

XM-405EQX

SERVICE MANUAL

*US Model
Canadian Model
AEP Model
UK Model
E Model*



SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US, Canadian model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

40 watts/100 watts per channel minimum continuous average power into 4 ohms, 5 channels driven from 20 Hz to 20 kHz/200 Hz with no more than 0.04% total harmonic distortion per Car Audio Ad Hoc Committee standards.

Other Specifications

Circuit system	OTL (output transformerless) circuit	Input level adjustment range	0.2 – 4.0 V (RCA pin jacks) 0.4 – 8.0 V (High level input)
Inputs	Pulse power supply RCA pin jacks	High-pass filter	50 – 200 Hz, –12 dB/oct
Outputs	High level input connector	Low-pass filter	50 – 200 Hz, –12 dB/oct
Speaker impedance	Speaker terminals 2 – 8 Ω (stereo) 4 – 8 Ω (when used as a bridging amplifier)	Low boost	0 – 10 dB (40 Hz)
Maximum outputs	80 watts × 4 + 200 watts × 1 (at 4 Ω)	Power requirements	12 V DC car battery (negative ground)
Rated outputs (supply voltage at 14.4 V)		Power supply voltage	10.5 – 16 V
5 Speakers:	40 watts × 4 (20 Hz – 20 kHz, 0.04% THD, at 4 Ω) + 100 watts × 1 (20 – 200 Hz, 0.04% THD, at 4 Ω) 50 watts × 4 (20 Hz – 20 kHz, 0.1% THD, at 2 Ω) + 125 watts × 1 (20 – 200 Hz, 0.1% THD, at 2 Ω)	Current drain	at rated output: 33 A Remote input: 1.5 mA
3 Speakers:	100 watts × 2 (20 Hz – 20 kHz, 0.1% THD, at 4 Ω) + 100 watts × 1 (20 – 200 Hz, 0.04% THD, at 4 Ω)	Dimensions	Approx. 260 × 55 × 450 mm (w/h/d) (10 1/4 × 2 1/4 × 17 3/4 in.) not incl. projecting parts and controls
Frequency response	5 Hz – 100 kHz (±3 dB)	Mass	Approx. 4.7 kg (10 lb. 6 oz.) not incl. accessories
Harmonic distortion	0.005% or less (at 1 kHz, 4 Ω)	Supplied accessories	Mounting screws (4), Terminal cap (1)

Design and specifications are subject to change without notice.

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.

STEREO POWER AMPLIFIER

SONY®



MICROFILM

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SECTION 1

GENERAL

This section is extracted from instruction manual.

Location and Function of Controls

① POWER/PROTECTOR indicator

- OVER CURRENT lights up green during normal operation. The color will change from green to red when receiving a powerful signal.
- OFF SET lights up green during normal operation. The color will change from green to red when the voltage going out to the speaker terminal or the pin jack is too high.
- THERMAL lights up green during normal operation. The color will change from green to red when the temperature rises to an unsafe level. The color will return to green when the temperature returns to normal.

② Power level indicator

Indicates the output levels of both the left and right sides. The scale is calibrated for use with 4 ohm speakers.

③ DIRECT switch

When the DIRECT switch is set to ON, the signal does not go through the high-pass filter and equalizer circuit.

④⑩ LEVEL adjustment control

The input level can be adjusted with this control when using source equipment made by other manufacturers. Turn it to MAX when the output level of the car audio seems low. To reduce noise, turn the LEVEL control (gain) of the amplifier to MIN and the volume of the car audio up.

⑤ FILTER selector switch

When in the HPP position, the filter is set to high-pass. When the DIRECT switch is set to ON, these filters do not work.

⑥⑨ Cut-off frequency adjustment control

Sets the cut-off frequency (50–200 Hz) for the high-pass or low-pass filters.

⑦ EQUALIZER level control

You can change the settings of the five band (50 Hz, 200 Hz, 800 Hz, 3.2 kHz, 12.8 kHz) equalizer. When the DIRECT switch is set to ON, this circuit is not activated.

⑧ LOWBOOST level control

Turn this control to boost the frequencies around 40 Hz to a maximum of 10 dB.

⑪ INPUT MODE select switch

When no input lead is connected to SUBWOOFER INPUT, the switch can be used to change the SUBWOOFER OUTPUT as follows.

FRONT : Outputs the signal that has been input to the FRONT input jack.

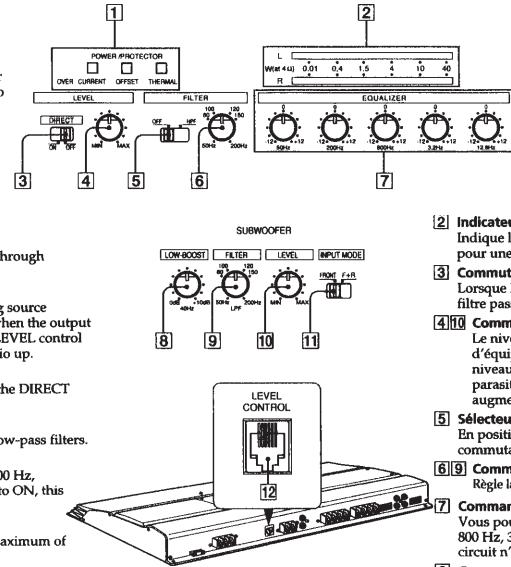
F+R : Outputs the signal that has been input to the FRONT and REAR input jacks.

⑫ SUBWOOFER LEVEL CONTROL connecting terminal (US model only)

When the optional subwoofer level controller is connected to this terminal, the subwoofer level can be adjusted with it. For details on the optional Subwoofer level controller, consult your nearest Sony Dealer.

Note

If you do not use the high-pass filter and equalizer circuit, set the DIRECT switch to ON for more enjoyable high quality sound.



Emplacement et fonction des commandes

① Indicateur POWER/PROTECTOR

• OVER CURRENT s'allume en vert en cours de fonctionnement normal. La couleur passe du vert au rouge lors de la réception d'un signal puissant.

• OFFSET s'allume en vert en cours de fonctionnement normal. La couleur passe du vert au rouge lorsque la tension transmise via la borne de haut-parleur ou la prise à broche est trop élevée.

• THERMAL s'allume en vert en cours de fonctionnement normal. La couleur passe du vert au rouge lorsque la température dépasse le niveau de sécurité. La couleur revient au vert dès que la température est redevenue normale.

② Indicateur de niveau de puissance

Indique les niveaux de sortie des côtés gauche et droit. L'échelle est graduée pour une utilisation avec des haut-parleurs de 4 ohms.

③ Commutateur DIRECT

Lorsque le commutateur DIRECT est réglé sur ON, le signal ne passe pas par le filtre passe-bas, le filtre passe-haut et le circuit d'égalisation.

④⑩ Commande de réglage LEVEL

Le niveau d'entrée peut se régler avec cette commande lors de l'utilisation d'équipements source d'autres fabricants. Mettez-le sur MAX lorsque le niveau de sortie de l'installation audio paraît faible. Pour réduire les parasites, tournez la commande LEVEL (gain) de l'amplificateur sur MIN et augmentez le volume sur l'autoradio.

⑤ Sélecteur FILTER

En position HPF, le filtre est réglé en mode passe-haut. Lorsque le commutateur DIRECT est réglé sur ON, ces filtres sont inopérants.

⑥⑨ Commandes de réglage de la fréquence de coupure

Règle la fréquence de coupure (50–200 Hz) pour les filtres passe-bas ou passe-haut.

⑦ Commande de niveau EQUALIZER

Vous pouvez changer les réglages de l'égaliseur à cinq bandes (50 Hz, 200 Hz, 800 Hz, 3.2 kHz, 12.8 kHz). Lorsque le commutateur DIRECT est activé, ce circuit n'est pas actif.

⑧ Commande de niveau LOW BOOST

Tournez cette commande pour amplifier les fréquences autour de 40 Hz à un maximum de 10 dB.

