

# XM-SD14X

## SERVICE MANUAL

Ver. 1.0 2005. 02

AEP Model  
UK Model



### SPECIFICATIONS

Circuit system	OTL (output transformerless) circuit Pulse power supply
Inputs	RCA pin jacks High level input connector
Input level adjustment range	0.3 – 6 V (RCA pin jacks), 1.2 – 12 V (High level input)
Outputs	Speaker terminals
Speaker impedance	2 – 8 $\Omega$ (stereo) 4 – 8 $\Omega$ (when used as a bridging amplifier)
Maximum outputs	Four speakers: 100 W $\times$ 4 (at 4 $\Omega$ ) Three speakers: 100 W $\times$ 2 + 250 W $\times$ 1 (at 4 $\Omega$ )
Rated outputs (supply voltage at 14.4 V)	55 W RMS $\times$ 4 (DIN 45500, 4 $\Omega$ ) Four speakers: 50 W RMS $\times$ 4 (20 Hz – 20 kHz, 0.04% THD, at 4 $\Omega$ ) 60 W RMS $\times$ 4 (20 Hz – 20 kHz, 0.1% THD, at 2 $\Omega$ )
SN Ratio	100 dBA (reference: Rated output)
Frequency response	5 Hz – 50 kHz ( $\pm 3$ dB)
Harmonic distortion	0.005% or less (at 1 kHz, 4 $\Omega$ , 10 W)
Low-pass filter	80 Hz, –18 dB/oct
High-pass filter	80 Hz, –12 dB/oct
Power requirements	12 V DC car battery (negative ground)
Power supply voltage	10.5 – 16 V
Current drain	30 A (at 4 $\Omega$ , 50 W $\times$ 4) Remote input : 1 mA
Dimensions	Approx. 350 $\times$ 55 $\times$ 238 mm (w/h/d) not incl. projecting parts and controls
Mass	Approx. 3.1 kg not incl. accessories
Supplied accessories	Mounting screws (4) High level input cord (1) Protection cap (1)

*Design and specifications are subject to change without notice.*

## STEREO POWER AMPLIFIER

9-879-509-01  
2005B04-1  
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**Sony Corporation**  
e Vehicle Group  
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# SONY®

## 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.

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### SAFETY-RELATED COMPONENT WARNING!!

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

# SECTION 1 GENERAL

This section is extracted from instruction manual.

## Connections

### Precautions

- This unit is designed for negative ground 12 V DC operation only.
- Use speakers with suitable impedance.
  - 2 – 8 Ω (stereo) , 4 – 8 Ω (when used as a bridging amplifier).
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the amplifier and active speakers.
- Avoid installing the unit in areas subject to:
  - high temperatures such as from direct sunlight or hot air from the heater
  - rain or moisture
  - dust or dirt
- If your car is parked in direct sunlight and there is a considerable rise in temperature inside the car, allow the unit to cool down before use.
- When installing the unit horizontally, be sure not to cover the fins with the floor carpet etc.
- If this unit is placed too close to the car audio unit or aerial, interference may occur. In this case, relocate the amplifier away from the car audio unit or aerial.
- If no power is being supplied to the car audio unit, check the connections.
- This power amplifier employs a protection circuit to protect the transistors and speakers if the amplifier malfunctions. Do not attempt to test the protection circuits by covering the heat sink or connecting improper loads.
- Do not use the unit on a weak battery as its optimum performance depends on a good power supply.
- For safety reasons, keep your car audio volume moderate so that you can still hear sounds outside your car.

If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest Sony dealer.

### Caution

- Before making any connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Be sure to use speakers with an adequate power rating. If you use small capacity speakers, they may be damaged.
- Do not connect the ⊖ terminal of the speaker system to the car chassis, and do not connect the ⊖ terminal of the right speaker with that of the left speaker.
- Install the input and output cords away from the power supply wire as running them close together can generate some interference noise.
- This unit is a high powered amplifier. Therefore, it may not perform to its full potential if used with the speaker cords supplied with the car.
- If your car is equipped with a computer system for navigation or some other purpose, do not remove the ground wire from the car battery. If you disconnect the wire, the computer memory may be erased. To avoid short circuits when making connections, disconnect the +12 V power supply wire until all the other wires have been connected.

## Conexiones

### Precauciones

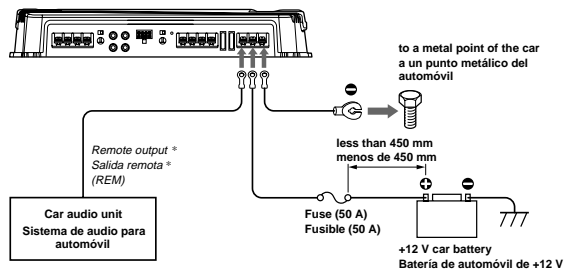
- Esta unidad está diseñada para utilizarse sólo con cc de 12 negativa a masa.
- Utilice altavoces con una impedancia adecuada.
  - 2 – 8 Ω (estéreo) , 4 – 8 Ω (cuando se utiliza como amplificador en puente).
- No conecte altavoces activos (con amplificadores incorporados) a los terminales de altavoz de la unidad. Si lo hace, puede dañar el amplificador y los altavoces activos.
- Evite instalar la unidad en lugares expuestos a:
  - altas temperaturas, como a la luz solar directa o al aire caliente de la calefacción
  - lluvia o humedad
  - suciedad o polvo.
- Si aparca el automóvil bajo la luz solar directa y se produce un considerable aumento de temperatura en el interior, deje que la unidad se enfríe antes de utilizarla.
- Si instala la unidad horizontalmente, asegúrese de no cubrir las aletas con la moqueta del suelo, etc.
- Si coloca la unidad demasiado cerca del sistema de audio para automóvil o de la antena, pueden producirse interferencias. En este caso, aleje el amplificador de dichos dispositivos.
- Si el sistema de audio para automóvil no recibe alimentación, compruebe las conexiones.
- Este amplificador de potencia emplea un circuito de protección para proteger los transistores y los altavoces en caso de que dicho amplificador presente fallos de funcionamiento. No intente someter a prueba los circuitos de protección cubriendo el disipador de calor o conectando cargas inadecuadas.
- No utilice la unidad si la batería se está agotando, ya que el rendimiento óptimo de dicha unidad depende de una buena fuente de alimentación.
- Por razones de seguridad, mantenga el volumen del sistema de audio en un nivel moderado de forma que sea posible oír los sonidos del exterior del automóvil.

Si desea realizar alguna consulta o solucionar algún problema relativos a la unidad que no se traten en este manual, póngase en contacto con el distribuidor Sony más próximo.

### Precaución

- Antes de realizar las conexiones, desconecte el terminal de toma a tierra de la batería del automóvil para evitar cortocircuitos.
- Asegúrese de utilizar altavoces con una potencia nominal adecuada. Si emplea altavoces de capacidad reducida, pueden dañarse.
- No conecte el terminal ⊖ del sistema de altavoces al chasis del automóvil, ni el terminal ⊖ del altavoz derecho al del altavoz izquierdo.
- Instale los cables de entrada y salida alejados del cable de suministro de alimentación, ya que en caso contrario puede generarse ruido por interferencias.
- Esta unidad es un amplificador de alta potencia. Por tanto, es posible que no funcione a pleno rendimiento si se utiliza con los cables de altavoz suministrados con el automóvil.
- Si el automóvil está equipado con un sistema informático para la navegación o para otra finalidad, no desconecte el conductor de toma a tierra de la batería del automóvil. Si lo desconecta, la memoria del ordenador puede borrarse. Para evitar cortocircuitos al realizar las conexiones, desconecte el cable de suministro de alimentación de +12 V hasta conectar todos los cables.

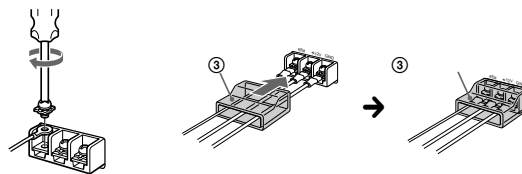
### Power Connection Wires (not supplied) Cables de conexión de alimentación (no suministrados)



\* If you have the factory original or some other car audio unit without a remote output for the amplifier.

\* Si dispone del sistema de audio para automóvil original de fábrica o de otro sistema de audio para automóvil sin una salida remota para el amplificador, conecte el terminal de entrada remota (REMOTE) a la fuente de alimentación auxiliar.

### Make the terminal connections as illustrated below. Realice las conexiones de terminal como se ilustra a continuación.



Pass the wires through the cap, connect the wires, then cover the terminals with the cap.

Pase los cables a través de la cubierta, conéctelos y cubra los terminales con dicha cubierta.

**Note**  
When you tighten the screw, be careful not to apply too much torque \* as doing so may damage the screw.

**Nota**  
Al apretar el tornillo, tenga cuidado de no aplicar demasiada fuerza de torsión \*, ya que puede dañarlo.

\* The torque value should be less than 1 N·m.

\* El valor de fuerza de torsión debe ser inferior a 1 N·m.

### Notes on the power supply

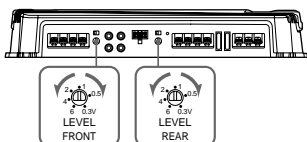
- Connect the +12 V power supply wire only after all the other wires have been connected.
- Be sure to connect the ground wire of the unit securely to a metal point of the car. A loose connection may cause a malfunction of the amplifier.
- Be sure to connect the remote control wire of the car audio unit to the remote terminal.
- When using a car audio unit without a remote output on the amplifier, connect the remote input terminal (REMOTE) to the accessory power supply.
- Use the power supply wire with a fuse attached (50 A).
- All power wires connected to the positive battery post should be fused within 450 mm of the battery post, and before they pass through any metal.
- Make sure that the wires to be connected to the +12 V and GND terminals of this unit are at least 10-Gauge (AWG-10) or have a sectional area of more than 5.5 mm<sup>2</sup>.

