

XM-SD46X

SERVICE MANUAL

Ver. 1.0 2004. 12

US Model
Canadian Model
AEP Model
UK Model
E Model



SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US MODEL)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
60 watts per channel minimum continuous average power into 4 ohms, both channels driven from 20 Hz to 20 kHz with no more than 0.08% total harmonic distortion per Car Audio Ad Hoc Committee standards.

Other Specifications

Circuit system	OTL (output transformerless) circuit Pulse power supply
Inputs	RCA pin jacks High level input connector
Outputs	Speaker terminals
Suitable speaker impedance	2 – 8 Ω (stereo) 4 – 8 Ω (when used as a bridging amplifier)
Maximum outputs	Four speakers: 120 W \times 4 (at 4 Ω) 150 W \times 4 (at 2 Ω) Three speakers: 120 W \times 2 + 300 W \times 1 (at 4 Ω)
Rated outputs (supply voltage at 14.4 V)	Four speakers: 60 W RMS \times 4 (20 Hz – 20 kHz, 0.08% THD + N, at 4 Ω) 75 W RMS \times 4 (20 Hz – 20 kHz, 0.1% THD + N, at 2 Ω) Three speakers: 60 W RMS \times 2 + 150 W RMS \times 1 (20 Hz – 20 kHz, 0.1% THD + N, at 4 Ω) 97 dBA (Reference 1W into 4 Ω)
SN Ratio	
Frequency response	5 Hz – 50 kHz (+0 -3 dB)
Harmonic distortion	0.005% or less (at 1 kHz)

Input level adjustment range	0.3 – 6.0 V (RCA pin jacks) 1.2 – 12 V (High level input)
High-pass filter	50 – 300 Hz, -12 dB/oct
Low-pass filter	50 – 300 Hz, -12 dB/oct
Low boost	0 – 10 dB (40 Hz)
Power requirements	12 V DC car battery (negative ground)
Power supply voltage	10.5 – 16 V
Current drain	at rated output: 31 A (4 Ω) Remote input: 1 mA
Dimensions	Approx. 403 \times 55 \times 277 mm (w/h/d) (15 7/8 \times 2 1/4 \times 11 in) not incl. projecting parts and controls
Mass	Approx. 4.7 kg (10 lb. 6 oz.) 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

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e Vehicle Company
Published by Sony Engineering Corporation

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.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350 °C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

- Strong viscosity

Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

- Usable with ordinary solder

It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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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.

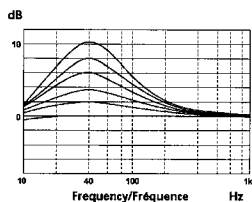
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

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

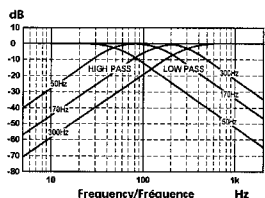
SECTION 1 GENERAL

This section is extracted from instruction manual.

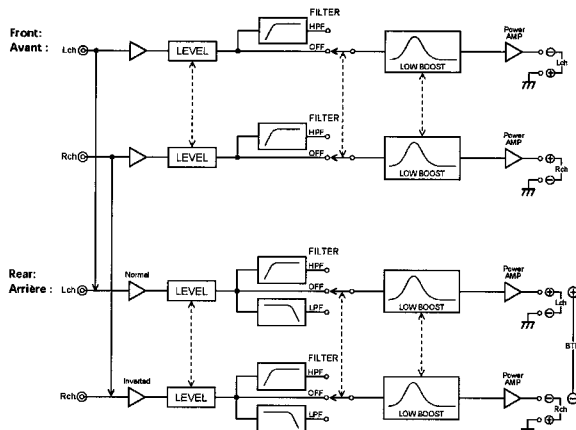
Low boost Amplification de basses fréquences



Cut-off frequency Fréquence de coupure



Circuit Diagram Schéma du circuit



Features

- Maximum power output of 120 W per channel (at 4 Ω).
- This unit can be used as a bridging amplifier with a maximum output of 300 W.
- Direct connection can be made with the speaker output of your car audio unit if it is not equipped with a line output (High level input connection).
- Built-in variable LPF (Low-pass filter), HPP (High-pass filter) and low boost circuit.
- Protection circuit and indicator provided.
- Pulse power supply* for stable, regulated output power.

*** Pulse power supply**
This unit has a built-in power regulator which converts the power supplied by the DC 12 V car battery into high speed pulses using a semiconductor switch. These pulses are stepped up by the built-in pulse transformer and separated into both positive and negative power supplies before being converted into direct current again. This light weight power supply system provides a highly efficient power supply with a low impedance output.

Caractéristiques

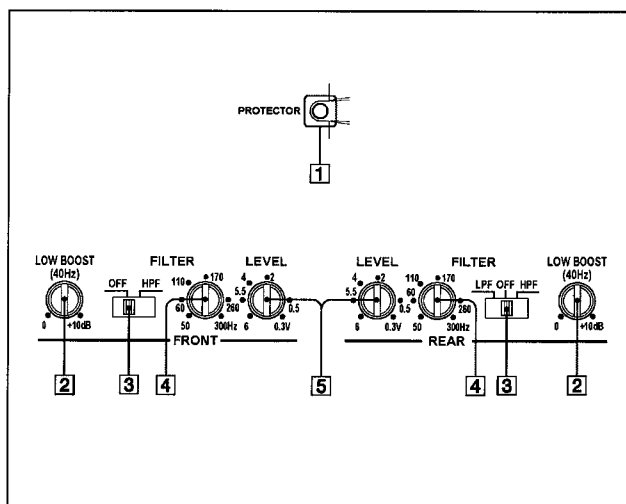
- Puissance de sortie maximale de 120 W par canal (à 4 W).
- Cet appareil peut être utilisé comme amplificateur en pont d'une sortie maximale de 300 W.
- Une connexion directe est possible avec la sortie haut-parleur de votre autoradio si celle-ci n'est pas équipée d'une sortie de ligne (connexion d'entrée haut niveau).
- Filtre passe-bas (LPF), filtre passe-haut (HPF) variables et circuit d'amplification des basses fréquences.
- Avec circuit et indicateur de protection.
- Alimentation électrique par impulsions* pour une puissance de sortie stable, régulée.
- **Alimentation électrique par impulsions**
Cet appareil est équipé d'un régulateur de puissance intégré qui convertit la puissance fournie par une batterie de voiture de 12 V CC en impulsions ultrarapides au moyen d'un commutateur à semi-conducteur. Ces impulsions sont amplifiées par le transformateur d'impulsions intégré et séparées en alimentation positive et négative avant d'être reconverties en courant continu. Ce système d'alimentation de faible poids assure une alimentation électrique très efficace pour une sortie d'impédance faible.

Location and Function of Controls

- 1 PROTECTOR indicator**
When the PROTECTOR is activated, the indicator lights up in red. When the PROTECTOR is activated refer to the Troubleshooting Guide.
- 2 LOW BOOST level control**
Turn this control to boost the frequencies around 40 Hz to a maximum of 10 dB.
- 3 FILTER selector switch**
When the switch is in the LPF position, the filter is set to low-pass. When in the HPF position, the filter is set to high-pass.
- 4 Cut-off frequency adjustment control**
Sets the cut-off frequency (50 – 300 Hz) for the low-pass or high-pass filters.
- 5 LEVEL adjustment LEVEL**
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.

Emplacement et fonction des commandes

- 1 Indicateur PROTECTOR**
Lorsque PROTECTOR est activé, l'indicateur s'allume en rouge. Lorsque PROTECTOR est activé, reportez-vous au guide de dépannage.
- 2 Commande de niveau LOW BOOST**
Tournez cette commande pour amplifier les fréquences autour de 40 Hz jusqu'à un maximum de 10 dB.
- 3 Sélecteur FILTER**
Lorsque le sélecteur est en position LPF, le filtre est réglé sur passe-bas. Lorsqu'il est en position HPF, le filtre est réglé sur passe-haut.
- 4 Commandes de réglage de la fréquence de coupure**
Règle la fréquence de coupure (50 – 300 Hz) des filtres passe-bas ou passe-haut.
- 5 Commande de réglage LEVEL**
Le niveau d'entrée peut se régler avec cette commande. Tournez cette commande dans le sens des aiguilles d'une montre lorsque le niveau de sortie de l'autoradio semble faible.



Connections

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.

Connexions

Attention

- Avant d'effectuer les connexions, débranchez le fil de masse de la borne de la batterie pour éviter un court-circuit.
- Utilisez des haut-parleurs de puissance adéquate. Si vous utilisez des haut-parleurs de faible capacité, ils risquent d'être endommagés.
- Ne raccordez pas la borne ⊖ des haut-parleurs à la carrosserie de la voiture ni la borne ⊖ du haut-parleur droit à celle du haut-parleur gauche.
- Éloignez les cordons d'entrée et de sortie du fil d'alimentation électrique pour éviter que des interférences ne se produisent.
- Cet appareil est un amplificateur de haute puissance et il peut ne pas atteindre sa puissance maximale si les cordons de haut-parleurs originaux de la voiture lui sont raccordés.
- Si votre voiture est équipée d'un système de navigation ou d'un ordinateur de bord, ne débranchez pas le fil de masse de la batterie de la voiture. Si vous débranchez ce fil, toute la mémoire de l'ordinateur sera effacée. Pour éviter un court-circuit lorsque vous effectuez les branchements, branchez le fil d'alimentation de +12 V uniquement après avoir branché tous les autres fils.

Precautions

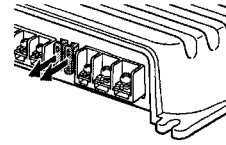
- This unit is designed for negative ground 12 V DC operation only.
- Use speakers with suitable impedance. — 2 - 8 Ω (stereo) , 4 - 8 Ω (when used as a bridging amplifier).
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the amplifier 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.

Fuse Replacement

If the fuse blows, check the power connection and replace both the fuses. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

Warning

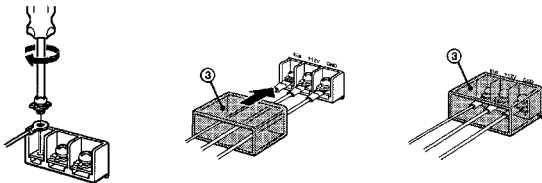
When replacing the fuse, be sure to use one matching the amperage stated above the fuse holder. Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.



- **Protection circuit**
This amplifier is provided with a protection circuit that operates in the following cases:
— when the unit is overheated
— when a DC current is generated
— when the speaker terminals are short-circuited
The PROTECTOR indicator lights up in red and the unit will shut down.
If this happens, turn off the connected equipment, take out the cassette tape or disc, and determine the cause of the malfunction. If the amplifier has overheated, wait until the unit cools down before use.

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

Make the terminal connections as illustrated below.
Procédez aux connexions des bornes comme illustré ci-dessous.



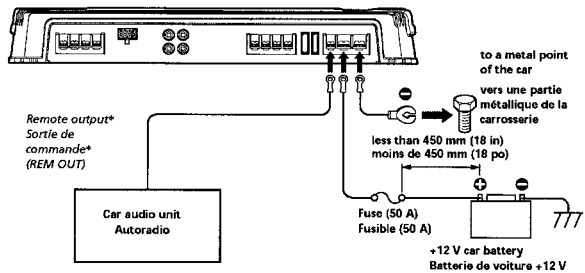
Pass the wires through the cap, connect the wires, then cover the terminals with the cap.

Note
When you tighten the screw, be careful not to apply too much torque* as doing so may damage the screw.
* The torque value should be less than 1 Nm.

Faites passer les fils par le cache, raccordez les fils, puis recouvrez les bornes avec le cache.

Remarque
Lorsque vous vissez la vis, faites attention à ne pas appliquer une trop grande force*, car cela pourrait endommager la vis.
* Le couple de torsion doit être inférieur à 1 Nm.

Power Connection Wires Câbles d'alimentation



- If you have the factory original or some other car audio unit without a remote output for the amplifier, connect the remote input terminal (REMOTE) to the accessory power supply.
- Si vous disposez du modèle d'origine ou d'un autre autoradio sans aucune sortie de commande à distance pour l'amplificateur, raccordez la borne d'entrée de la commande à distance (REMOTE) à la prise d'alimentation accessoires.

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 (18 in) 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 mm² (1/4 in²).

