV4 on TU1 for minimum reading.

L-CH Stereo separation: Ⓐ-Ⓑ

R-CH Stereo separation: Ⓒ-Ⓓ

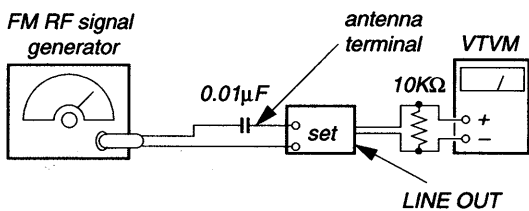
The separation of both channels should be equal.

**Specification:** Separation more than 28dB

## FM Noise Focus Adjustment

### Setting:

SOURCE button: FM  
 FREQUENCY SELECT switch (E model): 10k



Carrier frequency : 97.9MHz (US, Canadian, E model)  
 98.0MHz (AEP, UK, German model)  
 Output level : 60dB(1mV)  
 Mode : mono  
 Modulation : 1kHz, 75kHz deviation

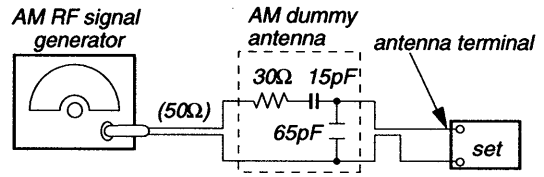
### Procedure:

1. Tune the 97.9 MHz (US, Canadian, E model) or 98.0MHz (AEP, UK, German model).
2. The then output level is supposing that (B) dB.
3. Adjust with the volume RV3 on TU1 so that the output level is (B) -30dB then signal generator input set to -20dB.

## AM (MW) Auto Scan/Stop Level Adjustment

### Setting:

SOURCE button (US, Canadian, E model): AM  
 SOURCE button (AEP, UK, German model): MW  
 FREQUENCY SELECT switch (E model): 10k

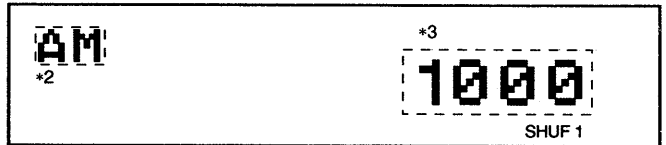


Carrier frequency : 1000kHz (US, Canadian, E model)  
 999kHz (AEP, UK, German model)  
 30% amplitude modulation by 400Hz signal  
 Output level : 35dB (56.2µV) (US, Canadian, E model)  
 33dB (44.7µV) (AEP, UK, German model)

### Procedure:

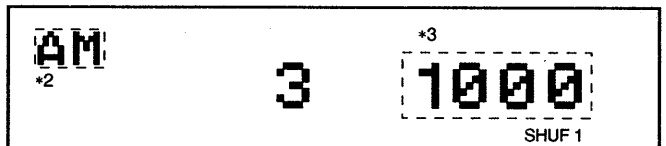
1. Set to the test mode.
2. Push the **SOURCE** button and set to AM (US, Canadian, E model) or MW (AEP, UK, German model).

Display



3. Push the preset **3** button.

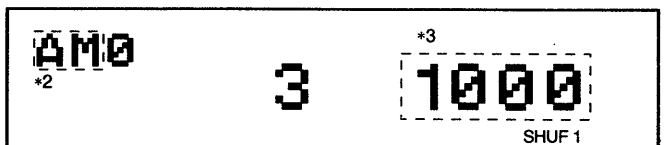
Display



4. Adjust with the volume RV1 on TU1 so that the "AM" or "MW" indication turns to "AM0" or "MW0" indication on the display window.

But, in case of already indicated "AM0" or "MW0", turn the RV1 so that put out light "0" indication and adjustment.

Display



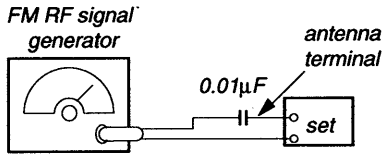
\*2: AEP, UK and German models are indicates "MW".

\*3: AEP, UK and German models are indicates "999".

**FM Signal Meter Adjustment  
(AEP, UK, German model)**

**Setting:**

**SOURCE** button: FM



Carrier frequency : 98.0MHz  
 Output level : 35dB (56.2µV)  
 Mode : mono  
 Modulation : 1kHz, 75kHz deviation

**Procedure:**

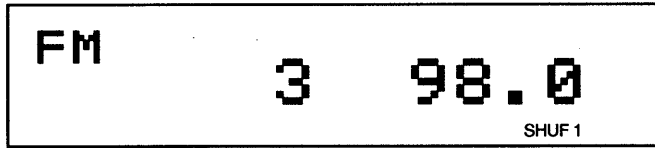
1. Set to the test mode. (See page 14.)
2. Push the **SOURCE** button and set to FM.

Display



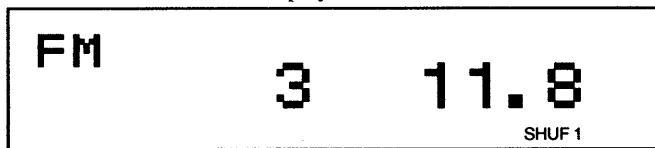
3. Push the preset **[3]** button.

Display



4. Push the **[10]** button.
5. Adjust RV201 so that the display indication is "11.8".

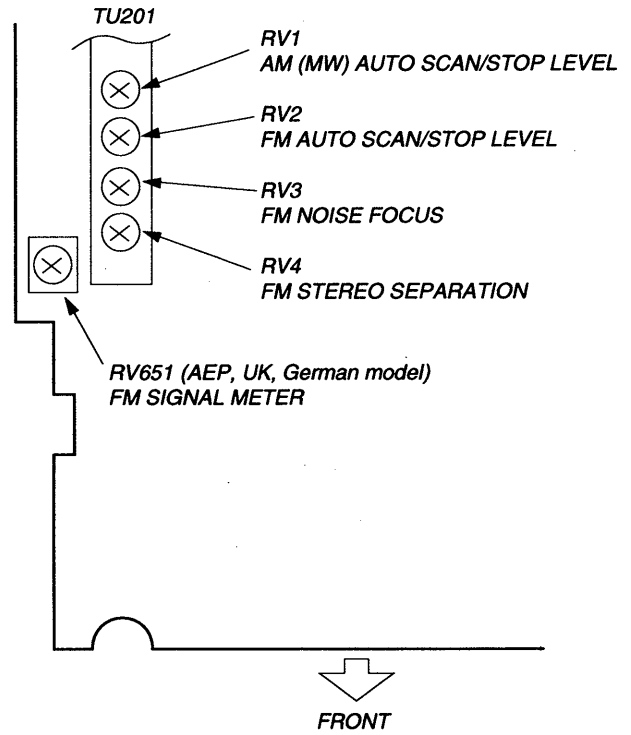
Display



**Specification: display indication: 11.6 to 12.0**

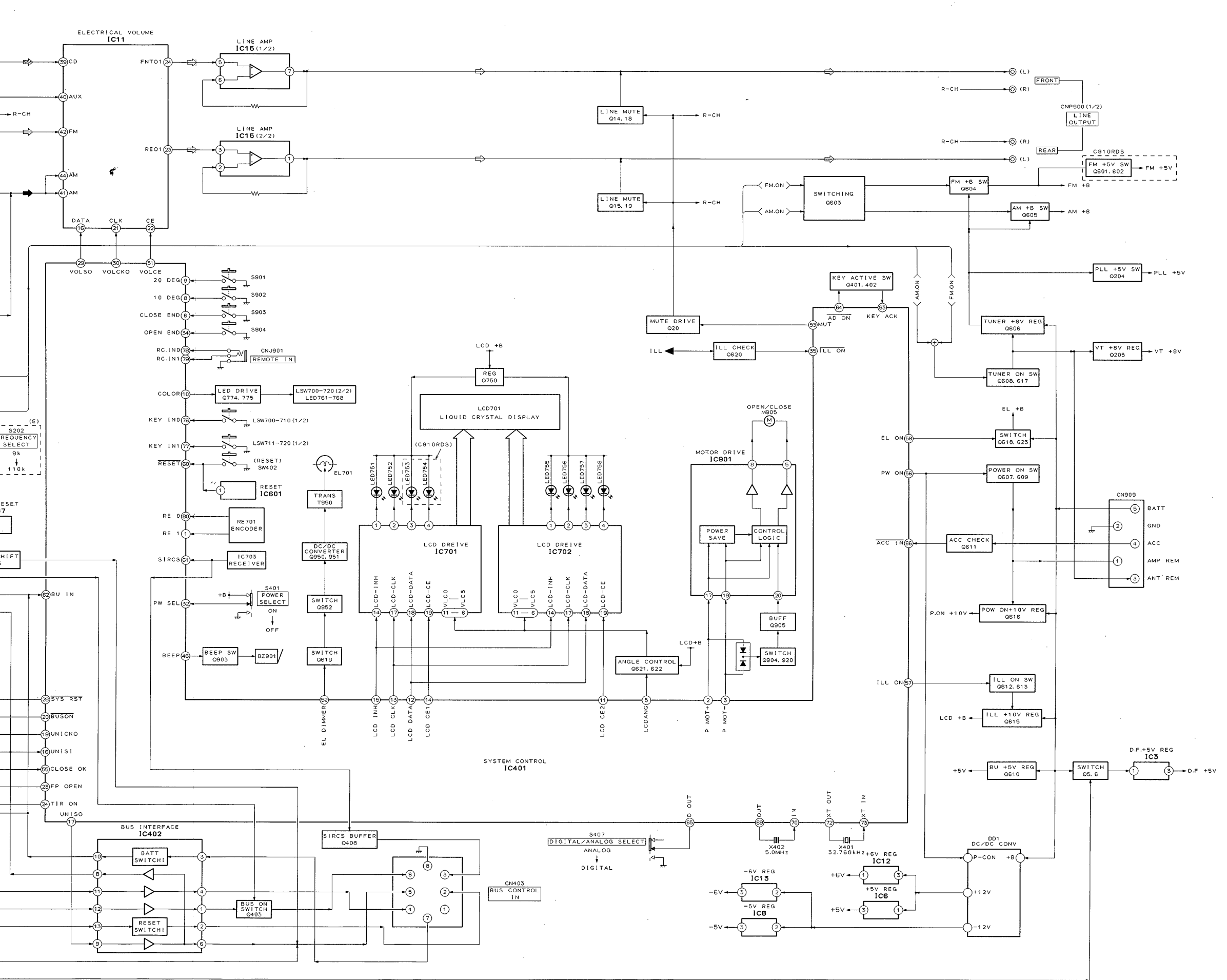
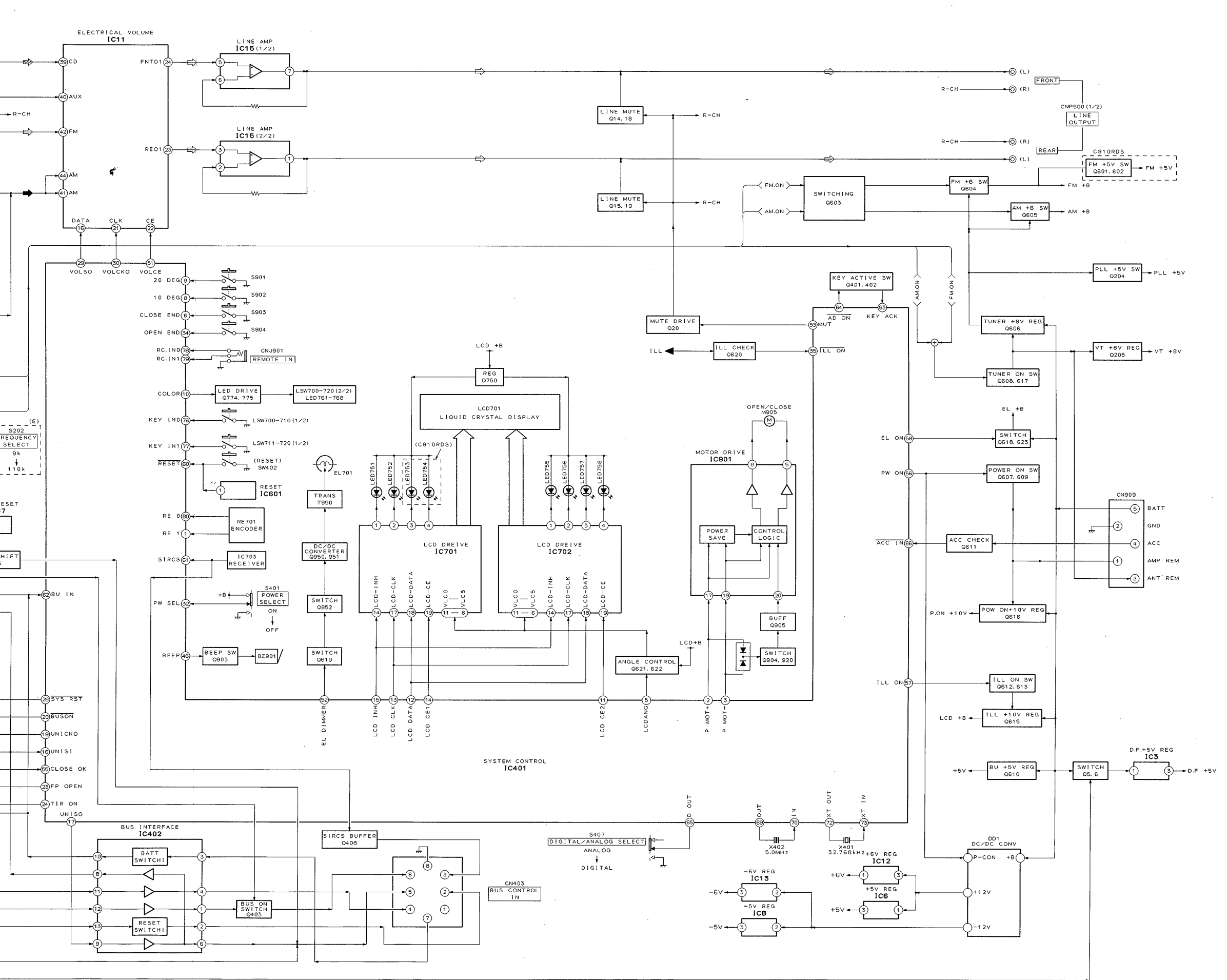
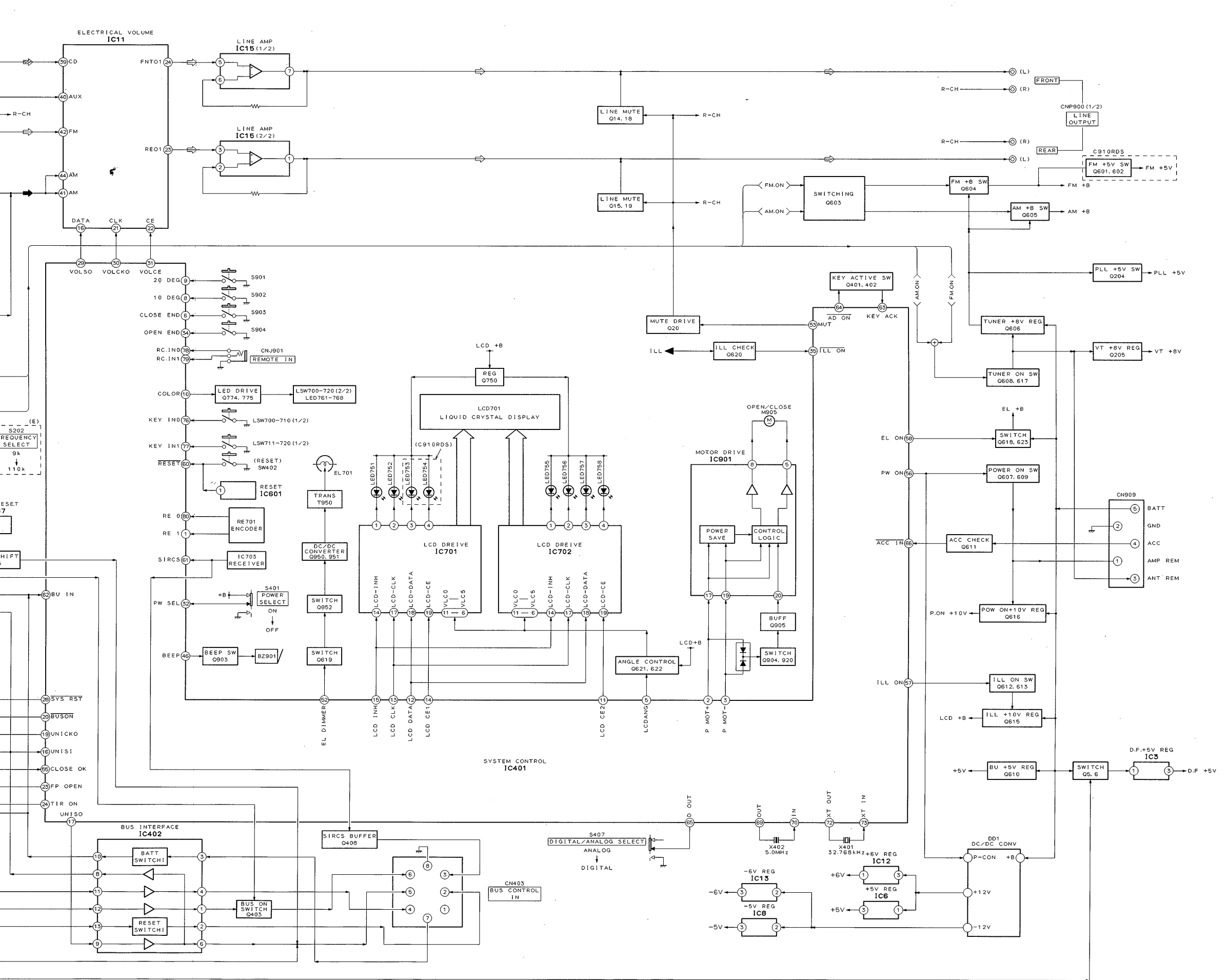
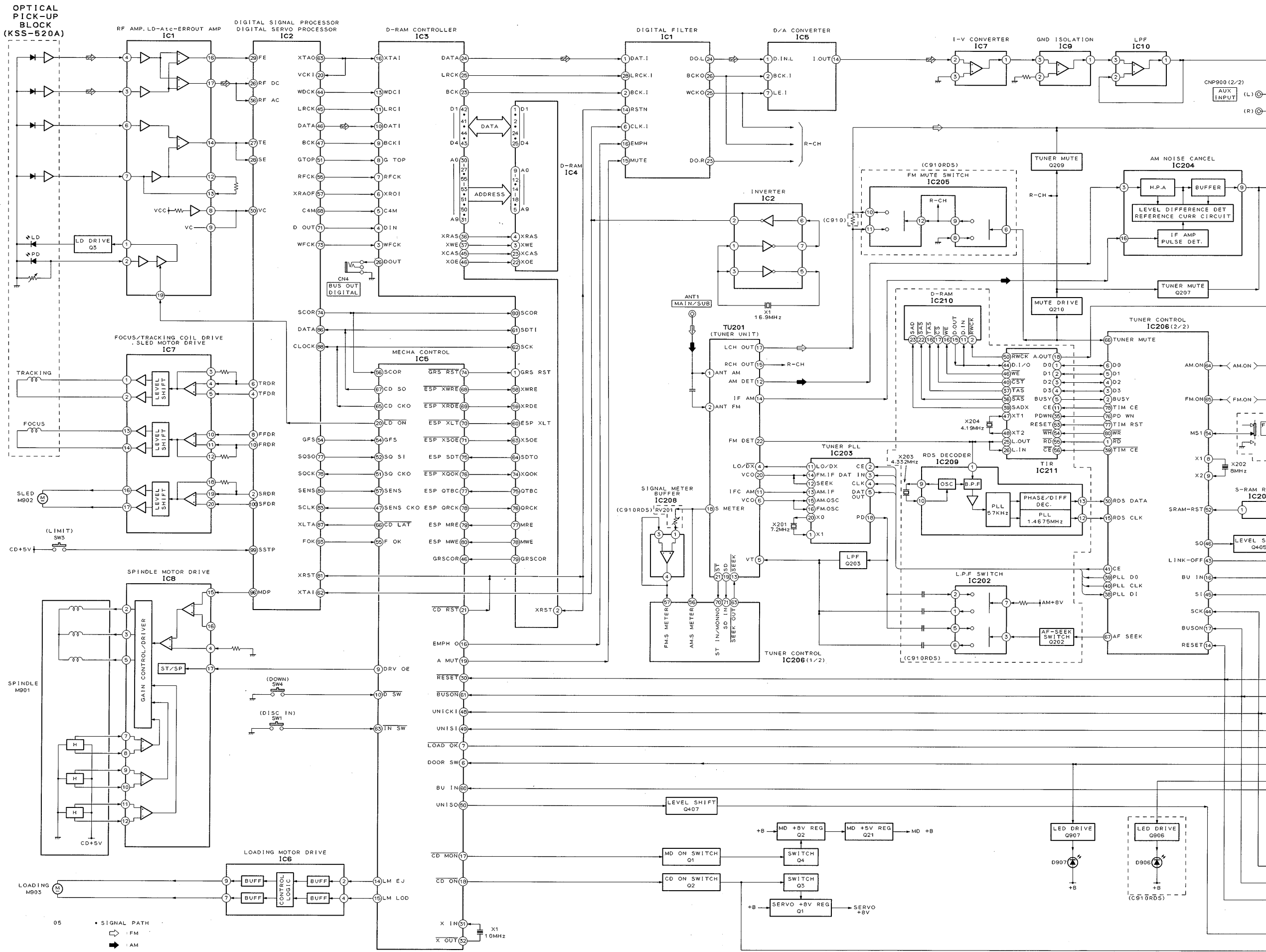
**Adjustment Location:**