### Notas sobre la fuente de alimentación

- Conecte el cable de suministro de alimentación de +12 V sólo después de haber conectado los otros cables.
- Asegúrese de conectar firmemente el cable de toma a tierra de la unidad a un punto metálico del automóvil. Una conexión floja puede causar fallos de funcionamiento del amplificador.
- Asegúrese de conectar el cable de control remoto del sistema de audio para automóvil al terminal remoto.
- Si utiliza un sistema de audio para automóvil sin una salida remota en el amplificador, conecte el terminal de entrada remota (REMOTE) a la fuente de alimentación auxiliar.
- Emplee el cable de suministro de alimentación con un fusible fijado (50 A).
- Todos los cables de alimentación conectados al polo positivo de la batería deben conectarse a un fusible situado a menos de 450 mm del polo de la batería antes de pasar por ninguna pieza metálica.
- Asegúrese que los cables que se van a conectar a los terminales +12 V y GND de esta unidad sean de calibre 10 (AWG-10) como mínimo o tengan una área de sección de más de 5,5 mm<sup>2</sup>.

### Level Adjustment Control

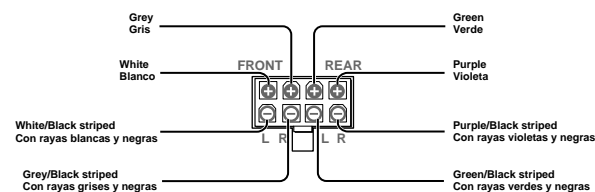
The input level can be adjusted with this control. Turn it in the clockwise direction when the output level of the car audio unit seems low.



### Control de ajuste de nivel

Es posible ajustar el nivel de entrada con este control. Gírelo en el sentido de las agujas del reloj si el nivel de salida del sistema de audio para automóvil parece bajo.

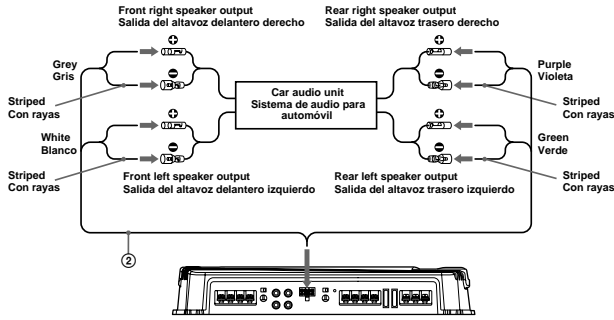
### High Level Input Connector Conector de entrada de alto nivel



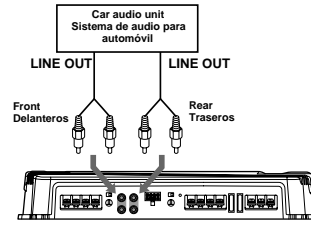
## Input Connections

## Conexiones de entrada

### A High Level Input Connection (with Speaker Connection 1, 2 or 3) Conexión de entrada de alto nivel (con conexión de altavoces 1, 2 o 3)



### B Line Input Connection (with Speaker Connection 1, 2 or 3) Conexión de entrada de línea (con conexión de altavoces 1, 2 o 3)



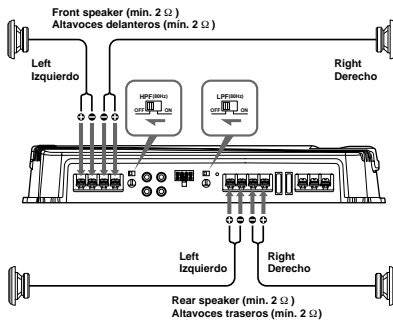
## Speaker Connections

Turn on or off the LPF and HPF switch at the unit rear as illustrated below.

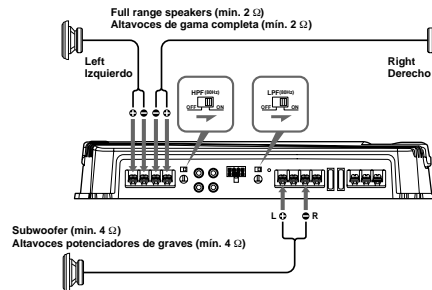
## Conexiones de los altavoces

Encienda o apague los interruptores LPF (filtro de paso bajo) y HPF (filtro de paso alto) situados en la parte posterior de la unidad, como se muestra a continuación.

### 1 4-Speaker System (with Input Connection A or B) Sistema de 4 altavoces (con conexión de entrada A o B)



### 2 3-Speaker System (with Input Connection A or B) Sistema de 3 altavoces (con conexión de entrada A o B)



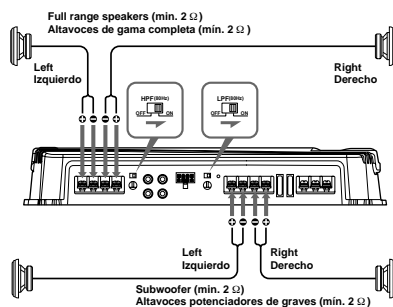
**Notes**

- In this system, the volume of the subwoofer will be controlled by the car audio unit fader control.
- In this system, the output signals to the subwoofer will be the combination of both the REAR L and R INPUT jacks or the REAR high level input connector signals.

**Notas**

- En este sistema, el volumen del altavoz potenciador de graves se controla mediante el control de equilibrio entre altavoces del sistema de audio del automóvil.
- En este sistema, las señales de salida que recibe el altavoz potenciadores de graves serán la combinación de las tomas REAR L y R INPUT o de las señales del conector de entrada de nivel alto REAR.

### 3 2-Way System (with Input Connection A or B) Sistema de 2 vías (con conexión de entrada A o B)



**Note**

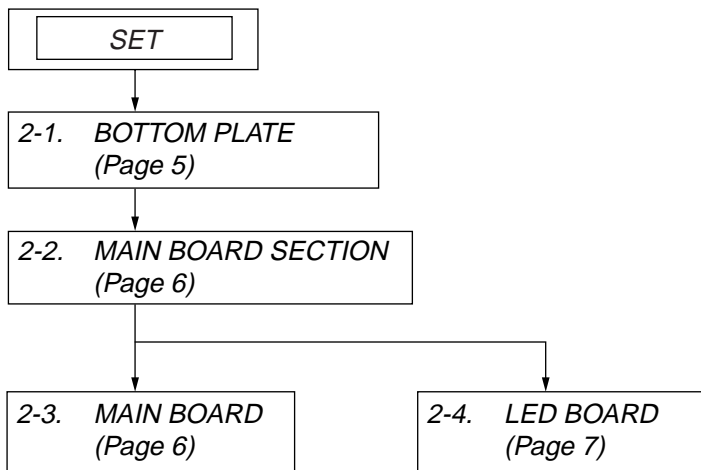
In this system, the volume of the subwoofer will be controlled by the car audio unit fader control.

**Nota**

En este sistema, el volumen de los altavoces potenciador de graves se controla mediante el control de equilibrio entre altavoces del sistema de audio del automóvil.