⑪ Sélecteur INPUT MODE

Si aucun fil d'entrée n'est raccordé à SUBWOOFER INPUT, le sélecteur peut être utilisé pour changer SUBWOOFER OUTPUT comme suit.

FRONT: Sortie du signal entré via la prise d'entrée FRONT.

F+R: Sortie du signal entré via les prises d'entrée FRONT et REAR.

⑫ SUBWOOFER LEVEL CONTROL CONNECTING TERMINAL (modèle pour les USA uniquement)

Si une commande de niveau de subwoofer en option est raccordée à cette borne, le niveau du subwoofer peut être ajusté à l'aide de la commande. Pour plus de détails sur la commande de niveau de subwoofer en option, consultez votre revendeur Sony.

Remarque

Si vous n'utilisez pas le filtre passe-haut et le circuit égaliseur, réglez le commutateur DIRECT sur ON pour exploiter pleinement la qualité sonore.

Connections

Connexions

Precautions

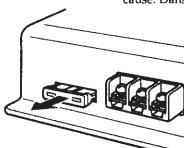
- This unit is designed for negative ground 12 V DC operation only.
- Use speakers with an impedance of 2 to 8 ohms (4 to 8 ohms when used as a bridging amplifier).
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers.
- 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 radio or antenna, interference may occur. In this case, relocate the amplifier away from the car radio or antenna.
- If no power is being supplied to the master 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 circuit 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 the fuse. 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 activates in the following cases:

- when the unit is overheated
- when a DC current is generated
- when the speaker terminals are short circuited.

The color of the POWER/PROTECTOR indicator will change from green to 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.

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 \ominus terminal of the speaker system to the car chassis, and do not connect the \ominus terminal of the right speaker with that of the left speaker.
- Install the input and output cords away from the power supply lead as running them close together can generate some interference noise.
- This unit is a high-power 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 lead until all the other leads have been connected.

Précautions

- Cet appareil est conçu pour fonctionner uniquement sur courant continu de 12 volts avec masse négative.
- Utilisez des haut-parleurs d'une impédance de 2 à 8 ohms (4 à 8 ohms lors de l'utilisation comme amplificateur en pont).
- Ne raccordez pas de haut-parleurs actifs (avec amplificateur intégré) aux bornes de haut-parleurs de cet appareil; ils pourraient être endommagés.
- N'installez pas l'appareil à un endroit exposé à:
 - des hautes températures comme sous le 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 et 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'appareil principal n'est pas alimenté, vérifiez les connexions.
- Cet amplificateur de puissance intègre un circuit de protection* destiné à protéger les transistors et les haut-parleurs en cas de dysfonctionnement de l'amplificateur. N'essayez pas de tester le circuit de protection en recourrant au dissipateur de chaleur ou en connectant des charges inappropriées.
- N'utilisez pas l'appareil sur une batterie défaillante, car sa performance maximale dépend d'une bonne alimentation en électricité.
- Pour des raisons de sécurité, écoutez l'autoradio à un volume modéré afin d'entendre les bruits extérieurs.

Remplacement du fusible

Si le fusible saute, vérifiez les connexions du fil d'alimentation et remplacez le fusible. Si le saute de nouveau, un mauvais circuit interne peut en être la cause. Dans ce cas, consultez votre concessionnaire Sony.

Avvertissement

En cas de remplacement du fusible, veillez à utiliser un fusible dont l'intensité correspond à celle inscrite sur le poste-fusible. N'utilisez jamais de fusible dont l'intensité dépasse celle 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.

La couleur du témoin POWER/PROTECTOR passe du vert au rouge et l'appareil s'éteint.

Si le cas se présente, coupez l'alimentation de l'appareil raccordez et éjectez la cassette ou le disque compact avant d'examiner la cause de la défaillance. Si l'amplificateur est trop chaud, attendez qu'il refroidisse.

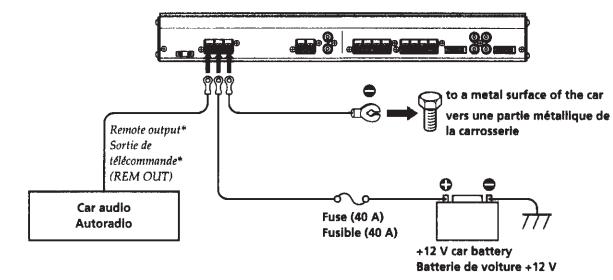
Pour toute question ou problème qui ne serait pas traité dans ce manuel, consultez votre concessionnaire Sony.

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 d'une capacité adéquate. Si vous utilisez des haut-parleurs de faible capacité, ils risquent d'être endommagés.
- Ne raccordez pas la borne \ominus des haut-parleurs à la carrosserie de la voiture ni la borne \ominus 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 ordinateur de bord pour la navigation ou à toute autre fin, 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 volts uniquement après avoir branché tous les autres fils.

Power Connection Leads

Câbles d'alimentation



* If you have the factory original or some other car audio without a remote output on the amplifier, connect the remote input terminal (REM OUT) to the accessory power supply.
* Si vous disposez du modèle d'origine ou d'un autre autoradio dont l'amplificateur ne comporte pas de sortie de télécommande, raccordez la borne d'entrée de télécommande (REMOTE) à la prise d'alimentation accessoires.

Notes on the power supply

- Connect the +12 V power supply lead only after all the other leads have been connected.
- Be sure to connect the ground lead of the unit securely to a metal surface of the car. A loose connection may cause the amplifier to malfunction.
- Be sure to connect the remote control lead of the car audio to the remote terminal.
- When using a car audio without a remote output on the amplifier, connect the remote input terminal (REMOTE) to the accessory power supply.
- Use the power supply lead with a fuse attached (40 A).
- Place the fuse in the power supply lead as close as possible to the car battery.
- Make sure that the leads to be connected to the +12 V and GND terminals of this unit are larger than 10-Gauge (AWG-10) or have a sectional area of more than 5 mm².
- When using the optional RC-46 power amplifier connecting cord, consult that manual for proper use.

Remarques sur l'alimentation électrique

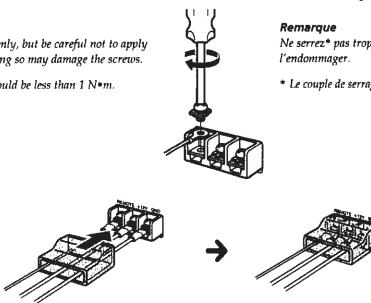
- Raccordez le câble d'alimentation +12 V uniquement après avoir réalisé toutes les autres connexions.
- Raccordez correctement le fil de masse de l'appareil à une surface métallique de la voiture. Une connexion lâche peut provoquer un dysfonctionnement de l'amplificateur.
- VEillez à raccorder le fil de télécommande de l'autoradio à la borne de télécommande.
- Si vous utilisez un autoradio dont l'amplificateur ne comporte pas de sortie de télécommande, raccordez la borne d'entrée de la télécommande (REMOTE) à la prise d'alimentation accessoires.
- Utilisez un câble d'alimentation muni d'un fusible (40 A).
- Fixez le câble d'alimentation le plus près possible de la batterie de voiture.
- Vous devez raccorder des câbles de calibre supérieurs à 10 (AWG-10) ou d'une section supérieure à 5 mm² aux bornes +12V et GND.
- Lorsque vous utilisez le cordon de raccordement pour amplificateur RC-46 en option, consultez le manuel pour une utilisation correcte.

Make the terminal connections as illustrated below.

Note

Tighten the screws firmly, but be careful not to apply too much force* as doing so may damage the screws.

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



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

Effectuez les connexions de la manière indiquée ci-dessous.