**[MAIN BOARD] (COMPONENT SIDE)**

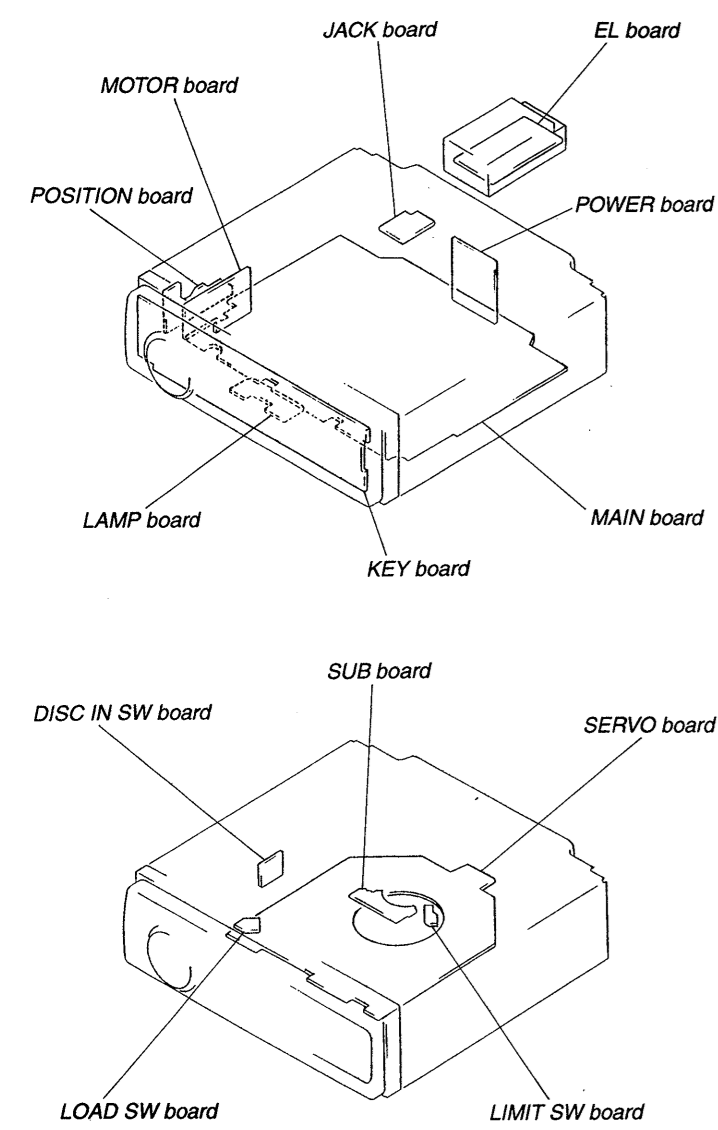


5-1. BLOCK DIAGRAM

SECTION 5  
DIAGRAMS



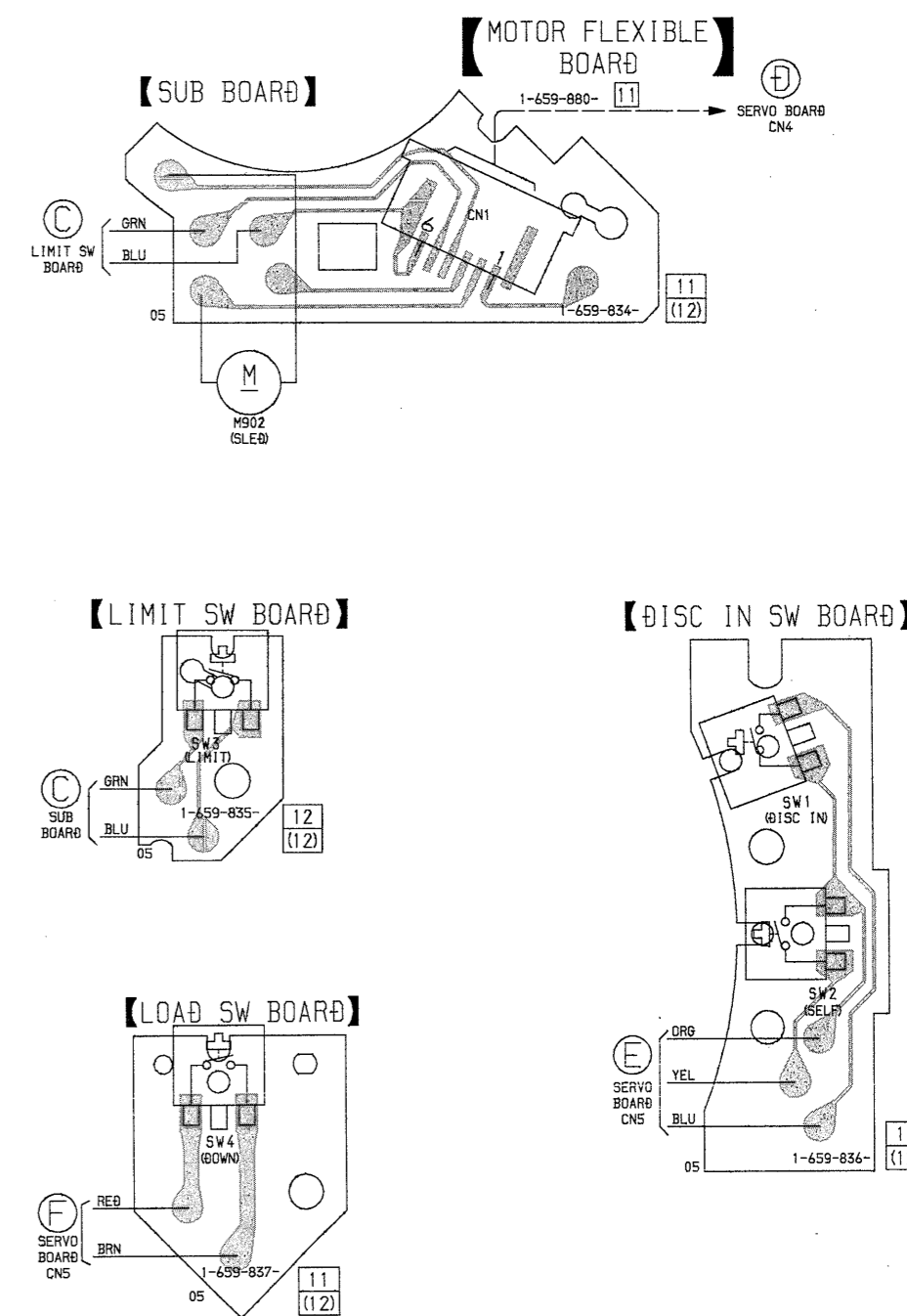
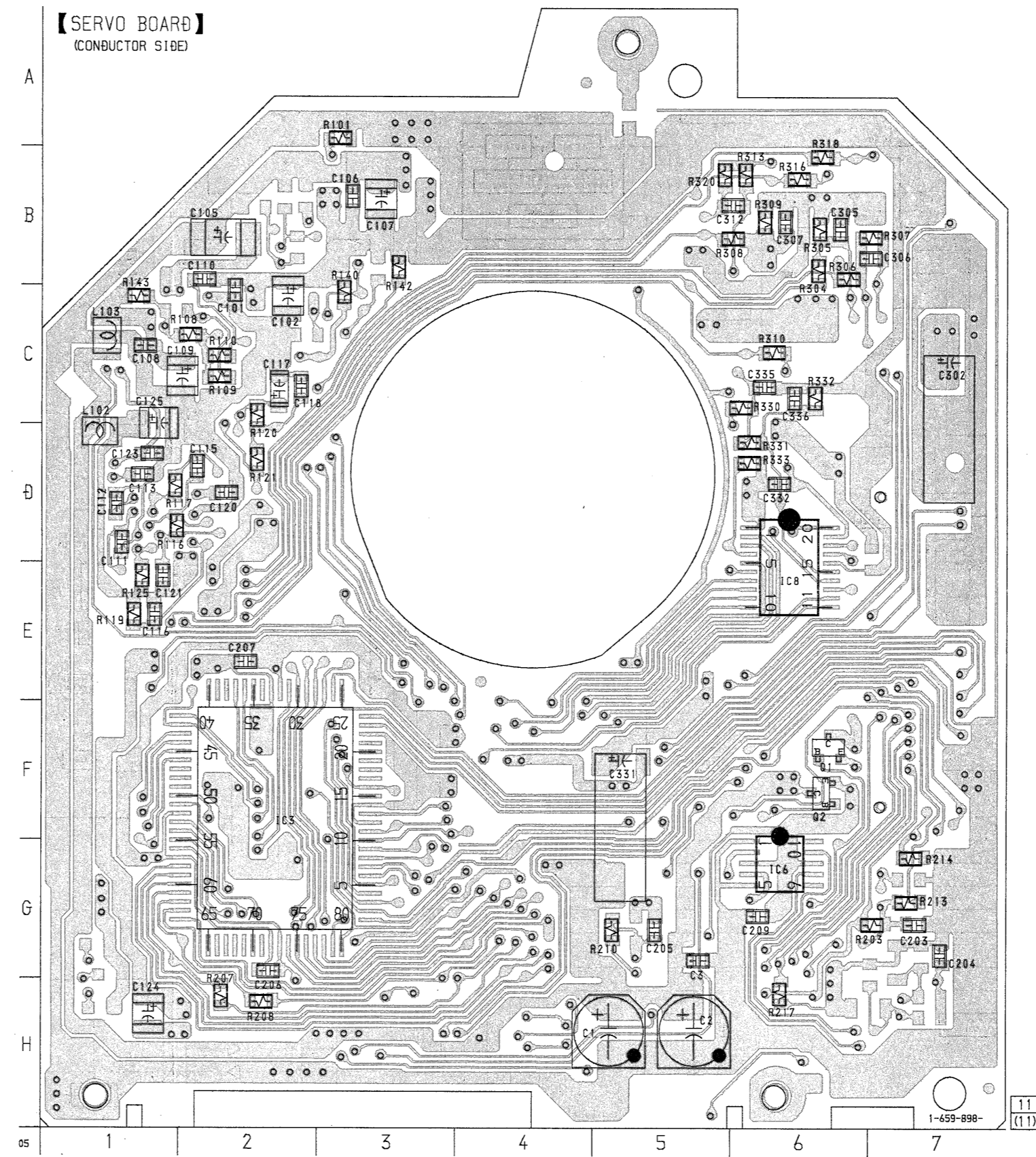
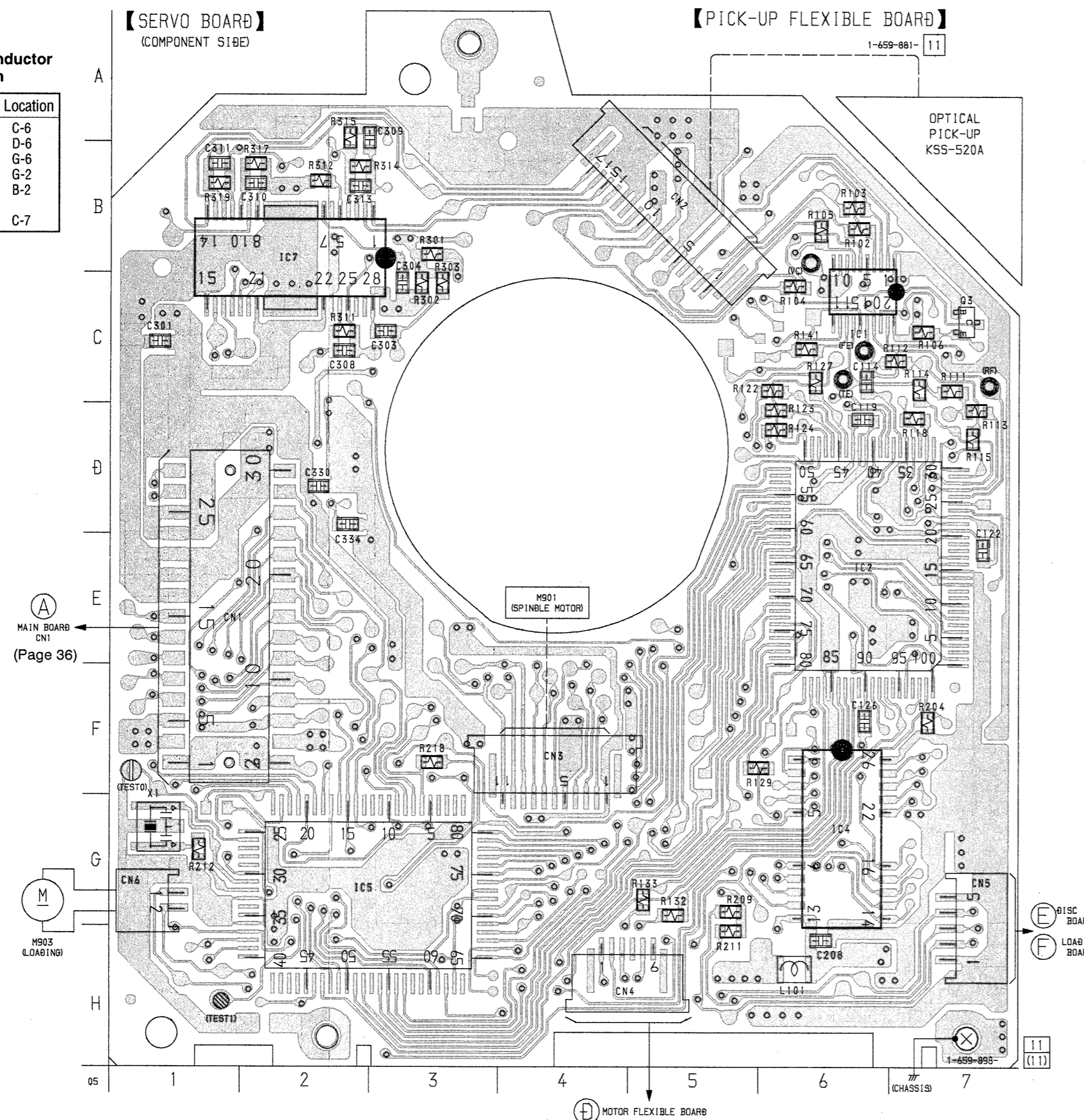
• Circuit Boards Location



5-2. PRINTED WIRING BOARDS - MECHANISM DECK Section -

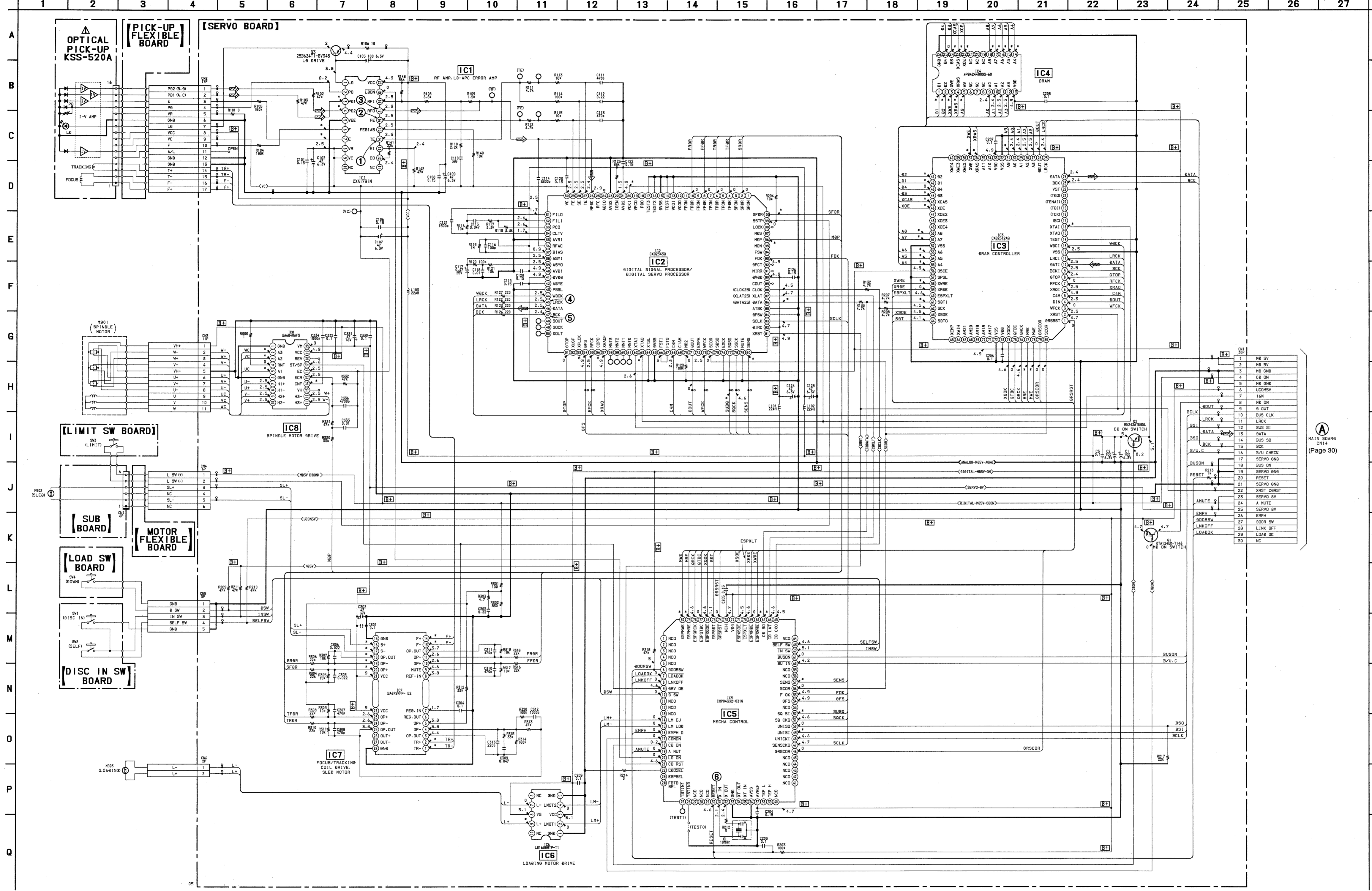
• Semiconductor Location

Ref. No.	Location
IC1	C-6
IC2	D-6
IC4	G-6
IC5	G-2
IC7	B-2
Q3	C-7

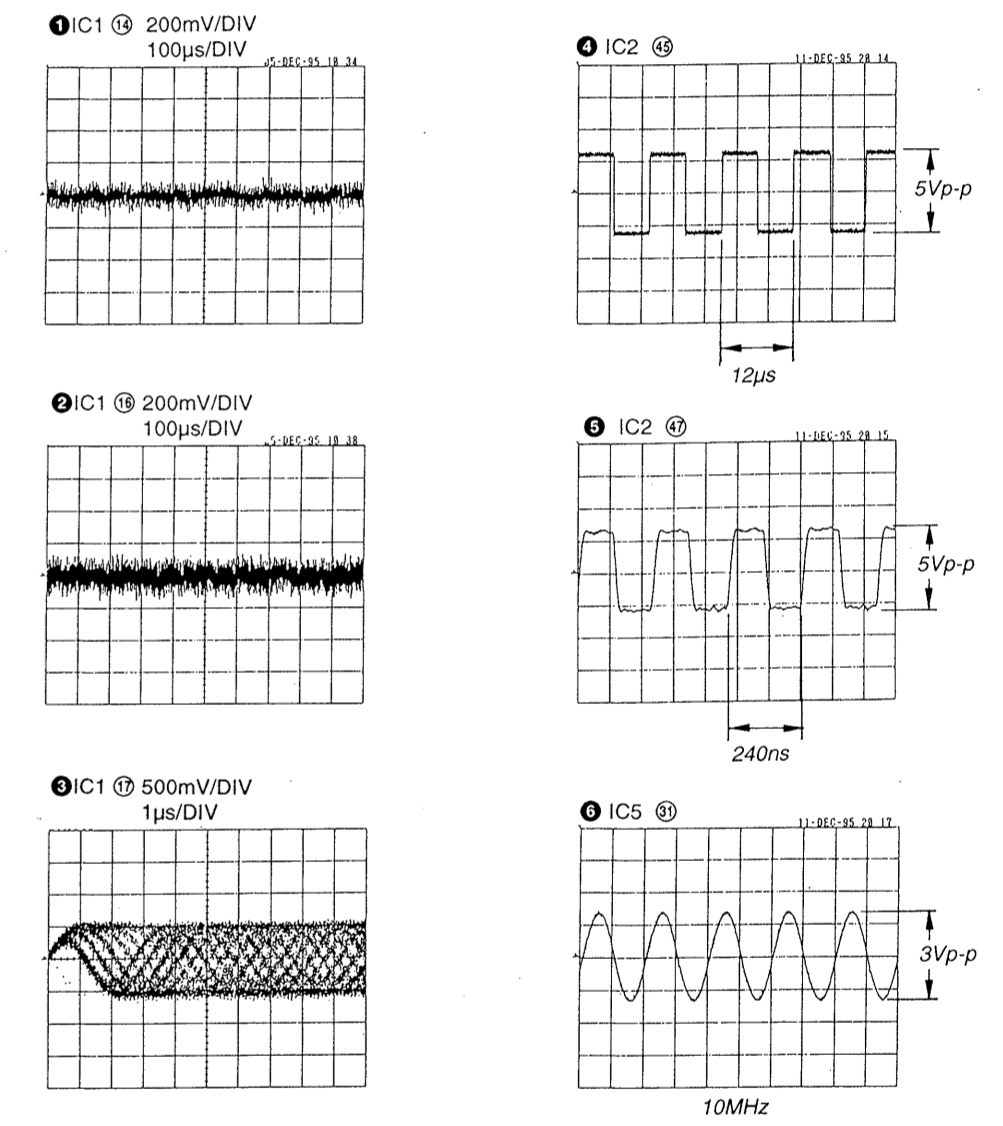


**Note:**  
 • : parts extracted from the conductor side.  
 • Δ : internal component.  
 • : Pattern from the side which enables seeing.  
 (The other layers' patterns are not indicated.)

**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.



Waveforms



**Note:**

- All capacitors are in µF unless otherwise noted. pµF: pµF 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.

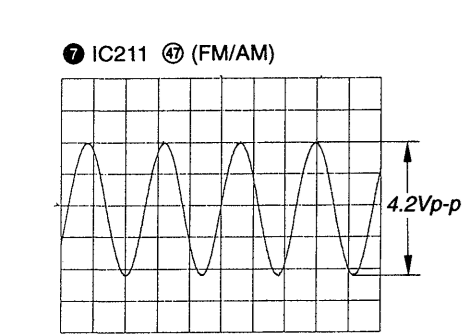
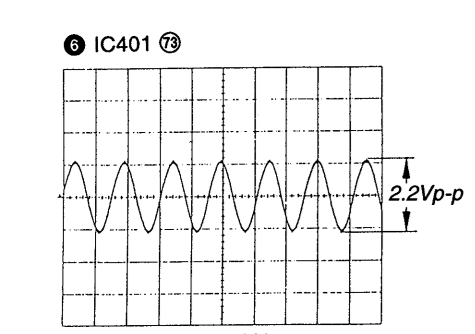
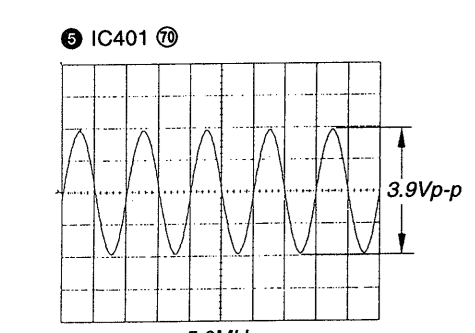
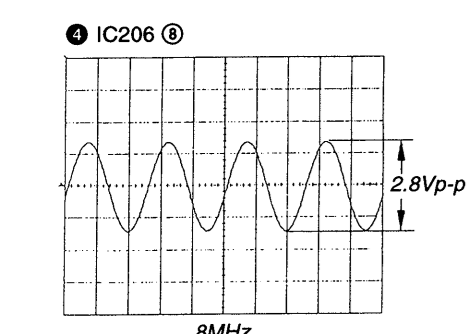
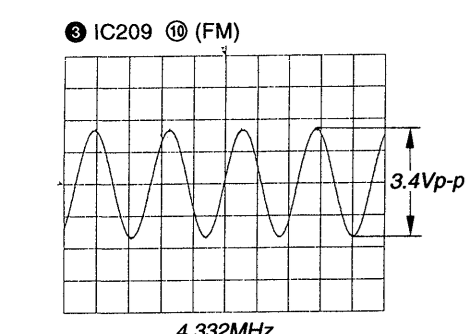
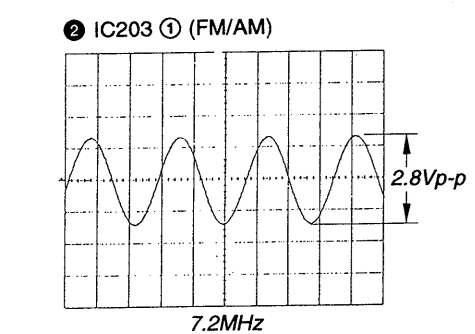
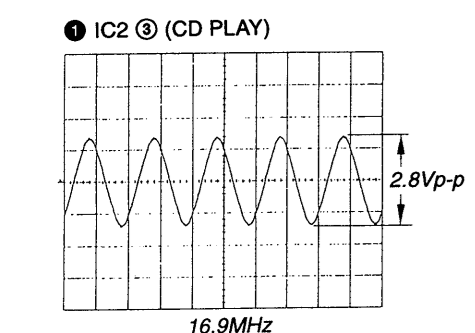
**Note:**

- The component identified by mark △, or dotted line with mark △, are critical for safety. Replace only with part number specified.
- Les composants identifiés par une marque △, sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

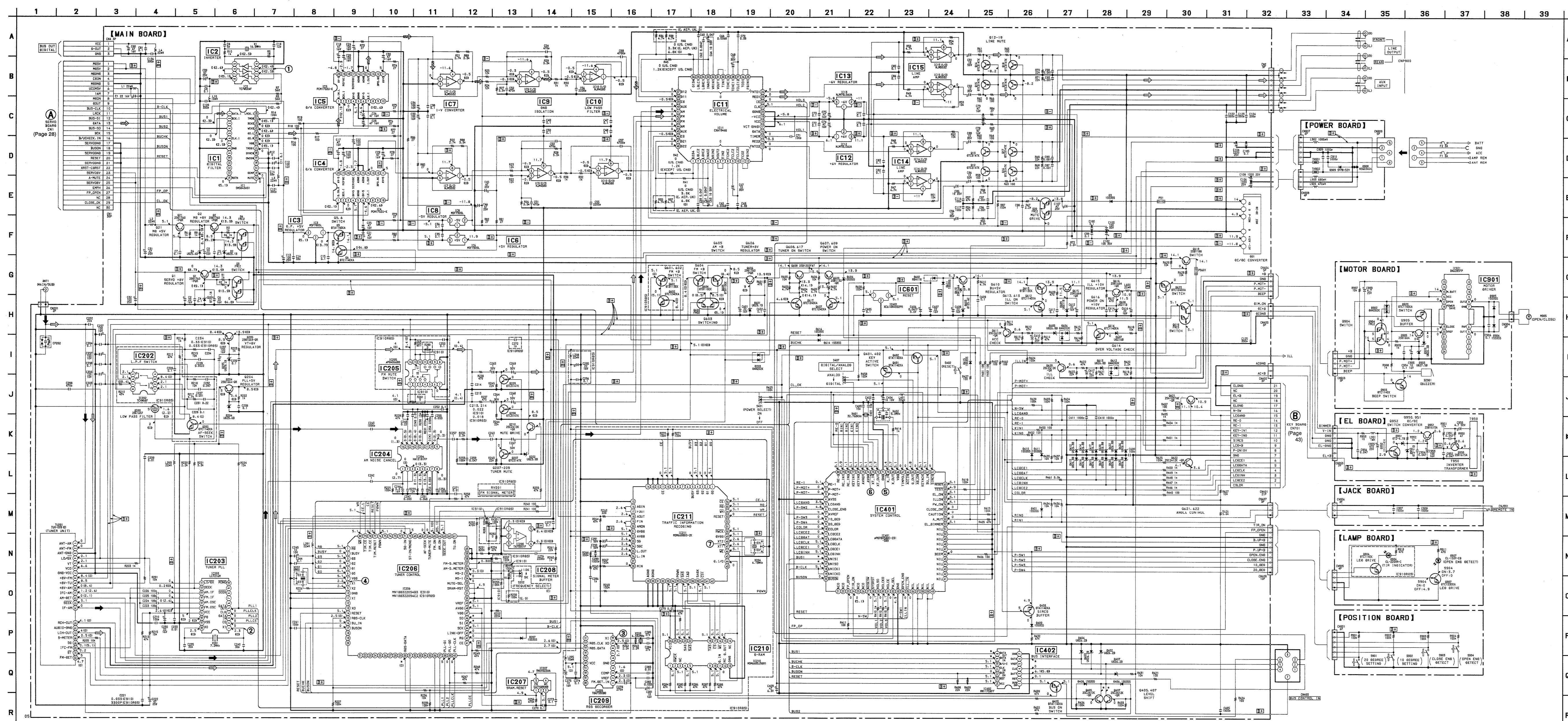
- [B+] : B+ Line.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- \* : Impossible to measure.
- Voltages are taken with a VOM (10 MΩ/V). Voltage variations may be noted 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.
- ⇨ : CD