Remarques sur l'alimentation électrique

- Raccordez le câble d'alimentation +12 V uniquement après avoir réalisé toutes les autres connexions.
- Raccordez correctement le fil de masse à une partie métallique de la voiture. Une connexion lâche peut provoquer un dysfonctionnement de l'amplificateur.
- Veillez à raccorder le fil de commande à distance de l'autoradio à la borne de commande à distance.
- Si vous utilisez un autoradio dont l'amplificateur ne comporte pas de sortie de commande à distance, raccordez la borne d'entrée de commande à distance (REMOTE) à la prise d'alimentation accessoires.
- Utilisez un câble d'alimentation muni d'un fusible (50 A).
- Tous les fils électriques raccordés au support de batterie positif doivent être protégés par un fusible à une distance maximum de 450 mm (18 po) du support de batterie et avant de passer dans une partie métallique quelconque.
- Assurez-vous que les câbles à raccorder aux bornes +12V et GND de cet appareil sont d'un calibre d'au moins 10 (AWG-10) ou d'une section supérieure à 5 mm² (1/4 po²).

Précautions

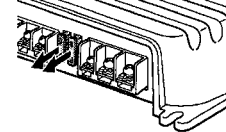
- Cet appareil est conçu uniquement pour fonctionner uniquement sur courant continu de 12 V avec masse négative.
- Utilisez des haut-parleurs d'une impédance appropriée. — 2 - 8 Ω (stéréo) , 4 - 8 Ω (utilisé comme amplificateur en pont).
- Ne raccordez pas de haut-parleurs actifs (avec amplificateur intégré) aux bornes de haut-parleurs de cet appareil. Cela risquerait en effet d'endommager l'amplificateur et les haut-parleurs actifs.
- N'installez pas l'appareil à un endroit exposé à : — des températures élevées, par exemple soumis au rayonnement direct du soleil ou près d'un conduit de chauffage, — la pluie ou à l'humidité, — de la poussière ou à des saletés.
- Si votre voiture était garée en plein soleil et que la température a considérablement augmenté à l'intérieur, laissez refroidir l'appareil avant de l'utiliser.
- Si vous installez l'appareil à l'horizontale, ne recouvrez pas les ailettes de ventilation par le tapis de sol ou autre chose.
- Si cet appareil est placé trop près de l'autoradio ou de l'antenne, il se peut que des interférences se produisent. Dans ce cas, éloignez l'amplificateur de l'autoradio ou de l'antenne.
- Si l'autoradio n'est pas alimenté, vérifiez les connexions.
- Cet amplificateur est équipé d'un circuit de protection* destiné à protéger les transistors et les haut-parleurs en cas de dysfonctionnement de l'amplificateur. Ne tentez pas de tester les circuits de protection en couvrant l'accumulateur de chaleur ou en branchant des charges inadéquates.
- N'utilisez pas l'appareil sur une batterie faible, car ses performances optimales dépendent d'une bonne alimentation électrique.
- Pour des raisons de sécurité, écoutez l'autoradio à un volume modéré afin d'entendre les bruits extérieurs.

Remplacement du fusible

Si le fusible grille, vérifiez le branchement de l'alimentation et remplacez les deux fusibles. S'il grille de nouveau après avoir été remplacé, il est possible qu'il y ait un dysfonctionnement interne. Dans ce cas, consultez votre distributeur Sony.

Avertissement

En cas de remplacement du fusible, veillez à respecter l'ampérage indiqué au-dessus du logement du fusible. N'utilisez jamais de fusible dont l'ampérage dépasse celui du fusible fourni avec l'appareil, car vous risqueriez d'endommager l'appareil.

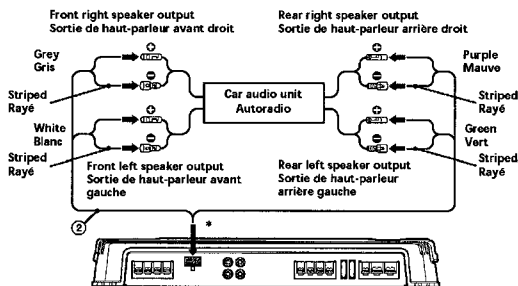


- **Circuit de protection**
Cet amplificateur est équipé d'un circuit de protection qui s'active dans les cas suivants :
— surchauffe de l'appareil,
— production d'un courant continu,
— court-circuit aux bornes des haut-parleurs.
L'indicateur PROTECTOR s'allume en rouge et l'appareil s'arrête.
Si le cas se présente, éteignez tout appareil raccordé et éjectez la cassette ou le disque compact avant d'examiner la cause de la défaillance. Si l'amplificateur a surchauffé, attendez qu'il refroidisse.

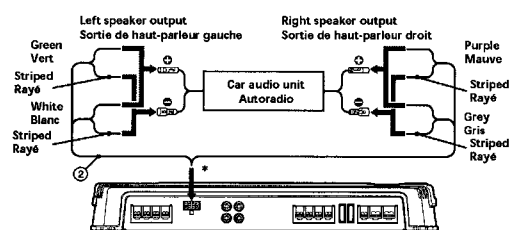
Pour toute question ou problème qui ne serait pas traité dans ce manuel, consultez votre distributeur Sony.

Input Connections/Connexions d'entrée

**A High Level Input Connection (with Speaker Connection 1, 2 or 3)
Connexion à l'entrée de haut niveau (avec connexion de haut-parleur 1, 2 ou 3)**



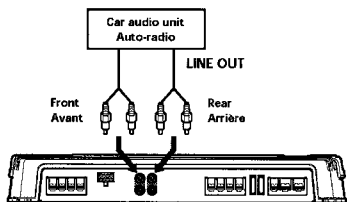
**B High Level Input Connection (with Speaker Connection 2 or 3)
Connexion à l'entrée de haut niveau (avec connexion de haut-parleur 2 ou 3)**



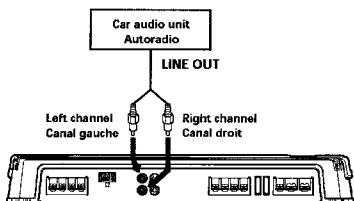
Note
Make sure that the right speaker output from the car audio unit is connected to the connector marked "REAR" on the unit.

Remarque
Assurez-vous que la sortie du haut-parleur droit de l'autoradio est raccordée au connecteur portant l'indication « REAR » sur l'appareil.

**C Line Input Connection (with Speaker Connection 1, 2 or 3)
Connexion d'entrée de ligne (avec connexion de haut-parleur 1, 2 ou 3)**



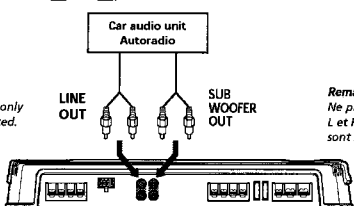
**D Line Input Connection (with Speaker Connection 1, 2 or 3)
Connexion d'entrée de ligne (avec connexion de haut-parleur 1, 2 ou 3)**



**E Line Input Connection (with Speaker Connection 2 or 3)
Connexion d'entrée de ligne (avec connexion de haut-parleur 2 ou 3)**

Note
Do not use when only L and R is connected.

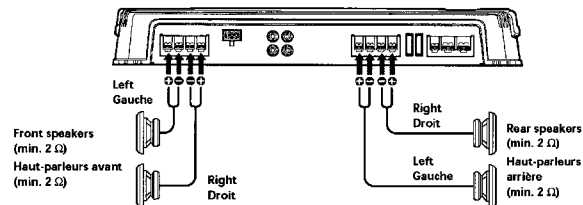
Remarque
Ne pas utiliser lorsque L et R uniquement sont raccordés.



Speaker Connections/Raccordement de haut-parleurs

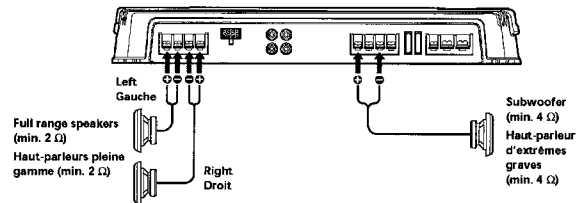
**1 4-Speaker System (with Input Connection A, C or D)
Système à 4 haut-parleurs (avec connexion d'entrée A, C ou D)**

For details on the settings of switches and controls, refer to "Location and Function of Controls."
Pour plus de détails sur les réglages des commutateurs et commandes, reportez-vous à « Emplacement et fonction des commandes ».



**2 3-Speaker System (with Input Connection A, B, C, D or E)
Système à 3 haut-parleurs (avec connexion d'entrée A, B, C, D ou E)**

For details on the settings of switches and controls, refer to "Location and Function of Controls."
Pour plus de détails sur les réglages des commutateurs et commandes, reportez-vous à « Emplacement et fonction des commandes ».

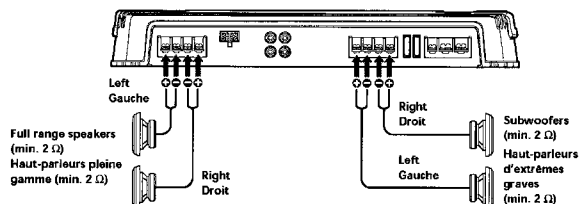


Notes
• In this system, the volume of the subwoofer will be controlled by the car audio unit fader control.
• In this system, the output signals to the subwoofer are a combination of both the REAR L and R INPUT jacks or the REAR high level input connector signals.

Remarques
• Dans ce système, le volume du haut-parleur d'extrêmes graves est contrôlé par la commande de balance avant/arrière de l'autoradio.
• haut-parleur d'extrêmes graves sont constitués des signaux des prises REAR L et R INPUT ou des signaux du connecteur d'entrée de haut niveau REAR.

**3 2-Way System (with Input Connection A, B, C, D or E)
Système à 2 voies (avec connexion d'entrée A, B, C, D ou E)**

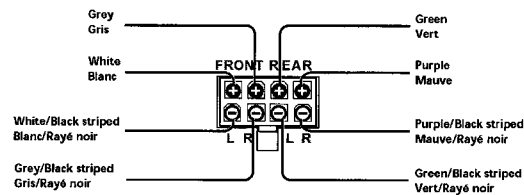
For details on the settings of switches and controls, refer to "Location and Function of Controls."
Pour plus de détails sur les réglages des commutateurs et commandes, reportez-vous à « Emplacement et fonction des commandes ».



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

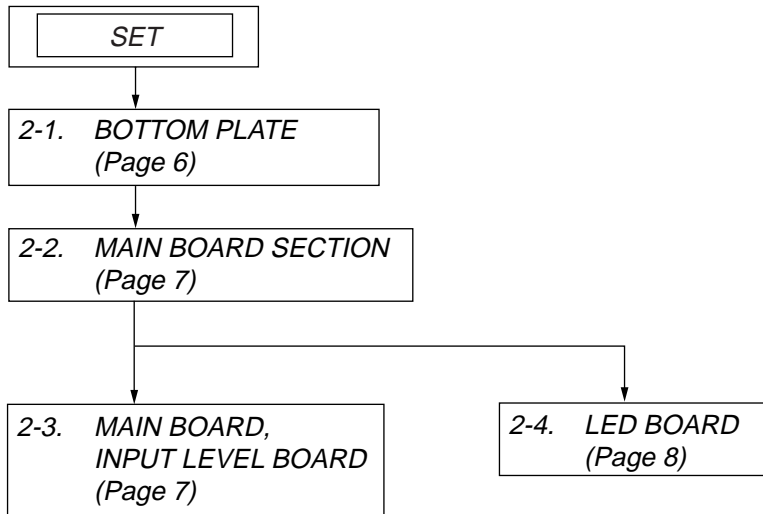
Remarque
Dans ce système, le volume des haut-parleurs d'extrêmes graves est contrôlé par la commande de balance avant/arrière de l'autoradio.