Remarque

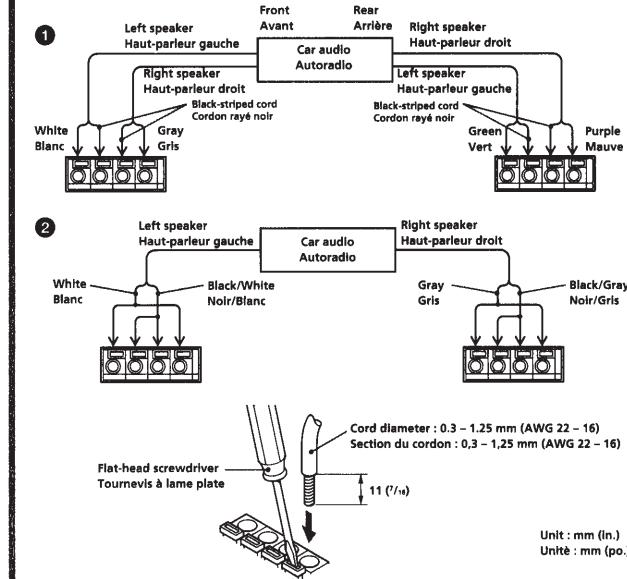
Ne serrez* pas trop fort la vis car vous pourriez l'endommager.

* Le couple de serrage devrait être inférieur à 1 N·m.

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

Direct speaker cord connection

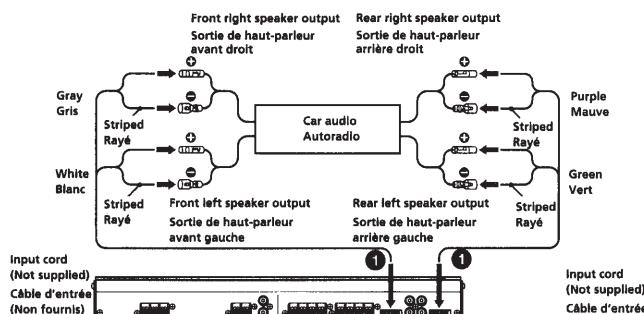
Cordon de haut-parleur directement dans le connecteur



Input Connections/Connexions d'entrée

High Level Input Connection (with Speaker Connection ①)

Connexion à l'entrée de haut niveau (avec connexion de haut-parleur ①)



Note

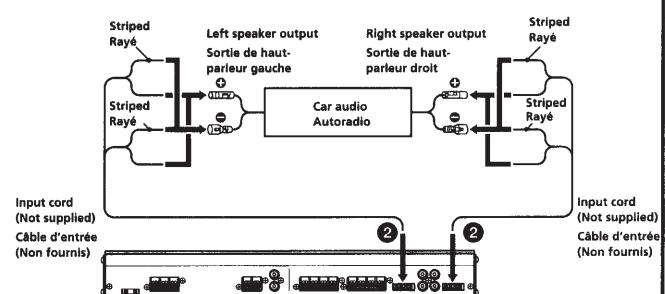
Make sure to set the INPUT MODE select switch to either "FRONT" or "F+R" (refer to "Location and Function of Controls".)

Remarque

Réglez le sélecteur INPUT MODE sur "FRONT" ou "F+R" (voir "Emplacement et fonction des commandes").

High Level Input Connection (with Speaker Connection ②)

Connexion à l'entrée de haut niveau (avec connexion de haut-parleur ②)



Notes

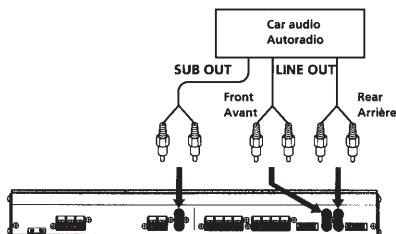
- Make sure that the right speaker output from the car audio is connected to the connector marked "REAR" on the unit, and the left to "FRONT".
- The INPUT MODE select switch must be set to "F+R" (refer to "Location and Function of Controls".)

Remarques

- Assurez-vous que la sortie de haut-parleur droite de l'autoradio est raccordée au connecteur "REAR" de l'appareil et la gauche à "FRONT".
- Le sélecteur INPUT MODL doit être réglé sur "F+R" (voir "Emplacement et fonction des commandes").

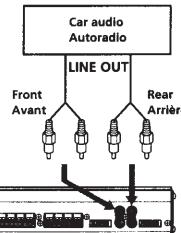
Line Input Connection (with Speaker Connection ①)

Connexion d'entrée de ligne (avec connexion de haut-parleur ①)



Line Input Connection (with Speaker Connection ①)

Connexion d'entrée de ligne (avec connexion de haut-parleur ①)



Note

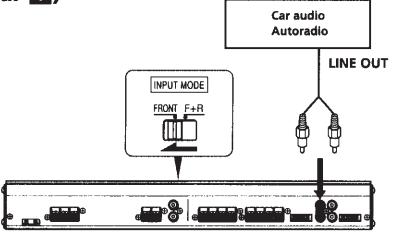
Make sure to set the INPUT MODE select switch to either "FRONT" or "F+R" (refer to "Location and Function of Controls".)

Remarque

Réglez le sélecteur INPUT MODE sur "FRONT" ou "F+R" (voir "Emplacement et fonction des commandes").

Line Input Connection (with Speaker Connection ①)

Connexion d'entrée de ligne (avec connexion de haut-parleur ①)
E



Note

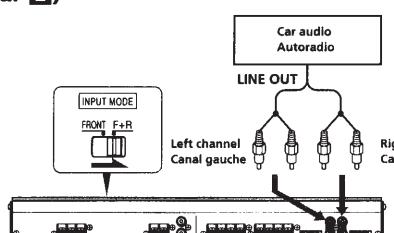
Make sure that the line output from the car audio is connected to the jack marked "FRONT INPUT" on the unit. In this system, the signals from FRONT INPUT are filtered through each circuit and output to the subwoofer and rear speaker.

Remarque

Assurez-vous que la sortie de ligne de l'autoradio est raccordée à la prise "FRONT INPUT" de l'appareil. Dans ce système, les signaux de FRONT INPUT sont filtrés par chaque circuit et sortis vers le subwoofer et le hautparleur arrière.

Line Input Connection (with Speaker Connection ②)

Connexion d'entrée de ligne (avec connexion de haut-parleur ②)
F



Note

The INPUT MODE select switch must be set to "F+R" (refer to "Location and Function of Controls".)

Remarque

Le sélecteur INPUT MODE doit être réglé sur "F+R" (voir "Emplacement et fonction des commandes").

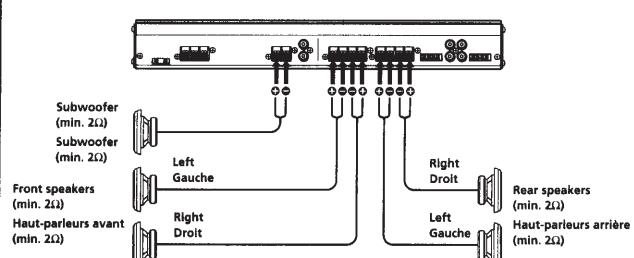
Speaker Connections/Raccordement de haut-parleurs

5-Speaker System (with Input Connection A, C, D or E)

Système à 5 haut-parleurs (avec connexion d'entrée A, C, D ou E)
1

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".

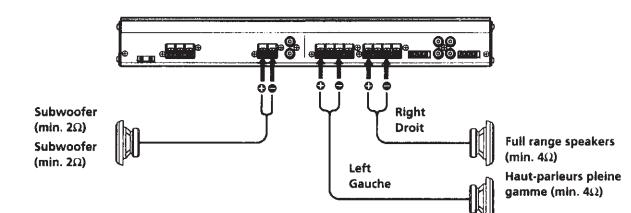


3-Speaker System (with Input Connection B or F)

Système à 3 haut-parleurs (avec connexion d'entrée B ou F)
2

For details on the settings of switches and controls, refer to "Location and Function of Controls."