MAIN BOARD CH14 (Page 30)

Waveforms



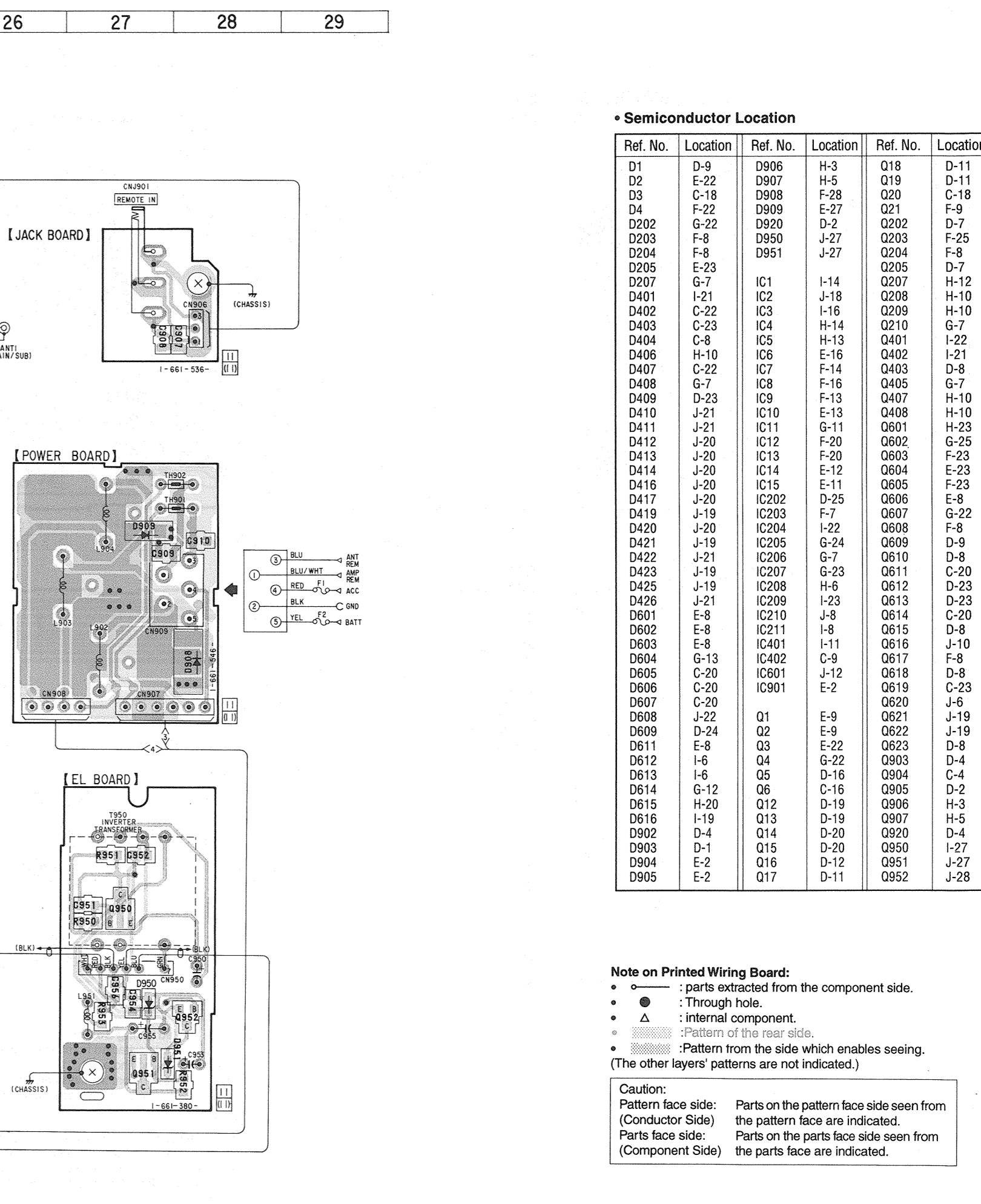
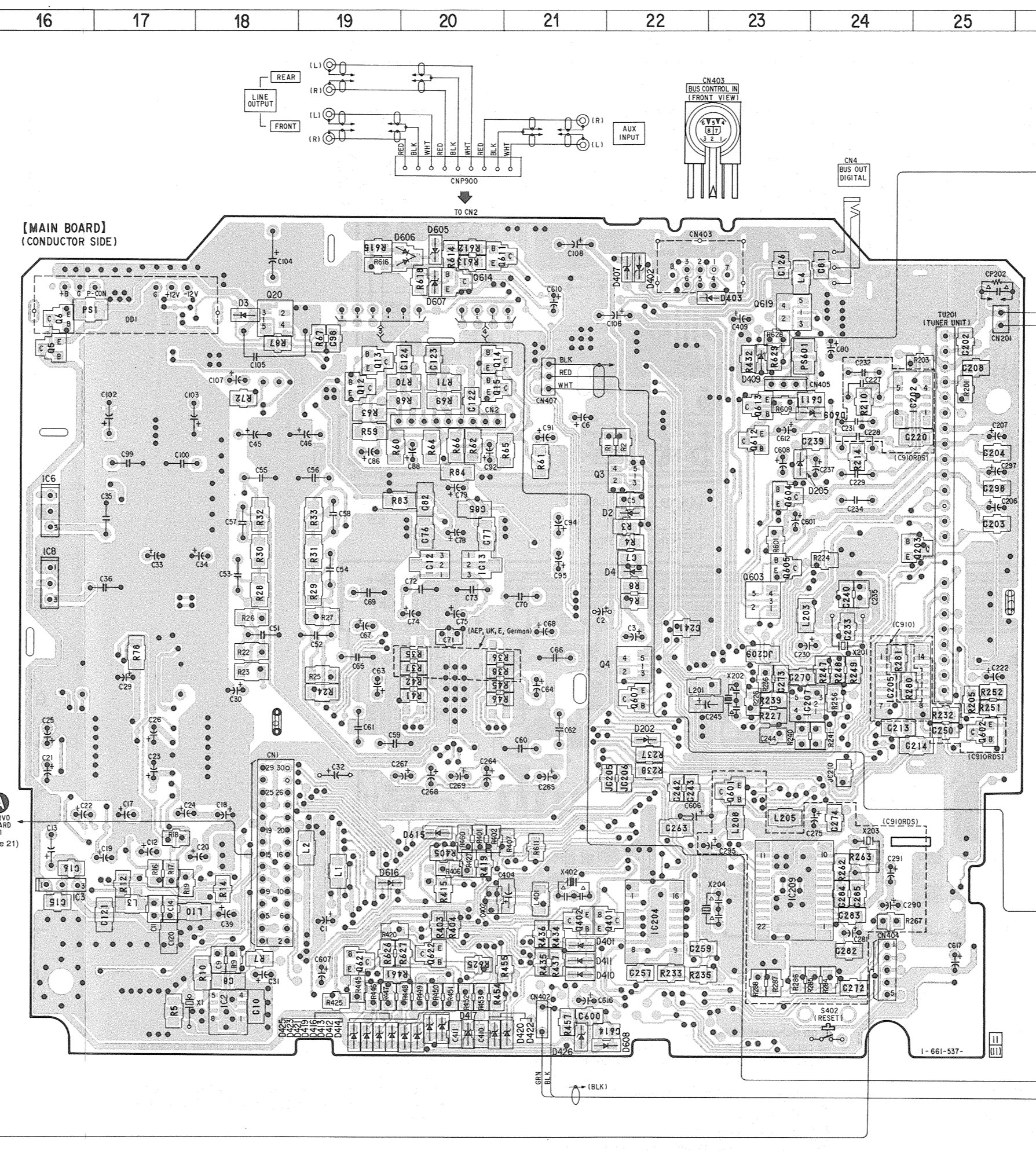
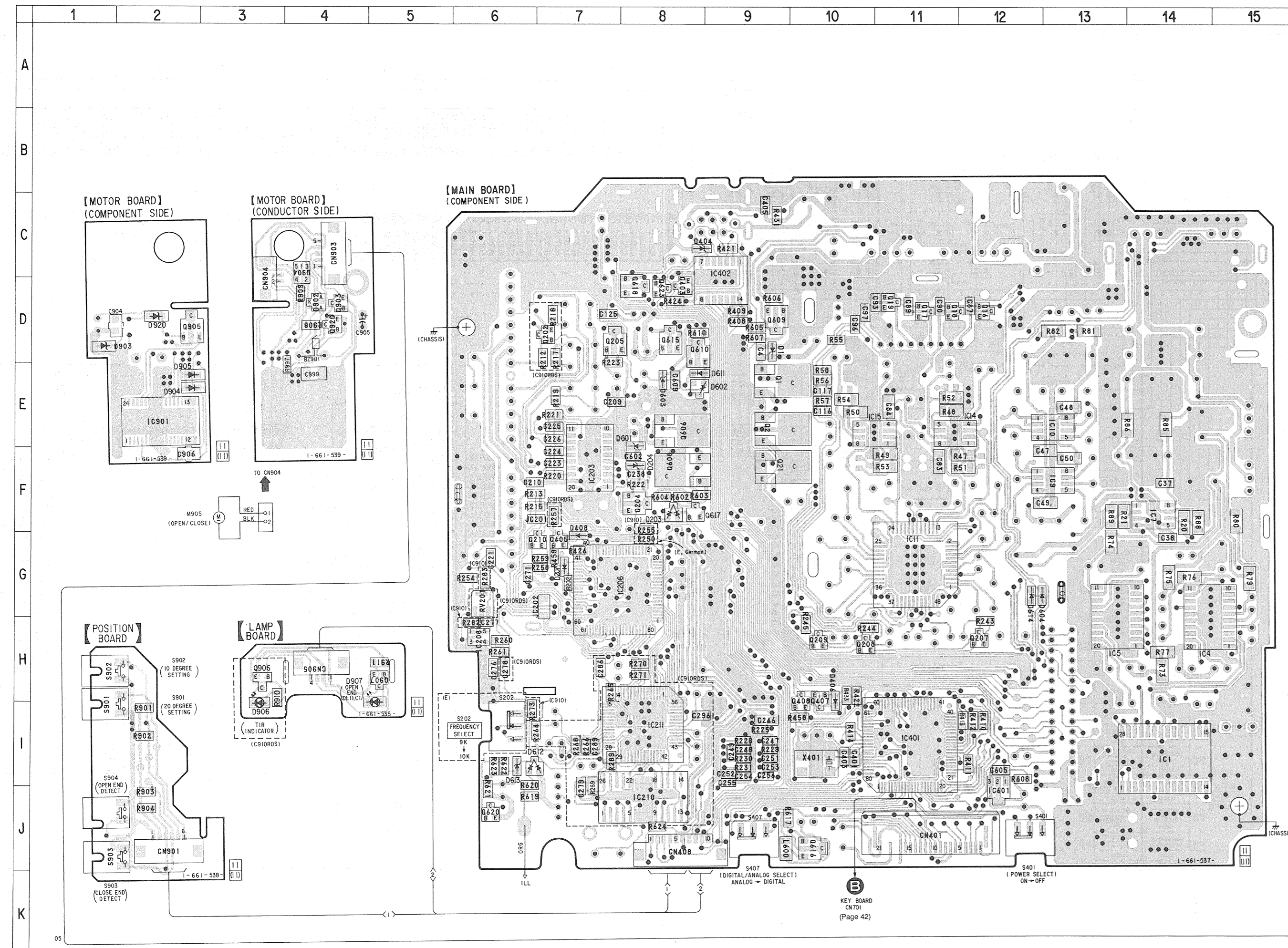
5-4. SCHEMATIC DIAGRAM - MAIN Section - See page 45 for IC Block Diagrams.



**Note on Schematic Diagram:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF: pF,  $\mu\text{F}$ :  $\mu\text{F}$ , 50 W or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
- $\Delta$ : internal component.
- B: Line.
- : panel designation.
- : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltagess and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- ( ): AM
- << >>: CD
- \*: impossible to measure
- Voltagess are taken with a VOM (input impedance 10 M $\Omega$ ). 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
- : AM
- : CD
- Abbreviation
- G: German





• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	D-9	D906	H-3	Q18	D-11
D2	E-22	D907	H-5	Q19	D-11
D3	C-18	D908	F-28	Q20	C-18
D4	F-22	D909	E-27	Q21	F-9
D202	G-22	D920	D-2	Q202	D-7
D203	F-8	D950	J-27	Q203	F-25
D204	F-8	D951	J-27	Q204	F-8
D205	E-23			Q205	D-7
D207	G-7	IC1	I-14	Q207	H-12
D401	I-21	IC2	J-18	Q208	H-10
D402	C-22	IC3	I-16	Q209	H-10
D403	C-23	IC4	H-14	Q210	G-7
D404	C-8	IC5	H-13	Q401	I-22
D406	H-10	IC6	H-16	Q402	I-21
D407	C-22	IC7	F-14	Q403	D-8
D408	G-7	IC8	F-16	Q405	G-7
D409	D-23	IC9	F-13	Q407	H-10
D410	J-21	IC10	E-13	Q408	H-10
D411	J-21	IC11	G-11	Q601	H-23
D412	J-20	IC12	F-20	Q602	G-25
D413	J-20	IC13	F-20	Q603	F-23
D414	J-20	IC14	E-12	Q604	E-23
D416	J-20	IC15	E-11	Q605	F-23
D417	J-20	IC202	D-25	Q606	E-8
D419	J-19	IC203	F-7	Q607	G-22
D420	J-20	IC204	I-22	Q608	F-8
D421	J-19	IC205	G-24	Q609	D-9
D422	J-21	IC206	G-7	Q610	D-8
D423	J-19	IC207	G-23	Q611	C-20
D425	J-19	IC208	H-6	Q612	D-23
D426	J-21	IC209	I-23	Q613	D-23
D428	E-9	IC210	J-8	Q614	C-20
D602	E-8	IC211	I-8	Q615	D-8
D603	E-8	IC401	I-11	Q616	J-10
D604	G-13	IC402	C-9	Q617	F-8
D605	C-20	IC601	J-12	Q618	D-8
D606	C-20	IC901	E-2	Q619	C-23
D607	C-20			Q620	J-6
D608	J-22	Q1	E-9	Q621	J-19
D609	D-24	Q2	E-9	Q622	J-19
D611	F-8	Q3	E-22	Q623	D-8
D612	I-6	Q4	G-22	Q903	D-4
D613	I-6	Q5	D-16	Q904	C-4
D614	G-12	Q6	C-16	Q905	D-2
D615	H-20	Q12	D-19	Q906	H-3
D616	I-19	Q13	D-19	Q907	H-5
Q902	D-4	Q14	D-20	Q920	D-4
Q903	D-1	Q15	D-20	Q950	I-27
Q904	E-2	Q16	D-12	Q951	J-27
Q905	E-2	Q17	D-11	Q952	J-28

**Note on Printed Wiring Board:**

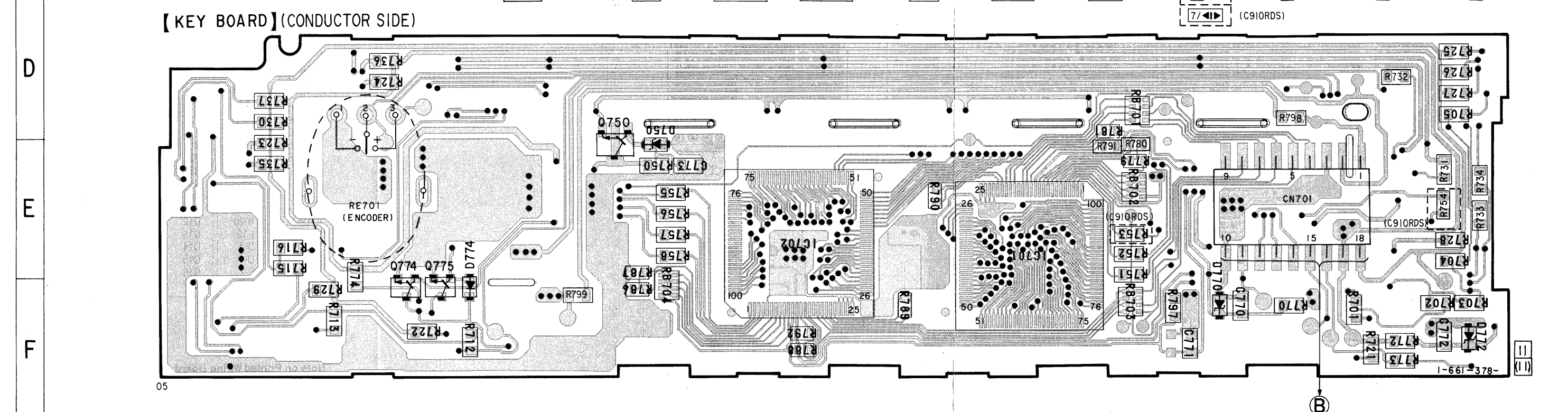
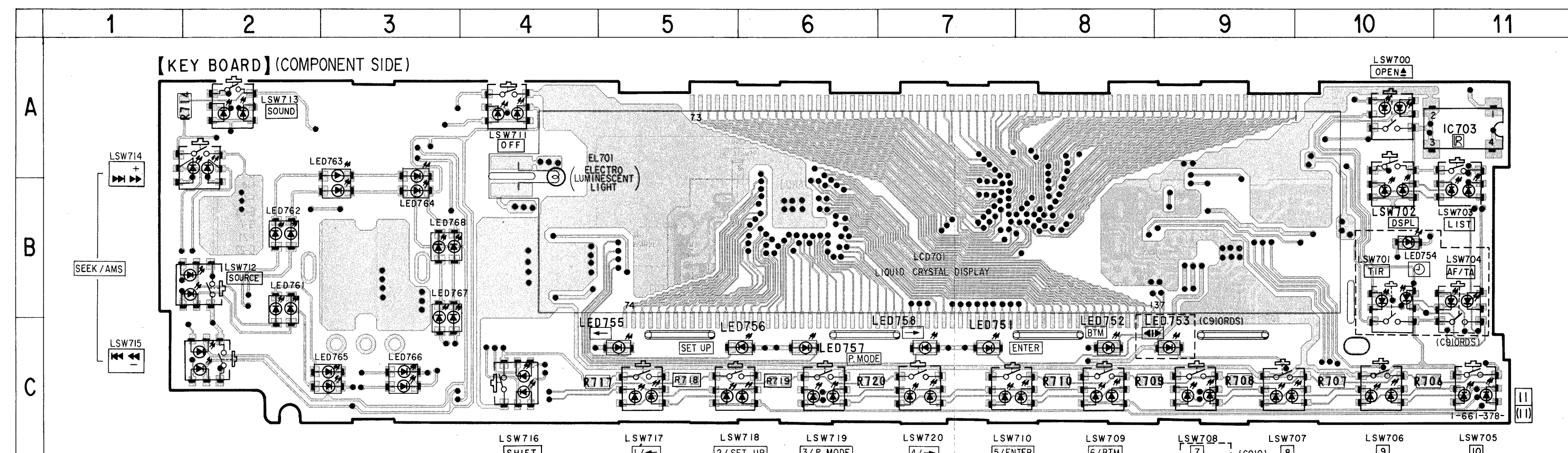
- : parts extracted from the component side.
- : Through hole.
- △ : internal component.
- : Pattern of the rear side.
- ▨ : Pattern from the side which enables seeing.
- (The other layers' patterns are not indicated.)

**Caution:**

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

**Semiconductor Location**

Ref. No.	Location
D750	E-5
D770	F-9
D772	F-11
D774	F-4
IC701	E-8
IC702	E-6
IC703	A11
LED751	C-7
LED752	C-8
LED753	C-9
LED754	B-10
LED755	C-5
LED756	C-6
LED757	C-6
LED758	C-7
LED761	B-2
LED762	B-2
LED763	B-3
LED764	B-3
LED765	C-3
LED766	C-3
LED767	B-3
LED768	B-3
Q750	E-5
Q774	F-3
Q775	F-3



**Note on Printed Wiring Board:**

- : parts extracted from the component side.
- : Through hole.
- ▨ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

**Caution:**

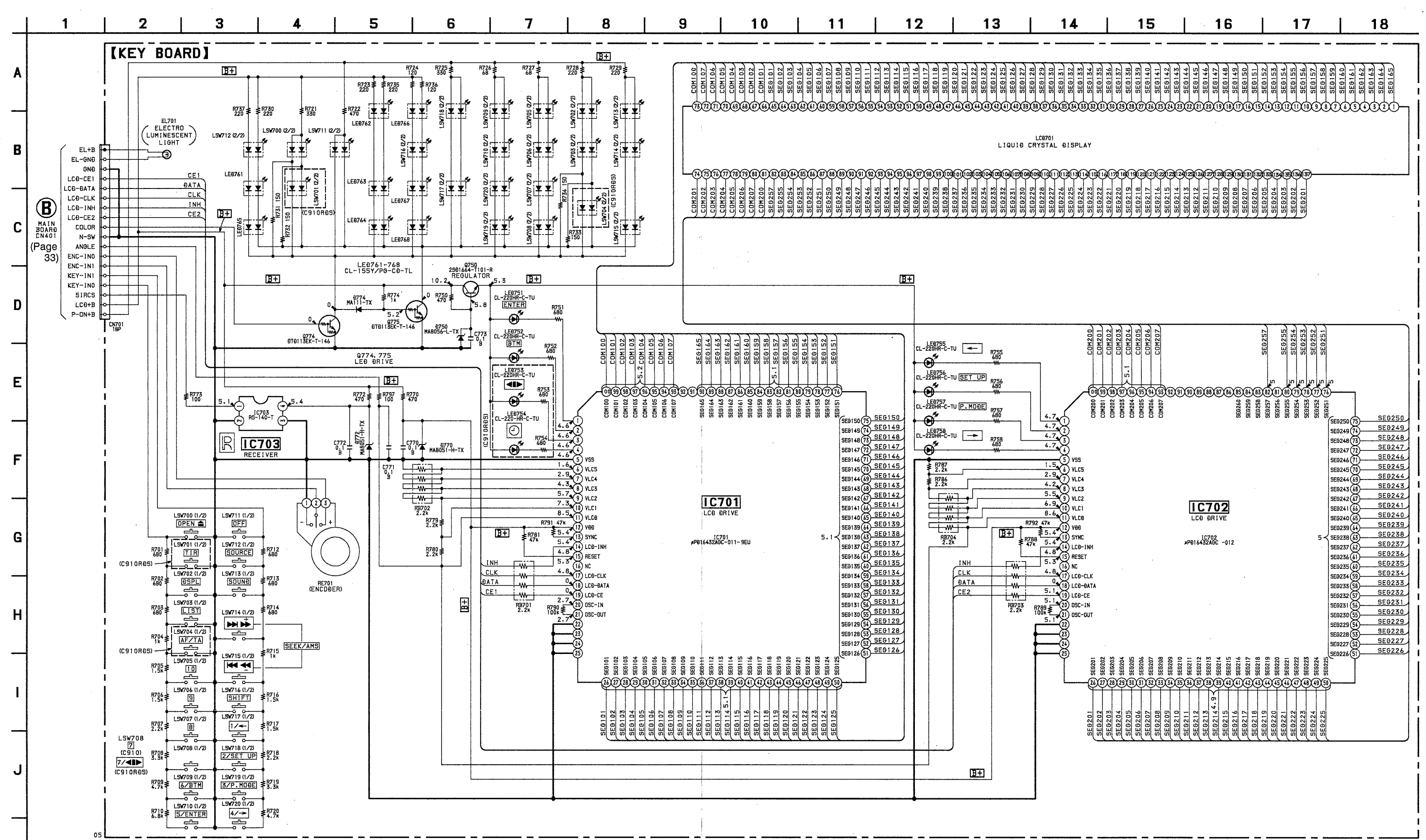
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.

Conductor Side: Parts on the parts face side seen from the parts face are indicated.

**Note on Schematic Diagram:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4$  W or less unless otherwise specified.
- [B+] : B+ Line.
- [ ] : panel designation.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.