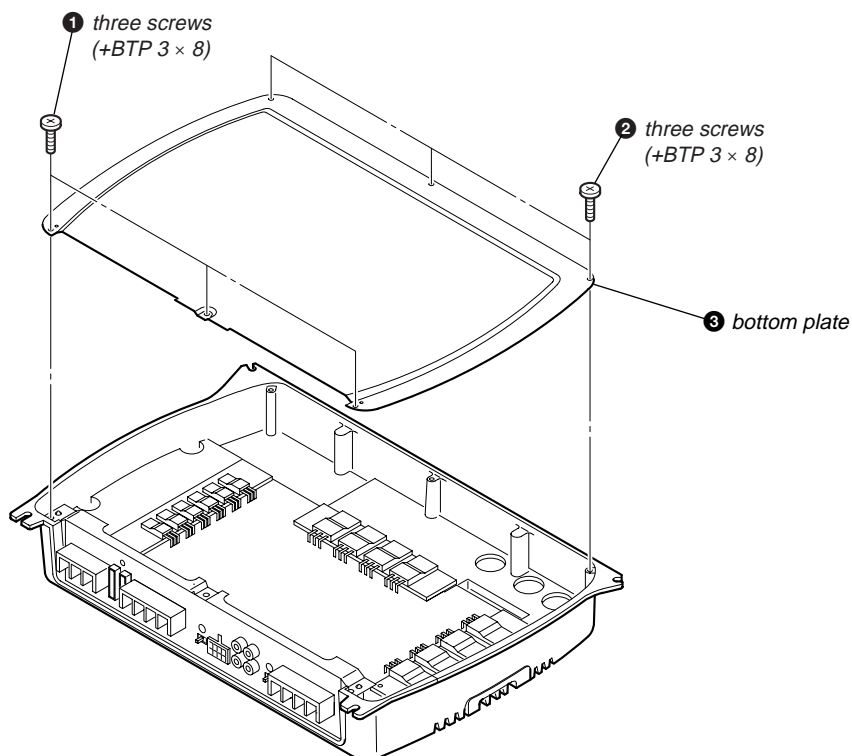
## SECTION 2 DISASSEMBLY

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

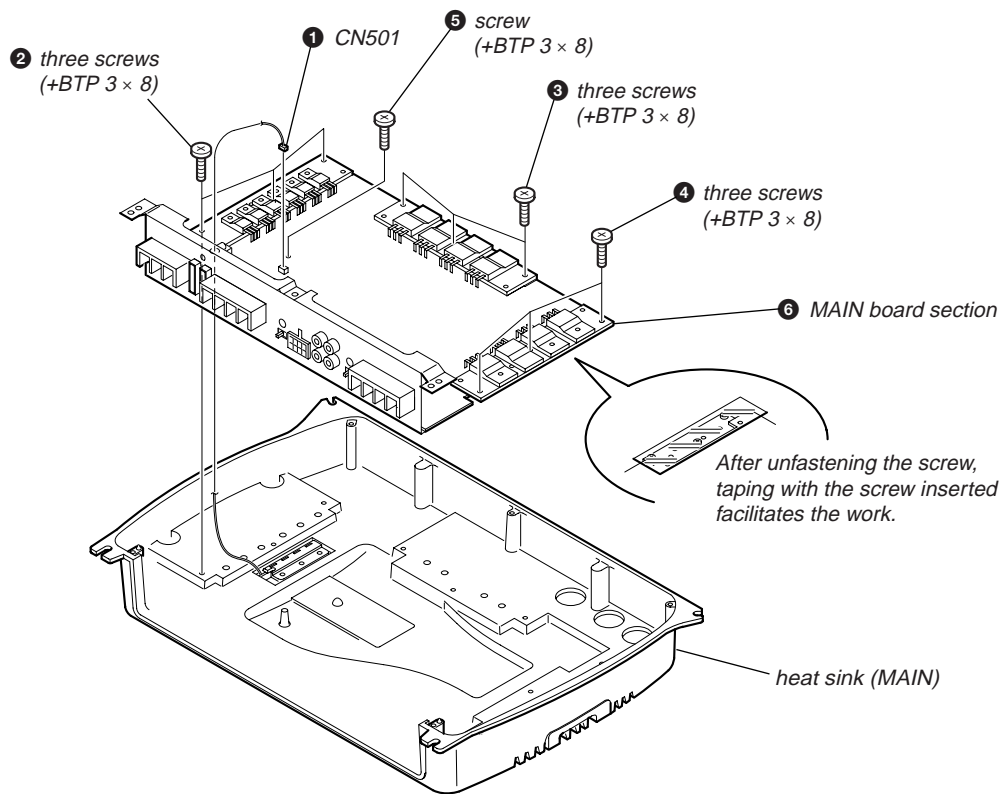


**Note :** Follow the disassembly procedure in the numerical order given.

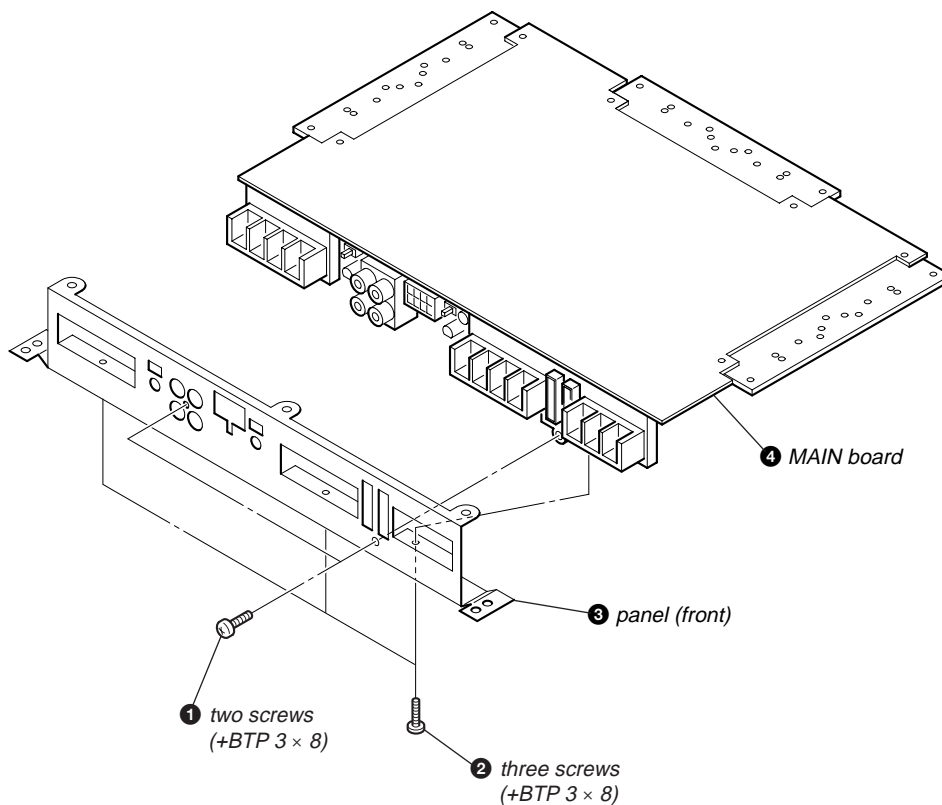
### 2-1. BOTTOM PLATE



## 2-2. MAIN BOARD SECTION

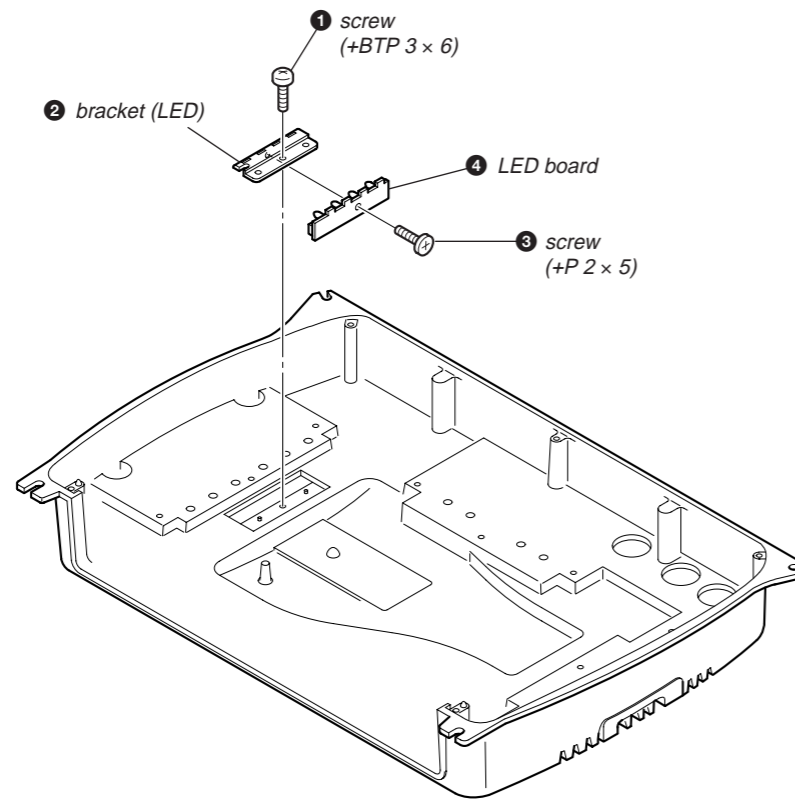


## 2-3. MAIN BOARD



SECTION 3  
DIAGRAMS

2-4. LED BOARD



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

**for schematic diagram:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.

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

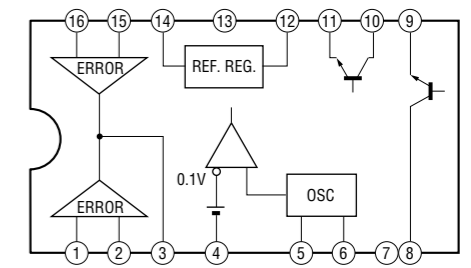
- — : B+ Line.
- - - - : B- Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from +12V and REM terminals.
- Voltage is dc with respect to ground under no-signal condition.
- Voltages are taken with a VOM (Input impedance  $10\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- $\Rightarrow$  : AUDIO

**for printed wiring boards:**

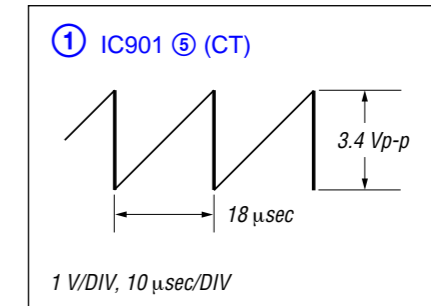
- : Pattern from the side which enables seeing.