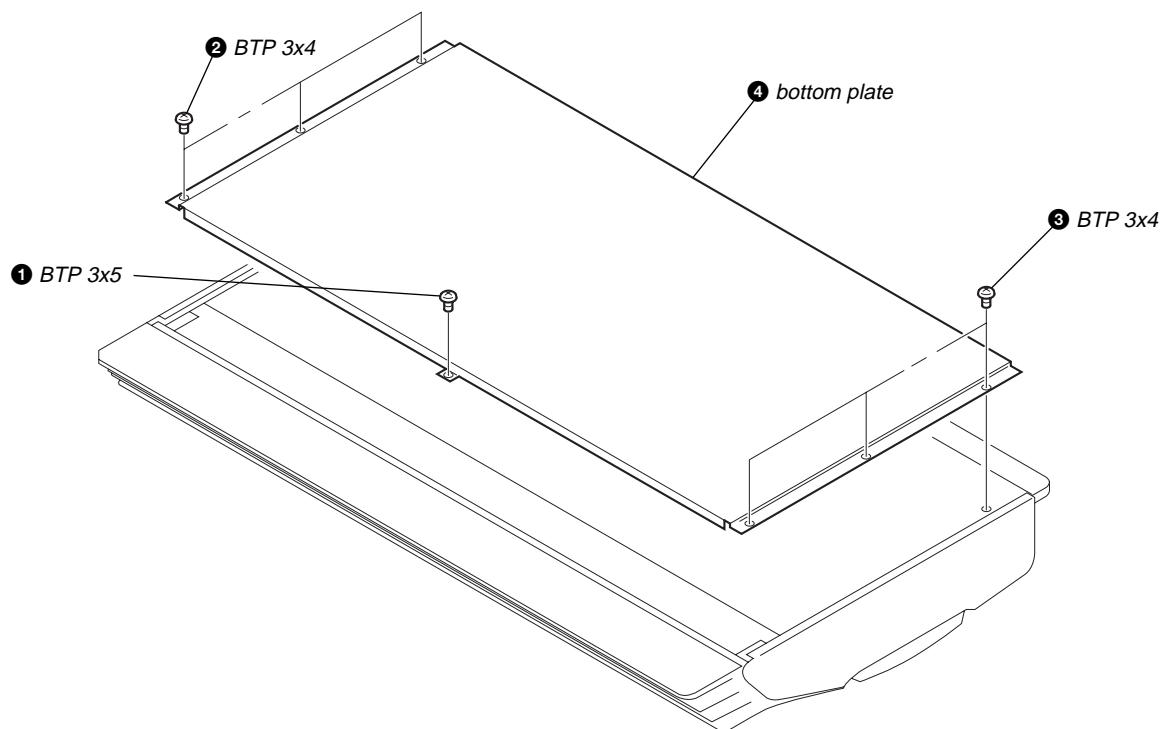
Pour plus de détails sur les réglages des commutateurs et commandes, reportez-vous à "Emplacement et fonction des commandes".



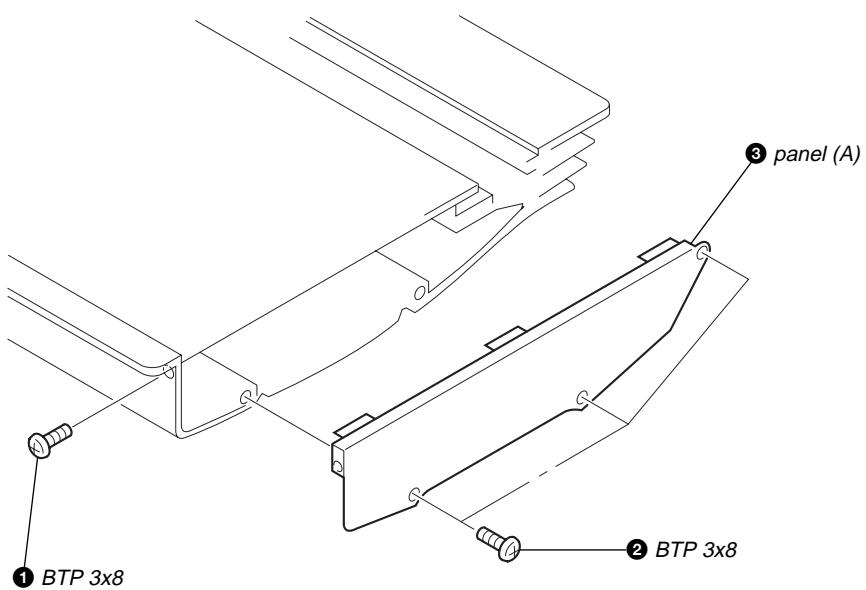
SECTION 2 DISASSEMBLY

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

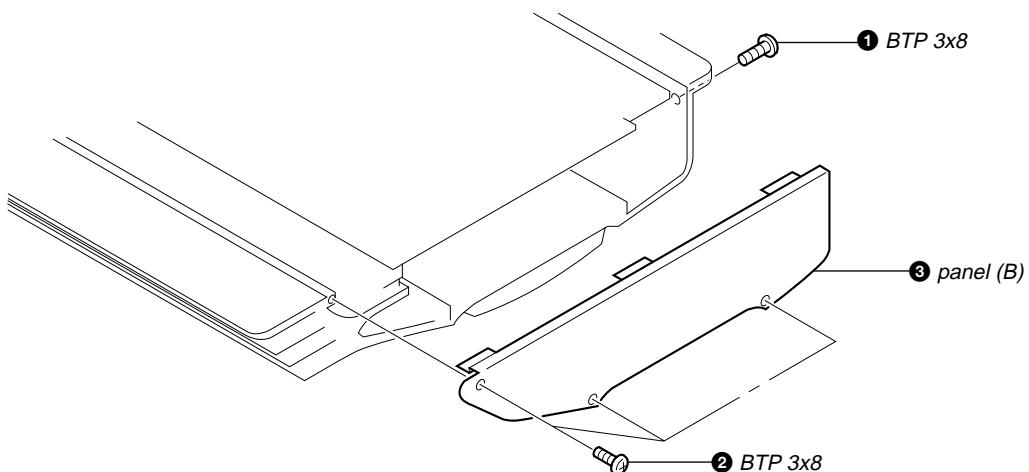
2-1. BOTTOM PLATE



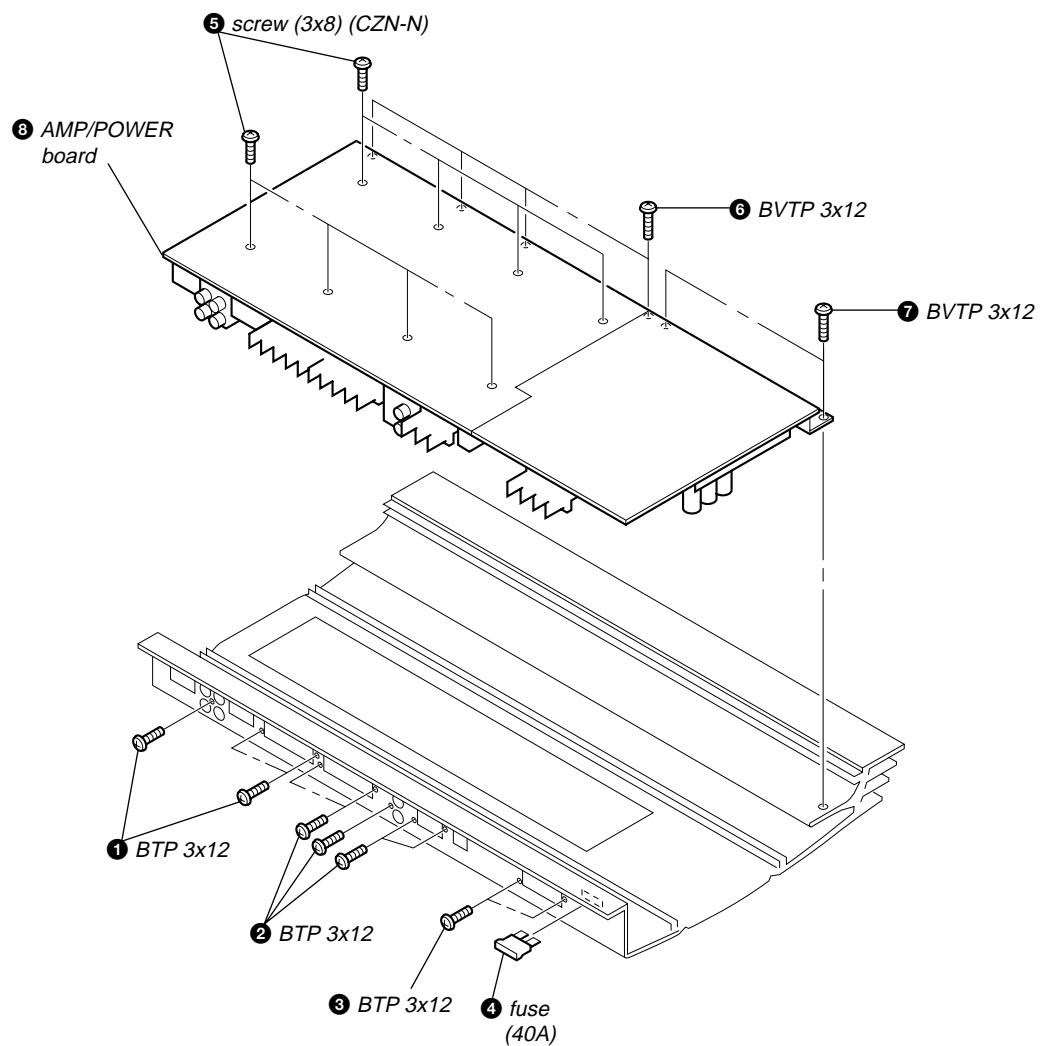
2-2. PANEL (A)