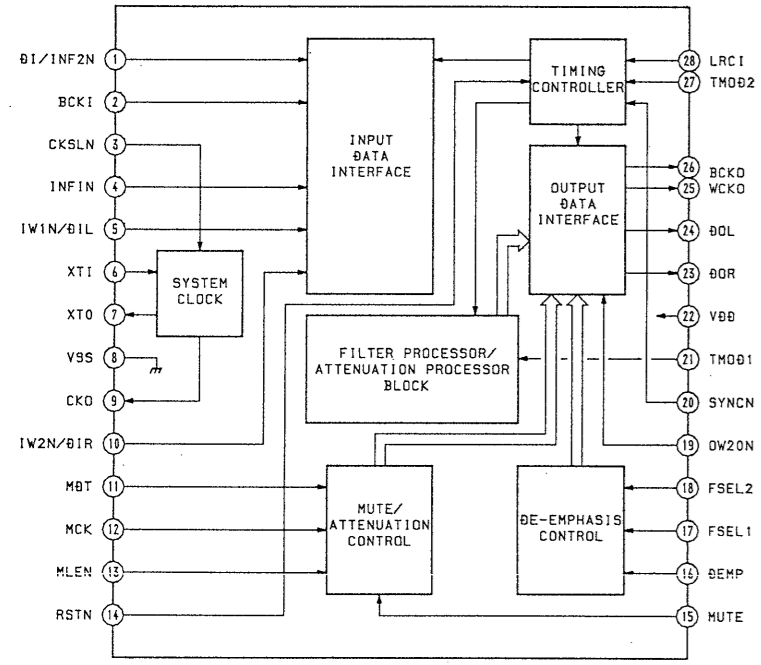
MAIN BOARD CN401 (Page 36)



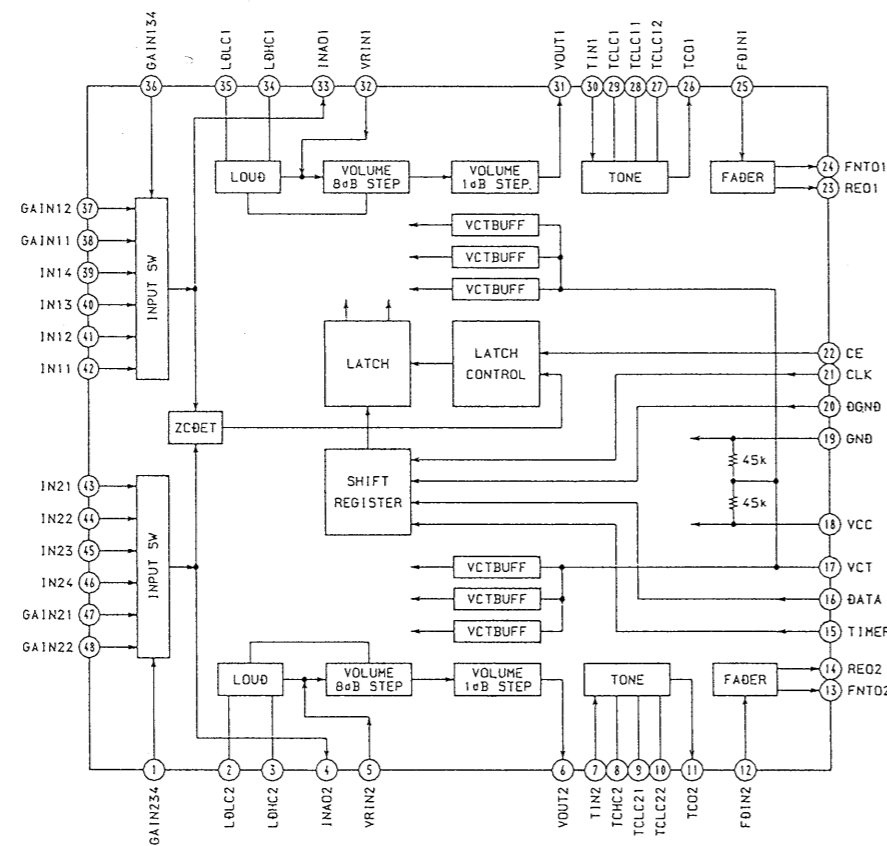
- Voltagess are dc with respect to ground under no-signal (detuned) conditions. no mark : FM
- Voltagess are taken with a VOM (Input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.

• IC Block Diagrams

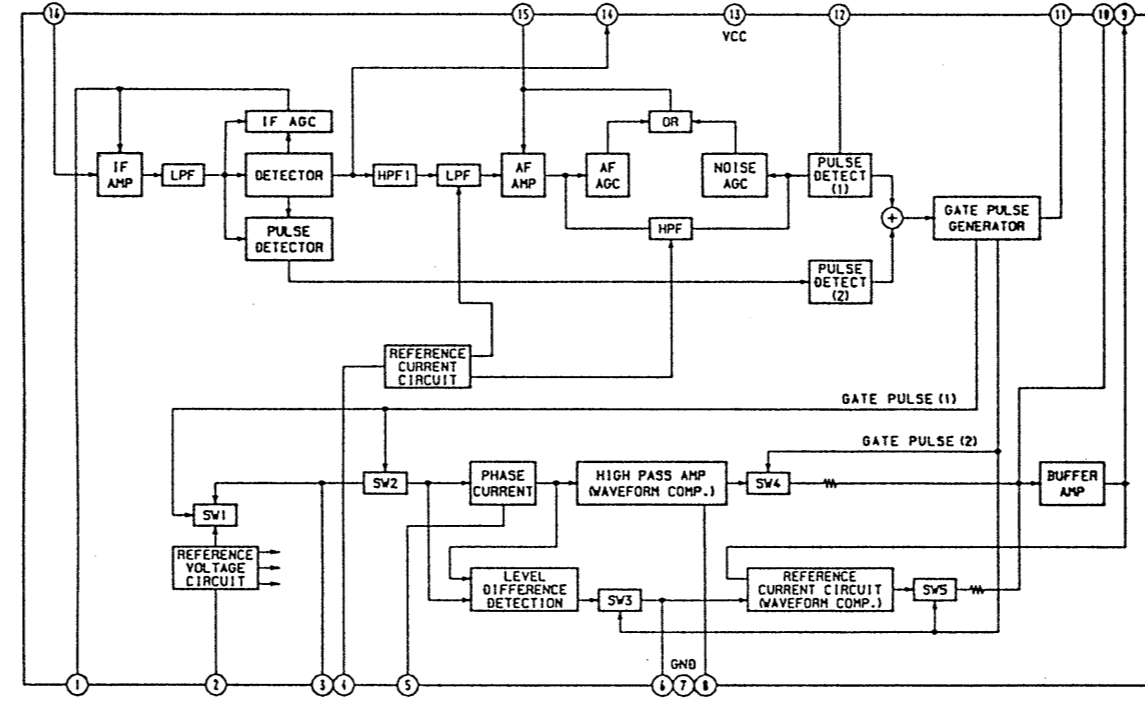
IC1 SM5843AS1-E2 (MAIN BOARD)



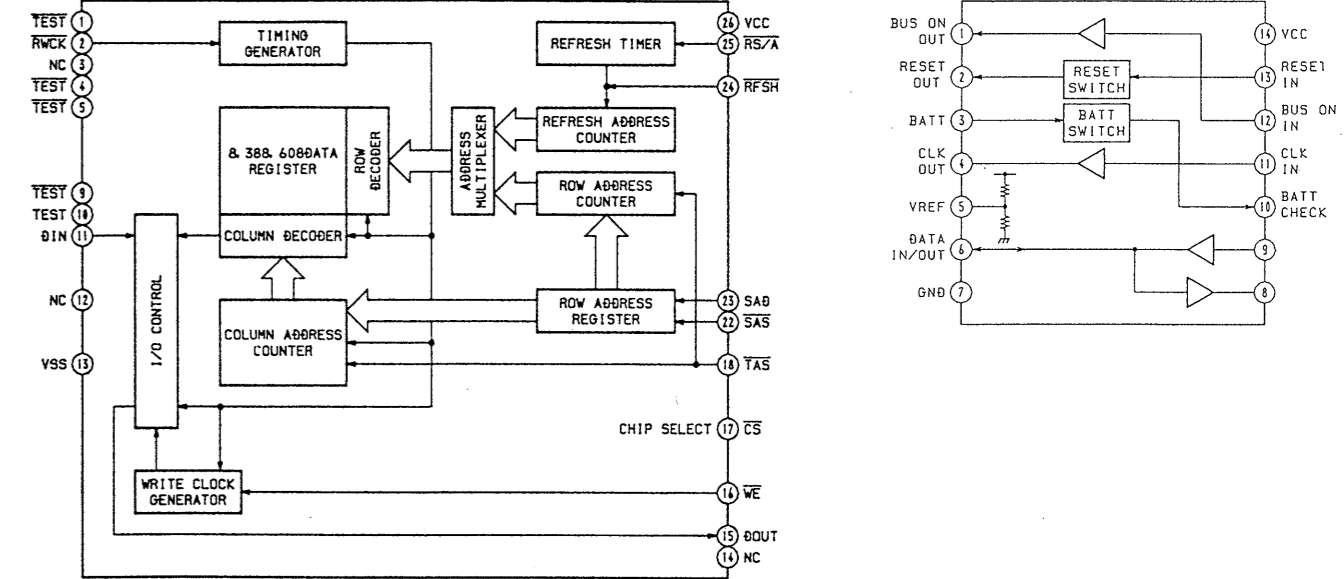
IC11 CXA1946Q (MAIN BOARD)



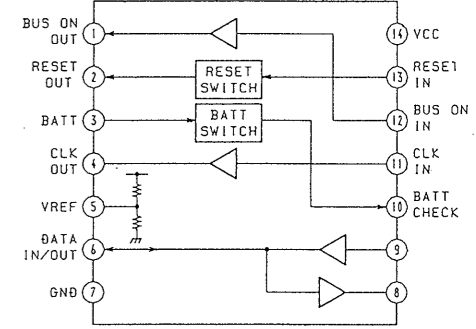
IC204 HA12181FP-EL (MAIN BOARD)



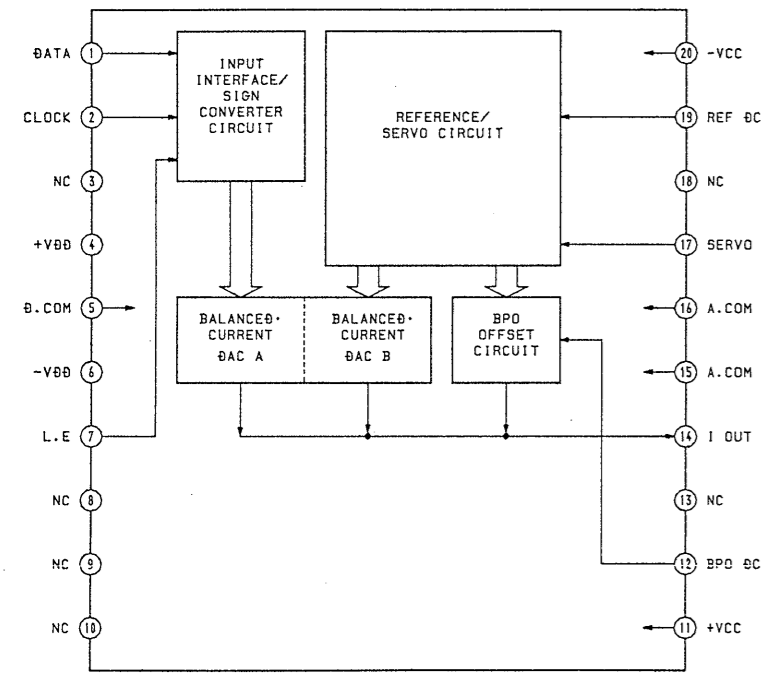
IC210 MSM6685JSDR1 (MAIN BOARD)



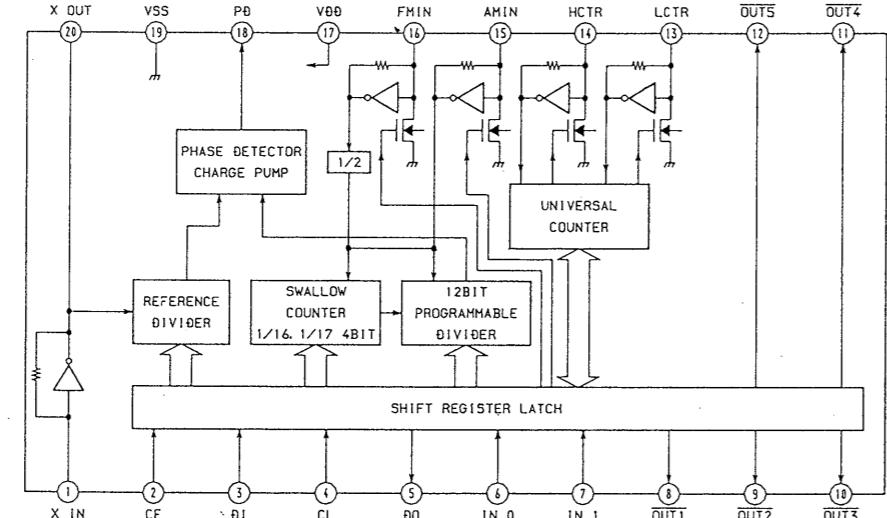
IC402 MM1175XFF (MAIN BOARD)



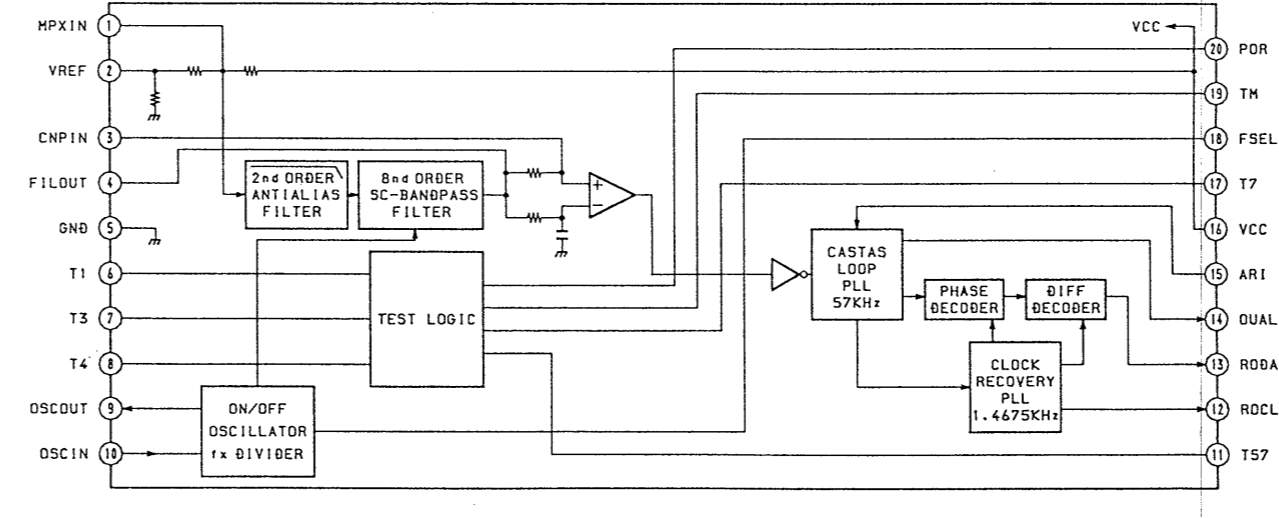
IC4, 5 PCM1702U-K-T1 (MAIN BOARD)



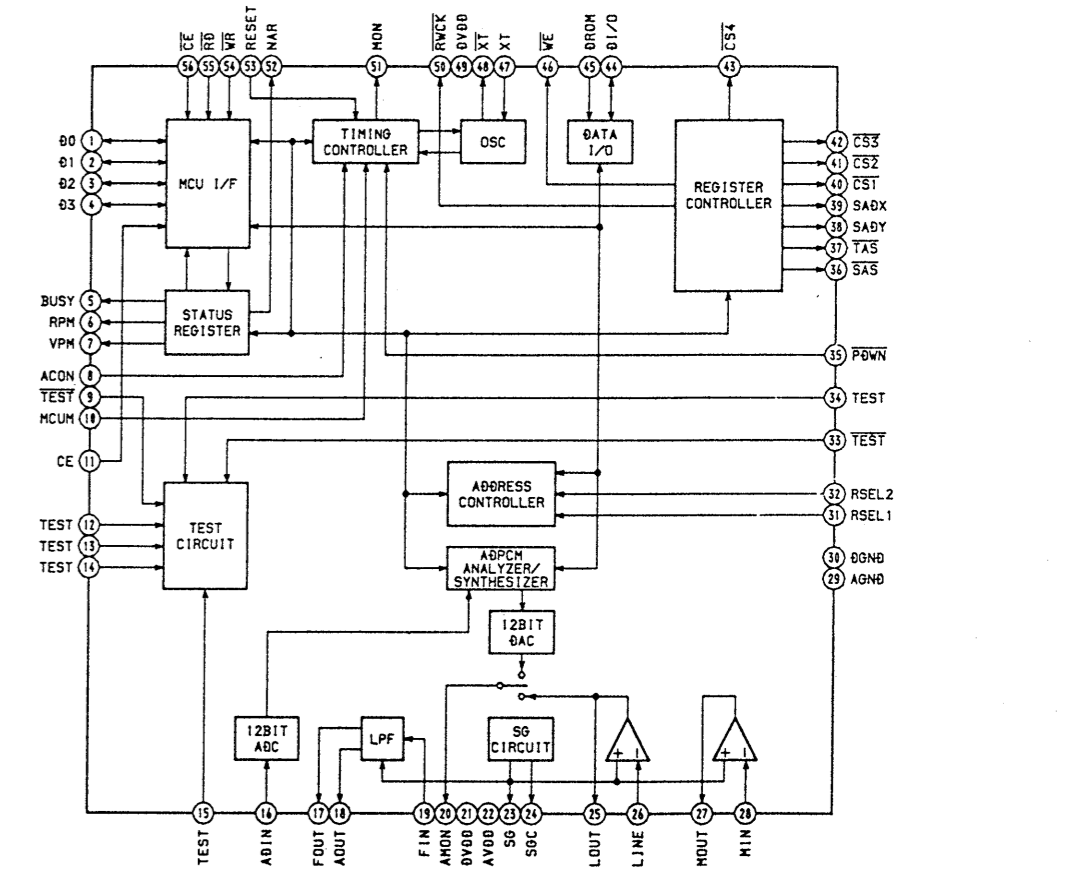
IC203 LC7216M (MAIN BOARD)



IC209 TDA7330BD-013TR (MAIN BOARD)



IC211 MSM6688GS-2K (MAIN BOARD)





**5-8. IC PIN FUNCTION DESCRIPTION**  
**SERVO BOARD IC5 CXP84332-031Q (MECHA CONTROL)**

Pin No.	Pin Name	I/O	Function
1-5	NCO	O	Not used.
6	DOOR SW	I	Door switch input pin. (not used)
7	LOAD OK	O	Loading OK signal output pin. (not used)
8	LINK OFF	O	Link off signal output pin. (not used)
9	DRV OE	O	Motor driver output enable signal output pin.
10	D SW	I	Down switch input pin.
11-13	NCO	O	Not used.
14	LM EJ	O	Loading motor control pin. (eject detection)
15	LM LOD	O	Loading motor control pin. (loading detection)
16	EMPH O	O	De-emphasis control pin.
17	CDMON	O	Mechanism deck section power supply control pin.
18	CDON	O	CD servo circuit power supply control pin.
19	A MUT	O	Audio muting signal output pin.
20	LD ON	O	Laser power on/off control pin.
21	CD RST	O	CD reset signal output pin.
22	CDSEL	I	CD digital out function select pin.
23	ESPSEL	I	ESP function select pin. (not used)
24	FBTSEL	I	CD automatic adjustment function select pin. (not used)
25	TSTIN1	I	Test mode setting pin.
26	TSTIN0	I	Test mode setting pin.
27-29	NCO	O	Not used.
30	RESET	I	Reset input pin.
31	X IN	I	Main system clock. (10MHz)
32	X OUT	O	Main system clock. (10MHz)
33	GND	-	GND.
34	XT OUT	O	Sub system clock. (not used)
35	XT IN	I	Sub system clock. (not used)
36	AVSS	O	GND for A/D converter.
37	AVREF	O	Power supply for A/D converter.
38	TEP L	I	Temperature value input pin. (A/D input) (not used)
39	TEP H	I	Temperature value input pin. (A/D input) (not used)
40-45	NCO	O	Not used.
46	GRSCOR	I	Start timing signal for frame writing from ESP.
47	SENSCKO	O	Sense serial data reading clock output pin.
48	UNICKI	I	Serial clock input pin. (for SONY BUS)
49	UNISI	I	Serial data input pin. (for SONY BUS)
50	UNISO	O	Serial data output pin. (for SONY BUS)
51	SQ CKO	O	Sub-code Q data reading clock output pin.
52	SQ SI	I	Sub-code Q data input pin.
53	NCO	O	Not used.
54	GFS	I	Frame sync lock state input pin.
55	F OK	I	Focus OK signal input pin.
56	SCOR	I	Sub-code sync detection signal input pin.
57	SENS	I	CD sense signal input pin.

Pin No.	Pin Name	I/O	Function
58,59	NCO	O	Not used.
60	$\overline{\text{BU IN}}$	I	BATT voltage detection pin.
61	$\overline{\text{BUSON}}$	I	BUS ON signal input pin. (for SONY BUS)
62	$\overline{\text{IN SW}}$	I	IN switch input pin.
63	$\overline{\text{SELF SW}}$	I	SELF switch input pin.
64	NCO	O	Not used.
65	CD CKO	O	CD serial clock output pin.
66	$\overline{\text{CD LAT}}$	O	CD latch signal output pin.
67	CD SO	O	CD serial data output pin.
68	ESPXWRE	O	DRAM write enable signal output pin.
69	ESPXRDE	O	DRAM read enable signal output pin.
70	$\overline{\text{ESPXLT}}$	O	DRAM control latch signal output pin.
71	$\overline{\text{ESPXSOE}}$	O	DRAM control serial data output enable signal output pin.
72	VDD	-	Power supply.
73	NIH	-	Not used.
74	$\overline{\text{GRSRST}}$	O	DRAM address reset signal output pin. "H" output on track jump.
75	ESPSDT	I	DRAM control status reading data input pin.
76	$\overline{\text{ESPXQOK}}$	O	Sub-code Q OK signal output pin.
77	ESPQTBC	I	Data reading pin for TRACK NO./INDEX/MIN/SCE display during ESP playback.
78	ESPQRCK	O	Data reading clock output pin for TRACK NO./INDEX/MIN/SCE display during ESP playback.
79	ESPMRE	I	Enable to data write for lapse of time display during ESP playback.
80	ESPMWE	I	Enable to data write for lapse of time display during ESP playback.

**MAIN BOARD IC206 MN1883220S4B3 (TUNER CONTROL) (CDX-C910)**  
**MAIN BOARD IC206 MN1883220S4C2 (TUNER CONTROL) (CDX-C910RDS)**

Pin No.	Pin Name	I/O	Function
1	RD	I	Read pulse input terminal of data (D0 to D3).
2	BUSY	I	BUSY output monitor terminal.
3	D3	I/O	Command input/output.
4	D2	I/O	Command input/output.
5	D1	I/O	Command input/output.
6	D0	I/O	Command input/output.
7	VDD	-	Power supply. (+5 V)
8	X1	O	System clock input. (8.0MHz)
9	X2	I	System clock output. (8.0MHz)
10	GND	-	GND.
11	XI	I	Connected to GND.
12	-	-	Not used. (open)
13	XO	O	Connected to GND.
14	RESET	I	Reset input.
15	RDS-CLK	I	RDS serial clock input pin.
16	BU-IN	I	BATT voltage detection pin.
17	BUSON	I	BUS ON control input pin.
18-29	-	-	Not used. (open)
30	RDS-DATA	I	RDS serial data input pin.
31	-	-	Connected to GND.
32-35	-	-	Not used. (open)
36	-	-	Connected to GND.
37	-	-	Connected to GND.
38	PLL-DI	I	PLL serial data input pin.
39	PLL-DO	O	PLL serial data output pin.
40	PLL-CLK	O	PLL serial clock output pin.
41	CE	O	PLL serial chip enable output pin.
42	RQ	O	Bus request signal output pin.
43	LINK-OFF	O	Link-off signal output pin. (for SONY BUS)
44	SCK	I	Serial clock input pin. (for SONY BUS)
45	SI	I	Serial data input pin. (for SONY BUS)
46	SO	O	Serial data output pin. (for SONY BUS)
47	VDD	-	Power supply. (+5V)
48	AVDD	-	Power supply for A/D converter. (+5V)
49	VREF	-	Reference power supply. (+5V)
50, 51	-	-	Connect to GND.
52	SRAM-RST	I	SRAM reset signal input pin.
53	MUTE-SEL	I	Muting select signal input pin. (Not used)
54	MS-1	I	Destination setting pin.
55	MS-2	I	Destination setting pin.
56	AM-S.METER	I	AM signal meter voltage detection pin.
57	FM-S.METER	I	FM signal meter voltage detection pin.
58	-	-	Connected to GND.