• IC Block Diagram

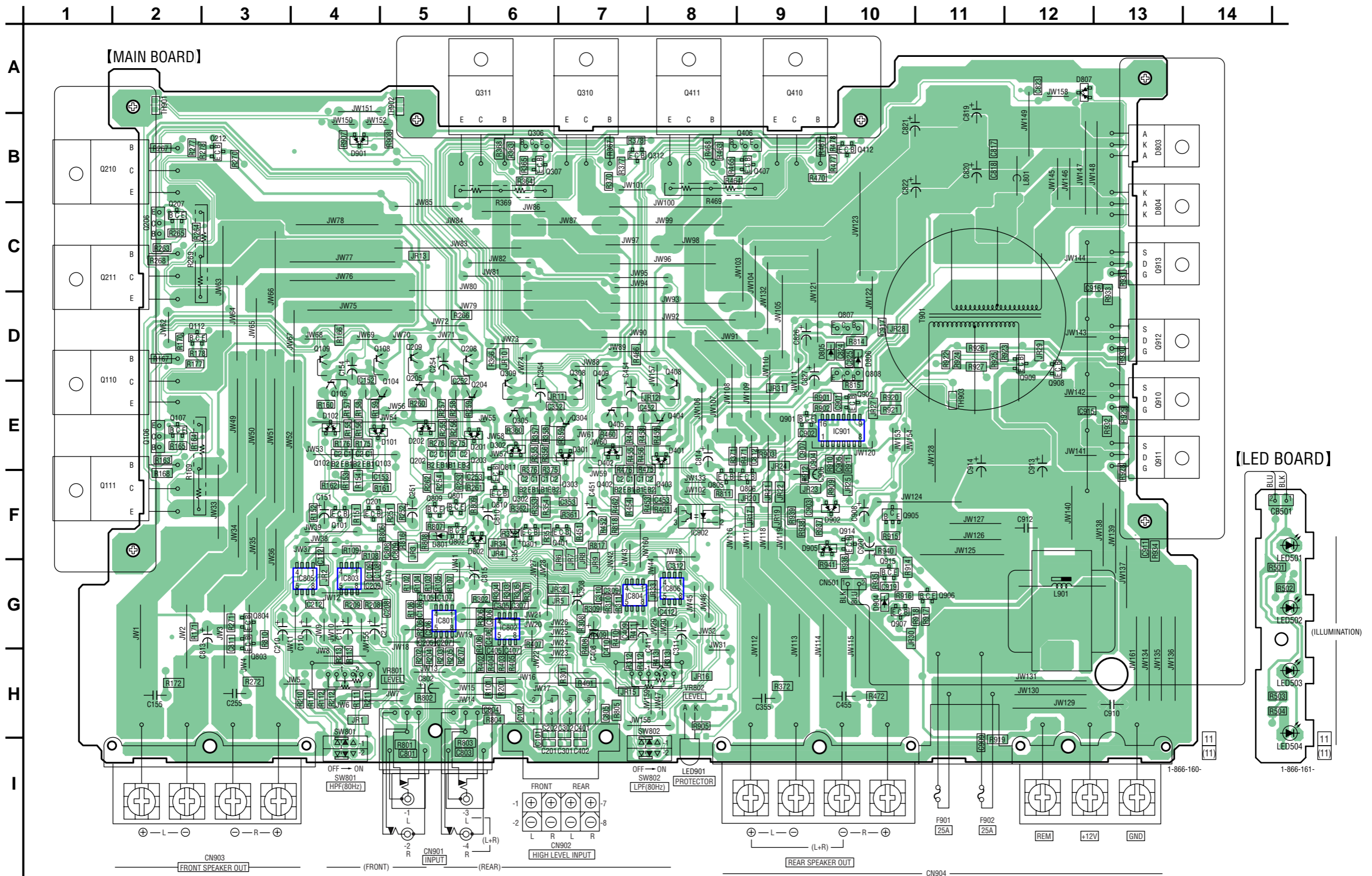
IC901  $\mu\text{PC494GS}$



• Waveform



3-1. PRINTED WIRING BOARD

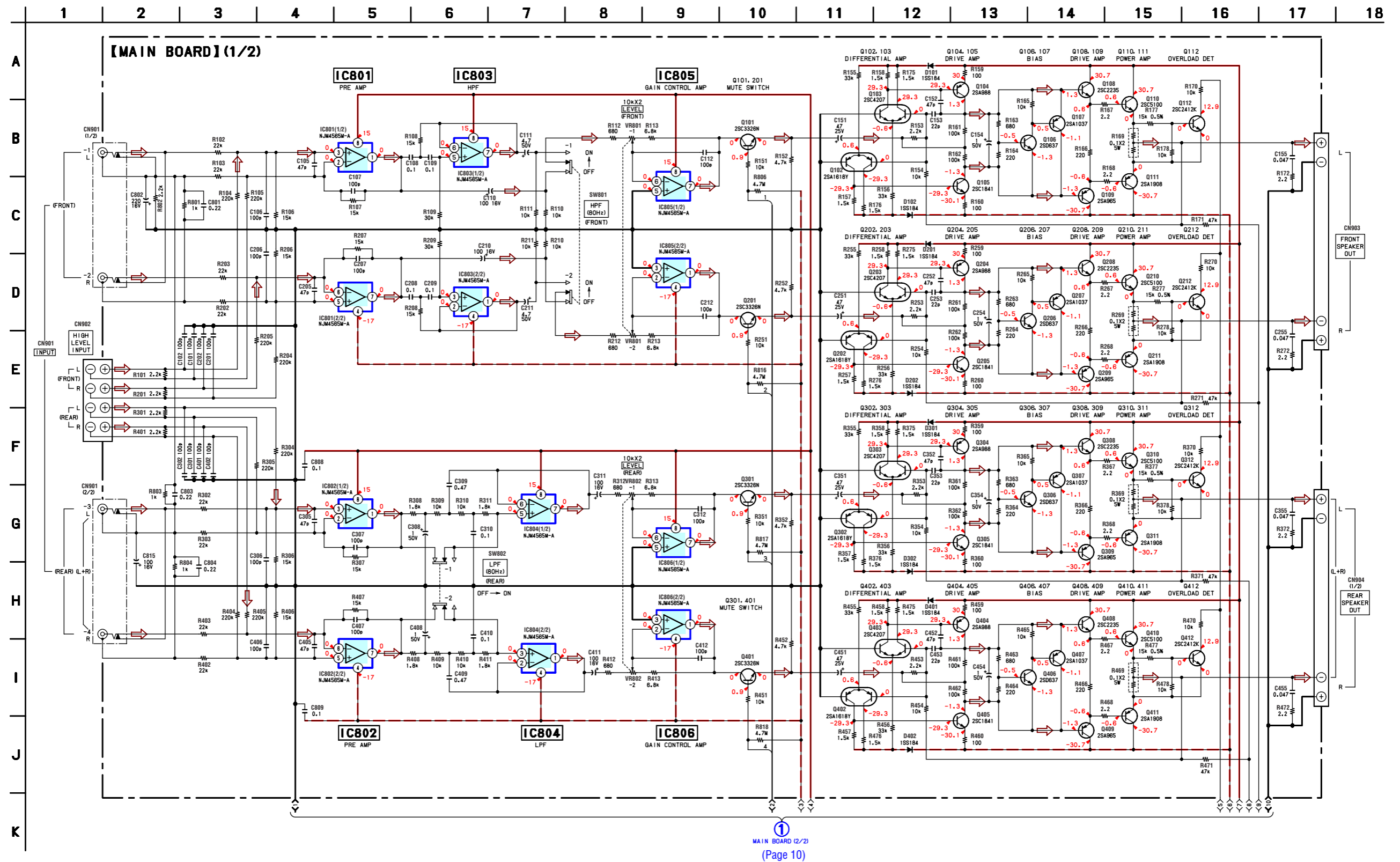


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location		
D101	E-5	D804	C-13	IC803	G-4	LED901	I-8	Q110	E-1	Q209	D-5	Q308	E-7	Q407	B-9	Q806	F-9	Q908	D-12
D102	E-4	D805	D-10	IC804	G-7			Q111	F-1	Q210	B-1	Q309	E-6	Q408	E-8	Q807	D-10	Q909	D-12
D201	E-6	D806	D-10	IC805	G-4	Q101	F-4	Q112	D-2	Q211	C-1	Q310	A-7	Q409	E-7	Q808	D-10	Q910	E-13
D202	E-5	D807	A-12	IC806	G-8	Q102	E-4	Q201	F-4	Q212	B-3	Q311	A-6	Q410	A-9	Q809	F-5	Q911	E-13
D301	E-7	D901	B-4	IC901	E-10	Q103	E-4	Q202	E-5	Q301	F-6	Q312	B-7	Q411	A-8	Q810	F-6	Q912	D-13
D302	E-6	D902	F-10	IC902	F-8	Q104	E-4	Q203	E-5	Q302	F-6	Q401	F-7	Q412	B-10	Q811	F-6	Q913	C-13
D401	E-8	D904	G-10			Q105	E-4	Q204	E-6	Q303	F-7	Q402	F-7	Q801	F-5	Q901	E-9	Q914	F-10
D402	E-7	D905	F-10	LED501	F-15	Q106	E-2	Q205	E-5	Q304	E-7	Q403	F-8	Q802	F-5	Q902	E-10	Q915	G-10
D801	F-5			LED502	G-15	Q107	E-2	Q206	C-2	Q305	E-6	Q404	E-8	Q803	H-3	Q905	F-10		
D802	F-6	IC801	G-5	LED503	H-15	Q108	D-4	Q207	C-2	Q306	B-6	Q405	E-7	Q804	G-3	Q906	G-11		
D803	B-13	IC802	G-6	LED504	H-15	Q109	D-4	Q208	D-6	Q307	B-6	Q406	B-9	Q805	F-8	Q907	G-10		