*** High Level Input Connector
* Connecteur d'entrée de haut niveau**



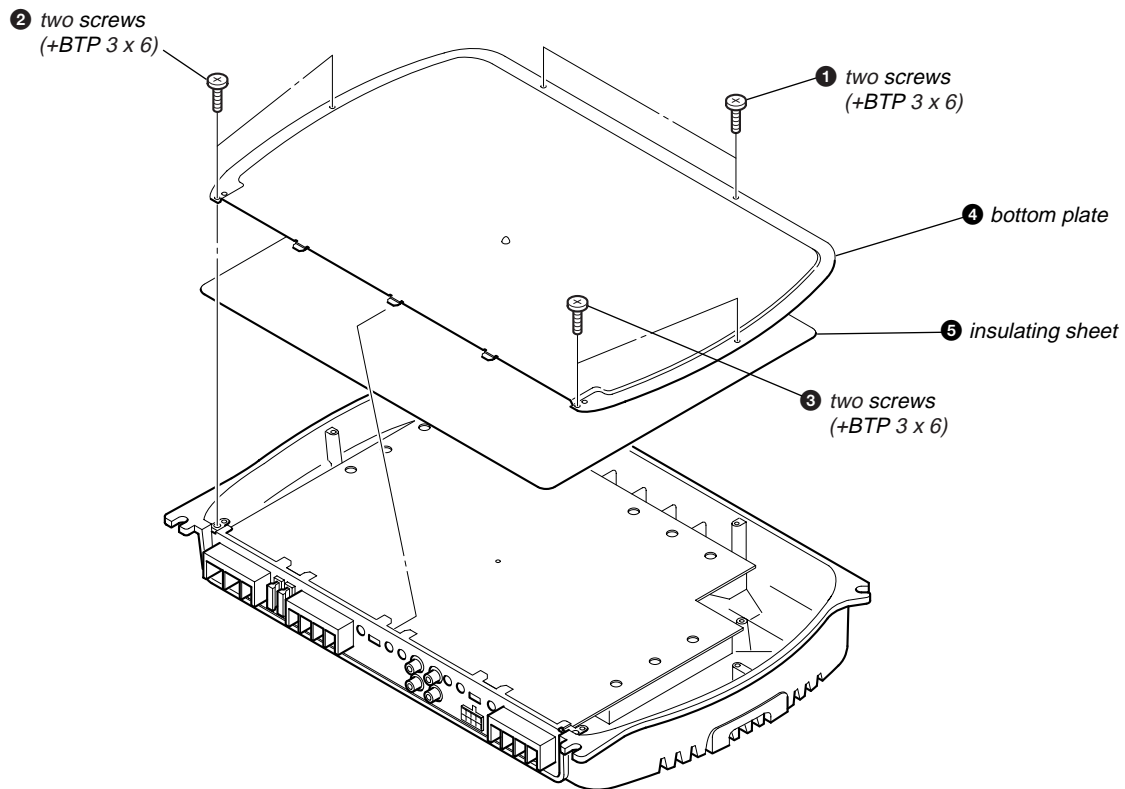
**SECTION 2
DISASSEMBLY**

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

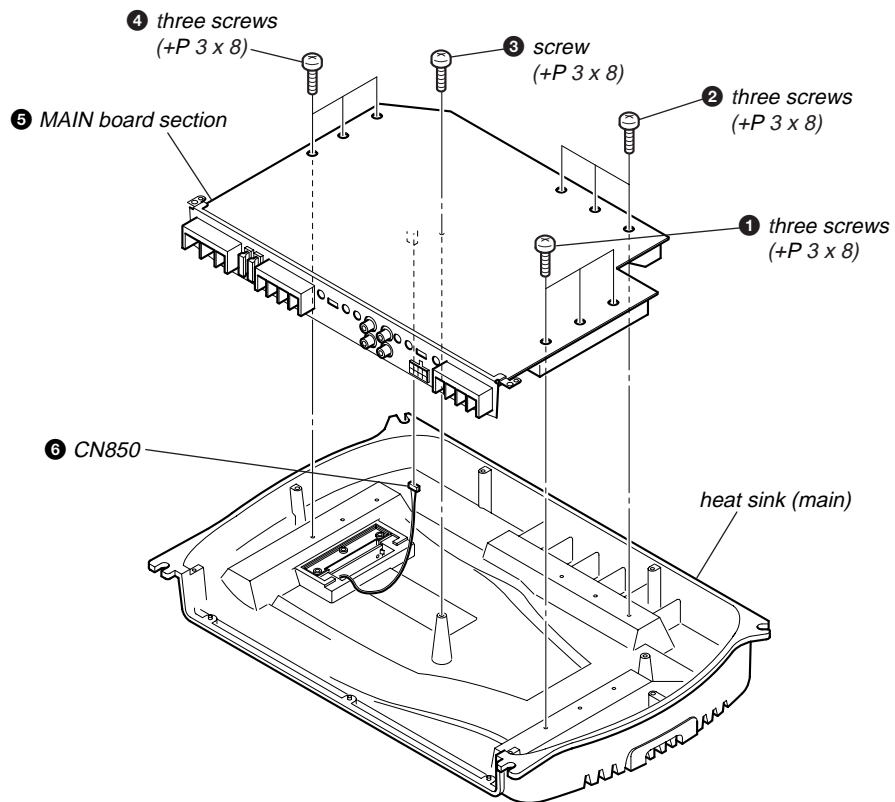


Note : Follow the disassembly procedure in the numerical order given.

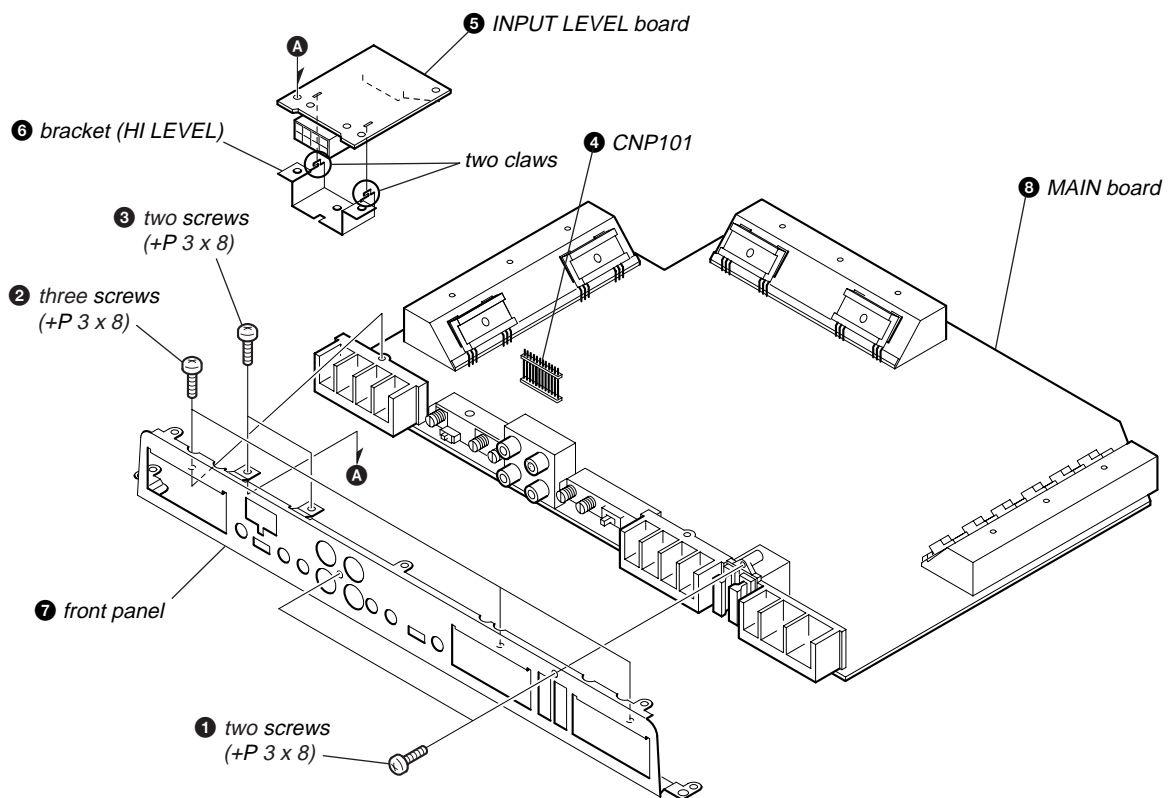
2-1. BOTTOM PLATE



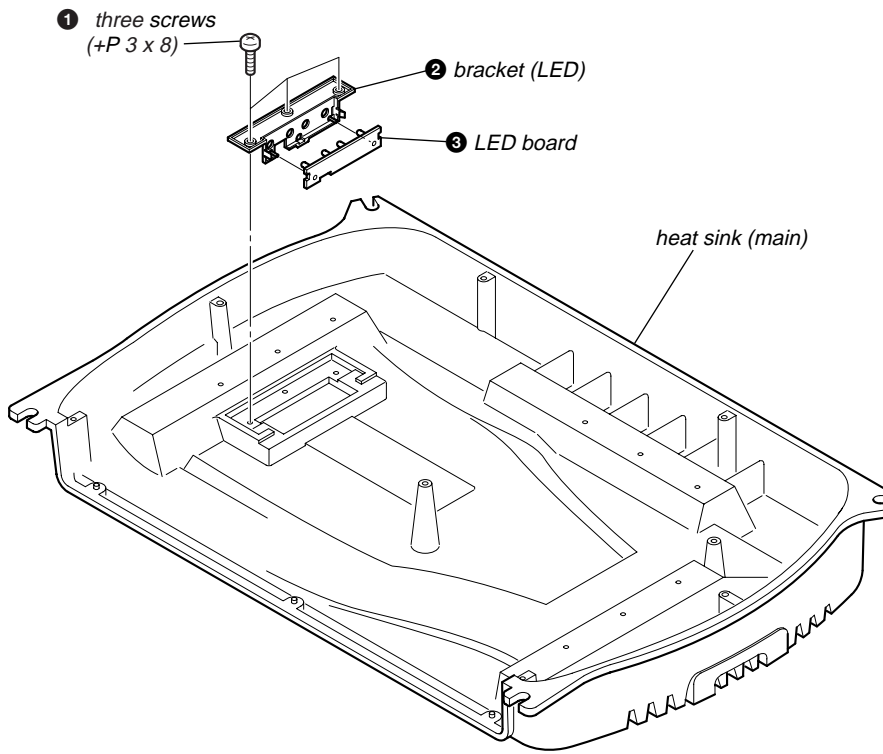
2-2. MAIN BOARD SECTION



2-3. MAIN BOARD, INPUT LEVEL BOARD



2-4. LED BOARD

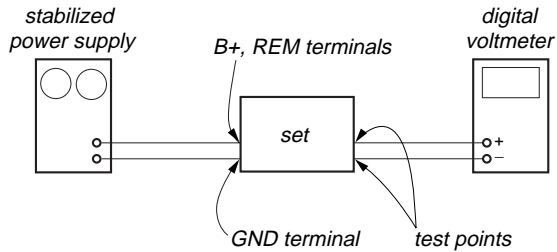


SECTION 3 ELECTRICAL ADJUSTMENT

Bias Adjustment

Note : The Bias adjustment should be performed only if any of Q109 and Q110 for RV104, Q209 and Q210 for RV204, Q309 and Q310 for RV304, and Q409 and Q410 for RV404 are replaced.

Setting :



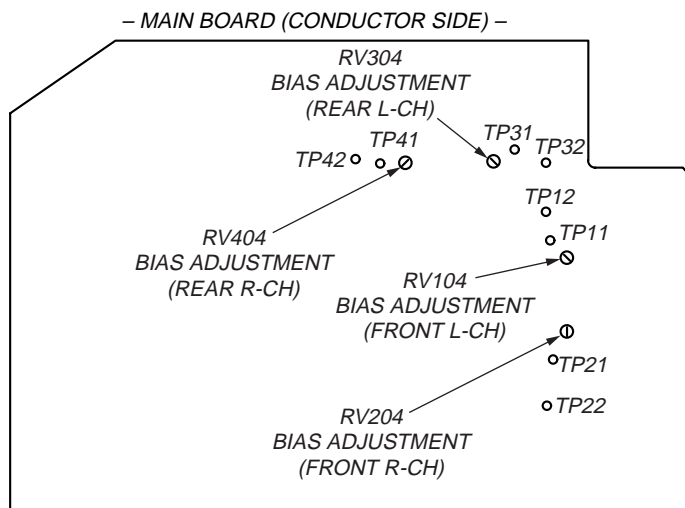
Procedure:

1. Rotate variable resistors RV104 (FRONT L-CH), RV204 (FRONT R-CH), RV304 (REAR L-CH) and RV404 (REAR R-CH) full clockwise as seen from the pattern side to minimize the bias current.
2. The input signal is with no signal.
3. Connect the stabilized power supply between B+ and REM terminals and gradually increase the voltage to 14.4 V while checking for any abnormal current.
4. Adjust RV104 (FRONT L-CH), RV204 (FRONT R-CH), RV304 (REAR L-CH) and RV404 (REAR R-CH) so that the digital voltmeter connected between the respective test points reads 6 ± 1 mV.