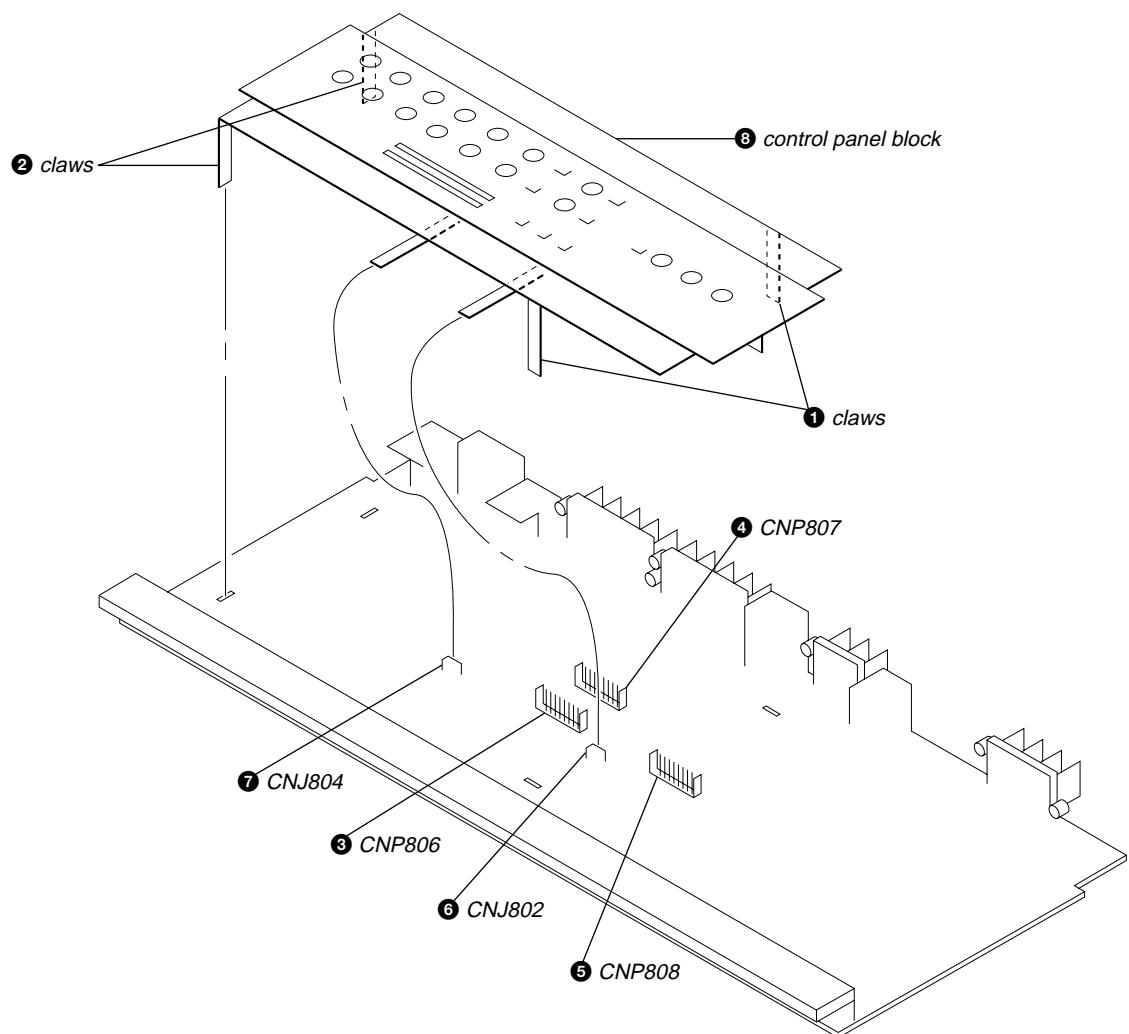
2-3. PANEL (B)