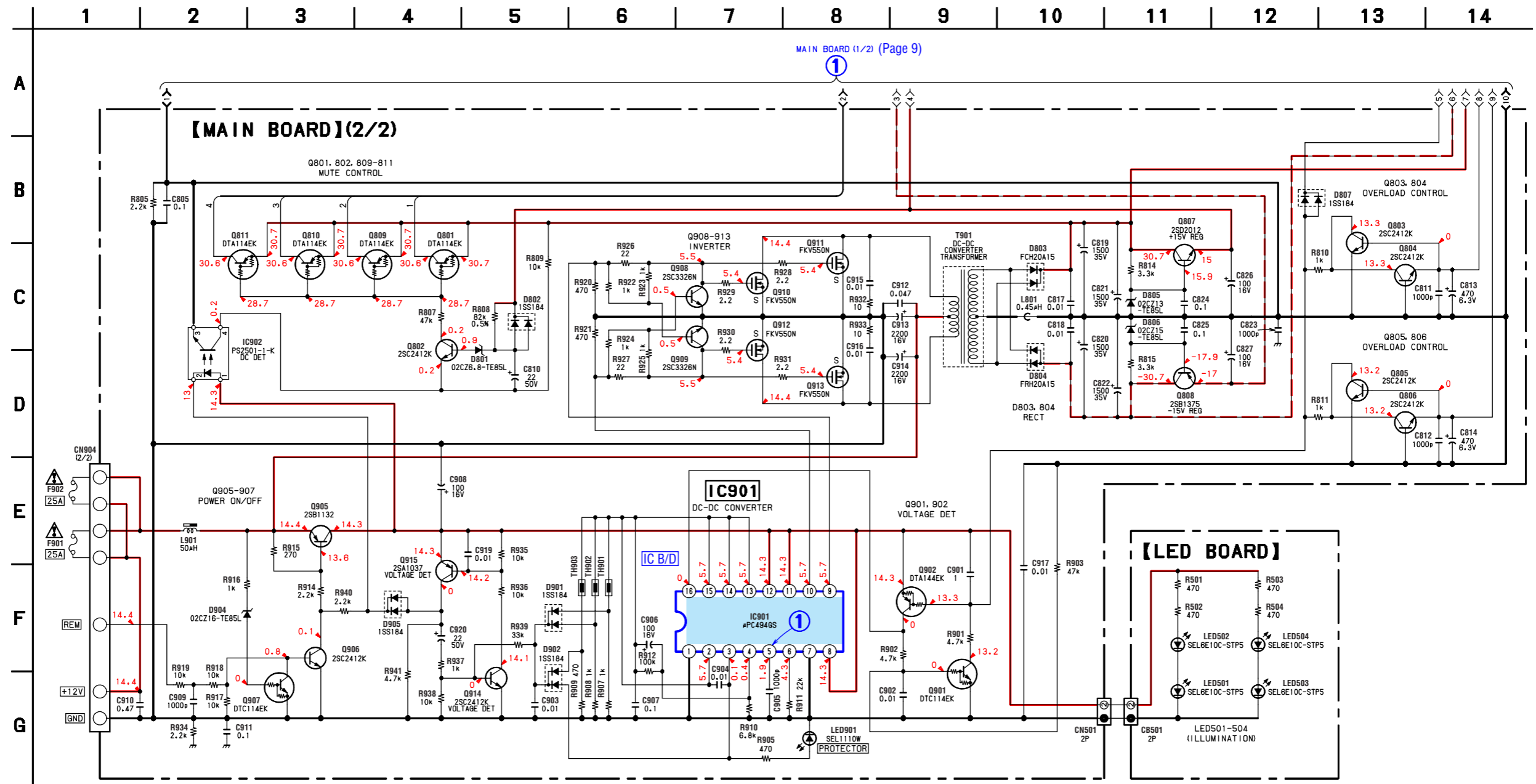


3-2. SCHEMATIC DIAGRAM — AMP SECTION —



①  
MAIN BOARD (2/2)  
(Page 10)

3-3. SCHEMATIC DIAGRAM — POWER SECTION — • Refer to page 7 for IC Block Diagram and Waveform.



**SECTION 4  
EXPLODED VIEWS**

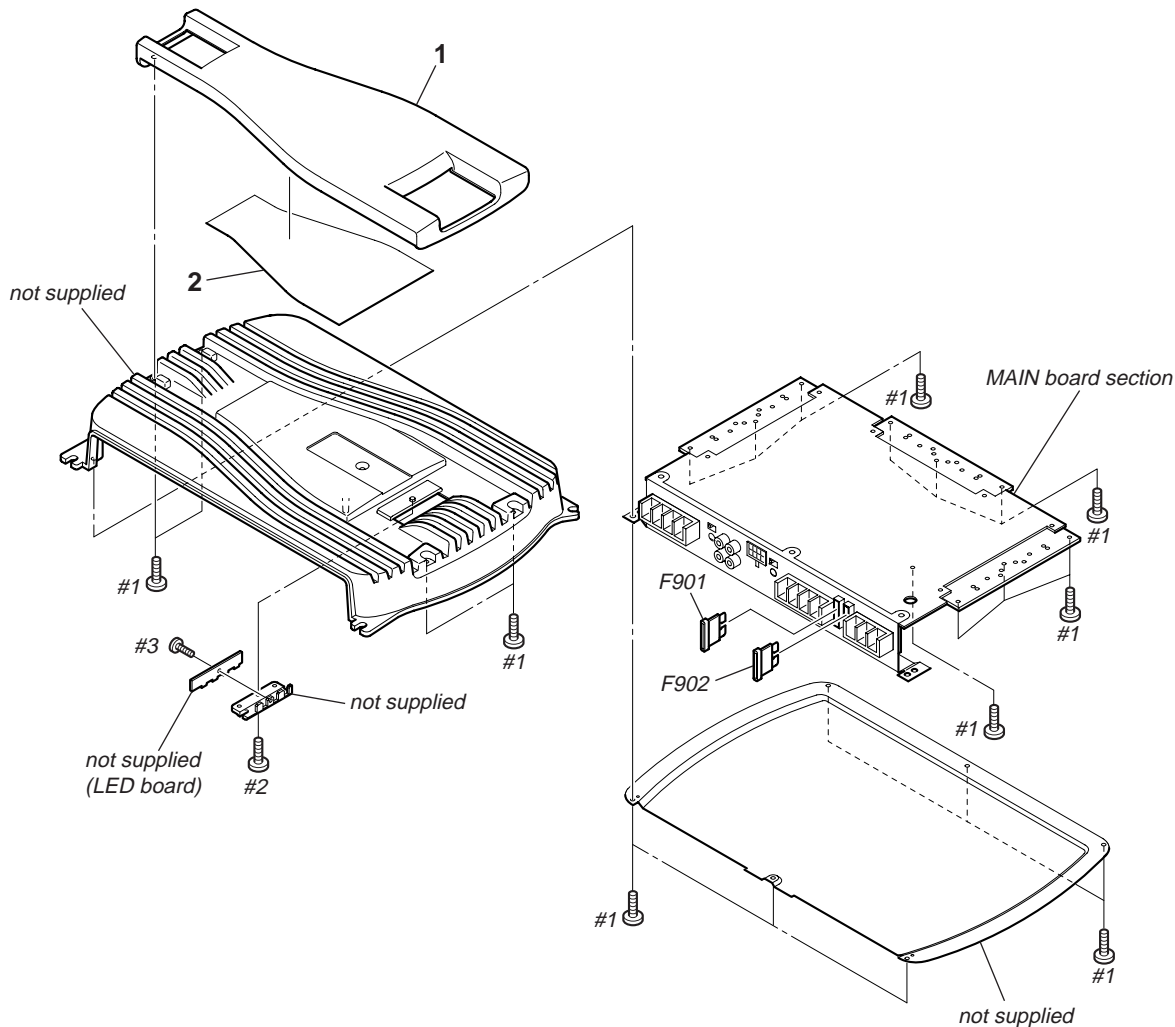
**NOTE:**

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

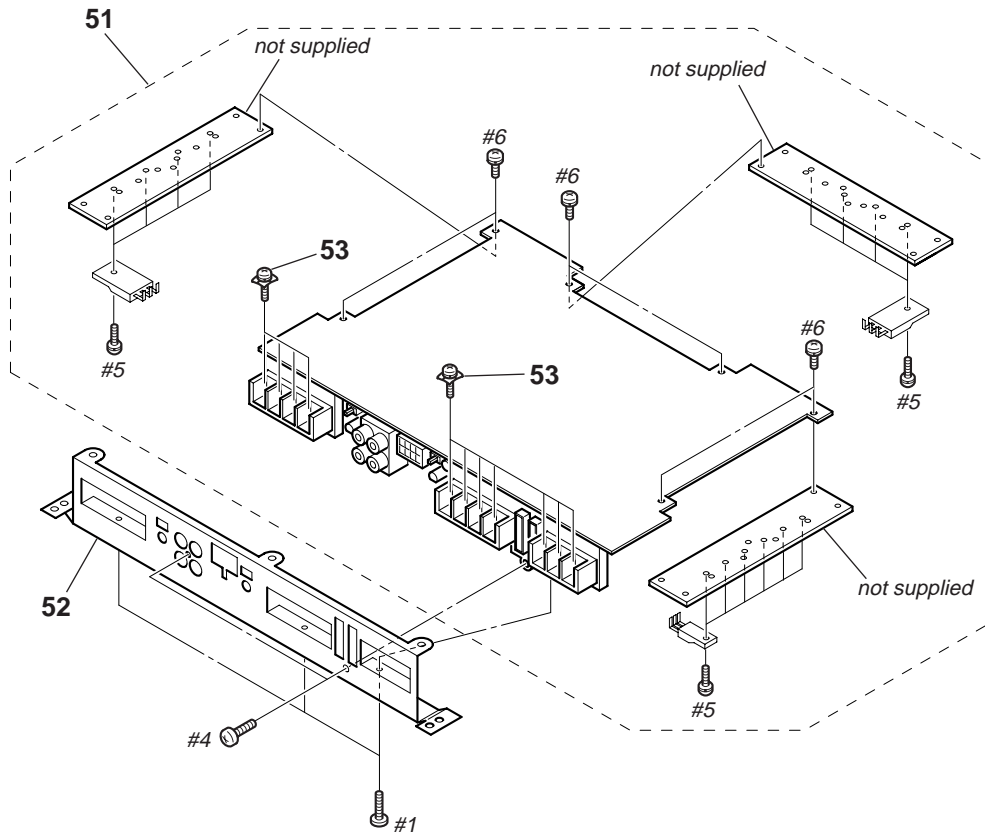
The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

**4-1. HEAT SINK (MAIN) SECTION**



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1	X-2050-301-1	ORNAMENTAL PLATE ASSY		#1	7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S	
2	2-592-199-01	SHEET, ADHESIVE		#2	7-685-545-14	SCREW +BTP 3X6 TYPE2 N-S	
$\triangle$ F901	1-576-256-11	FUSE (BLADE TYPE) (AUTO FUSE) (25A)		#3	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
$\triangle$ F902	1-576-256-11	FUSE (BLADE TYPE) (AUTO FUSE) (25A)					