RV Ref. No.	Test points
RV104	TP11 and TP12
RV204	TP21 and TP22
RV304	TP31 and TP32
RV404	TP41 and TP42

5. After this adjustment, verify that the current value of the stabilized power supply is 1.4 to 1.8 A.

Adjustment Location :



SECTION 4
DIAGRAMS



• Semiconductor Location (MAIN SECTION)

Ref. No.	Location	Ref. No.	Location
D101	D-10	Q112	D-10
D141	E-12	Q201	H-12
D201	G-10	Q202	G-10
D241	F-12	Q203	F-11
D301	D-10	Q204	F-11
D341	C-10	Q207	F-11
D401	D-8	Q208	F-11
D441	C-9	Q209	G-12
D801	E-8	Q210	G-12
D802	E-8	Q211	F-12
D805	D-8	Q212	G-10
D824	D-8	Q301	G-6
D825	D-8	Q302	D-10
D826	D-8	Q303	C-10
D827	D-8	Q304	C-10
D828	C-7	Q307	C-10
D829	C-7	Q308	D-10
D901	H-2	Q309	B-10
D902	H-2	Q310	B-11
D903	E-6	Q311	B-10
D904	E-6	Q312	D-11
D905	D-6	Q401	H-6
D906	D-6	Q402	D-9
D907	B-2	Q403	C-9
D908	C-2	Q404	C-9
D911	D-6	Q407	C-9
D912	E-6	Q408	C-9
D913	F-8	Q409	B-8
D914	F-8	Q410	B-8
D917	E-6	Q411	B-9
D918	E-5	Q412	D-8
		Q801	E-8
		Q802	E-8
IC801	H-9	Q803	A-5
IC802	I-10	Q804	B-5
IC806	H-10	Q805	A-4
IC807	H-11	Q810	C-7
IC808	H-8	Q812	B-4
IC809	H-8	Q813	A-4
IC811	G-7	Q814	A-3
IC812	H-7	Q850	B-4
IC813	G-7	Q901	H-1
IC814	H-6	Q902	H-2
IC901	G-1	Q903	H-2
IC902	E-7	Q904	F-2
		Q905	E-2
Q101	H-10	Q906	E-2
Q102	E-11	Q907	D-2
Q103	E-11	Q908	E-2
Q104	E-11	Q909	E-2
Q107	E-11	Q910	F-8
Q108	E-11	Q911	F-8
Q109	E-12	Q912	E-2
Q110	D-12	Q913	E-2
Q111	E-12		

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:

Note:





- All capacitors are in μF unless otherwise noted. (p: pF)
- 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{ W}$ or less unless otherwise specified.
- % : indicates tolerance.
-  : nonflammable resistor.
-  : panel designation.

Note:

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



Note:

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

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

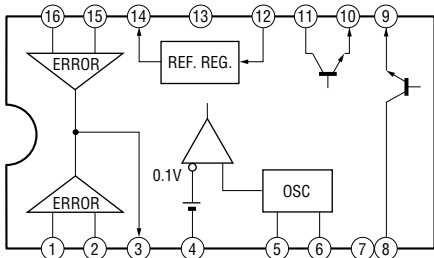
for printed wiring boards:

Note:

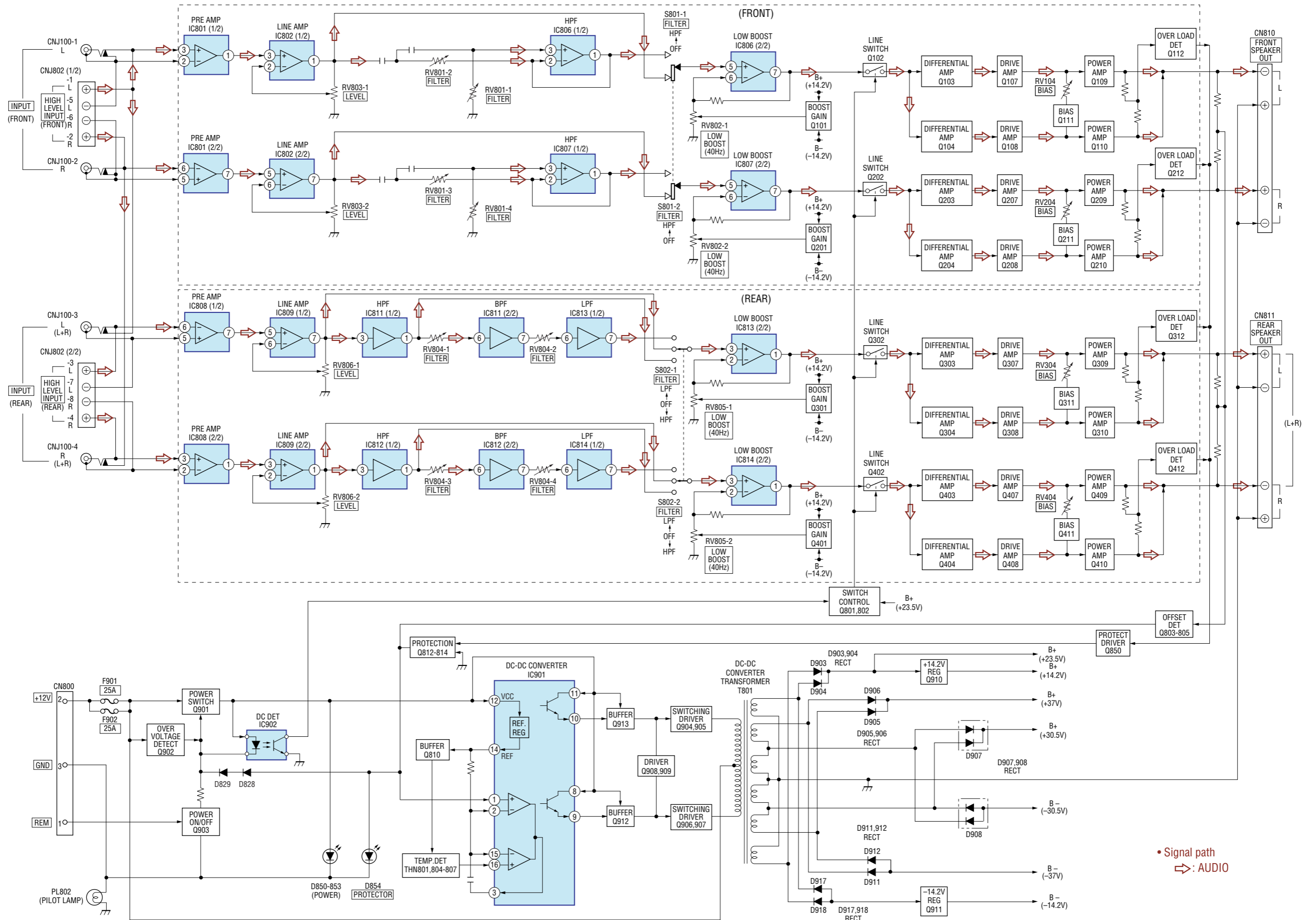
-  : parts extracted from the component side.
-  : Pattern from the side which enables seeing.

• IC BLOCK DIAGRAM

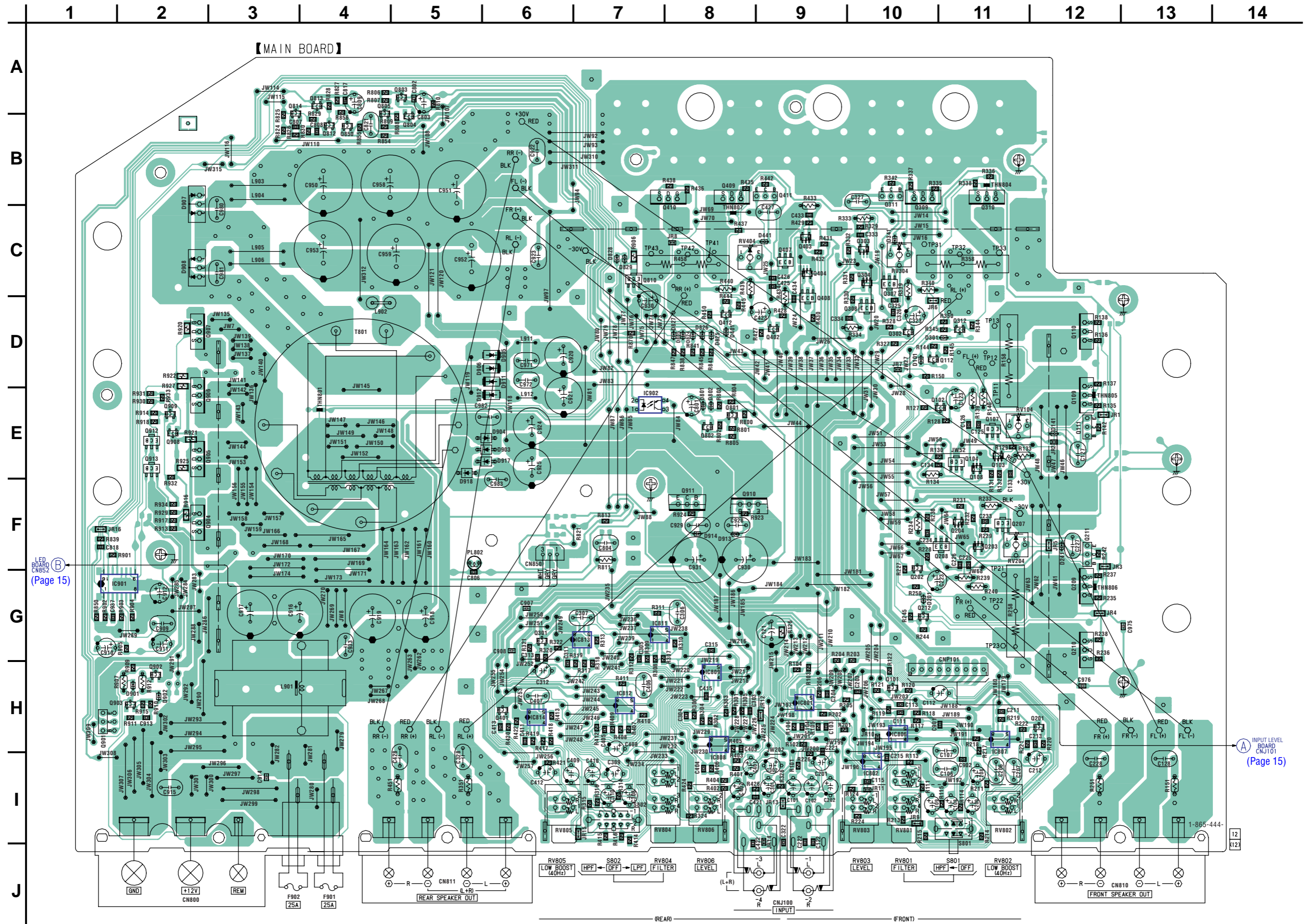
IC901 TL594INSR



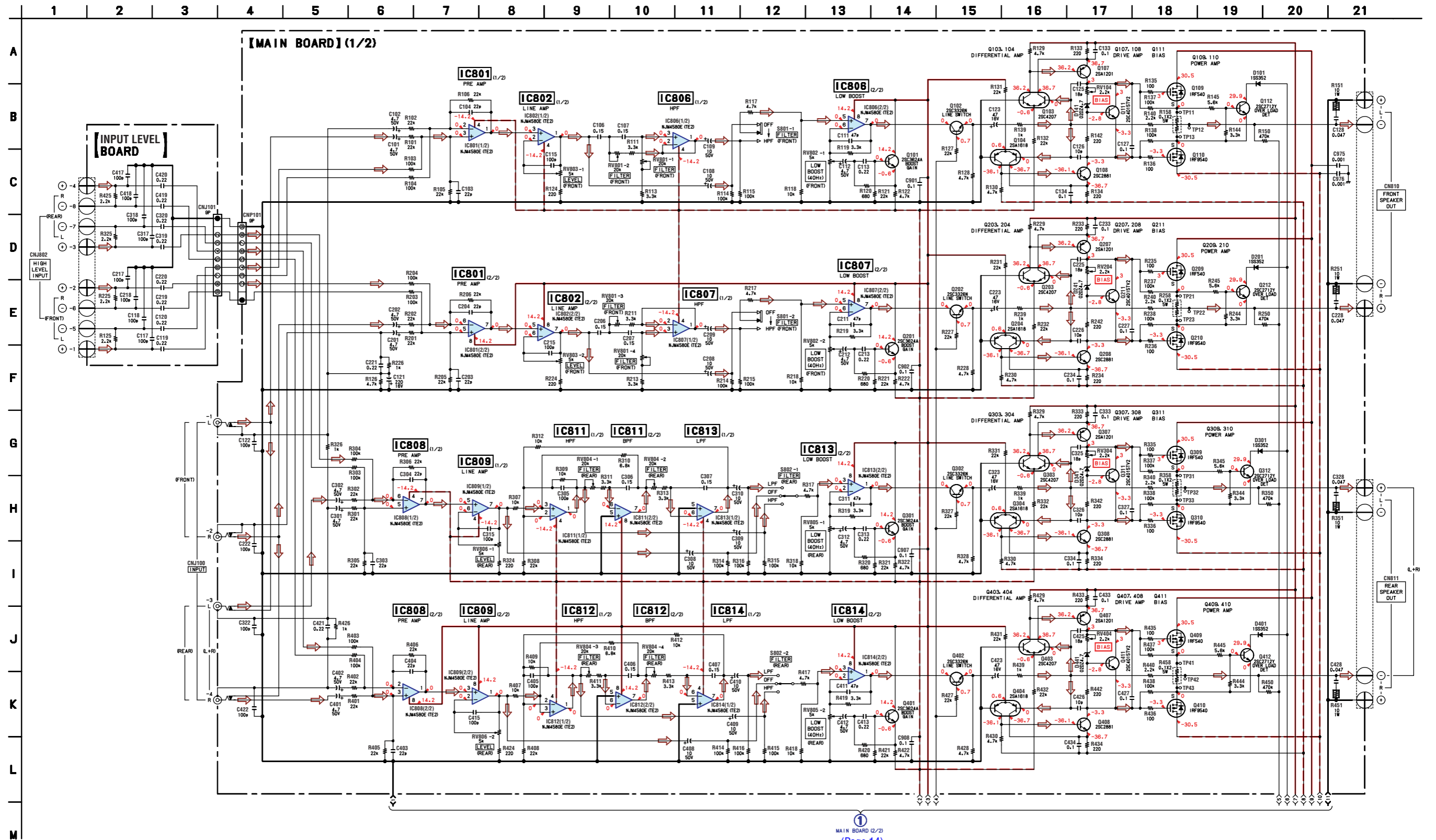
4-1. BLOCK DIAGRAM



4-2. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 10 for Semiconductor Location.  : Uses unleaded solder.