2-4. AMP/POWER BOARD

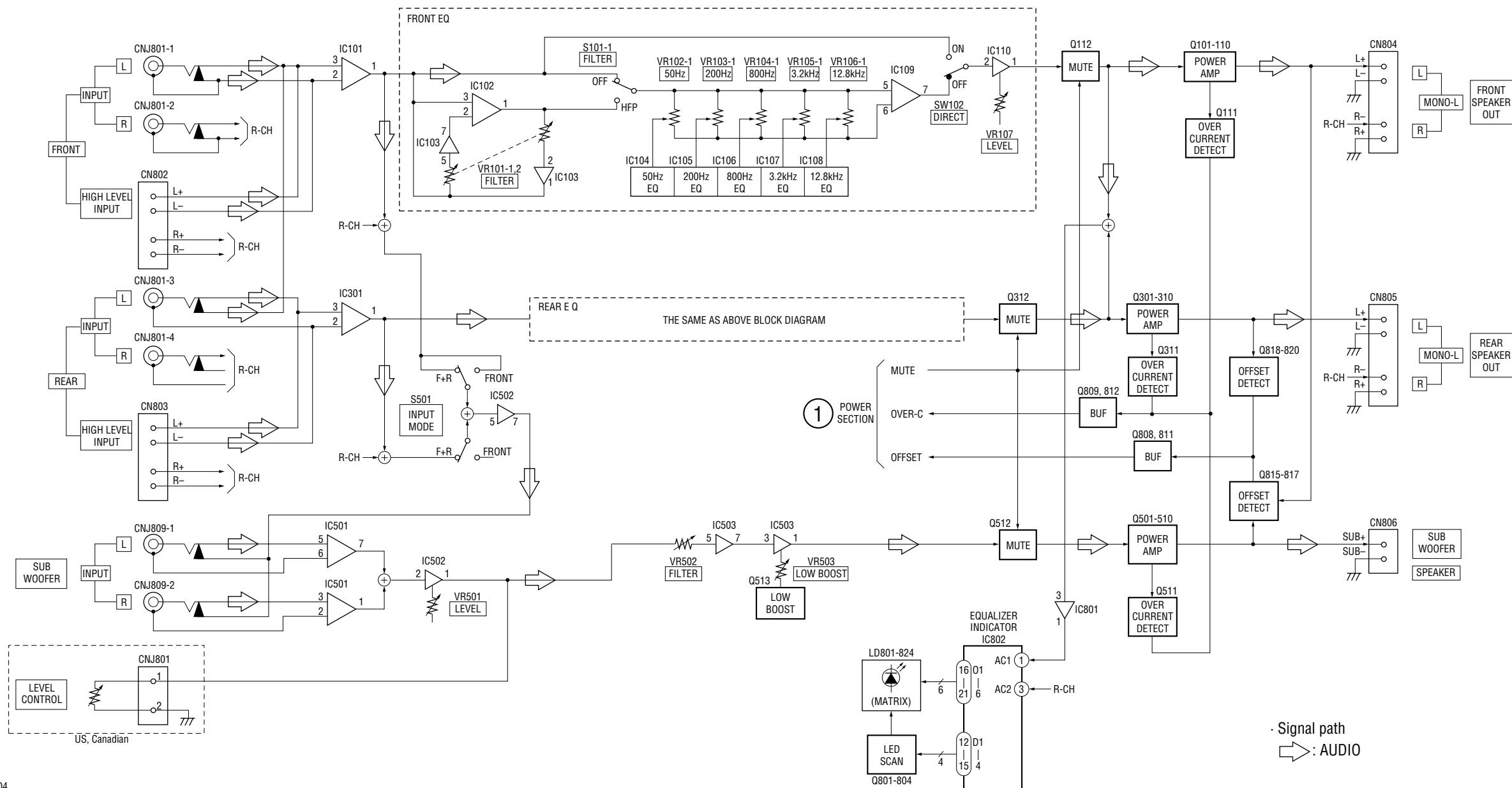


2-5. CONTROL PANEL BLOCK

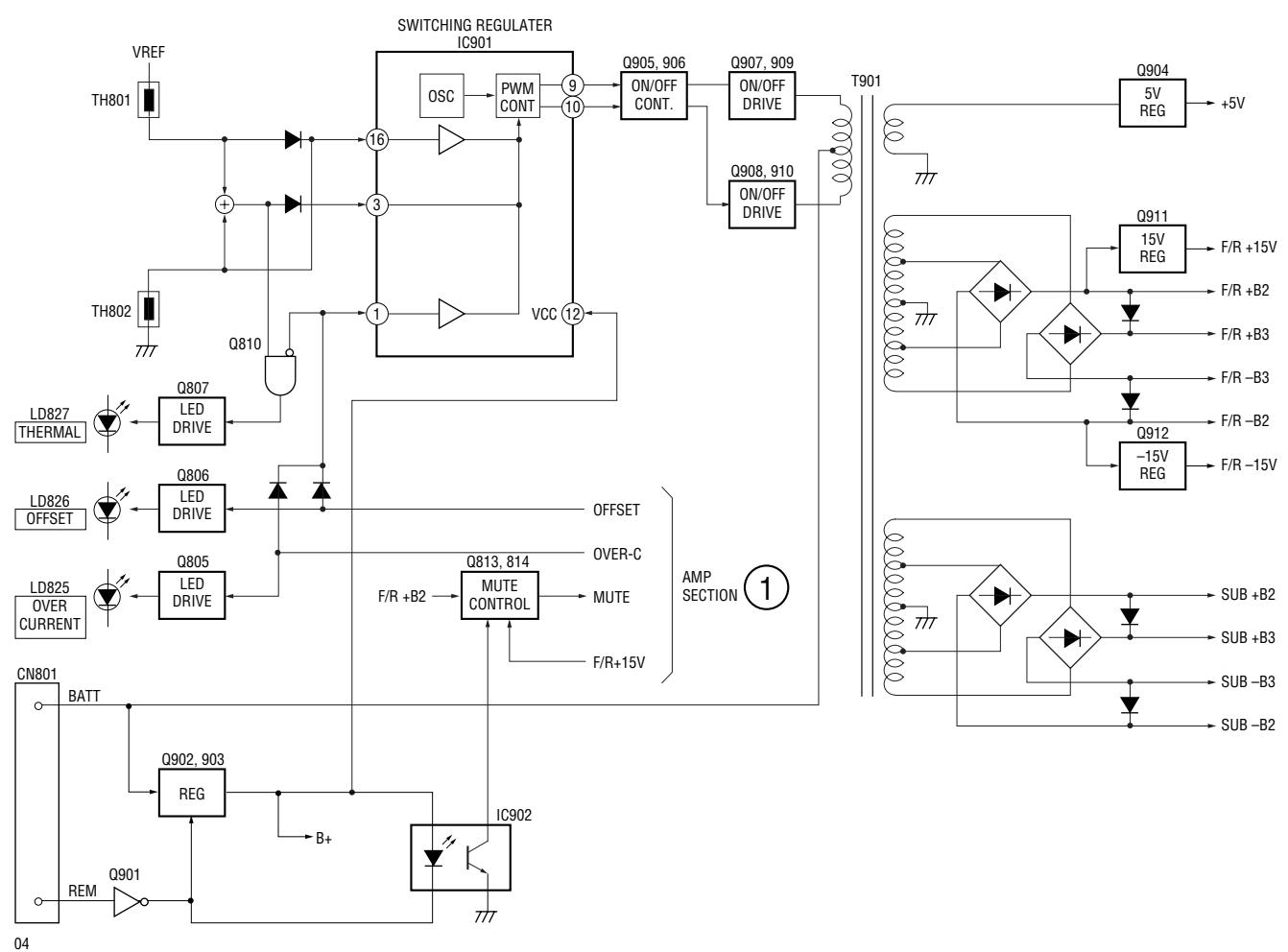


SECTION 3 DIAGRAMS

3-1. BLOCK DIAGRAM — AMP SECTION —



3-2. BLOCK DIAGRAM — POWER SECTION —



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 diagrams

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 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.
 - : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from +12V and REMOTE terminals.
- Voltage is 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.
- Signal path.

for printed wiring boards

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

Caution:

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

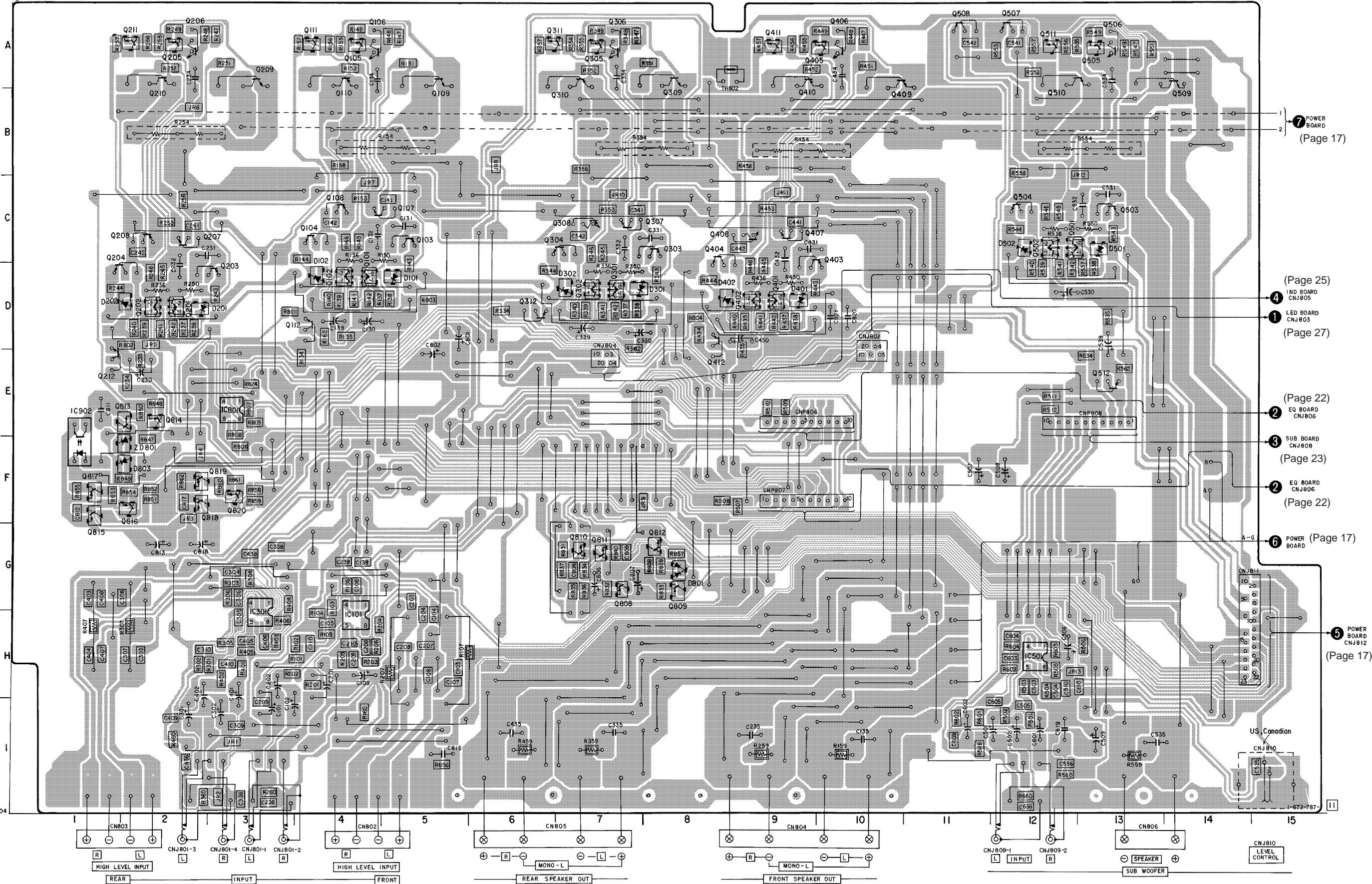
Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.