Pin No.	Pin Name	I/O	Function
59	–	–	Connected to GND.
60	–	–	Connected to GND.
61	TU.ON	O	Tuner system power supply control pin. (Not used)
62	–	–	Not used. (Open)
63	SEEK.OUT	O	Seek signal output pin.
64	AM.ON	O	AM power supply control pin.
65	FM.ON	O	FM power supply control pin.
66	TUNER-MUTE	O	Tuner muting signal output pin.
67	AF-SEEK	O	AF seek signal output pin.
68	–	–	Not used. (Open)
69	–	–	Not used. (Open)
70	ST-IN/MONO	I	Stereo detection signal input pin.
71	SD-IN	I	Station detection signal input pin.
72-75	–	–	Not used. (open)
76	PDWN	O	Power down terminal.
77	TIM.RESET	O	Reset/power down terminal.
78	TIM.CE	O	Data permission/prohibition setting through D0 to D3. “H”: permission.
79	$\overline{\text{TIM.CE}}$	O	Data permission/prohibition setting through D0 to D3. “L”: permission.
80	$\overline{\text{WR}}$	I	Write pulse input terminal of data (D0 to D3).



**MAIN BORD IC401  $\mu$ PD78058GC-231-3B9 (SYSTEM CONTROL)**

Pin No.	Pin Name	I/O	Function
1	RE-1	I	Rotary encoder (volume) input.
2	P-MOT+	O	Front panel OPEN/CLOSE motor control signal output
3	P-MOT-	O	
4	AVSS	-	GND for A/D converter.
5	LCDANG	O	LCD Angle adjustment pin.
6	CLOSE ENG	I	Front panel position detect input.
7	AVREF	-	Reference power supply for A/D converter.
8	10 DEG	I	Front panel position detect input
9	20 DEG	I	
10	COLOR	I/O	Illumination color select control pin.
11	LCDCE2	O	LCD serial chip enable output pin.
12	LCDDATA	O	LCD serial data output pin.
13	LCDCLK	O	LCD serial clock output pin.
14	LCDCE1	O	LCD serial chip enable output pin.
15	LCDINH	O	LCD serial INH output pin.
16	UNISI	I	Serial data input pin. (for SONY BUS)
17	UNISO	O	Serial data output pin. (for SONY BUS)
18	UNICKI	I	Serial clock input pin. (for SONY BUS)
19	UNICKO	O	Serial clock output pin. (for SONY BUS)
20	BUSON	O	BUS ON control output. (for SONY BUS)
21	NCO	-	Not used. (open)
22	NCO	-	Not used. (open)
23	FP OPEN	O	Disc eject OK signal output.
24	TIR ON	O	Traffic information recording indicator output.
25	NCO	-	Not used. (open)
26	NCO	-	Not used. (open)
27	NOSESW	I	Front panel removal or attaching detection pin.
28	SYSRST	O	System reset output pin. (for SONY BUS)
29	VOLSO	O	Electronic volume serial data output pin.
30	VOLCKO	O	Electronic volume serial clock output pin.
31	VOLCE	O	Electronic volume serial chip enable output pin.
32	PW SEL	I	Power select setting pin.
33	GND	-	GND
34	OPEN END	I	Front panel position detect input.
35	ILL IN	I	ILL lead input for AUDIO DIMMER.
36	NIL	-	Connected to GND.
37	NIL	-	Connected to GND.
38	NIL	-	Connected to GND.
39	NIL	-	Connected to GND.
40	NIL	-	Connected to GND.

Pin No.	Pin Name	I/O	Function
41	NIL	-	Connected to GND.
42	NIL	-	Connected to GND.
43-45	NIL	-	Connected to GND.
46	BEEP	O	Beep sound output pin.
47-49	NIL	-	Connected to GND.
50	NIL	-	Connected to GND.
51	NIL	-	Connected to GND.
52	EL DIMMER	O	DIMMER control signal output "H": DIMMER on.
53	A MUT	O	Audio mute control pin.
54	CAUTION	I	CAUTION alarm function setting.
55	CLOSE OK	I	Front panel CLOSE OK signal input.
56	PW ON	O	System power supply control signal output.
57	ILLON	O	Illumination power supply control signal output.
58	EL ON	O	EL power supply control signal output.
59	TEST	I	TEST mode direct setting pin "L" TEST mode
60	RESET	I	Reset input pin. "L": Reset
61	SIRCS	I	Remote control signal input pin.
62	BU-IN	I	BATT voltage detect pin.
63	KEYACK	I	Key input acknowledge.
64	AD ON	O	Power supply control pin for A/D converter.
65	D OUT	I	Digital output ON/OFF input.
66	ACC IN	I	ACC voltage detect pin "L": ACC on.
67	TIMPOL	I	Connected to GND.
68	VDD	-	Power supply.
69	X OUT	O	Main system clock. (5.0MHz)
70	X IN	I	Main system clock. (5.0MHz)
71	GND	-	GND.
72	XT OUT	O	Sub system clock. (32.768kHz)
73	XT IN	I	Sub system clock. (32.768kHz)
74	AVDD	-	Power supply for A/D converter.
75	AVREF	-	Reference of power supply for A/D converter.
76	KEYIN0	I	Key input. (A/D input)
77	KEYIN1	I	Key input. (A/D input)
78	RC-IN0	I	Rotary commander shift key input.
79	RC-IN1	I	Rotary commander shift key input.
80	RE-0	I	Rotary encoder (volume) input.

## 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

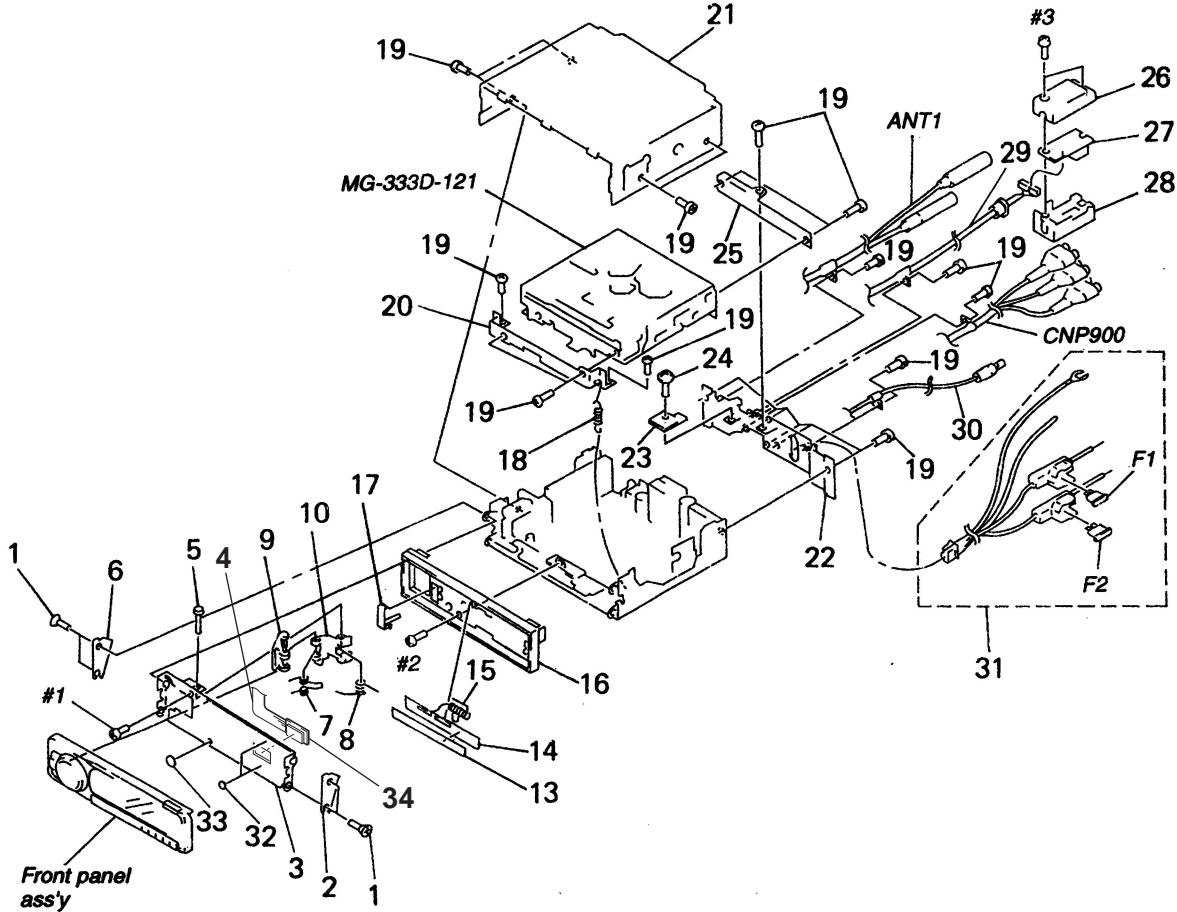
- Abbreviation  
G: German

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

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

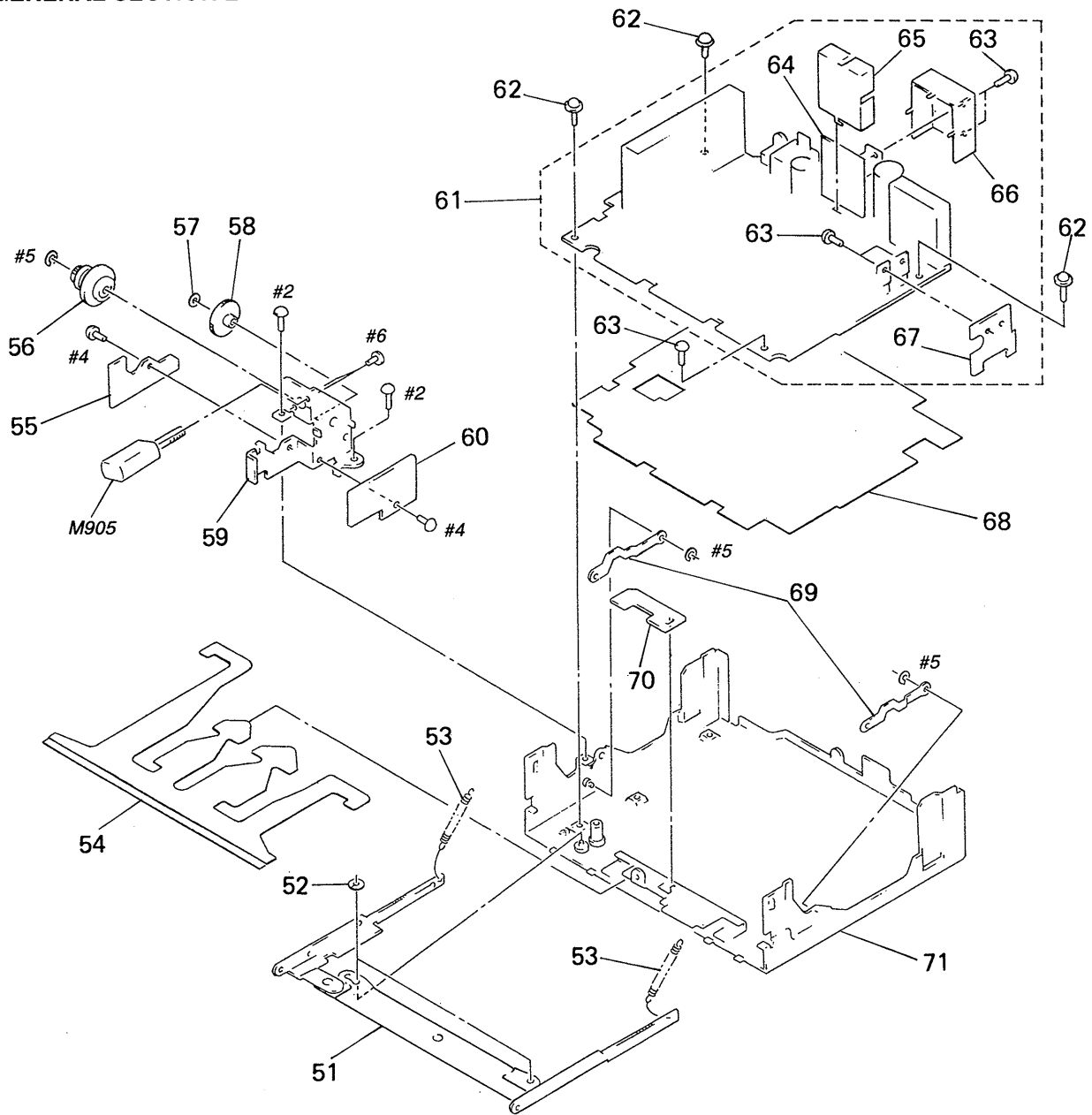
Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**(1) GENERAL SECTION-1**



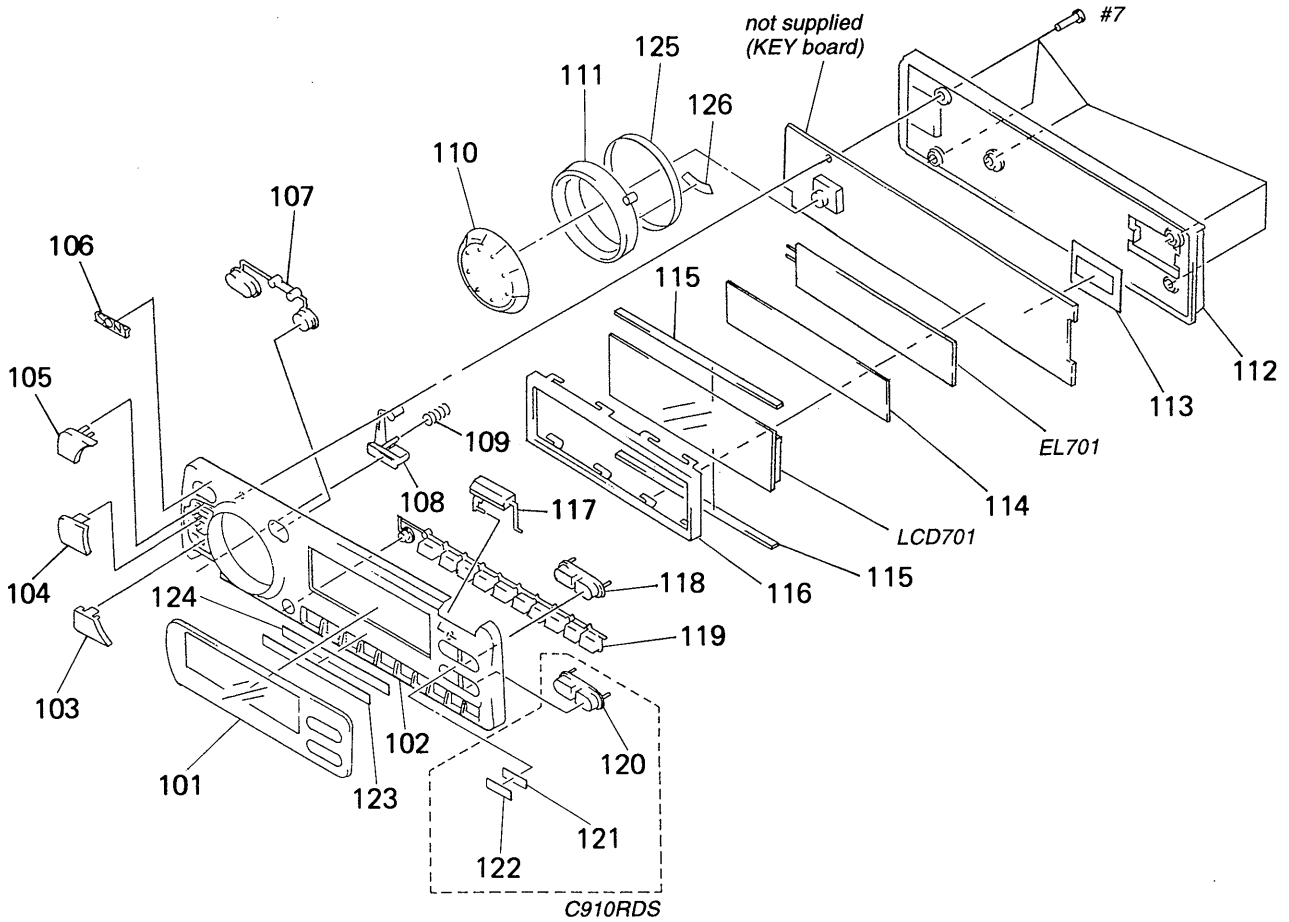
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-934-764-01	SCREW, ORNAMENTAL		* 21	3-934-759-11	COVER, CHASSIS	
2	3-934-762-01	COVER (L)		* 22	3-934-387-01	SINK, HEAT	
3	3-934-769-11	PANEL (BASE)		* 23	1-661-536-11	JACK BOARD	
4	1-661-796-11	FLEXIBLE BOARD		24	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
5	3-934-755-01	SHAFT (LOCK)		* 25	3-934-382-01	BRACKET (MD-R)	
6	3-934-763-01	COVER (R)		* 26	3-934-416-01	CASE (UPPER)	
7	3-934-765-01	SPRING (B)		* 27	1-661-551-11	EL BOARD	
8	3-934-758-01	SPRING (A)		* 28	3-934-417-01	CASE (LOWER)	
9	3-934-757-01	HOLDER (LOCK)		29	1-777-180-21	CORD (WITH CONNECTOR) (EL)	
10	3-934-756-01	ARM (LOCK)		30	1-777-397-11	CORD, ILLUMI	
13	3-934-385-01	SHEET (PROTECTION PLATE)		31	1-777-247-21	CORD, POWER	
14	3-934-379-01	PLATE, PROTECTION		32	3-938-379-01	CUSHION (BASE)	
15	3-939-142-01	SPRING, TORSION		33	3-938-348-11	SHEET (TIR) (C910)	
16	X-3372-238-1	PANEL SUB ASSY, SUB		34	1-778-182-11	SOCKET, CONNECTOR 18P	
17	3-934-751-01	BUTTON (RESET)		ANT1	1-777-246-11	CORD (WITH CONNECTOR) (ANT) (MAIN/SUB)	
18	3-938-777-01	SPRING, TENSION (ARM)		CNP900	1-696-624-41	CORD (WITH CONNECTOR) (AUDIO) (LINE OUTPUT/AUX INPUT)	
19	3-905-560-01	SCREW (2.6X6) (CU), +PTT		F1	1-532-731-11	FUSE (BRADE TYPE) (AUTO FUSE) (3A)	
* 20	3-934-381-01	BRACKET (MD-F)		F2	1-532-731-11	FUSE (BRADE TYPE) (AUTO FUSE) (3A)	

(2) GENERAL SECTION-2



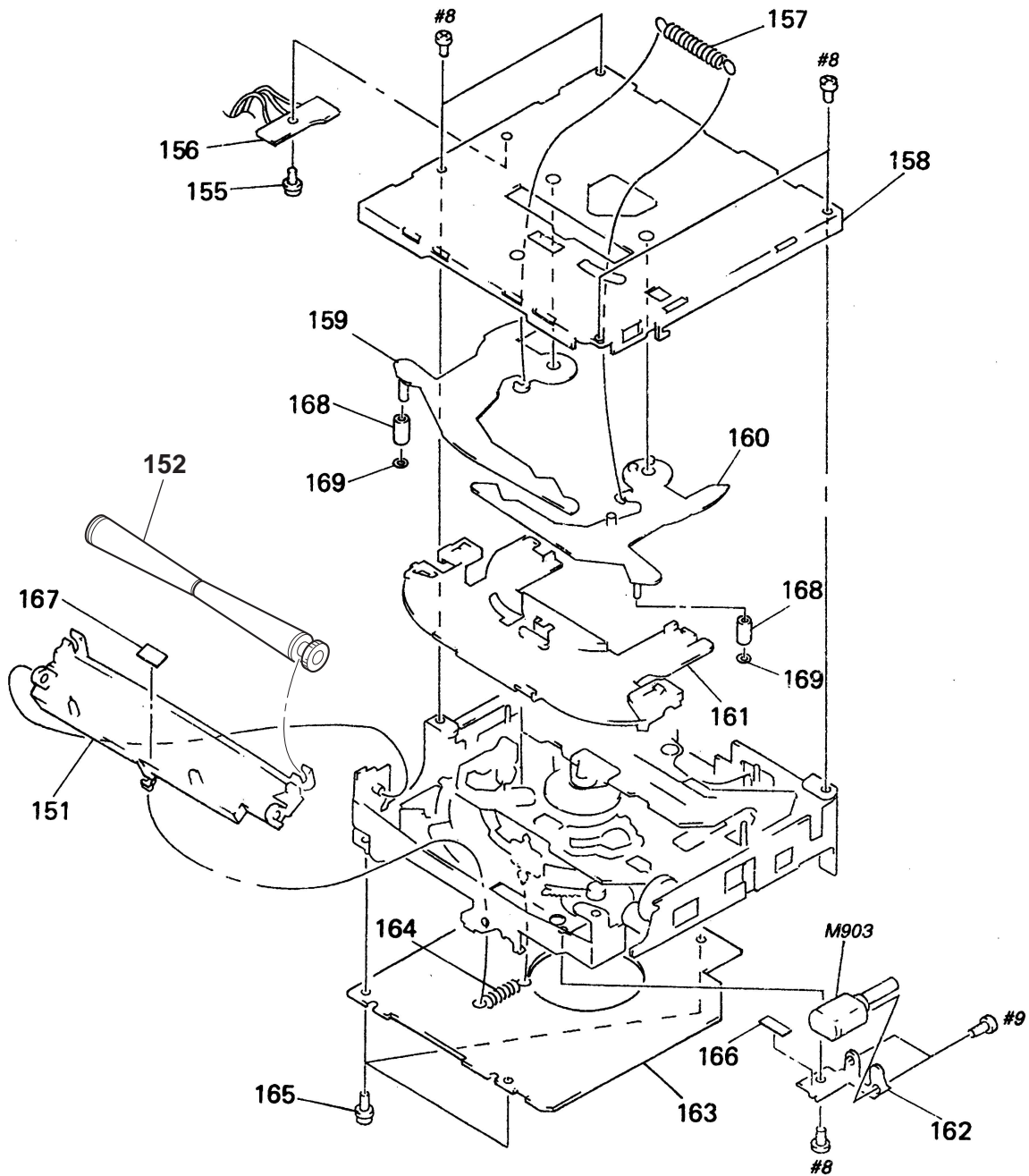
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3371-959-1	ARM ASSY, SLIDE		* 61	A-3309-386-A	MAIN BOARD, COMPLETE (C910RDS:G)	
52	3-899-829-01	WASHER (SLIT)		62	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
53	3-938-776-01	SPRING, TENSION (SLIDE)		63	3-905-560-01	SCREW (2.6X6) (CU), +PTT	
54	3-936-376-01	SHEET, PROTECTION		* 64	1-661-546-11	POWER BOARD	
* 55	1-661-538-11	POSITION BOARD		* 65	3-934-509-01	CASE (COIL 2)	
56	X-3371-964-1	CLUTCH ASSY		* 66	3-934-508-01	CASE (COIL 1)	
57	3-321-813-01	WASHER, COTTER POLYETHYLENE		* 67	3-934-510-01	BRACKET (POWER)	
58	3-934-749-01	GEAR (2)		* 68	3-934-388-01	SHEET, INSULATING	
* 59	X-3371-963-1	BRACKET (MOTOR) ASSY		* 69	3-934-732-01	ARM	
* 60	1-661-539-11	MOTOR BOARD		* 70	1-661-535-11	LAMP BOARD	
* 61	A-3294-081-A	MAIN BOARD, COMPLETE (C910)		* 71	X-3371-929-1	CHASSIS SUB ASSY	
* 61	A-3309-378-A	MAIN BOARD, COMPLETE (C910RDS:AEP, UK)		M905	X-3372-497-1	MOTOR ASSY (OPEN/CLOSE)	