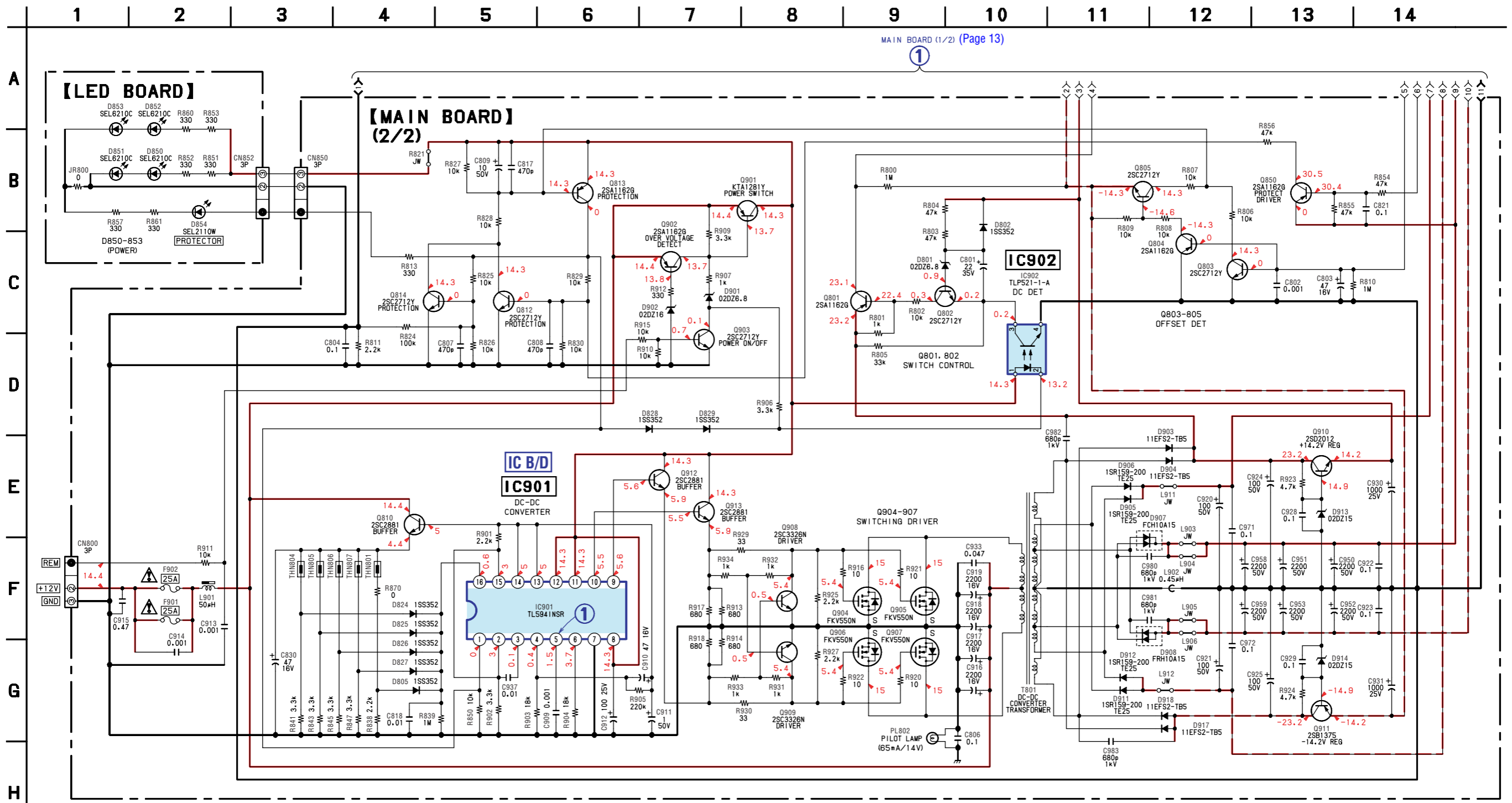


4-3. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) —



MAIN BOARD (2/2)
(Page 14)

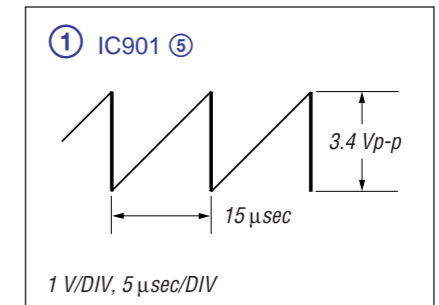
4-4. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 10 for IC Block Diagram.



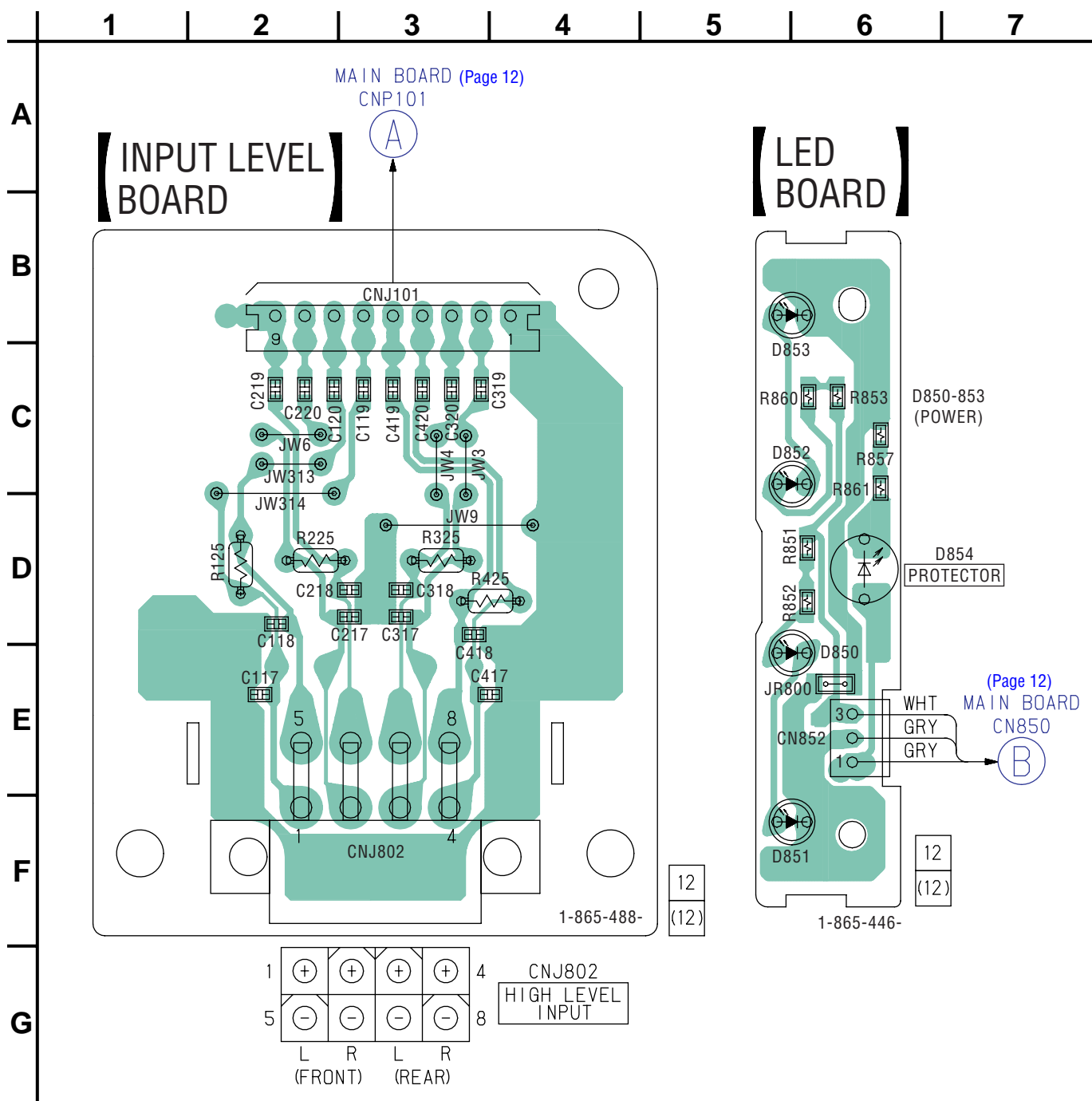
Note:
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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

• Waveform



4-5. PRINTED WIRING BOARDS — INPUT LEVEL, LED SECTION —  : Uses unleaded solder.



SECTION 5
EXPLODED VIEWS

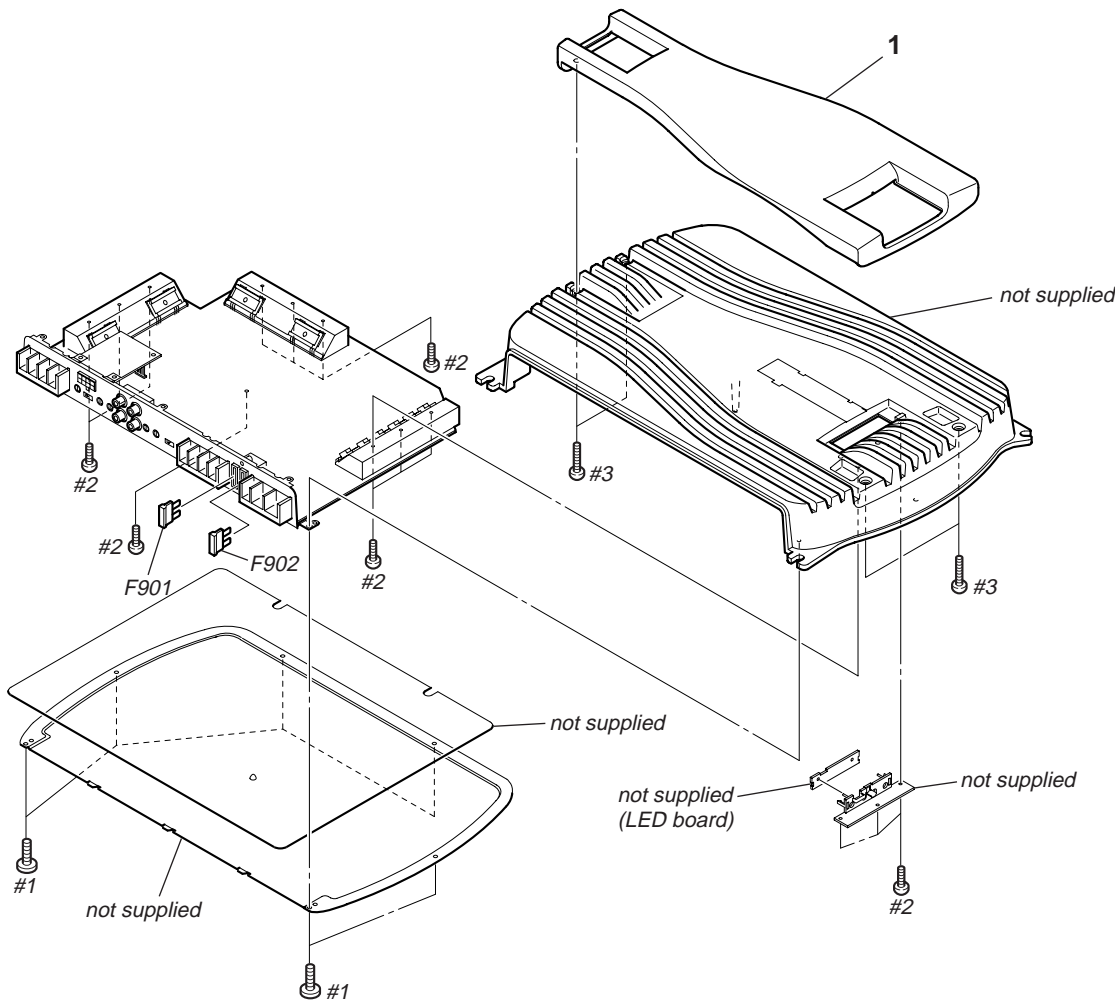
- NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
 - Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- 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.