## 4-2. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	A-1103-496-A	MAIN BOARD, COMPLETE		#4	7-685-646-79	SCREW +P 3X8 TYPE2 NON-SLIT	
52	2-587-545-01	PANEL (FRONT)		#5	7-682-948-01	SCREW +PSW 3X8	
53	3-912-431-01	SCREW (+-P)		#6	7-682-648-09	SCREW +PS 3X8	
#1	7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S					

## SECTION 5 ELECTRICAL PARTS LIST

**LED**   **MAIN**

**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.
- 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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		LED BOARD *****		C208	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
		< DIODE >		C209	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
LED501	6-501-118-01	LED SEL6E10C-STP5 (ILLUMINATION)		C210	1-126-933-11	ELECT 100uF 20%	16V
LED502	6-501-118-01	LED SEL6E10C-STP5 (ILLUMINATION)		C211	1-126-963-11	ELECT 4.7uF 20%	50V
LED503	6-501-118-01	LED SEL6E10C-STP5 (ILLUMINATION)		C212	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
LED504	6-501-118-01	LED SEL6E10C-STP5 (ILLUMINATION)		C251	1-126-947-11	ELECT 47uF 20%	35V
		< RESISTOR >		C252	1-163-243-11	CERAMIC CHIP 47PF 5%	50V
R501	1-216-817-11	METAL CHIP 470 5% 1/10W		C253	1-163-235-11	CERAMIC CHIP 22PF 5%	50V
R502	1-216-817-11	METAL CHIP 470 5% 1/10W		C254	1-126-960-11	ELECT 1uF 20%	50V
R503	1-216-817-11	METAL CHIP 470 5% 1/10W		C255	1-137-374-11	MYLAR 0.047uF 5%	50V
R504	1-216-817-11	METAL CHIP 470 5% 1/10W		C301	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
*****				C302	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
A-1103-496-A		MAIN BOARD, COMPLETE (including LED BOARD) *****		C305	1-163-243-11	CERAMIC CHIP 47PF 5%	50V
3-912-431-01		SCREW (+-P)		C306	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
7-682-648-09		SCREW +PS 3X8		C307	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
7-682-948-01		SCREW +PSW 3X8		C308	1-126-960-11	ELECT 1uF 20%	50V
7-685-646-79		SCREW +P 3X8 TYPE2 NON-SLIT		C309	1-107-823-11	CERAMIC CHIP 0.47uF 10%	16V
		< CAPACITOR >		C310	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C101	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C311	1-126-933-11	ELECT 100uF 20%	16V
C102	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C312	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C105	1-163-243-11	CERAMIC CHIP 47PF 5% 50V		C351	1-126-947-11	ELECT 47uF 20%	35V
C106	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C352	1-163-243-11	CERAMIC CHIP 47PF 5%	50V
C107	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C353	1-163-235-11	CERAMIC CHIP 22PF 5%	50V
C108	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		C354	1-126-960-11	ELECT 1uF 20%	50V
C109	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		C355	1-137-374-11	MYLAR 0.047uF 5%	50V
C110	1-126-933-11	ELECT 100uF 20% 16V		C401	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C111	1-126-963-11	ELECT 4.7uF 20% 50V		C402	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C112	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C405	1-163-243-11	CERAMIC CHIP 47PF 5%	50V
C151	1-126-947-11	ELECT 47uF 20% 35V		C406	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C152	1-163-243-11	CERAMIC CHIP 47PF 5% 50V		C407	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C153	1-163-235-11	CERAMIC CHIP 22PF 5% 50V		C408	1-126-960-11	ELECT 1uF 20%	50V
C154	1-126-960-11	ELECT 1uF 20% 50V		C409	1-107-823-11	CERAMIC CHIP 0.47uF 10%	16V
C155	1-137-374-11	MYLAR 0.047uF 5% 50V		C410	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C201	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C411	1-126-933-11	ELECT 100uF 20%	16V
C202	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C412	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C205	1-163-243-11	CERAMIC CHIP 47PF 5% 50V		C451	1-126-947-11	ELECT 47uF 20%	35V
C206	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C452	1-163-243-11	CERAMIC CHIP 47PF 5%	50V
C207	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		C453	1-163-235-11	CERAMIC CHIP 22PF 5%	50V
				C454	1-126-960-11	ELECT 1uF 20%	50V
				C455	1-137-374-11	MYLAR 0.047uF 5%	50V
				C801	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
				C802	1-126-934-11	ELECT 220uF 20%	16V
				C803	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
				C804	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
				C805	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V