**(3) FRONT PANEL SECTION**



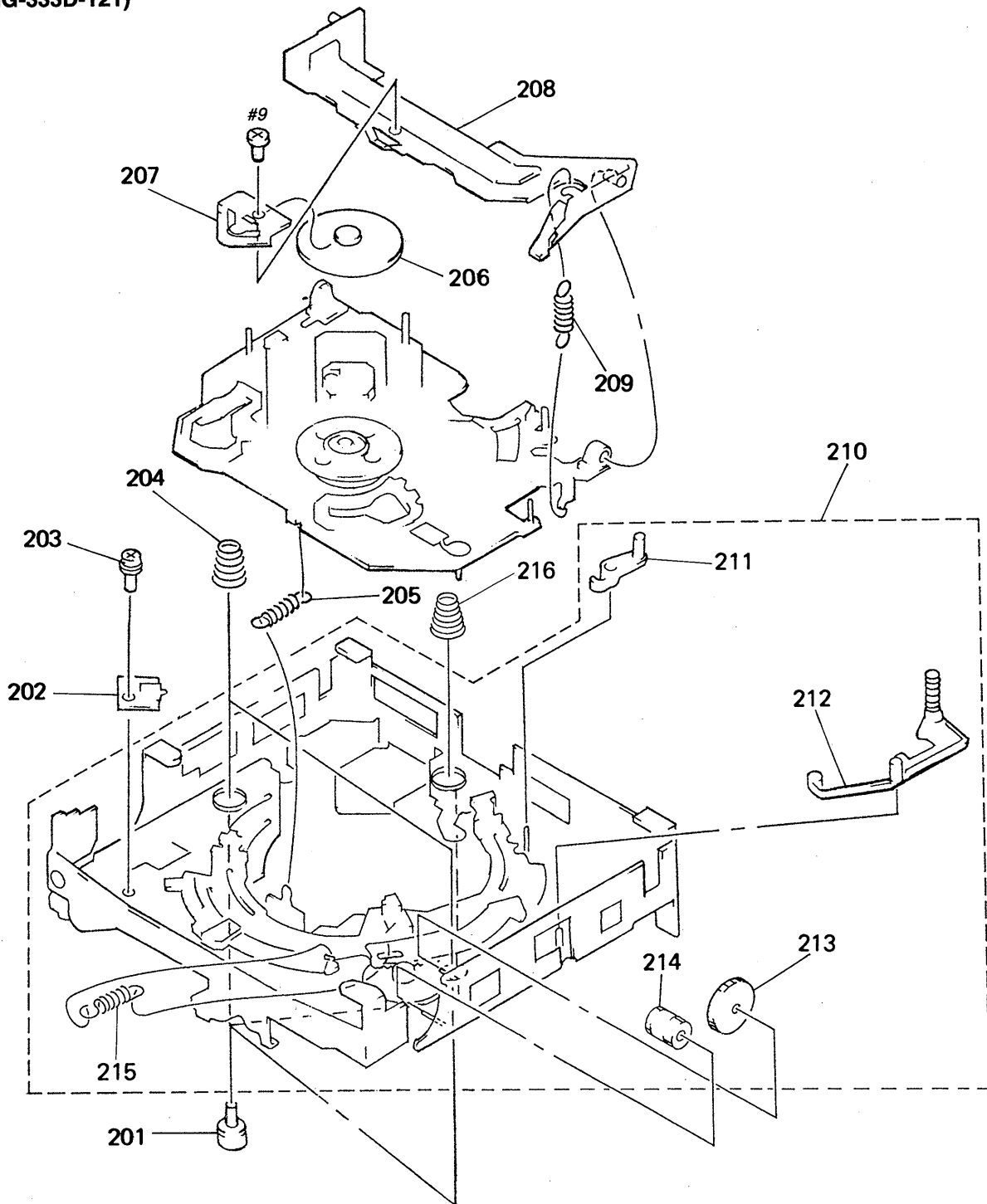
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-3372-439-2	PLATE ASSY, INDICATION (C910:US)		* 114	3-934-395-01	ILLUMINATOR (LCD)	
101	X-3372-440-2	PLATE ASSY, INDICATION (C910RDS)		115	1-778-197-11	CONNECTOR, INTER	
101	X-3372-441-2	PLATE ASSY, INDICATION (C910:Canadian, E)		116	3-934-412-01	PLATE (LCD), GROUND	
102	3-934-403-21	PANEL, FRONT (C910)		117	3-934-406-01	BUTTON (OPEN) (▲)	
102	3-934-403-31	PANEL, FRONT (C910RDS)		118	3-934-399-01	BUTTON (DSPL) (LIST)	
103	3-934-407-01	BUTTON (FF) (⏮ ⏪ -)		119	3-934-405-01	BUTTON (1-10) (1. 2. 3. 4. 5. 6. 7. 8. 9. 10. ●)	
104	3-934-408-01	BUTTON (SOURCE)		120	3-934-400-01	BUTTON (TR) (AF/TA) (C910RDS)	
105	3-934-409-01	BUTTON (REW) (+, ⏮ ⏪)		121	3-934-397-01	ILLUMINATOR (TIMER) (C910RDS)	
106	3-904-194-01	EMBLEM (NO. 2.5), SONY		* 122	3-939-109-01	SHEET (TIMER) (C910RDS)	
107	3-934-398-01	BUTTON (OFF) (SOUND)		* 123	3-938-380-01	SHEET (MODE)	
108	3-934-410-01	BUTTON (RELEASE)		124	3-934-396-01	ILLUMINATOR (MODE)	
109	3-934-415-01	SPRING (RELEASE)		* 125	3-939-116-01	SPACER (RING)	
110	3-934-401-01	KNOB (VOL)		126	3-938-010-01	SHEET (LIGHT INTERCEPTION)	
111	3-934-394-01	RING, VOL		EL701	1-517-557-11	LIGHT, ELECTRO LUMINESCENT	
112	3-934-404-01	PANEL, FRONT BACK		LCD701	1-801-281-11	DISPLAY PANEL, LIQUID CRYSTAL	
113	3-938-230-01	SHEET (BLIND)					

(4) MECHANISM DECK SECTION-1  
(MG-333D-121)



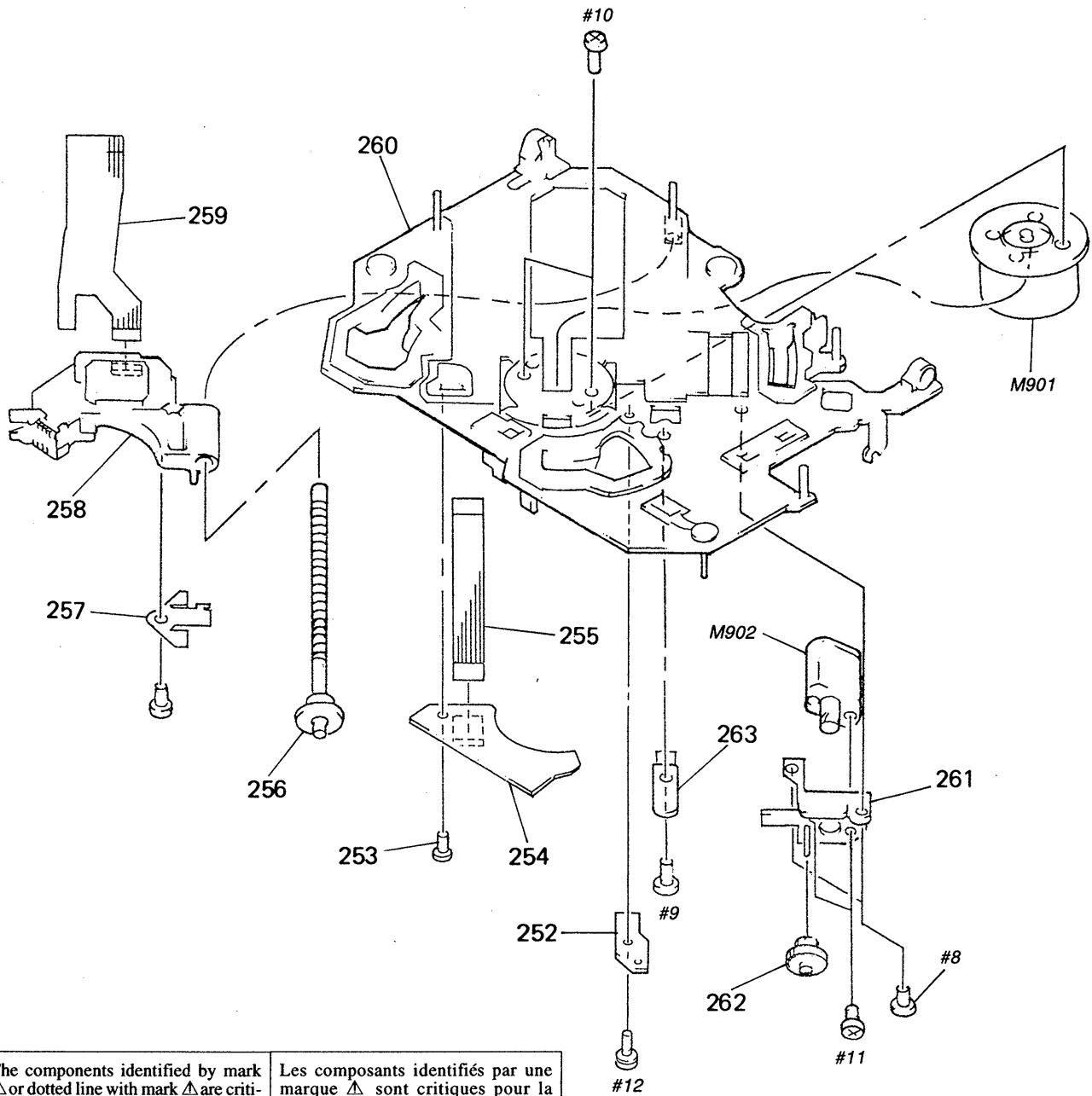
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-931-902-01	ARM (ROLLER)		* 162	3-931-899-01	BRACKET (MOTOR)	
152	A-3291-567-A	ROLLER ASSY		* 163	A-3309-546-A	SERVO BOARD, COMPLETE	
155	3-338-737-01	SCREW (2X3), + PS		164	3-931-916-01	SPRING (RA), TENSION	
* 156	1-659-836-11	DISC IN SW BOARD		165	3-918-103-01	SCREW	
157	3-931-909-01	SPRING (LR), TENSION		* 166	3-939-139-01	SPACER	
* 158	A-3291-816-A	CHASSIS (T) SUB ASSY		* 167	3-936-065-01	CUSHION (RA)	
* 159	X-3371-501-3	LEVER (L) ASSY		168	3-936-756-01	BEARING (D)	
* 160	X-3371-502-2	LEVER (R) ASSY		169	3-321-393-01	WASHER, STOPPER	
161	3-931-908-02	GUIDE (DISC)		M903	A-3291-576-A	MOTOR SUB ASSY, LO (LOADING)	

**(5) MECHANISM DECK SECTION-2  
(MG-333D-121)**



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-931-897-01	DAMPER (T)		209	3-931-895-01	SPRING (CH), TENSION	
* 202	1-659-837-11	LOAD SW BOARD		210	A-3291-568-A	CHASSIS (M) COMPLETE ASSY	
203	3-338-737-01	SCREW (2X3), + PS		211	3-931-881-01	LEVER (LOCK)	
204	3-931-898-11	SPRING (FL), COMPRESSION		212	3-931-879-02	LEVER (D)	
205	3-931-914-01	SPRING (ANGLE), TENSION		213	3-931-882-02	GEAR (MDL)	
* 206	3-384-918-11	RETAINER (DISC)		214	3-934-879-01	WHEEL (U), WORM	
207	3-931-894-01	BRACKET (CP)		215	3-931-883-01	SPRING (TR), TENSION	
208	3-931-893-01	ARM, CHUCKING		216	3-931-898-01	SPRING (FL), COMPRESSION	

**(6) MECHANISM DECK SECTION-3  
(MG-333D-121)**



<p>The components identified by mark <math>\Delta</math> or dotted line with mark <math>\Delta</math> are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque <math>\Delta</math> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 252	1-659-835-12	LIMIT SW BOARD		259	1-659-881-11	PICK-UP FLEXIBLE BOARD	
253	3-909-607-01	SCREW		* 260	X-3371-503-1	CHASSIS (OP) (O/S) ASSY	
* 254	1-659-834-11	SUB BOARD		261	X-3371-504-1	BASE (DRIVING) ASSY	
255	1-659-880-11	MOTOR FLEXIBLE BOARD		262	3-931-832-01	GEAR (SL MIDWAY)	
256	A-3291-571-A	SHAFT (FEED) ASSY		263	3-931-829-01	SPRING (SL), PLATE	
257	3-931-834-01	SPRING (FEED), PLATE		M901	X-3371-665-1	MOTOR ASSY (SPINDLE)	
$\Delta$ 258	8-848-402-02	OPTICAL PICK-UP KSS-520A		M902	A-3291-574-A	MOTOR ASSY, SLED	



DISC IN SW

EL

JACK

KEY

## SECTION 7 ELECTRICAL PARTS LIST

**NOTE:**

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

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

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

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

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

Ref.No.	Part No.	Description	Remark
*	1-659-836-11	DISC IN SW BOARD ***** < SWITCH >	
	SW1	1-572-288-11 SWITCH, PUSH (DISC IN)	
	SW2	1-572-288-11 SWITCH, PUSH (SELF)	
*****			
*	1-661-551-11	EL BOARD ***** < CAPACITOR >	
	C950	1-126-963-11 ELECT 4.7uF 20% 50V	
	C951	1-104-760-11 CERAMIC CHIP 0.047uF 10% 50V	
	C952	1-104-760-11 CERAMIC CHIP 0.047uF 10% 50V	
	C953	1-126-933-11 ELECT 100uF 20% 16V	
	C954	1-104-760-11 CERAMIC CHIP 0.047uF 10% 50V	
	C955	1-126-941-11 ELECT 470uF 20% 25V	
	C956	1-104-760-11 CERAMIC CHIP 0.047uF 10% 50V	
		< CONNECTOR >	
*	CN950	1-506-989-11 PIN, CONNECTOR (PC BOARD) 7P < DIODE >	
	D950	8-719-977-32 DIODE DTZ11B	
	D951	8-719-976-96 DIODE DTZ4.7C < COIL >	
	L951	1-414-712-21 INDUCTOR 1mH < TRANSISTOR >	
	Q950	8-729-106-68 TRANSISTOR 2SD1615A-GP	
	Q951	8-729-106-68 TRANSISTOR 2SD1615A-GP	
	Q952	8-729-900-53 TRANSISTOR DTC114EK	

Ref.No.	Part No.	Description	Remark
		< RESISTOR >	
	R950	1-216-017-00 METAL GLAZE 47 5% 1/10W	
	R951	1-216-075-00 METAL CHIP 12K 5% 1/10W	
	R952	1-216-049-00 METAL GLAZE 1K 5% 1/10W	
	R953	1-216-001-00 METAL CHIP 10 5% 1/10W	
		< TRANSFORMER >	
	T950	1-429-657-11 TRANSFORMER, EL INVERTER *****	
*	1-661-536-11	JACK BOARD ***** < CAPACITOR >	
	C907	1-163-009-11 CERAMIC CHIP 0.001uF 10% 50V	
	C908	1-163-009-11 CERAMIC CHIP 0.001uF 10% 50V < CONNECTOR >	
*	CN906	1-506-985-11 PIN, CONNECTOR (PC BOARD) 3P < JACK >	
	CNJ901	1-566-822-41 JACK (REMOTE IN) *****	
		KEY BOARD *****	
		1-778-197-11 CONNECTOR, INTER	
		3-327-119-01 SPACER (A)	
*		3-934-395-01 ILLUMINATOR (LCD)	
		3-934-412-01 PLATE (LCD), GROUND < CAPACITOR >	
	C770	1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V	
	C771	1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V	

Ref. No.	Part No.	Description	Remark
C772	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C773	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V

## &lt; CONNECTOR &gt;

CN701 1-778-183-11 PLUG, CONNECTOR 18P

## &lt; DIODE &gt;

D750 8-719-422-49 DIODE MA8056-L  
 D770 8-719-422-43 DIODE MA8051-H  
 D772 8-719-422-43 DIODE MA8051-H  
 D774 8-719-404-49 DIODE MA111

## &lt; EL LUMINOUS ELEMENT &gt;

EL701 1-517-557-11 LIGHT, ELECTRO LUMINESCENT

## &lt; IC &gt;

IC701 8-759-331-68 IC uPD16432AGC-011-9EU  
 IC702 8-759-397-71 IC uPD16432AGC-012-9EU  
 IC703 8-749-012-17 IC RS-140-T

## &lt; LIQUID CRYSTAL DISPLAY &gt;

LCD701 1-801-281-11 DISPLAY PANEL, LIQUID CRYSTAL

## &lt; LED &gt;

LED751 8-719-052-72 DIODE CL-220HR-C (ENTER)  
 LED752 8-719-052-72 DIODE CL-220HR-C (BTM)  
 LED753 8-719-052-72 DIODE CL-220HR-C (◀▶) (C910RDS)  
 LED754 8-719-052-72 DIODE CL-220HR-C (⊙) (C910RDS)  
 LED755 8-719-052-72 DIODE CL-220HR-C (←)

LED756 8-719-052-72 DIODE CL-220HR-C (SET UP)  
 LED757 8-719-052-72 DIODE CL-220HR-C (P. MODE)  
 LED758 8-719-052-72 DIODE CL-220HR-C (→)  
 LED761 8-719-987-45 DIODE CL-155Y/PG-CD  
 LED762 8-719-987-45 DIODE CL-155Y/PG-CD

LED763 8-719-987-45 DIODE CL-155Y/PG-CD  
 LED764 8-719-987-45 DIODE CL-155Y/PG-CD  
 LED765 8-719-987-45 DIODE CL-155Y/PG-CD  
 LED766 8-719-987-45 DIODE CL-155Y/PG-CD  
 LED767 8-719-987-45 DIODE CL-155Y/PG-CD

LED768 8-719-987-45 DIODE CL-155Y/PG-CD

## &lt; SWITCH &gt;

LSW700 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (OPEN ▲)  
 LSW701 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (TIR)  
 (C910RDS)  
 LSW702 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (DSPL)  
 LSW703 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (LIST)

Ref. No.	Part No.	Description	Remark
LSW704	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(AF/TA) (C910RDS)

LSW705 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (10)  
 LSW706 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (9)  
 LSW707 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (8)  
 LSW708 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (7) (C910)  
 LSW708 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (7/◀▶) (C910RDS)

LSW709 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (6/BTM)  
 LSW710 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (5/ENTER)  
 LSW711 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (OFF)  
 LSW712 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (SOURCE)  
 LSW713 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (SOUND)

LSW714 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (▶▶▶+)  
 LSW715 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (◀◀◀-)  
 LSW716 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (SHIFT)  
 LSW717 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (1/←)  
 LSW718 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (2/SET UP)

LSW719 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (3/P. MODE)  
 LSW720 1-762-620-11 SWITCH, KEY BOARD (WITH LED) (4/→)

## &lt; TRANSISTOR &gt;

Q750 8-729-106-68 TRANSISTOR 2SD1615A-GP  
 Q774 8-729-904-66 TRANSISTOR DTD113EK  
 Q775 8-729-904-66 TRANSISTOR DTD113EK

## &lt; RESISTOR &gt;

R701 1-216-647-11 METAL CHIP 680 0.5% 1/10W  
 R702 1-216-647-11 METAL CHIP 680 0.5% 1/10W  
 R703 1-216-647-11 METAL CHIP 680 0.5% 1/10W  
 R704 1-216-651-11 METAL CHIP 1K 0.5% 1/10W  
 R705 1-216-655-11 METAL CHIP 1.5K 0.5% 1/10W

R706 1-218-851-11 METAL CHIP 1.5K 0.50% 1/16W  
 R707 1-218-700-11 METAL CHIP 2.2K 0.50% 1/16W  
 R708 1-218-704-11 METAL CHIP 3.3K 0.50% 1/16W  
 R709 1-218-708-11 METAL CHIP 4.7K 0.50% 1/16W  
 R710 1-218-867-11 METAL CHIP 6.8K 0.50% 1/16W

R712 1-216-647-11 METAL CHIP 680 0.5% 1/10W  
 R713 1-216-647-11 METAL CHIP 680 0.5% 1/10W  
 R714 1-218-688-11 METAL CHIP 680 0.50% 1/16W  
 R715 1-216-651-11 METAL CHIP 1K 0.5% 1/10W  
 R716 1-216-655-11 METAL CHIP 1.5K 0.5% 1/10W

R717 1-218-851-11 METAL CHIP 1.5K 0.50% 1/16W  
 R718 1-218-700-11 METAL CHIP 2.2K 0.50% 1/16W  
 R719 1-218-704-11 METAL CHIP 3.3K 0.50% 1/16W  
 R720 1-218-708-11 METAL CHIP 4.7K 0.50% 1/16W  
 R721 1-216-037-00 METAL CHIP 330 5% 1/10W

R722 1-216-041-00 METAL CHIP 470 5% 1/10W

<b>KEY</b>	<b>LAMP</b>	<b>LIMIT SW</b>	<b>LOAD SW</b>
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Ref. No.	Part No.	Description	Remark
R723	1-216-033-00	METAL CHIP	220 5% 1/10W
R724	1-216-027-00	METAL CHIP	120 5% 1/10W
R725	1-216-037-00	METAL CHIP	330 5% 1/10W
R726	1-216-021-00	METAL CHIP	68 5% 1/10W
R727	1-216-021-00	METAL CHIP	68 5% 1/10W
R728	1-216-033-00	METAL CHIP	220 5% 1/10W
R729	1-216-033-00	METAL CHIP	220 5% 1/10W
R730	1-216-033-00	METAL CHIP	220 5% 1/10W
R731	1-216-029-00	METAL CHIP	150 5% 1/10W
R732	1-216-029-00	METAL CHIP	150 5% 1/10W
R733	1-216-029-00	METAL CHIP	150 5% 1/10W
R734	1-216-029-00	METAL CHIP	150 5% 1/10W
R735	1-216-033-00	METAL CHIP	220 5% 1/10W
R736	1-216-027-00	METAL CHIP	120 5% 1/10W
R737	1-216-033-00	METAL CHIP	220 5% 1/10W
R750	1-216-041-00	METAL CHIP	470 5% 1/10W
R751	1-216-045-00	METAL CHIP	680 5% 1/10W
R752	1-216-045-00	METAL CHIP	680 5% 1/10W
R753	1-216-045-00	METAL CHIP	680 5% 1/10W (C910RDS)
R754	1-216-045-00	METAL CHIP	680 5% 1/10W (C910RDS)
R755	1-216-045-00	METAL CHIP	680 5% 1/10W
R756	1-216-045-00	METAL CHIP	680 5% 1/10W
R757	1-216-045-00	METAL CHIP	680 5% 1/10W
R758	1-216-045-00	METAL CHIP	680 5% 1/10W
R770	1-216-041-00	METAL CHIP	470 5% 1/10W
R772	1-216-041-00	METAL CHIP	470 5% 1/10W
R773	1-216-025-00	METAL GLAZE	100 5% 1/10W
R774	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R779	1-216-825-11	METAL CHIP	2. 2K 5% 1/16W
R780	1-216-825-11	METAL CHIP	2. 2K 5% 1/16W
R781	1-216-841-11	METAL CHIP	47K 5% 1/16W
R786	1-216-825-11	METAL CHIP	2. 2K 5% 1/16W
R787	1-216-825-11	METAL CHIP	2. 2K 5% 1/16W
R788	1-216-841-11	METAL CHIP	47K 5% 1/16W
R789	1-216-845-11	METAL CHIP	100K 5% 1/16W
R790	1-216-845-11	METAL CHIP	100K 5% 1/16W
R791	1-216-841-11	METAL CHIP	47K 5% 1/16W
R792	1-216-841-11	METAL CHIP	47K 5% 1/16W
R797	1-216-025-00	METAL GLAZE	100 5% 1/10W
R798	1-216-295-00	CONDUCTOR, CHIP (2012)	
R799	1-216-295-00	CONDUCTOR, CHIP (2012)	
< COMPOSITION CIRCUIT BLOCK >			
RB701	1-239-426-11	NETWORK RESISTOR (CHIP) 2. 2K	
RB702	1-239-426-11	NETWORK RESISTOR (CHIP) 2. 2K	
RB703	1-239-426-11	NETWORK RESISTOR (CHIP) 2. 2K	
RB704	1-239-426-11	NETWORK RESISTOR (CHIP) 2. 2K	

Ref. No.	Part No.	Description	Remark
< ENCODER >			
RE701	1-473-644-11	ENCODER, ROTARY	
*****			
*	1-661-535-11	LAMP BOARD	
*****			
< CONNECTOR >			
CN905	1-691-742-11	PIN, CONNECTOR (PC BOARD) 4P	
< DIODE >			
D906	8-719-052-72	DIODE CL-220HR-C (TIR INDICATOR)	(C910RD)
D907	8-719-987-41	DIODE CL-150Y-CD (OPEN END DETECT)	
< TRANSISTOR >			
Q906	8-729-900-53	TRANSISTOR DTC114EK (C910RDS)	
Q907	8-729-027-49	TRANSISTOR DTC123EKA	
< RESISTOR >			
R910	1-216-041-00	METAL CHIP 470 5% 1/10W	(C910RDS)
R911	1-216-041-00	METAL CHIP 470 5% 1/10W	
*****			
*	1-659-835-12	LIMIT SW BOARD	
*****			
< SWITCH >			
SW3	1-572-688-11	SWITCH, PUSH (1 KEY) (LIMIT)	
*****			
*	1-659-837-11	LOAD SW BOARD	
*****			
< SWITCH >			
SW4	1-572-288-11	SWITCH, PUSH (DOWN)	
*****			