• Semiconductor Location
(AMP Board)

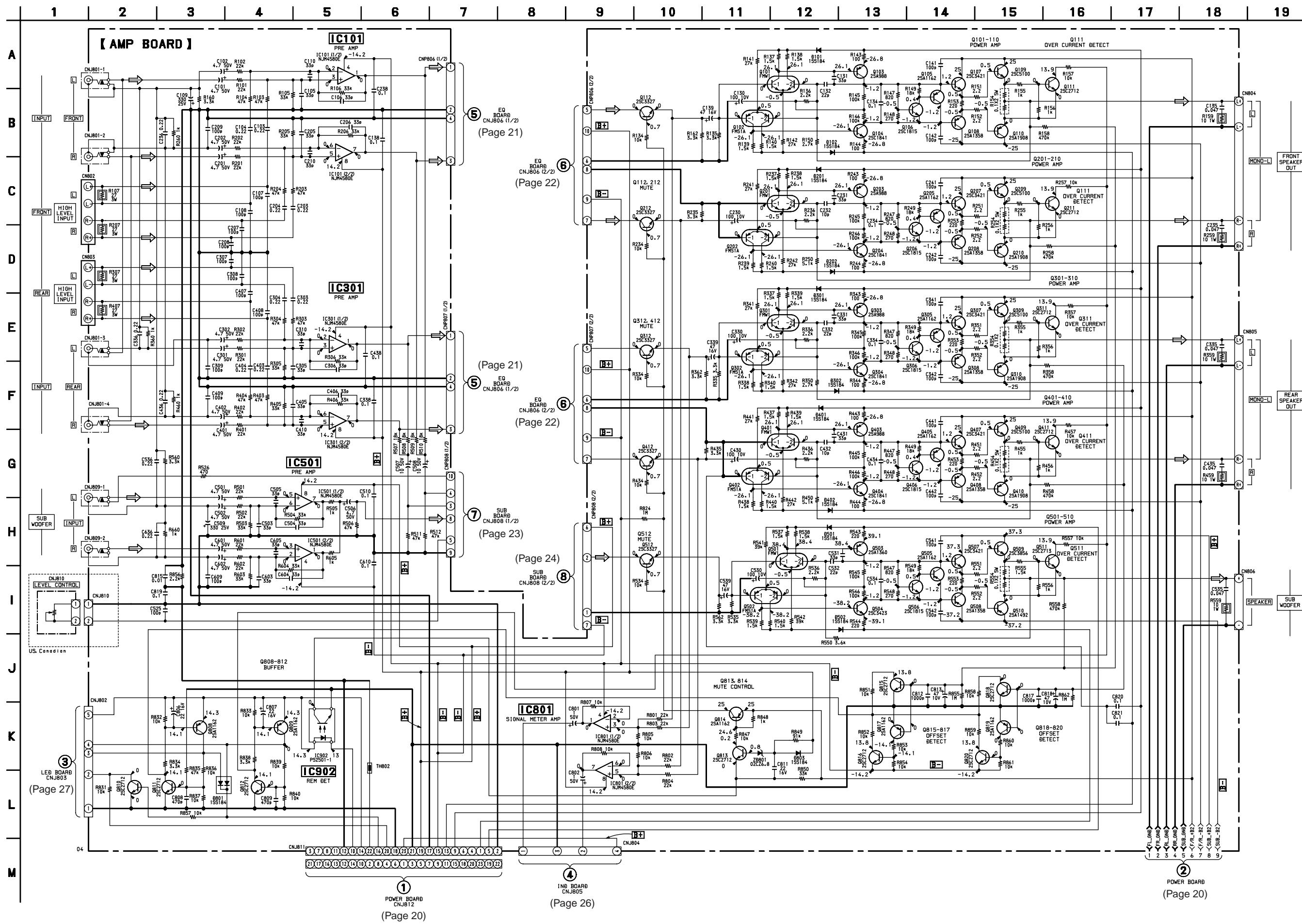
Ref. No.	Location	Ref. No.	Location
D101	D-5	Q305	A-7
D102	D-4	Q306	A-7
D201	D-3	Q307	C-8
D202	D-2	Q308	C-7
D301	D-8	Q309	B-8
D302	D-7	Q310	B-6
D401	D-9	Q311	A-6
D402	D-8	Q312	D-6
D501	D-13	Q401	D-9
D502	C-12	Q402	D-9
D801	G-8	Q403	D-10
D803	F-2	Q404	C-8
		Q405	A-9
IC101	H-4	Q406	A-10
IC301	H-3	Q407	C-9
IC501	H-12	Q408	C-8
IC801	E-3	Q409	B-10
IC902	E-1	Q410	B-9
Q101	C-4	Q411	A-9
Q102	D-4	Q412	E-8
Q103	C-5	Q501	C-12
Q104	C-4	Q502	C-12
Q105	A-4	Q503	C-13
Q106	A-4	Q504	C-12
Q107	C-5	Q505	A-13
Q108	C-4	Q506	A-13
Q109	B-5	Q507	A-12
Q110	B-4	Q508	A-11
Q111	A-4	Q509	B-14
Q112	D-4	Q510	B-12
Q201	D-2	Q511	A-12
Q202	D-2	Q512	E-13
Q203	D-3	Q808	G-7
Q204	C-2	Q809	G-8
Q205	A-2	Q810	G-7
Q206	A-2	Q811	G-7
Q207	C-3	Q812	G-8
Q208	C-2	Q813	E-2
Q209	A-3	Q814	E-2
Q210	B-2	Q815	G-1
Q211	A-2	Q816	F-2
Q212	E-1	Q817	F-1
Q301	D-7	Q818	F-3
Q302	D-7	Q819	F-3
Q303	C-8	Q820	F-3
Q304	C-6	ZD801	F-2

3-3. PRINTED WIRING BOARD — AMP SECTION — • Refer to page 12 for Semiconductor Location.