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MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C808	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	D302	8-719-801-78	DIODE 1SS184	
C809	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	D401	8-719-801-78	DIODE 1SS184	
C810	1-126-965-11	ELECT	22uF 20% 50V	D402	8-719-801-78	DIODE 1SS184	
C811	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V	D801	8-719-025-34	DIODE 02CZ6.8-TE85L	
C812	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V	D802	8-719-801-78	DIODE 1SS184	
C813	1-104-655-11	ELECT	470uF 20% 6.3V	D803	8-719-076-60	DIODE FCH20A15	
C814	1-104-655-11	ELECT	470uF 20% 6.3V	D804	8-719-076-61	DIODE FRH20A15	
C815	1-126-933-11	ELECT	100uF 20% 16V	D805	8-719-025-48	DIODE 02CZ13-TE85L	
C817	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	D806	8-719-025-49	DIODE 02CZ15-TE85L	
C818	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	D807	8-719-801-78	DIODE 1SS184	
C819	1-165-949-11	ELECT	1500uF 20% 35V	D901	8-719-801-78	DIODE 1SS184	
C820	1-165-949-11	ELECT	1500uF 20% 35V	D902	8-719-801-78	DIODE 1SS184	
C821	1-165-949-11	ELECT	1500uF 20% 35V	D904	8-719-025-50	DIODE 02CZ16-TE85L	
C822	1-165-949-11	ELECT	1500uF 20% 35V	D905	8-719-801-78	DIODE 1SS184	
C823	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V			< IC >	
C824	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	IC801	8-759-710-28	IC NJM4565M-A	
C825	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	IC802	8-759-710-28	IC NJM4565M-A	
C826	1-126-933-11	ELECT	100uF 20% 16V	IC803	8-759-710-28	IC NJM4565M-A	
C827	1-126-933-11	ELECT	100uF 20% 16V	IC804	8-759-710-28	IC NJM4565M-A	
C901	1-127-573-11	CERAMIC CHIP	1uF 10% 16V	IC805	8-759-710-28	IC NJM4565M-A	
C902	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	IC806	8-759-710-28	IC NJM4565M-A	
C903	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	IC901	8-759-144-88	IC uPC494GS	
C904	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V			< PHOTO COUPLER >	
C905	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V	IC902	8-719-156-72	PHOTO COUPLER PS2501-1-K	
C906	1-126-933-11	ELECT	100uF 20% 16V			< JUMPER RESISTOR >	
C907	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	JR1	1-216-296-11	SHORT CHIP 0	
C908	1-107-882-11	ELECT	100uF 20% 16V	JR2	1-216-296-11	SHORT CHIP 0	
C909	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V	JR3	1-216-864-11	SHORT CHIP 0	
C910	1-137-380-11	MYLAR	0.47uF 5% 50V	JR4	1-216-864-11	SHORT CHIP 0	
C911	1-164-004-11	CERAMIC CHIP	0.1uF 10% 25V	JR5	1-216-296-11	SHORT CHIP 0	
C912	1-137-374-11	MYLAR	0.047uF 5% 50V	JR6	1-216-296-11	SHORT CHIP 0	
C913	1-131-731-11	ELECT	2200uF 20% 16V	JR7	1-216-296-11	SHORT CHIP 0	
C914	1-131-731-11	ELECT	2200uF 20% 16V	JR8	1-216-296-11	SHORT CHIP 0	
C915	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	JR9	1-216-296-11	SHORT CHIP 0	
C916	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	JR10	1-216-296-11	SHORT CHIP 0	
C917	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	JR11	1-216-864-11	SHORT CHIP 0	
C919	1-163-021-11	CERAMIC CHIP	0.01uF 10% 50V	JR12	1-216-864-11	SHORT CHIP 0	
C920	1-126-965-11	ELECT	22uF 20% 50V	JR13	1-216-296-11	SHORT CHIP 0	
		< CONNECTOR >		JR15	1-216-296-11	SHORT CHIP 0	
CN501	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P		JR16	1-216-296-11	SHORT CHIP 0	
CN902	1-580-283-11	PIN, CONNECTOR (PC BOARD) 8P (HIGH LEVEL INPUT (FRONT/REAR))		JR17	1-216-296-11	SHORT CHIP 0	
		< JACK >		JR19	1-216-296-11	SHORT CHIP 0	
CN901	1-779-078-21	JACK, PIN 4P (INPUT (FRONT/REAR))		JR20	1-216-296-11	SHORT CHIP 0	
		< TERMINAL BOARD >		JR21	1-216-296-11	SHORT CHIP 0	
CN903	1-780-132-11	TERMINAL BOARD (FRONT SPEAKER OUT)		JR22	1-216-296-11	SHORT CHIP 0	
CN904	1-780-134-11	TERMINAL BOARD (4P+3P+2FUSE) (REAR SPEAKER OUT,REM,+12V,GND,25A,25A)		JR23	1-216-296-11	SHORT CHIP 0	
		< DIODE >		JR24	1-216-296-11	SHORT CHIP 0	
D101	8-719-801-78	DIODE 1SS184		JR25	1-216-296-11	SHORT CHIP 0	
D102	8-719-801-78	DIODE 1SS184		JR27	1-216-296-11	SHORT CHIP 0	
D201	8-719-801-78	DIODE 1SS184		JR28	1-216-296-11	SHORT CHIP 0	
D202	8-719-801-78	DIODE 1SS184		JR29	1-216-296-11	SHORT CHIP 0	
D301	8-719-801-78	DIODE 1SS184		JR30	1-216-296-11	SHORT CHIP 0	
				JR31	1-216-296-11	SHORT CHIP 0	
				JR32	1-216-296-11	SHORT CHIP 0	
				JR33	1-216-296-11	SHORT CHIP 0	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
JR34	1-216-864-11	SHORT CHIP	0	Q412	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< COIL >		Q801	8-729-901-04	TRANSISTOR DTA114EK	
L801	1-410-396-41	FERRITE	0.45uH	Q802	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L901	1-411-756-11	INDUCTOR	50uH	Q803	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< DIODE >		Q804	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
LED901	6-501-217-01	LED SEL1110W (PROTECTOR)		Q805	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< TRANSISTOR >		Q806	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q101	8-729-202-38	TRANSISTOR 2SC3326N-A		Q807	8-729-209-15	TRANSISTOR 2SD2012	
Q102	8-729-232-66	TRANSISTOR 2SA1618Y		Q808	8-729-209-60	TRANSISTOR 2SB1375	
Q103	8-729-014-86	TRANSISTOR 2SC4207-YGRTE85L		Q809	8-729-901-04	TRANSISTOR DTA114EK	
Q104	8-729-140-82	TRANSISTOR 2SA988-PAFAEA		Q810	8-729-901-04	TRANSISTOR DTA114EK	
Q105	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		Q811	8-729-901-04	TRANSISTOR DTA114EK	
Q106	8-729-902-11	TRANSISTOR 2SC2021-Q		Q901	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q107	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		Q902	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q108	8-729-020-80	TRANSISTOR 2SC2235-O/Y(TPE6)		Q905	8-729-903-46	TRANSISTOR 2SB1132-P	
Q109	8-729-232-32	TRANSISTOR 2SA965		Q906	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q110	8-729-024-79	TRANSISTOR 2SC5100-P		Q907	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q111	8-729-024-76	TRANSISTOR 2SA1908-P		Q908	8-729-202-38	TRANSISTOR 2SC3326N-A	
Q112	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q909	8-729-202-38	TRANSISTOR 2SC3326N-A	
Q201	8-729-202-38	TRANSISTOR 2SC3326N-A		Q910	6-550-341-01	FET FKV550N	
Q202	8-729-232-66	TRANSISTOR 2SA1618Y		Q911	6-550-341-01	FET FKV550N	
Q203	8-729-014-86	TRANSISTOR 2SC4207-YGRTE85L		Q912	6-550-341-01	FET FKV550N	
Q204	8-729-140-82	TRANSISTOR 2SA988-PAFAEA		Q913	6-550-341-01	FET FKV550N	
Q205	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		Q914	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q206	8-729-902-11	TRANSISTOR 2SC2021-Q		Q915	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q207	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR				< RESISTOR >	
Q208	8-729-020-80	TRANSISTOR 2SC2235-O/Y(TPE6)		R101	1-216-206-00	RES-CHIP 2.2K 5%	1/8W
Q209	8-729-232-32	TRANSISTOR 2SA965		R102	1-216-081-00	RES-CHIP 22K 5%	1/10W
Q210	8-729-024-79	TRANSISTOR 2SC5100-P		R103	1-216-081-00	RES-CHIP 22K 5%	1/10W
Q211	8-729-024-76	TRANSISTOR 2SA1908-P		R104	1-216-849-11	METAL CHIP 220K 5%	1/10W
Q212	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R105	1-216-849-11	METAL CHIP 220K 5%	1/10W
Q301	8-729-202-38	TRANSISTOR 2SC3326N-A		R106	1-216-077-11	RES-CHIP 15K 5%	1/10W
Q302	8-729-232-66	TRANSISTOR 2SA1618Y		R107	1-216-077-11	RES-CHIP 15K 5%	1/10W
Q303	8-729-014-86	TRANSISTOR 2SC4207-YGRTE85L		R108	1-216-077-11	RES-CHIP 15K 5%	1/10W
Q304	8-729-140-82	TRANSISTOR 2SA988-PAFAEA		R109	1-216-084-00	RES-CHIP 30K 5%	1/10W
Q305	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R110	1-216-073-00	RES-CHIP 10K 5%	1/10W
Q306	8-729-902-11	TRANSISTOR 2SC2021-Q		R111	1-216-073-00	RES-CHIP 10K 5%	1/10W
Q307	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R112	1-216-045-00	RES-CHIP 680 5%	1/10W
Q308	8-729-020-80	TRANSISTOR 2SC2235-O/Y(TPE6)		R113	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
Q309	8-729-232-32	TRANSISTOR 2SA965		R151	1-216-222-00	RES-CHIP 10K 5%	1/8W
Q310	8-729-024-79	TRANSISTOR 2SC5100-P		R152	1-216-065-11	RES-CHIP 4.7K 5%	1/10W
Q311	8-729-024-76	TRANSISTOR 2SA1908-P		R153	1-216-057-00	RES-CHIP 2.2K 5%	1/10W
Q312	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R154	1-216-222-00	RES-CHIP 10K 5%	1/8W
Q401	8-729-202-38	TRANSISTOR 2SC3326N-A		R155	1-216-085-11	RES-CHIP 33K 5%	1/10W
Q402	8-729-232-66	TRANSISTOR 2SA1618Y		R156	1-216-085-11	RES-CHIP 33K 5%	1/10W
Q403	8-729-014-86	TRANSISTOR 2SC4207-YGRTE85L		R157	1-216-053-00	RES-CHIP 1.5K 5%	1/10W
Q404	8-729-140-82	TRANSISTOR 2SA988-PAFAEA		R158	1-216-053-00	RES-CHIP 1.5K 5%	1/10W
Q405	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R159	1-216-025-11	RES-CHIP 100 5%	1/10W
Q406	8-729-902-11	TRANSISTOR 2SC2021-Q		R160	1-216-025-11	RES-CHIP 100 5%	1/10W
Q407	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR		R161	1-216-097-11	RES-CHIP 100K 5%	1/10W
Q408	8-729-020-80	TRANSISTOR 2SC2235-O/Y(TPE6)		R162	1-216-097-11	RES-CHIP 100K 5%	1/10W
Q409	8-729-232-32	TRANSISTOR 2SA965		R163	1-216-045-00	RES-CHIP 680 5%	1/10W
Q410	8-729-024-79	TRANSISTOR 2SC5100-P		R164	1-216-033-00	RES-CHIP 220 5%	1/10W
Q411	8-729-024-76	TRANSISTOR 2SA1908-P		R165	1-216-073-00	RES-CHIP 10K 5%	1/10W
				R166	1-216-182-00	RES-CHIP 220 5%	1/8W
				R167	1-216-134-00	RES-CHIP 2.2 5%	1/8W
				R168	1-216-134-00	RES-CHIP 2.2 5%	1/8W