**MAIN**

Ref. No.	Part No.	Description	Remark
C94	1-104-946-11	ELECT	10uF 20% 35V
C95	1-104-946-11	ELECT	10uF 20% 35V
C96	1-163-275-11	CERAMIC CHIP	0.001uF 5% 50V
C97	1-163-275-11	CERAMIC CHIP	0.001uF 5% 50V
C98	1-164-346-11	CERAMIC CHIP	1uF 16V
C99	1-162-806-11	CERAMIC	0.1uF 10% 50V
C100	1-162-806-11	CERAMIC	0.1uF 10% 50V
C102	1-124-122-11	ELECT	100uF 20% 50V
C103	1-124-122-11	ELECT	100uF 20% 50V
C104	1-124-563-11	ELECT	2200uF 20% 25V
C105	1-136-960-11	FILM	0.1uF 10% 160V
C106	1-126-027-11	ELECT	1000uF 20% 25V
C107	1-104-664-11	ELECT	47uF 20% 25V
C108	1-126-027-11	ELECT	1000uF 20% 25V
C116	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C117	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C120	1-163-193-00	CERAMIC CHIP	330PF 50V
C121	1-163-193-00	CERAMIC CHIP	330PF 50V
C122	1-163-003-11	CERAMIC CHIP	330PF 50V
C123	1-163-003-11	CERAMIC CHIP	330PF 50V
C124	1-163-003-11	CERAMIC CHIP	330PF 50V
C125	1-163-003-11	CERAMIC CHIP	330PF 50V
C126	1-163-003-11	CERAMIC CHIP	330PF 50V
C202	1-163-235-11	CERAMIC CHIP	22PF 5% 50V
C203	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C204	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C206	1-126-933-11	ELECT	100uF 20% 10V
C207	1-126-933-11	ELECT	100uF 20% 10V
C208	1-163-005-11	CERAMIC CHIP	470PF 10% 50V
C209	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C210	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C213	1-104-554-11	FILM CHIP	0.018uF 5% 16V (C910RDS)
C213	1-104-555-11	FILM CHIP	0.022uF 5% 16V (C910)
C214	1-104-554-11	FILM CHIP	0.018uF 5% 16V (C910RDS)
C214	1-104-555-11	FILM CHIP	0.022uF 5% 16V (C910)
C220	1-163-077-00	CERAMIC CHIP	0.1uF 10% 25V (C910RDS)
C221	1-163-989-11	CERAMIC CHIP	0.033uF 10% 25V (C910)
C221	1-164-182-11	CERAMIC CHIP	0.0033uF 10% 50V (C910RDS)
C222	1-104-664-11	ELECT	47uF 20% 25V
C223	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C224	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C225	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C226	1-163-251-11	CERAMIC CHIP	100PF 5% 50V

Ref. No.	Part No.	Description	Remark
C227	1-110-351-11	MYLAR	0.001uF 5% 50V (C910RDS)
C228	1-136-165-00	FILM	0.1uF 5% 50V (C910RDS)
C229	1-130-475-00	MYLAR	0.0022uF 5% 50V
C230	1-104-952-11	ELECT	22uF 20% 16V
C231	1-136-169-00	FILM	0.22uF 5% 50V (C910RDS)
C232	1-136-161-00	FILM	0.047uF 5% 50V (C910RDS)
C233	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C234	1-136-159-00	FILM	0.033uF 5% 50V (C910RDS)
C234	1-136-171-00	FILM	0.33uF 5% 50V (C910)
C235	1-163-104-00	CERAMIC CHIP	30PF 50V
C237	1-126-933-11	ELECT	100uF 20% 16V
C238	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C239	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C240	1-163-104-00	CERAMIC CHIP	30PF 50V
C241	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C242	1-164-346-11	CERAMIC CHIP	1uF 16V
C243	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
C244	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C245	1-104-851-11	TANTAL. CHIP	10uF 20% 10V
C246	1-104-912-11	TANTAL. CHIP	3.3uF 20% 16V
C247	1-164-677-11	CERAMIC CHIP	0.033uF 10% 16V
C248	1-165-128-11	CERAMIC CHIP	0.22uF 16V
C249	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C250	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V (C910RDS)
C251	1-110-563-11	CERAMIC CHIP	0.068uF 10% 16V
C252	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C253	1-164-677-11	CERAMIC CHIP	0.033uF 10% 16V
C254	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C255	1-164-677-11	CERAMIC CHIP	0.033uF 10% 16V
C256	1-164-677-11	CERAMIC CHIP	0.033uF 10% 16V
C257	1-164-346-11	CERAMIC CHIP	1uF 16V
C259	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V
C263	1-163-077-00	CERAMIC CHIP	0.1uF 10% 25V
C264	1-104-942-11	ELECT	1uF 20% 50V
C265	1-104-942-11	ELECT	1uF 20% 50V
C267	1-104-942-11	ELECT	1uF 20% 50V
C268	1-104-942-11	ELECT	1uF 20% 50V
C269	1-104-942-11	ELECT	1uF 20% 50V
C270	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V
C271	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C272	1-163-083-00	CERAMIC CHIP	1PF 50V (C910RDS)

Ref. No.	Part No.	Description	Remark
C273	1-164-004-11	CERAMIC CHIP	0. 1uF 10% 25V
C274	1-164-004-11	CERAMIC CHIP	0. 1uF 10% 25V (C910RDS)
C275	1-104-951-11	ELECT	10uF 20% 16V (C910RDS)
C276	1-164-161-11	CERAMIC CHIP	0. 0022uF 10% 100V
C277	1-107-826-11	CERAMIC CHIP	0. 1uF 10% 16V
C278	1-163-127-00	CERAMIC CHIP	270PF 5% 50V (C910RDS)
C279	1-164-232-11	CERAMIC CHIP	0. 01uF 50V (C910RDS)
C281	1-104-951-11	ELECT	10uF 20% 16V (C910RDS)
C282	1-163-989-11	CERAMIC CHIP	0. 033uF 10% 25V (C910RDS)
C283	1-164-232-11	CERAMIC CHIP	0. 01uF 50V (C910RDS)
C284	1-163-237-11	CERAMIC CHIP	27PF 5% 50V (C910RDS)
C285	1-163-237-11	CERAMIC CHIP	27PF 5% 50V (C910RDS)
C286	1-163-083-00	CERAMIC CHIP	1PF 50V (C910RDS)
C289	1-162-964-11	CERAMIC CHIP	0. 001uF 10% 50V (C910RDS)
C290	1-104-942-11	ELECT	1uF 20% 50V (C910RDS)
C291	1-104-942-11	ELECT	1uF 20% 50V (C910RDS)
C295	1-104-952-11	ELECT	22uF 20% 16V (C910RDS)
C296	1-164-004-11	CERAMIC CHIP	0. 1uF 10% 25V (C910RDS)
C297	1-126-933-11	ELECT	100uF 20% 10V
C298	1-164-004-11	CERAMIC CHIP	0. 1uF 10% 25V
C401	1-163-227-11	CERAMIC CHIP	10PF 0. 5PF 50V
C402	1-164-004-11	CERAMIC CHIP	0. 1uF 10% 25V
C403	1-163-231-11	CERAMIC CHIP	15PF 5% 50V
C404	1-104-851-11	TANTAL. CHIP	10uF 20% 10V
C405	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C409	1-126-154-11	ELECT	47uF 20% 6. 3V
C410	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C411	1-163-009-11	CERAMIC CHIP	0. 001uF 10% 50V
C600	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C601	1-104-952-11	ELECT	22uF 20% 16V
C602	1-107-826-11	CERAMIC CHIP	0. 1uF 10% 16V
C605	1-164-004-11	CERAMIC CHIP	0. 1uF 10% 25V
C606	1-125-701-11	CAPACITOR	0. 047F
C607	1-104-952-11	ELECT	22uF 20% 16V
C608	1-104-952-11	ELECT	22uF 20% 16V
C609	1-164-004-11	CERAMIC CHIP	0. 1uF 10% 25V

Ref. No.	Part No.	Description	Remark
C610	1-126-163-11	ELECT	4. 7uF 20% 50V
C611	1-164-004-11	CERAMIC CHIP	0. 1uF 10% 25V
C612	1-104-952-11	ELECT	22uF 20% 16V
C614	1-164-004-11	CERAMIC CHIP	0. 1uF 10% 25V
C616	1-104-952-11	ELECT	22uF 20% 16V
C617	1-126-163-11	ELECT	4. 7uF 20% 50V
< CONNECTOR >			
CN1	1-764-617-12	PIN, CONNECTOR (PC BOARD)	30P
* CN2	1-506-991-11	PIN, CONNECTOR (PC BOARD)	9P
CN4	1-695-546-11	PLUG, CONNECTOR (BUS OUT DIGITAL)	
* CN201	1-506-984-11	PIN, CONNECTOR (PC BOARD)	2P
CN401	1-778-047-21	CONNECTOR, FPC	
* CN402	1-506-985-11	PIN, CONNECTOR (PC BOARD)	3P
CN403	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)	
* CN404	1-506-987-11	PIN, CONNECTOR (PC BOARD)	5P
* CN405	1-506-985-11	PIN, CONNECTOR (PC BOARD)	3P
* CN407	1-506-985-11	PIN, CONNECTOR (PC BOARD)	3P
* CN408	1-695-442-21	PIN, CONNECTOR (PC BOARD)	10P
< COMPOSITION CIRCUIT BLOCK >			
CP202	1-519-504-11	GAP, DISCHARGE	
< DIODE >			
D1	8-719-977-23	DIODE	DTZ9. 1A
D2	8-719-977-22	DIODE	DTZ9. 1
D3	8-719-988-62	DIODE	1SS355
D4	8-719-158-15	DIODE	RD5. 6S-B
D202	8-719-976-88	DIODE	DTZ3. 9B
D203	8-719-914-43	DIODE	DAN202K
D204	8-719-158-15	DIODE	RD5. 6S-B
D205	8-719-977-22	DIODE	DTZ9. 1
D207	8-719-988-62	DIODE	1SS355
D401	8-719-988-62	DIODE	1SS355
D402	8-719-105-99	DIODE	RD6. 2M-B1
D403	8-719-105-99	DIODE	RD6. 2M-B1
D404	8-719-105-99	DIODE	RD6. 2M-B1
D406	8-719-988-62	DIODE	1SS355
D407	8-719-105-99	DIODE	RD6. 2M-B1
D408	8-719-988-62	DIODE	1SS355
D409	8-719-988-62	DIODE	1SS355
D410	8-719-988-62	DIODE	1SS355
D411	8-719-988-62	DIODE	1SS355
D412	8-719-056-83	DIODE	UDZ-TE-17-6. 8B
D413	8-719-056-83	DIODE	UDZ-TE-17-6. 8B
D414	8-719-056-83	DIODE	UDZ-TE-17-6. 8B
D416	8-719-056-83	DIODE	UDZ-TE-17-6. 8B
D417	8-719-056-83	DIODE	UDZ-TE-17-6. 8B

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
D419	8-719-056-83	DIODE UDZ-TE-17-6. 8B		IC206	8-759-428-05 IC	MN1883220S4B3 (C910)	
D420	8-719-056-83	DIODE UDZ-TE-17-6. 8B		IC207	8-759-344-91 IC	RN5VD23AA-TL	
D421	8-719-056-83	DIODE UDZ-TE-17-6. 8B		IC208	8-759-075-66 IC	TA75S01F	
D422	8-719-056-83	DIODE UDZ-TE-17-6. 8B		IC209	8-759-163-63 IC	TDA7330BD-013TR (C910RDS)	
D423	8-719-056-83	DIODE UDZ-TE-17-6. 8B		IC210	8-759-180-46 IC	MSM6685JSDR1 (C910RDS)	
D425	8-719-056-83	DIODE UDZ-TE-17-6. 8B		IC211	8-759-374-66 IC	MSM6688GS-2K (C910RDS)	
D426	8-719-056-83	DIODE UDZ-TE-17-6. 8B		IC401	8-759-394-63 IC	uPD78058GC-231-3B9	
D601	8-719-977-22	DIODE DTZ9. 1		IC402	8-759-096-16 IC	MM1175XFF	
D602	8-719-975-40	DIODE RB411D		IC601	8-759-363-81 IC	XC61AN4002PR	
D603	8-719-977-04	DIODE DTZ5. 6C				< CHIP CONDUCTOR >	
D604	8-719-988-62	DIODE 1SS355		JC201	1-216-295-00	CONDUCTOR, CHIP (2012)	
D605	8-719-056-83	DIODE UDZ-TE-17-6. 8B		JC202	1-216-296-00	CONDUCTOR, CHIP (3216)	
D606	8-719-914-43	DIODE DAN202K		JC205	1-216-295-00	CONDUCTOR, CHIP (2012)	
D607	8-719-978-69	DIODE DTZ-TT11-16B		JC206	1-216-295-00	CONDUCTOR, CHIP (2012)	
D608	8-719-056-88	DIODE UDZ-TE-17-11B		JC209	1-216-296-00	CONDUCTOR, CHIP (3216)	
D609	8-719-056-88	DIODE UDZ-TE-17-11B		JC210	1-216-295-00	CONDUCTOR, CHIP (2012)	
D611	8-719-988-62	DIODE 1SS355				< COIL >	
D612	8-719-914-43	DIODE DAN202K		L1	1-410-946-31	INDUCTOR CHIP 22uH	
D613	8-719-056-83	DIODE UDZ-TE-17-6. 8B		L2	1-410-946-31	INDUCTOR CHIP 22uH	
D614	8-719-988-62	DIODE 1SS355		L3	1-414-400-11	INDUCTOR 22uH	
D615	8-719-988-62	DIODE 1SS355		L4	1-414-400-11	INDUCTOR 22uH	
D616	8-719-988-62	DIODE 1SS355		L10	1-414-398-11	INDUCTOR 10uH	
		< DD CONVERTER >		L201	1-410-946-31	INDUCTOR CHIP 22uH	
DD1	1-473-682-31	CONVERTER UNIT, DC/DC		L203	1-410-946-31	INDUCTOR CHIP 22uH	
		< IC >		L205	1-410-204-31	INDUCTOR CHIP 10uH (C910RDS)	
IC1	8-759-348-81 IC	SM5843AS1-E2		L208	1-410-946-31	INDUCTOR CHIP 22uH (C910RDS)	
IC2	8-759-242-70 IC	TC7WU04F		L401	1-410-946-31	INDUCTOR CHIP 22uH	
IC3	8-759-231-53 IC	TA7805S		L600	1-410-946-31	INDUCTOR CHIP 22uH	
IC4	8-759-425-06 IC	PCM1702U-K-T1				< IC LINK >	
IC5	8-759-425-06 IC	PCM1702U-K-T1		PS1	1-533-397-11	RINK, CHIP IC	
IC6	8-759-231-53 IC	TA7805S		PS601	1-533-674-11	RINK, CHIP IC	
IC7	8-759-064-92 IC	NJM5532M-D				< TRANSISTOR >	
IC8	8-759-245-79 IC	TA79005S		Q1	8-729-922-65	TRANSISTOR 2SD1760F5-PQR	
IC9	8-759-711-85 IC	NJM4580E-D		Q2	8-729-922-65	TRANSISTOR 2SD1760F5-PQR	
IC10	8-759-711-85 IC	NJM4580E-D		Q3	8-729-921-25	TRANSISTOR FMC2	
IC11	8-752-071-19 IC	CXA1946Q		Q4	8-729-921-25	TRANSISTOR FMC2	
IC12	8-759-346-20 IC	NJM78L06UA-TE1		Q5	8-729-027-23	TRANSISTOR DTA114EKA-T146	
IC13	8-759-346-19 IC	NJM79L06UA-TE1		Q6	8-729-900-53	TRANSISTOR DTC114EK	
IC14	8-759-064-92 IC	NJM5532M-D		Q12	8-729-920-21	TRANSISTOR DTC314TKH04	
IC15	8-759-064-92 IC	NJM5532M-D		Q13	8-729-920-21	TRANSISTOR DTC314TKH04	
IC202	8-759-242-66 IC	TC4W66F (C910RDS)		Q14	8-729-920-21	TRANSISTOR DTC314TKH04	
IC203	8-759-823-81 IC	LC7216M		Q15	8-729-920-21	TRANSISTOR DTC314TKH04	
IC204	8-759-367-11 IC	HA12181FP-EL		Q16	8-729-920-21	TRANSISTOR DTC314TKH04	
IC205	8-759-008-67 IC	MC14066BF (C910RDS)		Q17	8-729-920-21	TRANSISTOR DTC314TKH04	
IC206	8-759-428-04 IC	MN1883220S4C2 (C910RDS)					

Ref. No.	Part No.	Description	Remark
Q18	8-729-920-21	TRANSISTOR	DTC314TKH04
Q19	8-729-920-21	TRANSISTOR	DTC314TKH04
Q20	8-729-921-25	TRANSISTOR	FMC2
Q21	8-729-922-65	TRANSISTOR	2SD1760F5-PQR
Q202	8-729-900-53	TRANSISTOR	DTC114EK (C910RDS)
Q203	8-729-021-94	TRANSISTOR	2SK1657-T1B
Q204	8-729-920-85	TRANSISTOR	2SD1664-QR
Q205	8-729-920-85	TRANSISTOR	2SD1664-QR
Q207	8-729-920-21	TRANSISTOR	DTC314TKH04
Q208	8-729-920-21	TRANSISTOR	DTC314TKH04
Q209	8-729-920-21	TRANSISTOR	DTC314TKH04
Q210	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q401	8-729-027-23	TRANSISTOR	DTA114EKA-T146
Q402	8-729-027-23	TRANSISTOR	DTA114EKA-T146
Q403	8-729-027-23	TRANSISTOR	DTA114EKA-T146
Q405	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q407	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q408	8-729-027-23	TRANSISTOR	DTA114EKA-T146
Q601	8-729-904-48	TRANSISTOR	DTB113EK (C910RDS)
Q602	8-729-027-52	TRANSISTOR	DTC124EKA-T146 (C910RDS)
Q603	8-729-904-07	TRANSISTOR	FMG2
Q604	8-729-904-48	TRANSISTOR	DTB113EK
Q605	8-729-904-48	TRANSISTOR	DTB113EK
Q606	8-729-922-65	TRANSISTOR	2SD1760F5-PQR
Q607	8-729-027-52	TRANSISTOR	DTC124EKA-T146
Q608	8-729-822-84	TRANSISTOR	2SB1202FAST
Q609	8-729-106-60	TRANSISTOR	2SB1115A
Q610	8-729-920-85	TRANSISTOR	2SD1664-QR
Q611	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q612	8-729-900-53	TRANSISTOR	DTC114EK
Q613	8-729-904-48	TRANSISTOR	DTB113EK
Q614	8-729-900-53	TRANSISTOR	DTC114EK
Q615	8-729-920-85	TRANSISTOR	2SD1664-QR
Q616	8-729-920-85	TRANSISTOR	2SD1664-QR
Q617	8-729-027-52	TRANSISTOR	DTC124EKA-T146
Q618	8-729-920-82	TRANSISTOR	2SB1188-QR
Q619	8-729-920-41	TRANSISTOR	FMC3
Q620	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q621	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q622	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q623	8-729-027-52	TRANSISTOR	DTC124EKA-T146
< RESISTOR >			
R1	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R3	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R4	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R5	1-260-032-11	CARBON MELF	1M 2% 1/8W

Ref. No.	Part No.	Description	Remark
R6	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R7	1-216-043-00	METAL GLAZE	560 5% 1/10W
R8	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R9	1-216-043-00	METAL GLAZE	560 5% 1/10W
R10	1-259-995-11	CARBON MELF	1K 2% 1/8W
R12	1-216-295-00	CONDUCTOR, CHIP (2012)	
R14	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R16	1-216-025-00	METAL GLAZE	100 5% 1/10W
R17	1-216-025-00	METAL GLAZE	100 5% 1/10W
R18	1-216-025-00	METAL GLAZE	100 5% 1/10W
R19	1-216-025-00	METAL GLAZE	100 5% 1/10W
R20	1-216-208-00	METAL GLAZE	2.7K 1/8W
R21	1-216-208-00	METAL GLAZE	2.7K 1/8W
R22	1-208-512-11	METAL GLAZE	12K 2% 1/8W
R23	1-208-512-11	METAL GLAZE	12K 2% 1/8W
R24	1-208-512-11	METAL GLAZE	12K 2% 1/8W
R25	1-208-512-11	METAL GLAZE	12K 2% 1/8W
R26	1-216-210-00	METAL GLAZE	3.3K 1/8W
R27	1-216-210-00	METAL GLAZE	3.3K 1/8W
R28	1-216-210-00	METAL GLAZE	3.3K 1/8W
R29	1-216-210-00	METAL GLAZE	3.3K 1/8W
R30	1-208-486-61	METAL GLAZE	1K 2% 1/8W
R31	1-208-486-61	METAL GLAZE	1K 2% 1/8W
R32	1-208-486-61	METAL GLAZE	1K 2% 1/8W
R33	1-208-486-61	METAL GLAZE	1K 2% 1/8W
R35	1-216-065-00	METAL CHIP	4.7K 1/10W (EXCEPT US, Canadian)
R36	1-216-065-00	METAL CHIP	4.7K 1/10W (EXCEPT US, Canadian)
R37	1-216-065-00	METAL CHIP	4.7K 1/10W (EXCEPT US, Canadian)
R38	1-216-065-00	METAL CHIP	4.7K 1/10W (EXCEPT US, Canadian)
R41	1-216-295-00	CONDUCTOR, CHIP (2012)	(US, Canadian)
R41	1-216-061-00	METAL CHIP	3.3K 1/10W (AEP, UK, E)
R41	1-216-069-00	METAL CHIP	6.8K 1/10W (German)
R42	1-216-295-00	CONDUCTOR, CHIP (2012)	(US, Canadian)
R42	1-216-051-00	METAL CHIP	1.2K 1/10W (EXCEPT US, Canadian)
R45	1-216-295-00	CONDUCTOR, CHIP (2012)	(US, Canadian)
R45	1-216-051-00	METAL CHIP	1.2K 1/10W (EXCEPT US, Canadian)
R46	1-216-295-00	CONDUCTOR, CHIP (2012)	(US, Canadian)
R46	1-216-061-00	METAL CHIP	3.3K 1/10W (AEP, UK, E)
R46	1-216-069-00	METAL CHIP	6.8K 1/10W (German)
R47	1-260-004-11	CARBON MELF	4.7K 2% 1/8W



**MAIN**

Ref. No.	Part No.	Description	Remark		
R48	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
R49	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
R50	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
R51	1-260-008-11	CARBON MELF	10K	2%	1/8W
R52	1-260-008-11	CARBON MELF	10K	2%	1/8W
R53	1-260-008-11	CARBON MELF	10K	2%	1/8W
R54	1-260-008-11	CARBON MELF	10K	2%	1/8W
R55	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R56	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R57	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R58	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R59	1-216-174-00	METAL GLAZE	100	2%	1/8W
R60	1-216-174-00	METAL GLAZE	100	2%	1/8W
R61	1-216-174-00	METAL GLAZE	100	2%	1/8W
R62	1-216-174-00	METAL GLAZE	100	2%	1/8W
R63	1-216-174-00	METAL GLAZE	100	2%	1/8W
R64	1-216-174-00	METAL GLAZE	100	2%	1/8W
R65	1-216-174-00	METAL GLAZE	100	2%	1/8W
R66	1-216-174-00	METAL GLAZE	100	2%	1/8W
R67	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R68	1-216-230-00	METAL GLAZE	22K	2%	1/8W
R69	1-216-230-00	METAL GLAZE	22K	2%	1/8W
R70	1-216-230-00	METAL GLAZE	22K	2%	1/8W
R71	1-216-230-00	METAL GLAZE	22K	2%	1/8W
R72	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R73	1-208-399-61	METAL GLAZE	27	2%	1/8W
R74	1-208-399-61	METAL GLAZE	27	2%	1/8W
R75	1-208-399-61	METAL GLAZE	27	2%	1/8W
R76	1-208-399-61	METAL GLAZE	27	2%	1/8W
R77	1-208-399-61	METAL GLAZE	27	2%	1/8W
R78	1-208-399-61	METAL GLAZE	27	2%	1/8W
R79	1-208-399-61	METAL GLAZE	27	2%	1/8W
R80	1-208-399-61	METAL GLAZE	27	2%	1/8W
R81	1-208-399-61	METAL GLAZE	27	2%	1/8W
R82	1-208-399-61	METAL GLAZE	27	2%	1/8W
R83	1-208-399-61	METAL GLAZE	27	2%	1/8W
R84	1-208-399-61	METAL GLAZE	27	2%	1/8W
R85	1-208-399-61	METAL GLAZE	27	2%	1/8W
R86	1-208-399-61	METAL GLAZE	27	2%	1/8W
R87	1-216-101-00	METAL CHIP	150K	5%	1/10W
R88	1-216-210-00	METAL CHIP	3.3K		1/8W
R89	1-216-210-00	METAL CHIP	3.3K		1/8W
R201	1-216-073-00	METAL CHIP	10K	5%	1/10W
R202	1-216-849-11	METAL CHIP	220K	5%	1/16W
R203	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R205	1-216-073-00	METAL CHIP	10K	5%	1/10W
R210	1-216-089-00	METAL GLAZE	47K	5%	1/10W

(C910RDS)