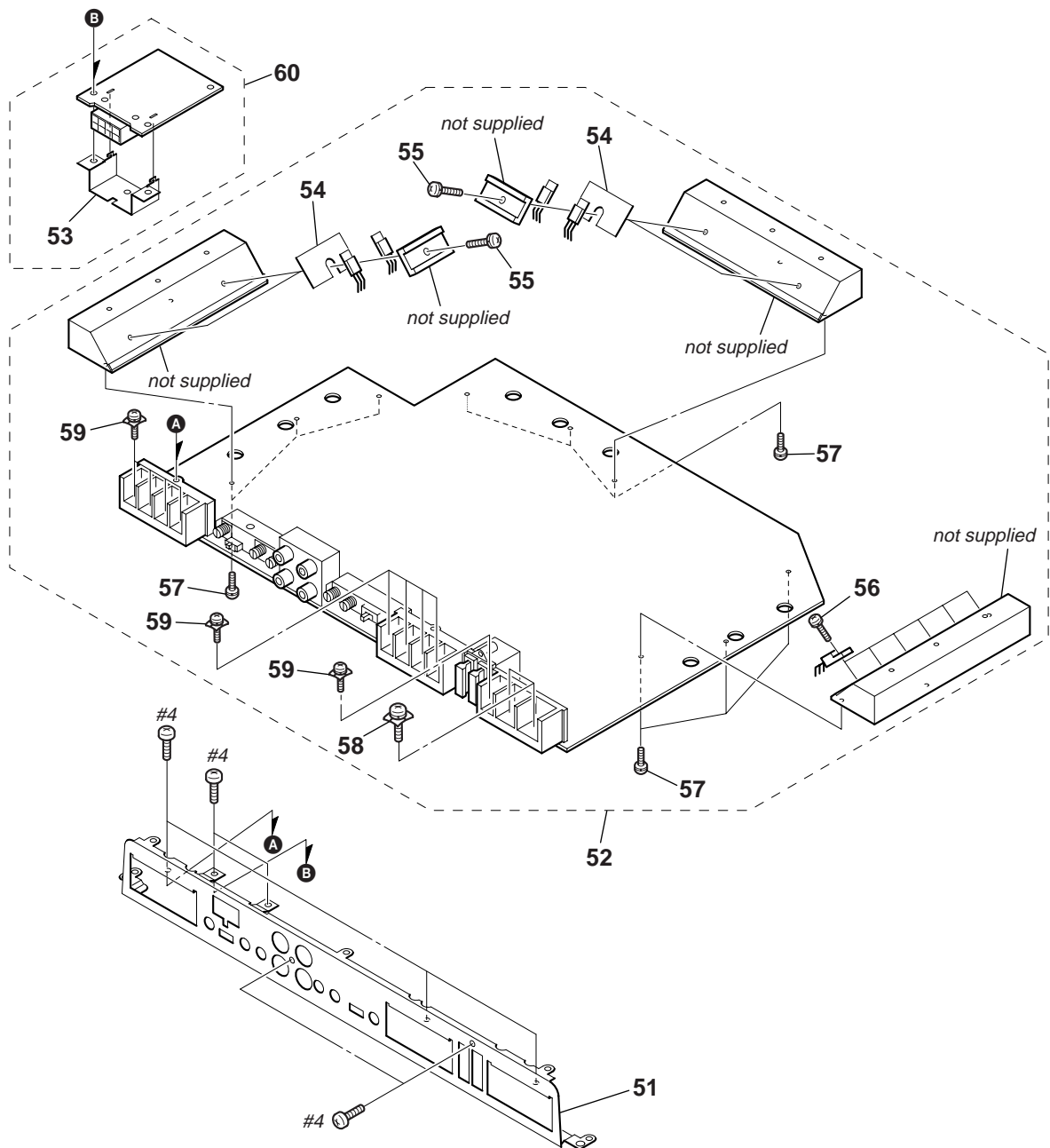
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. HEAT SINK (MAIN) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-2025-302-1	PLATE ASSY, ORNAMENTAL		#1	7-685-545-14	SCREW +BTP 3X6 TYPE2 N-S	
\triangle F901	1-576-256-11	FUSE (BLADE TYPE) (AUTO FUSE) (25A)		#2	7-685-546-19	SCREW +BTP 3X8 TYPE2 N-S	
\triangle F902	1-576-256-11	FUSE (BLADE TYPE) (AUTO FUSE) (25A)		#3	7-685-649-79	SCREW +BVTP 3X14 TYPE2 N-S	

5-2. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-262-164-01	PANEL (FRONT)		57	3-225-184-12	SCREW (+PS.TT.3XL)	
52	A-1083-678-A	MAIN BOARD, COMPLETE		58	3-253-537-01	SCREW (M5X11)	
53	3-249-924-01	BRACKET (HIGH LEVEL)		59	3-912-431-01	SCREW (+-P)	
54	3-238-413-01	SHEET (TR), INSULATING		60	A-1090-736-A	INPUT LEVEL BOARD, COMPLETE	
55	3-225-183-22	SCREW (+PSW.TT.3XL)		#4	7-685-646-79	SCREW +P 3X8 TYPE2 NON-SLIT	
56	3-225-183-32	SCREW (+PSW.TT.3XL)					

**SECTION 6
ELECTRICAL PARTS LIST**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- **RESISTORS**
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

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

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

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

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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>		
	A-1090-736-A	INPUT LEVEL BOARD, COMPLETE	*****		
	3-249-924-01	BRACKET (HIGH LEVEL)			
	7-685-646-79	SCREW +P 3X8 TYPE2 NON-SLIT			
		< CAPACITOR >			
C117	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C118	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C119	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C120	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C217	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C218	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C219	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C220	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C317	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C318	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C319	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C320	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C417	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C418	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C419	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C420	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
		< CONNECTOR >			
CNJ101	1-784-916-11	CONNECTOR, BOARD TO BOARD 9P			
CNJ802	1-580-283-11	PIN, CONNECTOR (PC BOARD) 8P (HIGH LEVEL INPUT)			
		< RESISTOR >			
R125	1-249-421-11	CARBON	2.2K	5%	1/4W
R225	1-249-421-11	CARBON	2.2K	5%	1/4W
R325	1-249-421-11	CARBON	2.2K	5%	1/4W
R425	1-249-421-11	CARBON	2.2K	5%	1/4W

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>		
		LED BOARD	*****		
		< DIODE >			
D850	6-501-118-01	LED SEL6E10C-STP5 (POWER)			
D851	6-501-118-01	LED SEL6E10C-STP5 (POWER)			
D852	6-501-118-01	LED SEL6E10C-STP5 (POWER)			
D853	6-501-118-01	LED SEL6E10C-STP5 (POWER)			
D854	6-501-117-01	LED SEL2110W-TP3 (PROTECTOR)			
		< JUMPER RESISTOR >			
JR800	1-216-296-11	SHORT CHIP	0		
		< RESISTOR >			
R851	1-216-815-11	METAL CHIP	330	5%	1/10W
R852	1-216-815-11	METAL CHIP	330	5%	1/10W
R853	1-216-815-11	METAL CHIP	330	5%	1/10W
R857	1-216-815-11	METAL CHIP	330	5%	1/10W
R860	1-216-815-11	METAL CHIP	330	5%	1/10W
R861	1-216-815-11	METAL CHIP	330	5%	1/10W

	A-1083-678-A	MAIN BOARD, COMPLETE	*****		
	3-225-183-22	SCREW (+PSW.TT.3XL)			
	3-225-183-32	SCREW (+PSW.TT.3XL)			
	3-225-184-12	SCREW (+PS.TT.3XL)			
	3-238-413-01	SHEET (TR), INSULATING			
	3-253-537-01	SCREW (M5X11)			
	3-912-431-01	SCREW (+-P)			
	7-685-646-79	SCREW +P 3X8 TYPE2 NON-SLIT			
		< CAPACITOR >			
C101	1-126-794-11	ELECT	4.7uF	20%	50V
C102	1-126-794-11	ELECT	4.7uF	20%	50V
C103	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C104	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C106	1-136-167-00	FILM	0.15uF	5%	50V
C107	1-136-167-00	FILM	0.15uF	5%	50V
C108	1-126-795-11	ELECT	10uF	20%	50V
C109	1-126-795-11	ELECT	10uF	20%	50V
C111	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C112	1-126-794-11	ELECT	4.7uF	20%	50V
C113	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C115	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C406	1-136-167-00	FILM	0.15uF	5%	50V
C121	1-128-499-11	ELECT	220uF	20%	16V	C407	1-136-167-00	FILM	0.15uF	5%	50V
C122	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C408	1-126-795-11	ELECT	10uF	20%	50V
C123	1-126-786-11	ELECT	47uF	20%	16V	C409	1-126-795-11	ELECT	10uF	20%	50V
C125	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	C410	1-126-795-11	ELECT	10uF	20%	50V
C126	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C411	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C127	1-136-497-81	FILM	0.1uF	5%	50V	C412	1-126-794-11	ELECT	4.7uF	20%	50V
C128	1-136-161-00	FILM	0.047uF	5%	50V	C413	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C133	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C415	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C134	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C421	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C201	1-126-794-11	ELECT	4.7uF	20%	50V	C422	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C202	1-126-794-11	ELECT	4.7uF	20%	50V	C423	1-126-786-11	ELECT	47uF	20%	16V
C203	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C425	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C204	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C426	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C206	1-136-167-00	FILM	0.15uF	5%	50V	C427	1-136-497-81	FILM	0.1uF	5%	50V
C207	1-136-167-00	FILM	0.15uF	5%	50V	C428	1-136-161-00	FILM	0.047uF	5%	50V
C208	1-126-795-11	ELECT	10uF	20%	50V	C433	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C209	1-126-795-11	ELECT	10uF	20%	50V	C434	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C211	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C801	1-126-796-11	ELECT	22uF	20%	50V
C212	1-126-794-11	ELECT	4.7uF	20%	50V	C802	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C213	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	C803	1-126-786-11	ELECT	47uF	20%	16V
C215	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C804	1-136-497-81	FILM	0.1uF	5%	50V
C221	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V	C806	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C222	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C807	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C223	1-126-786-11	ELECT	47uF	20%	16V	C808	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C225	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	C809	1-126-964-11	ELECT	10uF	20%	50V
C226	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C817	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C227	1-136-497-81	FILM	0.1uF	5%	50V	C818	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C228	1-136-161-00	FILM	0.047uF	5%	50V	C821	1-136-497-81	FILM	0.1uF	5%	50V
C233	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C830	1-126-786-11	ELECT	47uF	20%	16V
C234	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C901	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C301	1-126-794-11	ELECT	4.7uF	20%	50V	C902	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C302	1-126-794-11	ELECT	4.7uF	20%	50V	C907	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C303	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C908	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C304	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C909	1-130-471-00	MYLAR	0.001uF	5%	50V
C305	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C910	1-126-786-11	ELECT	47uF	20%	16V
C306	1-136-167-00	FILM	0.15uF	5%	50V	C911	1-126-960-11	ELECT	1uF	20%	50V
C307	1-136-167-00	FILM	0.15uF	5%	50V	C912	1-104-665-11	ELECT	100uF	20%	25V
C308	1-126-795-11	ELECT	10uF	20%	50V	C913	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C309	1-126-795-11	ELECT	10uF	20%	50V	C914	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C310	1-126-795-11	ELECT	10uF	20%	50V	C915	1-137-194-81	FILM	0.47uF	5%	50V
C311	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C916	1-131-731-11	ELECT	2200uF	20%	16V
C312	1-126-794-11	ELECT	4.7uF	20%	50V	C917	1-131-731-11	ELECT	2200uF	20%	16V
C313	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	C918	1-131-731-11	ELECT	2200uF	20%	16V
C315	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C919	1-131-731-11	ELECT	2200uF	20%	16V
C322	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C920	1-126-968-11	ELECT	100uF	20%	50V
C323	1-126-786-11	ELECT	47uF	20%	16V	C921	1-126-968-11	ELECT	100uF	20%	50V
C325	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	C922	1-136-497-81	FILM	0.1uF	5%	50V
C326	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C923	1-136-497-81	FILM	0.1uF	5%	50V
C327	1-136-497-81	FILM	0.1uF	5%	50V	C924	1-126-968-11	ELECT	100uF	20%	50V
C328	1-136-161-00	FILM	0.047uF	5%	50V	C925	1-126-968-11	ELECT	100uF	20%	50V
C333	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C928	1-136-497-81	FILM	0.1uF	5%	50V
C334	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C929	1-136-497-81	FILM	0.1uF	5%	50V
C401	1-126-794-11	ELECT	4.7uF	20%	50V	C930	1-126-942-61	ELECT	1000uF	20%	25V
C402	1-126-794-11	ELECT	4.7uF	20%	50V	C931	1-126-942-61	ELECT	1000uF	20%	25V
C403	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C933	1-136-161-00	FILM	0.047uF	5%	50V
C404	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C937	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C405	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C950	1-100-199-31	ELECT	2200uF	20%	50V