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**MAIN**

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R169	1-205-991-11	METAL	0.1X2	10%	5W F	R312	1-216-045-00	RES-CHIP	680	5%	1/10W
R170	1-216-073-00	RES-CHIP	10K	5%	1/10W	R313	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R171	1-216-089-11	RES-CHIP	47K	5%	1/10W	R351	1-216-222-00	RES-CHIP	10K	5%	1/8W
R172	1-216-134-00	RES-CHIP	2.2	5%	1/8W	R352	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R175	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R353	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R176	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R354	1-216-222-00	RES-CHIP	10K	5%	1/8W
R177	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	R355	1-216-085-11	RES-CHIP	33K	5%	1/10W
R178	1-216-833-11	METAL CHIP	10K	5%	1/10W	R356	1-216-085-11	RES-CHIP	33K	5%	1/10W
R201	1-216-206-00	RES-CHIP	2.2K	5%	1/8W	R357	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R202	1-216-081-00	RES-CHIP	22K	5%	1/10W	R358	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R203	1-216-081-00	RES-CHIP	22K	5%	1/10W	R359	1-216-025-11	RES-CHIP	100	5%	1/10W
R204	1-216-849-11	METAL CHIP	220K	5%	1/10W	R360	1-216-025-11	RES-CHIP	100	5%	1/10W
R205	1-216-849-11	METAL CHIP	220K	5%	1/10W	R361	1-216-097-11	RES-CHIP	100K	5%	1/10W
R206	1-216-077-11	RES-CHIP	15K	5%	1/10W	R362	1-216-097-11	RES-CHIP	100K	5%	1/10W
R207	1-216-077-11	RES-CHIP	15K	5%	1/10W	R363	1-216-045-00	RES-CHIP	680	5%	1/10W
R208	1-216-077-11	RES-CHIP	15K	5%	1/10W	R364	1-216-033-00	RES-CHIP	220	5%	1/10W
R209	1-216-084-00	RES-CHIP	30K	5%	1/10W	R365	1-216-073-00	RES-CHIP	10K	5%	1/10W
R210	1-216-073-00	RES-CHIP	10K	5%	1/10W	R366	1-216-182-00	RES-CHIP	220	5%	1/8W
R211	1-216-073-00	RES-CHIP	10K	5%	1/10W	R367	1-216-134-00	RES-CHIP	2.2	5%	1/8W
R212	1-216-045-00	RES-CHIP	680	5%	1/10W	R368	1-216-134-00	RES-CHIP	2.2	5%	1/8W
R213	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R369	1-205-991-11	METAL	0.1X2	10%	5W F
R251	1-216-222-00	RES-CHIP	10K	5%	1/8W	R370	1-216-073-00	RES-CHIP	10K	5%	1/10W
R252	1-216-065-11	RES-CHIP	4.7K	5%	1/10W	R371	1-216-089-11	RES-CHIP	47K	5%	1/10W
R253	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R372	1-216-134-00	RES-CHIP	2.2	5%	1/8W
R254	1-216-222-00	RES-CHIP	10K	5%	1/8W	R375	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R255	1-216-085-11	RES-CHIP	33K	5%	1/10W	R376	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R256	1-216-085-11	RES-CHIP	33K	5%	1/10W	R377	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R257	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R378	1-216-833-11	METAL CHIP	10K	5%	1/10W
R258	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R401	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R259	1-216-025-11	RES-CHIP	100	5%	1/10W	R402	1-216-081-00	RES-CHIP	22K	5%	1/10W
R260	1-216-025-11	RES-CHIP	100	5%	1/10W	R403	1-216-081-00	RES-CHIP	22K	5%	1/10W
R261	1-216-097-11	RES-CHIP	100K	5%	1/10W	R404	1-216-849-11	METAL CHIP	220K	5%	1/10W
R262	1-216-097-11	RES-CHIP	100K	5%	1/10W	R405	1-216-849-11	METAL CHIP	220K	5%	1/10W
R263	1-216-045-00	RES-CHIP	680	5%	1/10W	R406	1-216-077-11	RES-CHIP	15K	5%	1/10W
R264	1-216-033-00	RES-CHIP	220	5%	1/10W	R407	1-216-077-11	RES-CHIP	15K	5%	1/10W
R265	1-216-073-00	RES-CHIP	10K	5%	1/10W	R408	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R266	1-216-182-00	RES-CHIP	220	5%	1/8W	R409	1-216-833-11	METAL CHIP	10K	5%	1/10W
R267	1-216-134-00	RES-CHIP	2.2	5%	1/8W	R410	1-216-073-00	RES-CHIP	10K	5%	1/10W
R268	1-216-134-00	RES-CHIP	2.2	5%	1/8W	R411	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R269	1-205-991-11	METAL	0.1X2	10%	5W F	R412	1-216-045-00	RES-CHIP	680	5%	1/10W
R270	1-216-073-00	RES-CHIP	10K	5%	1/10W	R413	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R271	1-216-089-11	RES-CHIP	47K	5%	1/10W	R451	1-216-222-00	RES-CHIP	10K	5%	1/8W
R272	1-216-134-00	RES-CHIP	2.2	5%	1/8W	R452	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R275	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R453	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R276	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R454	1-216-222-00	RES-CHIP	10K	5%	1/8W
R277	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	R455	1-216-085-11	RES-CHIP	33K	5%	1/10W
R278	1-216-833-11	METAL CHIP	10K	5%	1/10W	R456	1-216-085-11	RES-CHIP	33K	5%	1/10W
R301	1-216-206-00	RES-CHIP	2.2K	5%	1/8W	R457	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R302	1-216-081-00	RES-CHIP	22K	5%	1/10W	R458	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R303	1-216-081-00	RES-CHIP	22K	5%	1/10W	R459	1-216-025-11	RES-CHIP	100	5%	1/10W
R304	1-216-849-11	METAL CHIP	220K	5%	1/10W	R460	1-216-025-11	RES-CHIP	100	5%	1/10W
R305	1-216-849-11	METAL CHIP	220K	5%	1/10W	R461	1-216-097-11	RES-CHIP	100K	5%	1/10W
R306	1-216-077-11	RES-CHIP	15K	5%	1/10W	R462	1-216-097-11	RES-CHIP	100K	5%	1/10W
R307	1-216-077-11	RES-CHIP	15K	5%	1/10W	R463	1-216-045-00	RES-CHIP	680	5%	1/10W
R308	1-216-055-00	RES-CHIP	1.8K	5%	1/10W	R464	1-216-033-00	RES-CHIP	220	5%	1/10W
R309	1-216-833-11	METAL CHIP	10K	5%	1/10W	R465	1-216-073-00	RES-CHIP	10K	5%	1/10W
R310	1-216-073-00	RES-CHIP	10K	5%	1/10W	R466	1-216-182-00	RES-CHIP	220	5%	1/8W
R311	1-216-055-00	RES-CHIP	1.8K	5%	1/10W	R467	1-216-134-00	RES-CHIP	2.2	5%	1/8W



Ref. No.	Part No.	Description			Remark
R468	1-216-134-00	RES-CHIP	2.2	5%	1/8W
R469	1-205-991-11	METAL	0.1X2	10%	5W F
R470	1-216-073-00	RES-CHIP	10K	5%	1/10W
R471	1-216-089-11	RES-CHIP	47K	5%	1/10W
R472	1-216-134-00	RES-CHIP	2.2	5%	1/8W
R475	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R476	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R477	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R478	1-216-833-11	METAL CHIP	10K	5%	1/10W
R801	1-216-198-11	RES-CHIP	1K	5%	1/8W
R802	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R803	1-216-198-11	RES-CHIP	1K	5%	1/8W
R804	1-216-198-11	RES-CHIP	1K	5%	1/8W
R805	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R806	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R807	1-216-089-11	RES-CHIP	47K	5%	1/10W
R808	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R809	1-216-222-00	RES-CHIP	10K	5%	1/8W
R810	1-216-049-11	RES-CHIP	1K	5%	1/10W
R811	1-216-049-11	RES-CHIP	1K	5%	1/10W
R814	1-216-210-00	RES-CHIP	3.3K	5%	1/8W
R815	1-216-210-00	RES-CHIP	3.3K	5%	1/8W
R816	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R817	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R818	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R901	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R902	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R903	1-216-089-11	RES-CHIP	47K	5%	1/10W
R905	1-216-041-00	RES-CHIP	470	5%	1/10W
R907	1-216-049-11	RES-CHIP	1K	5%	1/10W
R908	1-216-049-11	RES-CHIP	1K	5%	1/10W
R909	1-216-041-00	RES-CHIP	470	5%	1/10W
R910	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R911	1-216-081-00	RES-CHIP	22K	5%	1/10W
R912	1-216-097-11	RES-CHIP	100K	5%	1/10W
R914	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R915	1-216-035-00	RES-CHIP	270	5%	1/10W
R916	1-216-049-11	RES-CHIP	1K	5%	1/10W
R917	1-216-073-00	RES-CHIP	10K	5%	1/10W
R918	1-216-073-00	RES-CHIP	10K	5%	1/10W
R919	1-216-222-00	RES-CHIP	10K	5%	1/8W
R920	1-216-190-00	RES-CHIP	470	5%	1/8W
R921	1-216-190-00	RES-CHIP	470	5%	1/8W
R922	1-216-049-11	RES-CHIP	1K	5%	1/10W
R923	1-216-049-11	RES-CHIP	1K	5%	1/10W
R924	1-216-049-11	RES-CHIP	1K	5%	1/10W
R925	1-216-049-11	RES-CHIP	1K	5%	1/10W
R926	1-216-158-00	RES-CHIP	22	5%	1/8W
R927	1-216-158-00	RES-CHIP	22	5%	1/8W
R928	1-216-134-00	RES-CHIP	2.2	5%	1/8W
R929	1-216-134-00	RES-CHIP	2.2	5%	1/8W
R930	1-216-134-00	RES-CHIP	2.2	5%	1/8W
R931	1-216-134-00	RES-CHIP	2.2	5%	1/8W
R932	1-216-150-11	RES-CHIP	10	5%	1/8W
R933	1-216-150-11	RES-CHIP	10	5%	1/8W
R934	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R935	1-216-073-00	RES-CHIP	10K	5%	1/10W
R936	1-216-073-00	RES-CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R937	1-216-049-11	RES-CHIP	1K	5%	1/10W
R938	1-216-073-00	RES-CHIP	10K	5%	1/10W
R939	1-216-085-11	RES-CHIP	33K	5%	1/10W
R940	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R941	1-216-065-11	RES-CHIP	4.7K	5%	1/10W

< SWITCH >

SW801	1-571-478-11	SWITCH, SLIDE (HPF(80Hz) (FRONT))
SW802	1-571-478-11	SWITCH, SLIDE (LPF(80Hz) (REAR))

< TRANSFORMER >

T901	1-443-277-11	TRANSFORMER, DC-DC CONVERTER
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< THERMISTOR >

TH901	1-810-506-11	THERMISTOR NTH5G39B223K01
TH902	1-810-506-11	THERMISTOR NTH5G39B223K01
TH903	1-810-506-11	THERMISTOR NTH5G39B223K01

< VARIABLE RESISTOR >

VR801	1-225-459-11	RES, VAR, CARBON 10KX2 (LEVEL (FRONT))
VR802	1-225-459-11	RES, VAR, CARBON 10KX2 (LEVEL (REAR))

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MISCELLANEOUS

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△F901	1-576-256-11	FUSE (BLADE TYPE) (AUTO FUSE) (25A)
△F902	1-576-256-11	FUSE (BLADE TYPE) (AUTO FUSE) (25A)

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ACCESSORIES

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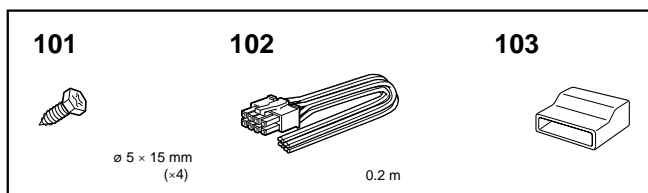
2-586-737-11	MANUAL, INSTRUCTION (ENGLISH,SPANISH)
2-586-737-21	MANUAL, INSTRUCTION (GERMAN,FRENCH, ITALIAN)
2-586-737-31	MANUAL, INSTRUCTION (DUTCH,RUSSIAN, SWEDISH)
2-586-737-41	MANUAL, INSTRUCTION (GREEK,POLISH, PORTUGUESE)

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PARTS FOR INSTALLATION AND CONNECTIONS

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101	3-367-410-21	SCREW (DIA. 5X15), TAPPING (MOUNTING SCREW)
102	1-823-952-11	CORD (WITH CONNECTOR) (0.2m)
103	3-263-276-01	COVER (POWER)



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