Ref. No.	Part No.	Description	Remark		
R212	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R213	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R214	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R215	1-216-073-00	METAL CHIP	10K	5%	1/10W
R217	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R218	1-216-073-00	METAL CHIP	10K	5%	1/10W
R219	1-216-073-00	METAL CHIP	10K	5%	1/10W
R220	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R221	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R222	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R223	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R224	1-216-077-00	METAL CHIP	15K	5%	1/10W
R225	1-216-845-11	METAL CHIP	100K	5%	1/16W
R226	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R227	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R228	1-216-841-11	METAL CHIP	47K	5%	1/16W
R229	1-216-834-11	METAL CHIP	12K	5%	1/16W
R230	1-216-835-11	METAL CHIP	15K	5%	1/16W
R231	1-216-850-11	METAL CHIP	270K	5%	1/16W
R232	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R233	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R235	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R236	1-216-073-00	METAL CHIP	10K	5%	1/10W
R237	1-216-041-00	METAL CHIP	470	5%	1/10W
R238	1-216-041-00	METAL CHIP	470	5%	1/10W
R239	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R240	1-216-025-00	METAL GLAZE	100	5%	1/10W
R241	1-216-025-00	METAL GLAZE	100	5%	1/10W
R243	1-216-081-00	METAL CHIP	22K	5%	1/10W
R244	1-216-081-00	METAL CHIP	22K	5%	1/10W
R245	1-216-081-00	METAL CHIP	22K	5%	1/10W
R247	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R248	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R249	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R250	1-216-845-11	METAL CHIP	100K	5%	1/16W
R251	1-216-119-00	METAL CHIP	820K	5%	1/10W
R252	1-216-113-00	METAL CHIP	470K	5%	1/10W
R254	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R255	1-216-845-11	METAL CHIP	100K	5%	1/16W (C910)
R256	1-216-113-00	METAL CHIP	470K	5%	1/10W
R257	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R258	1-216-841-11	METAL CHIP	47K	5%	1/16W
R259	1-216-841-11	METAL CHIP	47K	5%	1/16W

(E, German)

(C910RDS)

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R260	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R413	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R261	1-216-081-00	METAL CHIP	22K	5%	1/10W	R414	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R262	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W (C910RDS)	R415	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R263	1-216-129-00	METAL CHIP	2. 2M	5%	1/10W (C910RDS)	R419	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R264	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C910RDS)	R420	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R265	1-216-089-00	METAL CHIP	47K	5%	1/10W (C910RDS)	R421	1-216-025-00	METAL GLAZE	100	5%	1/10W
R266	1-216-851-11	METAL CHIP	330K	5%	1/16W (C910RDS)	R422	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R267	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C910RDS)	R424	1-216-025-00	METAL GLAZE	100	5%	1/10W
R268	1-216-033-00	METAL CHIP	220	5%	1/10W (C910RDS)	R425	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R269	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C910RDS)	R426	1-216-845-11	METAL CHIP	100K	5%	1/16W
R270	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C910RDS)	R427	1-216-025-00	METAL GLAZE	100	5%	1/10W
R271	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C910RDS)	R431	1-216-073-00	METAL CHIP	10K	5%	1/10W
R273	1-216-097-00	METAL GLAZE	100K	5%	1/10W (C910)	R432	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R280	1-216-295-00	CONDUCTOR, CHIP (2012) (C910)				R433	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R281	1-216-295-00	CONDUCTOR, CHIP (2012) (C910)				R434	1-208-806-11	METAL CHIP	10K	0. 50%	1/10W
R282	1-216-295-00	CONDUCTOR, CHIP (2012) (C910)				R435	1-208-806-11	METAL CHIP	10K	0. 50%	1/10W
R283	1-216-097-00	METAL CHIP	100K	5%	1/10W (C910)	R436	1-208-806-11	METAL CHIP	10K	0. 50%	1/10W
R284	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C910RDS)	R437	1-208-806-11	METAL CHIP	10K	0. 50%	1/10W
R285	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C910RDS)	R445	1-216-025-00	METAL GLAZE	100	5%	1/10W
R286	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C910RDS)	R446	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R287	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C910RDS)	R447	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R288	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C910RDS)	R448	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R289	1-216-089-00	METAL GLAZE	47K	5%	1/10W (C910RDS)	R449	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R401	1-216-025-00	METAL GLAZE	100	5%	1/10W	R450	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R402	1-216-025-00	METAL GLAZE	100	5%	1/10W	R451	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R403	1-216-097-00	METAL GLAZE	100K	5%	1/10W	R452	1-216-025-00	METAL GLAZE	100	5%	1/10W
R404	1-216-097-00	METAL GLAZE	100K	5%	1/10W	R453	1-216-025-00	METAL GLAZE	100	5%	1/10W
R405	1-216-089-00	METAL GLAZE	47K	5%	1/10W	R454	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R406	1-216-025-00	METAL GLAZE	100	5%	1/10W	R455	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R407	1-216-025-00	METAL GLAZE	100	5%	1/10W	R457	1-216-025-00	METAL GLAZE	100	5%	1/10W
R408	1-216-081-00	METAL CHIP	22K	5%	1/10W	R458	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R409	1-216-081-00	METAL CHIP	22K	5%	1/10W	R459	1-216-841-11	METAL CHIP	47K	5%	1/16W
R410	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R460	1-216-025-00	METAL GLAZE	100	5%	1/10W
R411	1-216-025-00	METAL GLAZE	100	5%	1/10W	R461	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
R412	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R601	1-216-041-00	METAL CHIP	470	5%	1/10W
						R602	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W
						R603	1-216-073-00	METAL CHIP	10K	5%	1/10W
						R604	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W
						R605	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W
						R606	1-216-073-00	METAL CHIP	10K	5%	1/10W
						R607	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W
						R608	1-216-097-00	METAL GLAZE	100K	5%	1/10W
						R609	1-216-041-00	METAL CHIP	470	5%	1/10W
						R610	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W
						R611	1-216-097-00	METAL GLAZE	100K	5%	1/10W
						R612	1-216-089-00	METAL GLAZE	47K	5%	1/10W
						R613	1-216-083-00	METAL CHIP	27K	5%	1/10W
						R614	1-216-089-00	METAL GLAZE	47K	5%	1/10W
						R615	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W

<b>MAIN</b>	<b>MOTOR</b>	<b>POSITION</b>
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Ref. No.	Part No.	Description	Remark
R616	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R617	1-216-041-00	METAL CHIP 470 5% 1/10W	
R618	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R619	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R620	1-216-057-00	METAL CHIP 2. 2K 5% 1/10W	
R621	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R622	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R623	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R624	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R625	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R626	1-216-067-00	METAL CHIP 5. 6K 5% 1/10W	
R627	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R628	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R629	1-216-073-00	METAL CHIP 10K 5% 1/10W	
< VARIABLE RESISTOR >			
RV201	1-238-716-11	RES, ADJ, METAL GLAZE 100K (C910RDS)	
< SWITCH >			
S202	1-572-272-11	SWITCH, SLIDE (FREQUENCY SELECT) (E)	
S401	1-572-272-11	SWITCH, SLIDE (POWER SELECT)	
S402	1-692-431-21	SWITCH, TACTILE (RESET)	
S407	1-572-272-11	SWITCH, SLIDE (DIGITAL/ANALOG SELECT)	
< TUNER UNIT >			
TU201	A-3282-020-A	TUNER UNIT (TUX-009(E))	
< VIBRATOR >			
X1	1-567-908-11	VIBRATOR, CRYSTAL (16. 9MHz)	
X201	1-577-126-51	VIBRATOR, CRYSTAL (7. 2MHz)	
X202	1-579-952-21	VIBRATOR, CERAMIC (8MHz)	
X203	1-760-556-11	VIBRATOR, CRYSTAL (4. 332MHz) (C910RDS)	
X204	1-579-465-13	VIBRATOR, CRYSTAL (4. 19MHz) (C910RDS)	
X401	1-579-886-21	VIBRATOR, CRYSTAL (32. 768kHz)	
X402	1-760-489-11	VIBRATOR, CERAMIC (5. 0MHz)	
*****			
* 1-661-539-11	MOTOR BOARD *****		
< BUZZER >			
BZ901	1-504-468-21	SOUNDER, PIEZOELECTRIC	
< CAPACITOR >			
C904	1-164-004-11	CERAMIC CHIP 0. 1uF 10% 25V	
C905	1-126-157-11	ELECT 10uF 20% 16V	
C906	1-164-004-11	CERAMIC CHIP 0. 1uF 10% 25V	
C999	1-113-987-11	TANTAL. CHIP 4. 7uF 20% 25V	

Ref. No.	Part No.	Description	Remark
< CONNECTOR >			
CN903	1-750-862-21	PIN, CONNECTOR (PC BOARD) 5P	
* CN904	1-691-741-21	PIN, CONNECTOR (PC BOARD) 2P	
< DIODE >			
D902	8-719-914-43	DIODE DAN202K	
D903	8-719-977-28	DIODE DTZ10B	
D904	8-719-988-62	DIODE 1SS355	
D905	8-719-988-62	DIODE 1SS355	
D920	8-719-105-99	DIODE RD6. 2M-B1	
< IC >			
IC901	8-759-276-89	IC BA6285FP-E2	
< TRANSISTOR >			
Q903	8-729-900-53	TRANSISTOR DTC114EK	
Q904	8-729-921-25	TRANSISTOR FMC2	
Q905	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q920	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
< RESISTOR >			
R908	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R909	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R997	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R999	1-216-864-11	CONDUCTOR, CHIP (1608)	
*****			
* 1-661-538-11	POSITION BOARD *****		
< CONNECTOR >			
CN901	1-695-440-21	PIN, CONNECTOR (PC BOARD) 6P	
< RESISTOR >			
R901	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R902	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R903	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R904	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
< SWITCH >			
S901	1-572-288-11	SWITCH, PUSH (20 DEGREE SETTING)	
S902	1-572-288-11	SWITCH, PUSH (10 DEGREE SETTING)	
S903	1-572-688-11	SWITCH, PUSH (1 KEY) (CLOSE END DETECT)	
S904	1-572-288-11	SWITCH, PUSH (OPEN END DETECT)	
*****			

**POWER**

**SERVO**

Ref. No.	Part No.	Description	Remark		
*	1-661-546-11	POWER BOARD ***** (Included in MAIN BOARD, COMPLETE)			
		< CAPACITOR >			
C909	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C910	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN907	1-778-292-11	CONNECTOR, BOARD TO BOARD 6P			
CN908	1-778-291-11	CONNECTOR, BOARD TO BOARD 4P			
CN909	1-569-146-11	CONNECTOR			
		< DIODE >			
D908	8-719-028-74	DIODE NSQ03A04			
D909	8-719-313-73	DIODE SFPB-52			
		< COIL >			
L902	1-411-402-11	COIL, CHOKE	1000uH		
L903	1-411-404-11	COIL, CHOKE	680uH		
L904	1-411-403-11	COIL, CHOKE	470uH		
		< THERMISTOR >			
TH901	1-809-148-11	THERMISTOR PTH8L07AR2R0M1B510			
TH902	1-809-148-11	THERMISTOR PTH8L07AR2R0M1B510			
*****					
*	A-3309-546-A	SERVO BOARD, COMPLETE *****			
		< CAPACITOR >			
C1	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C2	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C3	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C101	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C102	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C105	1-111-253-11	TANTAL. CHIP	100uF	20%	6.3V
C106	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C107	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C108	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C109	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C110	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
C111	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C112	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C113	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C114	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C115	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V
C116	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

Ref. No.	Part No.	Description	Remark		
C117	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C118	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C119	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C120	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C121	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C122	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C123	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C124	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C125	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C126	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C203	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C204	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C205	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C206	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C207	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C208	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C209	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C301	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C302	1-110-456-11	SOLID CHIP	47uF	20%	16V
C303	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C304	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C305	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C306	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C307	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C308	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C309	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V
C310	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C311	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C312	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C313	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C330	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C331	1-110-456-11	SOLID CHIP	47uF	20%	16V
C332	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C334	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C335	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C336	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
		< CONNECTOR >			
CN1	1-764-616-12	HOUSING, CONNECTOR(PC BOARD)30P			
CN2	1-766-491-11	CONNECTOR, FPC 17P			
CN3	1-764-439-21	CONNECTOR, FPC 11P			
CN4	1-770-347-21	CONNECTOR, FPC 6P			
CN5	1-569-775-21	PIN, CONNECTOR 5P			
CN6	1-580-055-21	PIN, CONNECTOR 2P			
		< IC >			
IC1	8-752-069-29	IC CXA1791N			
IC2	8-752-369-78	IC CXD2545Q			

**SERVO**

**SUB**

Ref. No.	Part No.	Description	Remark
IC3	8-752-373-27	IC CXD2512AQ	
IC4	8-759-342-14	IC uPD424400GS-60-9JD	
IC5	8-752-873-71	IC CXP84332-031Q	
IC6	8-759-823-87	IC LB1638M	
IC7	8-759-370-18	IC BA6797FP-E2	
IC8	8-759-349-32	IC BA6840AFS-T1	
< COIL >			
L101	1-412-060-11	INDUCTOR CHIP 22uH	
L102	1-412-060-11	INDUCTOR CHIP 22uH	
L103	1-412-060-11	INDUCTOR CHIP 22uH	
< TRANSISTOR >			
Q1	8-729-901-05	TRANSISTOR DTA124EK	
Q2	8-729-011-95	TRANSISTOR RN-2426	
Q3	8-729-141-48	TRANSISTOR 2SB624-BV345	
< RESISTOR >			
R101	1-216-295-00	CONDUCTOR, CHIP (2012)	
R102	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R103	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R104	1-216-103-00	METAL CHIP 180K 5% 1/10W	
R105	1-216-103-00	METAL CHIP 180K 5% 1/10W	
R106	1-216-001-00	METAL CHIP 10 5% 1/10W	
R108	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R109	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R110	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R111	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R112	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R113	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R114	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R115	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R116	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R117	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R118	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R119	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R120	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R121	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R122	1-216-033-00	METAL CHIP 220 5% 1/10W	
R123	1-216-033-00	METAL CHIP 220 5% 1/10W	
R124	1-216-033-00	METAL CHIP 220 5% 1/10W	
R125	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R127	1-216-033-00	METAL CHIP 220 5% 1/10W	
R129	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R132	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R133	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R140	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R141	1-216-081-00	METAL CHIP 22K 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R142	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R143	1-216-091-00	METAL CHIP 56K 5% 1/10W	
R203	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R204	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R207	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R208	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R209	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R210	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R211	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R212	1-216-295-00	CONDUCTOR, CHIP (2012)	
R213	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R214	1-216-295-00	CONDUCTOR, CHIP (2012)	
R217	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R218	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R301	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R302	1-216-037-00	METAL CHIP 330 5% 1/10W	
R303	1-216-308-00	METAL CHIP 4.7 5% 1/10W	
R304	1-208-814-11	METAL CHIP 22K 0.50% 1/10W	
R305	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
R306	1-208-814-11	METAL CHIP 22K 0.50% 1/10W	
R307	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
R308	1-208-814-11	METAL CHIP 22K 0.50% 1/10W	
R309	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
R310	1-208-814-11	METAL CHIP 22K 0.50% 1/10W	
R311	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
R312	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R313	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R314	1-216-103-00	METAL CHIP 180K 5% 1/10W	
R315	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R316	1-208-814-11	METAL CHIP 22K 0.50% 1/10W	
R317	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
R318	1-208-814-11	METAL CHIP 22K 0.50% 1/10W	
R319	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
R320	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R330	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R331	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R332	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R333	1-217-671-11	METAL CHIP 1 5% 1/10W	
< VIBRATOR >			
X1	1-760-365-11	VIBRATOR, CERAMIC (10MHz)	
*****			
*	1-659-834-11	SUB BOARD	
*****			
< CONNECTOR >			
CN1	1-770-347-21	CONNECTOR, FPC 6P	
*****			

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS *****	
29	1-777-180-21	CORD (WITH CONNECTOR) (EL)	
30	1-777-397-11	CORD, ILLUMI	
34	1-778-182-11	SOCKET, CONNECTOR 18P	
△258	8-848-402-02	OPTICAL PICK-UP KSS-520A	
ANT1	1-777-246-11	CORD (WITH CONNECTOR) (ANT) (MAIN/SUB)	
CNP900	1-696-624-41	CORD (WITH CONNECTOR) (AUDIO) (LINE OUTPUT/AUX INPUT)	
EL701	1-517-557-11	LIGHT, ELECTRO LUMINESCENT	
F1	1-532-731-11	FUSE (BRADE TYPE) (AUTO FUSE) (3A)	
F2	1-532-731-11	FUSE (BRADE TYPE) (AUTO FUSE) (3A)	
LCD701	1-801-281-11	DISPLAY PANEL, LIQUID CRYSTAL	

- M901 X-3371-665-1 MOTOR ASSY (SPINDLE)
- M902 A-3291-574-A MOTOR ASSY, SLED
- M903 A-3291-576-A MOTOR SUB ASSY, LO (LOADING)
- M905 X-3372-497-1 MOTOR ASSY (OPEN/CLOSE)

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HARDWARE LIST  
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- #1 7-627-553-68 SCREW, PRECISION +P 2X6
- #2 7-621-770-67 SCREW +PTT 2. 6X6 (S)
- #3 7-621-773-95 SCREW +PTT 2. 6X6 (S)
- #4 7-621-259-25 SCREW +P 2. 6X4
- #5 7-624-104-04 RETAINING, RING E-1. 9
- #6 7-627-553-28 SCREW, PRECISION +P 2X2. 5
- #7 7-685-105-19 SCREW +P 2X8 TYPE2 NON-SLIT
- #8 7-627-553-37 PRECISION SCREW +P 2X3 TYPE 3
- #9 7-627-553-17 PRECISION SCREW +P 2X2 TYPE 3
- #10 7-627-000-00 SCREW, PRECISION +P 1. 7X2. 2 TYPE 3
- #11 7-627-850-28 SCREW, PRECISION +P 1. 4X3
- #12 7-628-253-00 SCREW +PS 2X4

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ACCESSORIES  
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- 1-473-067-31 REMOTE COMMANDER (RM-X2S)
- 3-370-129-01 CASE (for FRONT PANEL)
- 3-856-714-11 MANUAL, INSTRUCTION, INSTALL  
(ENGLISH, SPANISH, CHINESE) (C910:E)
- 3-856-714-21 MANUAL, INSTRUCTION (ENGLISH, FRENCH)  
(C910:US, Canadian)
- 3-856-715-11 MANUAL, INSTRUCTION (ENGLISH, SPANISH,  
CHINESE) (C910:E)
- 3-856-715-21 MANUAL, INSTRUCTION (ENGLISH)  
(C910:US, Canadian)

Ref. No.	Part No.	Description	Remark
	3-856-715-31	MANUAL, INSTRUCTION (FRENCH) (C910:Canadian)	
	3-856-716-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, ITALIAN, GERMAN) (C910RDS)	
	3-856-716-21	MANUAL, INSTRUCTION, INSTALL (SPANISH, DUTCH, SWEDISH, PORTUGUESE) (C910RDS:AEP, UK)	
	3-856-717-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN) (C910RDS)	
	3-856-717-21	MANUAL, INSTRUCTION (ITALIAN, SPANISH) (C910RDS)	
	3-856-717-31	MANUAL, INSTRUCTION (DUTCH, SWEDISH, PORTUGUESE) (C910RDS:AEP, UK)	

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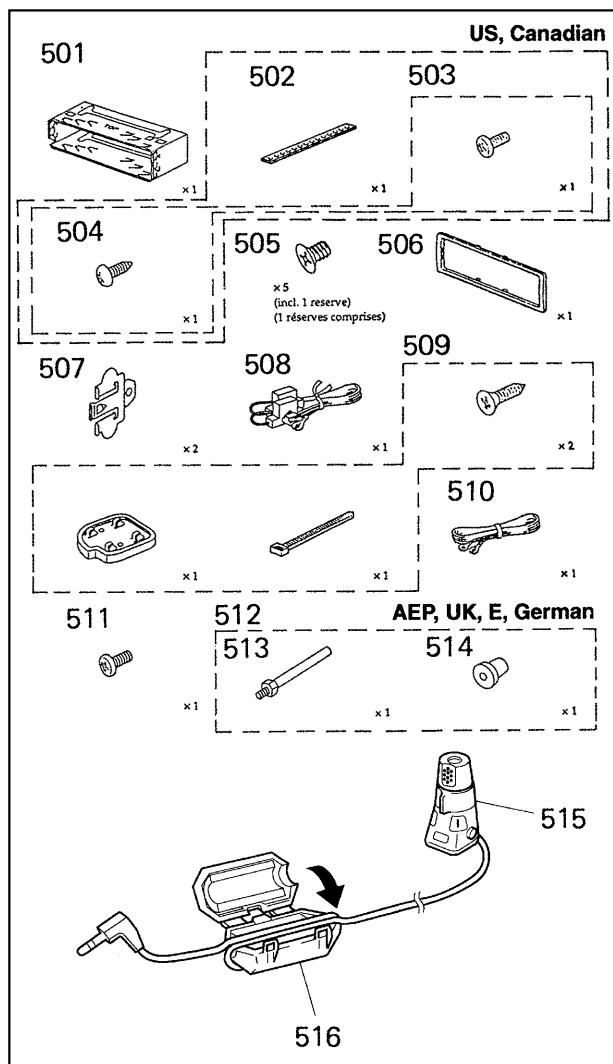
<p>The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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Ref. No.	Part No.	Description	Remark
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PARTS FOR INSTALLATION AND CONNECTIONS

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501	3-916-161-42	FRAME, FITTING	
502	3-914-406-01	SUPPORT (ND), FITTING (C910:US, Canadian)	
503	X-3368-725-1	SCREW ASSY, FITTING (C910:US, Canadian)	
504	7-682-560-04	SCREW +P 4X6 (C910:US, Canadian)	
505	3-934-325-01	SCREW, +K (5X8) TAPPING	
506	3-934-788-01	FRAME, ORNAMENTAL	
507	3-934-787-01	SPRING, FITTING	
508	1-777-247-21	CORD, POWER (C910:US/C910RDS)	
509	X-3369-817-1	BRACKET ASSY	
510	1-775-543-11	CORD, GROUND	
511	3-344-561-21	SCREW (M4X4)	
512	X-3366-405-1	SCREW ASSY (EXP), FITTING (C910:E/C910RDS:AEP, UK, German)	
513	3-386-828-01	SCREW, FITTING (C910:E/C910RDS:AEP, UK, German)	
514	3-349-410-01	BUSHING (C910:E/C910RDS:AEP, UK, German)	
515	1-473-067-31	REMOTE COMMANDER (RM-X2S)	
516	1-500-051-11	BEAD, FERRITE (WITH CASE) (C910:US)	



## Printing Method for Large Sized Documents Such As Circuit Diagrams

Printing the page that exceeds A4-size two pages (or letter size) is possible by specifying the print range. (Acrobat Reader Version 4.0 or later)

1. The enlarged print is made, if a smaller range than A4 size is specified and the A4 size is selected as a print paper.
2. Almost real sized print is made, if the range is specified, meeting the print paper size.
3. The reduced print is made, if a larger range than the print paper size is specified.

### Printing by Specifying a Range

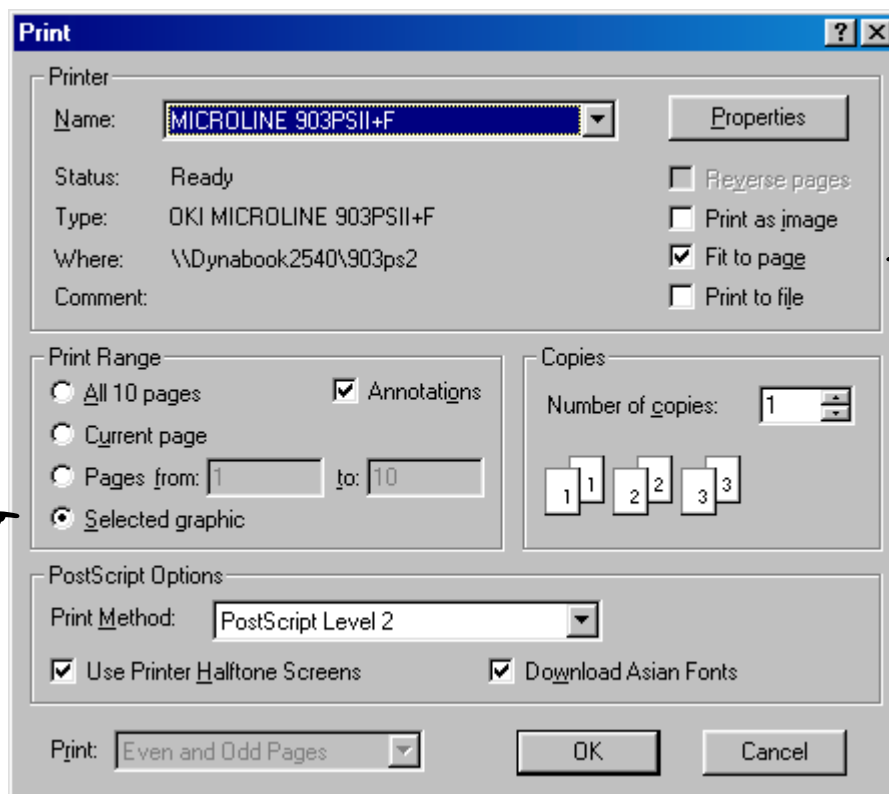
In printing out the drawings such as a schematic diagram and a printed wiring board larger than the printed paper size, they can be printed by specifying the range. (Acrobat Reader Version 4.0 or later)

1. Display the page to be printed.
2. From the File menu, select [Page Setup] and set the paper size.
3. From the Command bar, select [Graphic Select Tool].

(Keep pressing  , select  )



4. Dragging the cursor, enclose the range on the page to be printed.
5. From the File menu, select [Print] and make sure that the [Selected Graphic] is already checked. Also, if [Fit to page] is checked, the selected range is enlarged or reduced (and rotated as necessary) meeting the paper size.



6. To cancel the printed range, click an arbitrary position on the screen.