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C951	1-100-199-31	ELECT	2200uF 20% 50V	D917	8-719-987-67	DIODE 11EFS2	
C952	1-100-199-31	ELECT	2200uF 20% 50V	D918	8-719-987-67	DIODE 11EFS2	
C953	1-100-199-31	ELECT	2200uF 20% 50V			< FUSE >	
C958	1-100-199-31	ELECT	2200uF 20% 50V	△F901	1-576-256-11	FUSE (BLADE TYPE) (AUTO FUSE) (25A)	
C959	1-100-199-31	ELECT	2200uF 20% 50V	△F902	1-576-256-11	FUSE (BLADE TYPE) (AUTO FUSE) (25A)	
C971	1-136-497-81	FILM	0.1uF 5% 50V			< IC >	
C972	1-136-497-81	FILM	0.1uF 5% 50V	IC801	8-759-385-17	IC NJM4580E(TE2)	
C975	1-163-275-11	CERAMIC CHIP	0.001uF 5% 50V	IC802	8-759-385-17	IC NJM4580E(TE2)	
C976	1-163-275-11	CERAMIC CHIP	0.001uF 5% 50V	IC806	8-759-385-17	IC NJM4580E(TE2)	
C980	1-125-969-11	CERAMIC	680PF 10% 1KV	IC807	8-759-385-17	IC NJM4580E(TE2)	
C981	1-125-969-11	CERAMIC	680PF 10% 1KV	IC808	8-759-385-17	IC NJM4580E(TE2)	
C982	1-125-969-11	CERAMIC	680PF 10% 1KV	IC809	8-759-385-17	IC NJM4580E(TE2)	
C983	1-125-969-11	CERAMIC	680PF 10% 1KV	IC811	8-759-385-17	IC NJM4580E(TE2)	
		< TERMINAL BOARD >		IC812	8-759-385-17	IC NJM4580E(TE2)	
CN800	1-694-983-11	TERMINAL BOARD (3P+FUSE)	(REM,+12V,GND,25A,25A)	IC813	8-759-385-17	IC NJM4580E(TE2)	
CN810	1-694-985-11	TERMINAL BOARD (4P)	(SPEAKER OUT (FRONT))	IC814	8-759-385-17	IC NJM4580E(TE2)	
CN811	1-694-985-11	TERMINAL BOARD (4P)	(SPEAKER OUT (REAR))	IC901	6-703-643-01	IC TL594INSR	
		< CONNECTOR >				< PHOTO TRANSISTOR >	
CN850	1-506-468-11	PIN, CONNECTOR 3P		IC902	8-719-800-42	PHOTO TRANSISTOR TLP521-1-A	
CNP101	1-784-917-11	PIN, CONNECTOR (PWB) 9P				< JUMPER RESISTOR >	
		< JACK >		JR1	1-216-296-11	SHORT CHIP 0	
CNJ100	1-779-078-41	JACK, PIN 4P (INPUT)		JR2	1-216-295-11	SHORT CHIP 0	
		< DIODE >		JR3	1-216-296-11	SHORT CHIP 0	
D101	8-719-016-74	DIODE 1SS352		JR4	1-216-296-11	SHORT CHIP 0	
D141	8-719-017-03	DIODE 02DZ4.7-TPH3		JR5	1-216-296-11	SHORT CHIP 0	
D201	8-719-016-74	DIODE 1SS352		JR6	1-216-296-11	SHORT CHIP 0	
D241	8-719-017-03	DIODE 02DZ4.7-TPH3		JR7	1-216-295-11	SHORT CHIP 0	
D301	8-719-016-74	DIODE 1SS352		JR8	1-216-295-11	SHORT CHIP 0	
D341	8-719-017-03	DIODE 02DZ4.7-TPH3		JR9	1-216-296-11	SHORT CHIP 0	
D401	8-719-016-74	DIODE 1SS352		JR10	1-216-295-11	SHORT CHIP 0	
D441	8-719-017-03	DIODE 02DZ4.7-TPH3		JR11	1-216-295-11	SHORT CHIP 0	
D801	8-719-065-18	DIODE 02DZ6.8-Y(TPH3)		JR12	1-216-296-11	SHORT CHIP 0	
D802	8-719-016-74	DIODE 1SS352		JR13	1-216-296-11	SHORT CHIP 0	
D805	8-719-016-74	DIODE 1SS352		JR14	1-216-295-11	SHORT CHIP 0	
D824	8-719-016-74	DIODE 1SS352		JR15	1-216-296-11	SHORT CHIP 0	
D825	8-719-016-74	DIODE 1SS352		JR16	1-216-296-11	SHORT CHIP 0	
D826	8-719-016-74	DIODE 1SS352				< COIL >	
D827	8-719-016-74	DIODE 1SS352		L901	1-419-851-12	INDUCTOR 50uH	
D828	8-719-016-74	DIODE 1SS352		L902	1-410-396-41	FERRITE 0.45uH	
D829	8-719-016-74	DIODE 1SS352				< PILOT LAMP >	
D901	8-719-065-18	DIODE 02DZ6.8-Y(TPH3)		PL802	1-517-156-91	LAMP, PILOT (65mA/14V)	
D902	8-719-065-46	DIODE 02DZ16-Z(TPH3)				< TRANSISTOR >	
D903	8-719-987-67	DIODE 11EFS2		Q101	8-729-107-45	TRANSISTOR 2SC3624A-L16	
D904	8-719-987-67	DIODE 11EFS2		Q102	8-729-202-38	TRANSISTOR 2SC3326N-A	
D905	8-719-079-92	DIODE 1SR159-200TE25		Q103	8-729-014-87	TRANSISTOR 2SC4207-YGRTE85R	
D906	8-719-079-92	DIODE 1SR159-200TE25		Q104	8-729-014-85	TRANSISTOR 2SA1618-YGRTE85R	
D907	8-719-079-00	DIODE FCH10A15		Q107	8-729-046-32	TRANSISTOR 2SA1201-Y(TE12L.C)	
D908	8-719-079-01	DIODE FRH10A15		Q108	8-729-051-72	TRANSISTOR 2SC2881-Y(TE12L.C)	
D911	8-719-079-92	DIODE 1SR159-200TE25		Q109	8-729-924-78	FET IRF540	
D912	8-719-079-92	DIODE 1SR159-200TE25					
D913	8-719-065-43	DIODE 02DZ15-Z(TPH3)					
D914	8-719-065-43	DIODE 02DZ15-Z(TPH3)					

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q110	8-729-053-85	FET IRF9540				< RESISTOR >	
Q111	8-729-041-66	TRANSISTOR 2SC4015TV2		R101	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q112	8-729-200-13	TRANSISTOR 2SC2712-Y		R102	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q201	8-729-107-45	TRANSISTOR 2SC3624A-L16		R103	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q202	8-729-202-38	TRANSISTOR 2SC3326N-A		R104	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q203	8-729-014-87	TRANSISTOR 2SC4207-YGRTE85R		R105	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q204	8-729-014-85	TRANSISTOR 2SA1618-YGRTE85R		R106	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q207	8-729-046-32	TRANSISTOR 2SA1201-Y(TE12L.C)		R111	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q208	8-729-051-72	TRANSISTOR 2SC2881-Y(TE12L.C)		R113	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q209	8-729-924-78	FET IRF540		R114	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q210	8-729-053-85	FET IRF9540		R115	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q211	8-729-041-66	TRANSISTOR 2SC4015TV2		R117	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q212	8-729-200-13	TRANSISTOR 2SC2712-Y		R118	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q301	8-729-107-45	TRANSISTOR 2SC3624A-L16		R119	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q302	8-729-202-38	TRANSISTOR 2SC3326N-A		R120	1-216-819-11	METAL CHIP 680 5%	1/10W
Q303	8-729-014-87	TRANSISTOR 2SC4207-YGRTE85R		R121	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q304	8-729-014-85	TRANSISTOR 2SA1618-YGRTE85R		R122	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q307	8-729-046-32	TRANSISTOR 2SA1201-Y(TE12L.C)		R124	1-216-033-00	RES-CHIP 220 5%	1/10W
Q308	8-729-051-72	TRANSISTOR 2SC2881-Y(TE12L.C)		R126	1-216-214-00	RES-CHIP 4.7K 5%	1/8W
Q309	8-729-924-78	FET IRF540		R127	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q310	8-729-053-85	FET IRF9540		R128	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q311	8-729-041-66	TRANSISTOR 2SC4015TV2		R129	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q312	8-729-200-13	TRANSISTOR 2SC2712-Y		R130	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q401	8-729-107-45	TRANSISTOR 2SC3624A-L16		R131	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q402	8-729-202-38	TRANSISTOR 2SC3326N-A		R132	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q403	8-729-014-87	TRANSISTOR 2SC4207-YGRTE85R		R133	1-249-409-11	CARBON 220 5%	1/4W
Q404	8-729-014-85	TRANSISTOR 2SA1618-YGRTE85R		R134	1-249-409-11	CARBON 220 5%	1/4W
Q407	8-729-046-32	TRANSISTOR 2SA1201-Y(TE12L.C)		R135	1-216-809-11	METAL CHIP 100 5%	1/10W
Q408	8-729-051-72	TRANSISTOR 2SC2881-Y(TE12L.C)		R136	1-216-809-11	METAL CHIP 100 5%	1/10W
Q409	8-729-924-78	FET IRF540		R137	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q410	8-729-053-85	FET IRF9540		R138	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q411	8-729-041-66	TRANSISTOR 2SC4015TV2		R139	1-249-417-11	CARBON 1K 5%	1/4W
Q412	8-729-200-13	TRANSISTOR 2SC2712-Y		R140	1-249-421-11	CARBON 2.2K 5%	1/4W
Q801	8-729-216-22	TRANSISTOR 2SA1162-G		R142	1-216-033-00	RES-CHIP 220 5%	1/10W
Q802	8-729-200-13	TRANSISTOR 2SC2712-Y		R144	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q803	8-729-200-13	TRANSISTOR 2SC2712-Y		R145	1-216-830-11	METAL CHIP 5.6K 5%	1/10W
Q804	8-729-216-22	TRANSISTOR 2SA1162-G		R150	1-216-853-11	METAL CHIP 470K 5%	1/10W
Q805	8-729-200-13	TRANSISTOR 2SC2712-Y		R151	1-215-857-31	METAL OXIDE 10 5%	1W F
Q810	8-729-051-72	TRANSISTOR 2SC2881-Y(TE12L.C)		R158	1-205-991-11	METAL 0.1X2 5W	
Q812	8-729-200-13	TRANSISTOR 2SC2712-Y		R201	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q813	8-729-216-22	TRANSISTOR 2SA1162-G		R202	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q814	8-729-200-13	TRANSISTOR 2SC2712-Y		R203	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q850	8-729-216-22	TRANSISTOR 2SA1162-G		R204	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q901	8-729-052-82	TRANSISTOR KTA1281Y-AT		R205	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q902	8-729-216-22	TRANSISTOR 2SA1162-G		R206	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q903	8-729-200-13	TRANSISTOR 2SC2712-Y		R211	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q904	6-550-341-01	FET FKV550N		R213	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q905	6-550-341-01	FET FKV550N		R214	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q906	6-550-341-01	FET FKV550N		R215	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q907	6-550-341-01	FET FKV550N		R217	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q908	8-729-202-38	TRANSISTOR 2SC3326N-A		R218	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q909	8-729-202-38	TRANSISTOR 2SC3326N-A		R219	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q910	8-729-209-15	TRANSISTOR 2SD2012		R220	1-216-819-11	METAL CHIP 680 5%	1/10W
Q911	8-729-209-60	TRANSISTOR 2SB1375		R221	1-216-837-11	METAL CHIP 22K 5%	1/10W
Q912	8-729-051-72	TRANSISTOR 2SC2881-Y(TE12L.C)		R222	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q913	8-729-051-72	TRANSISTOR 2SC2881-Y(TE12L.C)		R224	1-216-033-00	RES-CHIP 220 5%	1/10W
				R226	1-216-821-11	METAL CHIP 1K 5%	1/10W

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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R227	1-216-837-11	METAL CHIP	22K	5%	1/10W	R342	1-216-033-00	RES-CHIP	220	5%	1/10W
R228	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R344	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R229	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R345	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R230	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R350	1-216-853-11	METAL CHIP	470K	5%	1/10W
R231	1-216-837-11	METAL CHIP	22K	5%	1/10W	R351	1-215-857-31	METAL OXIDE	10	5%	1W F
R232	1-216-837-11	METAL CHIP	22K	5%	1/10W	R358	1-205-991-11	METAL	0.1X2		5W
R233	1-249-409-11	CARBON	220	5%	1/4W	R401	1-216-837-11	METAL CHIP	22K	5%	1/10W
R234	1-249-409-11	CARBON	220	5%	1/4W	R402	1-216-837-11	METAL CHIP	22K	5%	1/10W
R235	1-216-809-11	METAL CHIP	100	5%	1/10W	R403	1-216-845-11	METAL CHIP	100K	5%	1/10W
R236	1-216-809-11	METAL CHIP	100	5%	1/10W	R404	1-216-845-11	METAL CHIP	100K	5%	1/10W
R237	1-216-845-11	METAL CHIP	100K	5%	1/10W	R405	1-216-837-11	METAL CHIP	22K	5%	1/10W
R238	1-216-845-11	METAL CHIP	100K	5%	1/10W	R406	1-216-837-11	METAL CHIP	22K	5%	1/10W
R239	1-249-417-11	CARBON	1K	5%	1/4W	R407	1-216-833-11	METAL CHIP	10K	5%	1/10W
R240	1-249-421-11	CARBON	2.2K	5%	1/4W	R408	1-216-837-11	METAL CHIP	22K	5%	1/10W
R242	1-216-033-00	RES-CHIP	220	5%	1/10W	R409	1-216-833-11	METAL CHIP	10K	5%	1/10W
R244	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R410	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R245	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R411	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R250	1-216-853-11	METAL CHIP	470K	5%	1/10W	R412	1-216-833-11	METAL CHIP	10K	5%	1/10W
R251	1-215-857-31	METAL OXIDE	10	5%	1W F	R413	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R258	1-205-991-11	METAL	0.1X2		5W	R414	1-216-845-11	METAL CHIP	100K	5%	1/10W
R301	1-216-837-11	METAL CHIP	22K	5%	1/10W	R415	1-216-845-11	METAL CHIP	100K	5%	1/10W
R302	1-216-837-11	METAL CHIP	22K	5%	1/10W	R416	1-216-845-11	METAL CHIP	100K	5%	1/10W
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W	R417	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R304	1-216-845-11	METAL CHIP	100K	5%	1/10W	R418	1-216-833-11	METAL CHIP	10K	5%	1/10W
R305	1-216-837-11	METAL CHIP	22K	5%	1/10W	R419	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R306	1-216-837-11	METAL CHIP	22K	5%	1/10W	R420	1-216-819-11	METAL CHIP	680	5%	1/10W
R307	1-216-833-11	METAL CHIP	10K	5%	1/10W	R421	1-216-837-11	METAL CHIP	22K	5%	1/10W
R308	1-216-837-11	METAL CHIP	22K	5%	1/10W	R422	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R309	1-216-833-11	METAL CHIP	10K	5%	1/10W	R424	1-216-033-00	RES-CHIP	220	5%	1/10W
R310	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R426	1-216-821-11	METAL CHIP	1K	5%	1/10W
R311	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R427	1-216-837-11	METAL CHIP	22K	5%	1/10W
R312	1-216-833-11	METAL CHIP	10K	5%	1/10W	R428	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R313	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R429	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R314	1-216-845-11	METAL CHIP	100K	5%	1/10W	R430	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R315	1-216-845-11	METAL CHIP	100K	5%	1/10W	R431	1-216-837-11	METAL CHIP	22K	5%	1/10W
R316	1-216-845-11	METAL CHIP	100K	5%	1/10W	R432	1-216-837-11	METAL CHIP	22K	5%	1/10W
R317	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R433	1-249-409-11	CARBON	220	5%	1/4W
R318	1-216-833-11	METAL CHIP	10K	5%	1/10W	R434	1-249-409-11	CARBON	220	5%	1/4W
R319	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R435	1-216-809-11	METAL CHIP	100	5%	1/10W
R320	1-216-819-11	METAL CHIP	680	5%	1/10W	R436	1-216-809-11	METAL CHIP	100	5%	1/10W
R321	1-216-837-11	METAL CHIP	22K	5%	1/10W	R437	1-216-845-11	METAL CHIP	100K	5%	1/10W
R322	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R438	1-216-845-11	METAL CHIP	100K	5%	1/10W
R324	1-216-033-00	RES-CHIP	220	5%	1/10W	R439	1-249-417-11	CARBON	1K	5%	1/4W
R326	1-216-821-11	METAL CHIP	1K	5%	1/10W	R440	1-249-421-11	CARBON	2.2K	5%	1/4W
R327	1-216-837-11	METAL CHIP	22K	5%	1/10W	R442	1-216-033-00	RES-CHIP	220	5%	1/10W
R328	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R444	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R329	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R445	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R330	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R450	1-216-853-11	METAL CHIP	470K	5%	1/10W
R331	1-216-837-11	METAL CHIP	22K	5%	1/10W	R451	1-215-857-31	METAL OXIDE	10	5%	1W F
R332	1-216-837-11	METAL CHIP	22K	5%	1/10W	R458	1-205-991-11	METAL	0.1X2		5W
R333	1-249-409-11	CARBON	220	5%	1/4W	R800	1-216-857-11	METAL CHIP	1M	5%	1/10W
R334	1-249-409-11	CARBON	220	5%	1/4W	R801	1-216-821-11	METAL CHIP	1K	5%	1/10W
R335	1-216-809-11	METAL CHIP	100	5%	1/10W	R802	1-216-833-11	METAL CHIP	10K	5%	1/10W
R336	1-216-809-11	METAL CHIP	100	5%	1/10W	R803	1-216-841-11	METAL CHIP	47K	5%	1/10W
R337	1-216-845-11	METAL CHIP	100K	5%	1/10W	R804	1-216-841-11	METAL CHIP	47K	5%	1/10W
R338	1-216-845-11	METAL CHIP	100K	5%	1/10W	R805	1-216-839-11	METAL CHIP	33K	5%	1/10W
R339	1-249-417-11	CARBON	1K	5%	1/4W	R806	1-216-833-11	METAL CHIP	10K	5%	1/10W
R340	1-249-421-11	CARBON	2.2K	5%	1/4W	R807	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description	Remark
R808	1-216-833-11	METAL CHIP	10K 5% 1/10W
R809	1-216-833-11	METAL CHIP	10K 5% 1/10W
R810	1-216-857-11	METAL CHIP	1M 5% 1/10W
R811	1-249-421-11	CARBON	2.2K 5% 1/4W
R813	1-216-815-11	METAL CHIP	330 5% 1/10W
R824	1-216-845-11	METAL CHIP	100K 5% 1/10W
R825	1-216-833-11	METAL CHIP	10K 5% 1/10W
R826	1-216-833-11	METAL CHIP	10K 5% 1/10W
R827	1-216-833-11	METAL CHIP	10K 5% 1/10W
R828	1-216-833-11	METAL CHIP	10K 5% 1/10W
R829	1-216-833-11	METAL CHIP	10K 5% 1/10W
R830	1-216-833-11	METAL CHIP	10K 5% 1/10W
R838	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R839	1-216-857-11	METAL CHIP	1M 5% 1/10W
R841	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R843	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R845	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R847	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R850	1-216-833-11	METAL CHIP	10K 5% 1/10W
R854	1-216-841-11	METAL CHIP	47K 5% 1/10W
R855	1-216-841-11	METAL CHIP	47K 5% 1/10W
R856	1-216-841-11	METAL CHIP	47K 5% 1/10W
R870	1-216-295-11	SHORT CHIP	0
R901	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R902	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R903	1-216-836-11	METAL CHIP	18K 5% 1/10W
R904	1-216-836-11	METAL CHIP	18K 5% 1/10W
R905	1-216-849-11	METAL CHIP	220K 5% 1/10W
R906	1-216-210-00	RES-CHIP	3.3K 5% 1/8W
R907	1-249-417-11	CARBON	1K 5% 1/4W
R909	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R910	1-216-833-11	METAL CHIP	10K 5% 1/10W
R911	1-216-833-11	METAL CHIP	10K 5% 1/10W
R912	1-249-411-11	CARBON	330 5% 1/4W
R913	1-216-819-11	METAL CHIP	680 5% 1/10W
R914	1-216-819-11	METAL CHIP	680 5% 1/10W
R915	1-216-833-11	METAL CHIP	10K 5% 1/10W
R916	1-216-150-11	RES-CHIP	10 5% 1/8W
R917	1-216-819-11	METAL CHIP	680 5% 1/10W
R918	1-216-819-11	METAL CHIP	680 5% 1/10W
R920	1-216-150-11	RES-CHIP	10 5% 1/8W
R921	1-216-150-11	RES-CHIP	10 5% 1/8W
R922	1-216-150-11	RES-CHIP	10 5% 1/8W
R923	1-216-065-11	RES-CHIP	4.7K 5% 1/10W
R924	1-216-065-11	RES-CHIP	4.7K 5% 1/10W
R925	1-216-206-00	RES-CHIP	2.2K 5% 1/8W
R927	1-216-206-00	RES-CHIP	2.2K 5% 1/8W
R929	1-216-013-00	RES-CHIP	33 5% 1/10W
R930	1-216-013-00	RES-CHIP	33 5% 1/10W
R931	1-216-821-11	METAL CHIP	1K 5% 1/10W
R932	1-216-821-11	METAL CHIP	1K 5% 1/10W
R933	1-216-821-11	METAL CHIP	1K 5% 1/10W
R934	1-216-821-11	METAL CHIP	1K 5% 1/10W
< CERMET RESISTOR >			
RV104	1-241-762-11	RES, ADJ, CERMET 2.2K	
RV204	1-241-762-11	RES, ADJ, CERMET 2.2K	
RV304	1-241-762-11	RES, ADJ, CERMET 2.2K	

Ref. No.	Part No.	Description	Remark
RV404	1-241-762-11	RES, ADJ, CERMET 2.2K	
< VARIABLE RESISTOR >			
RV801	1-225-647-11	RES, VAR, CARBON 20KX4 (FILTER (FRONT))	
RV802	1-225-648-12	RES, VAR, CARBON 5KX2 (LOW BOOST (40Hz) (FRONT))	
RV803	1-225-648-12	RES, VAR, CARBON 5KX2 (LEVEL (FRONT))	
RV804	1-225-647-11	RES, VAR, CARBON 20KX4 (FILTER (REAR))	
RV805	1-225-648-12	RES, VAR, CARBON 5KX2 (LOW BOOST (40Hz) (REAR))	
RV806	1-225-648-12	RES, VAR, CARBON 5KX2 (LEVEL (REAR))	
< SWITCH >			
S801	1-692-990-21	SWITCH, SLIDE (FILTER (FRONT))	
S802	1-692-938-11	SWITCH, SLIDE (FILTER (REAR))	
< TRANSFORMER >			
T801	1-439-636-11	TRANSFORMER, DC-DC CONVERTER	
< THERMISTOR (NEGATIVE) >			
THN801	1-804-301-11	THERMISTOR, CHIP (NEGATIVE)	
THN804	1-804-301-11	THERMISTOR, CHIP (NEGATIVE)	
THN805	1-804-301-11	THERMISTOR, CHIP (NEGATIVE)	
THN806	1-804-301-11	THERMISTOR, CHIP (NEGATIVE)	
THN807	1-804-301-11	THERMISTOR, CHIP (NEGATIVE)	

ACCESSORIES			

2-514-766-11		MANUAL, INSTRUCTION (ENGLISH,FRENCH)	
2-514-766-21		MANUAL, INSTRUCTION (GERMAN,ITALIAN)	(AEP,UK,E)
2-514-766-31		MANUAL, INSTRUCTION (SPANISH, TRADITIONAL CHINESE)	(AEP,UK,E)
2-514-766-41		MANUAL, INSTRUCTION (DUTCH,PORTUGUESE)	(AEP,UK,E)
2-514-766-51		MANUAL, INSTRUCTION (SWEDISH,POLISH)	(AEP,UK,E)
2-514-766-61		MANUAL, INSTRUCTION (GREEK,RUSSIAN)	(AEP,UK,E)

PARTS FOR INSTALLATION AND CONNECTIONS			

101	3-367-410-11	SCREW (DIA. 5X15), TAPPING (MOUNTING SCREW)	
102	1-823-952-11	CORD (WITH CONNECTOR) (0.2m)	
103	3-249-791-01	COVER (POWER)	