[AMP BOARD]



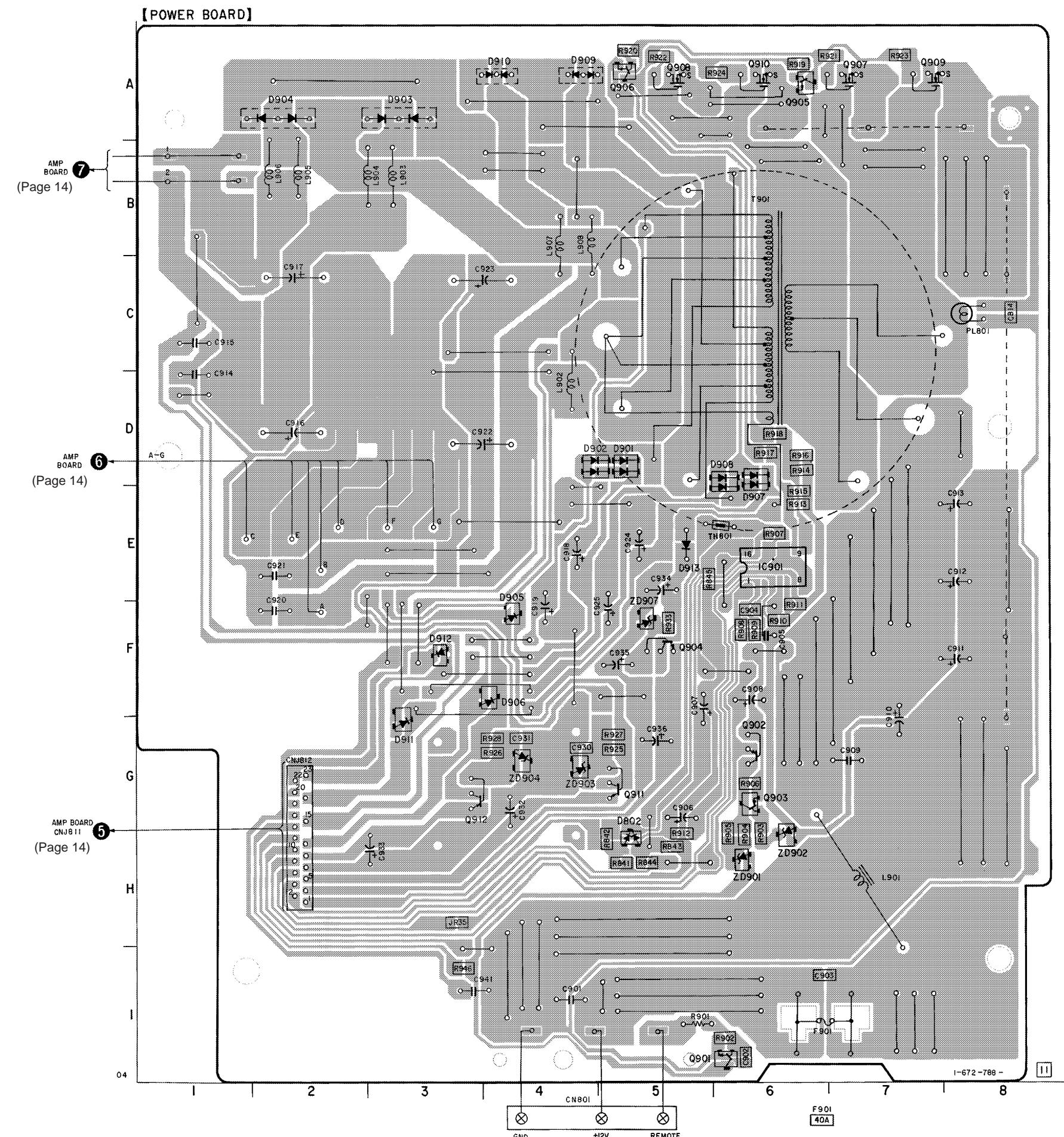
3-4. SCHEMATIC DIAGRAM — AMP SECTION —



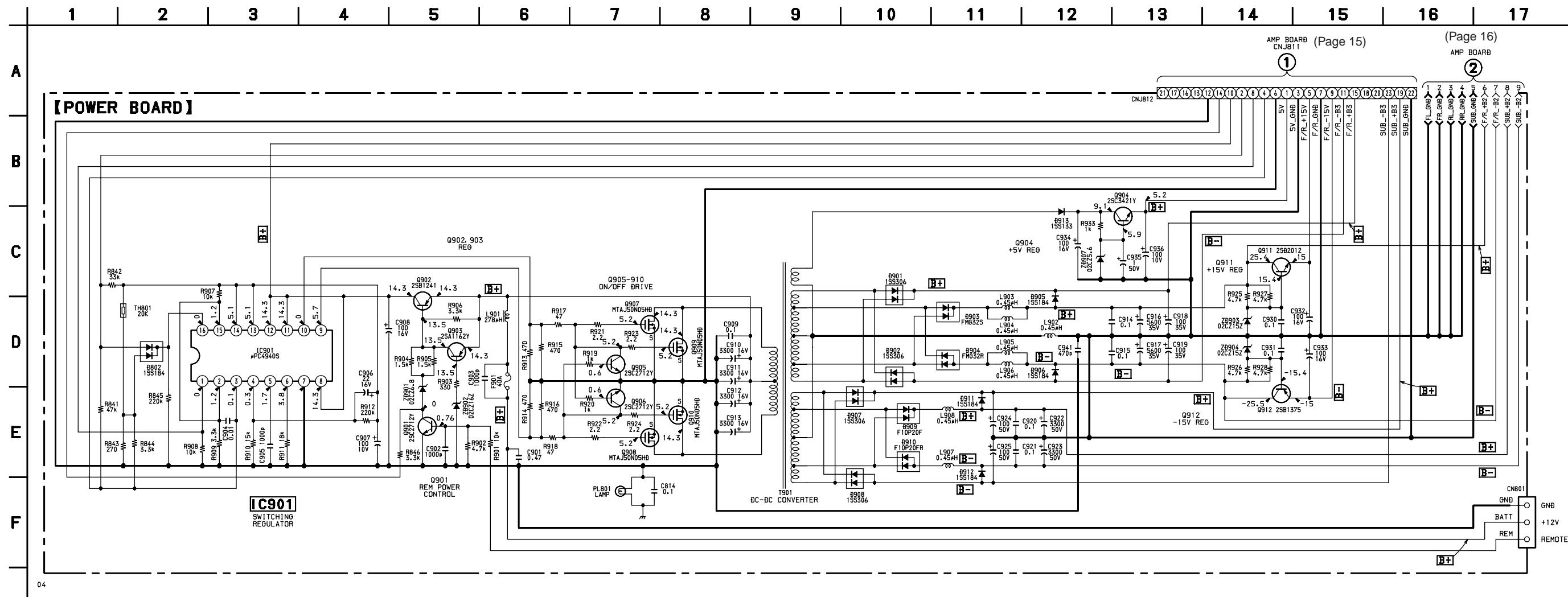
3-5. PRINTED WIRING BOARD — POWER SECTION —

• Semiconductor Location

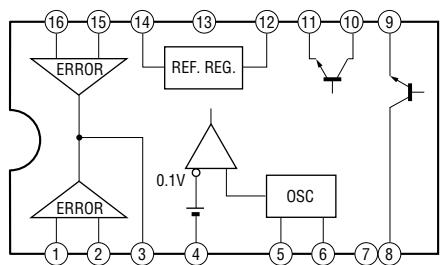
Ref. No.	Location
D802	G-5
D901	D-5
D902	D-4
D903	A-3
D904	A-2
D905	F-4
D906	F-4
D907	E-6
D908	D-6
D909	A-4
D910	A-4
D911	G-3
D912	F-3
D913	E-5
IC901	E-6
Q901	I-5
Q902	G-6
Q903	G-6
Q904	F-5
Q905	A-6
Q906	A-5
Q907	A-7
Q908	A-5
Q909	A-7
Q910	A-6
Q911	G-5
Q912	G-3
ZD901	H-6
ZD902	H-6
ZD903	G-4
ZD904	G-4
ZD907	F-5



3-6. SCHEMATIC DIAGRAM — POWER SECTION —



• IC Block Diagram

IC901 μ PC494GS

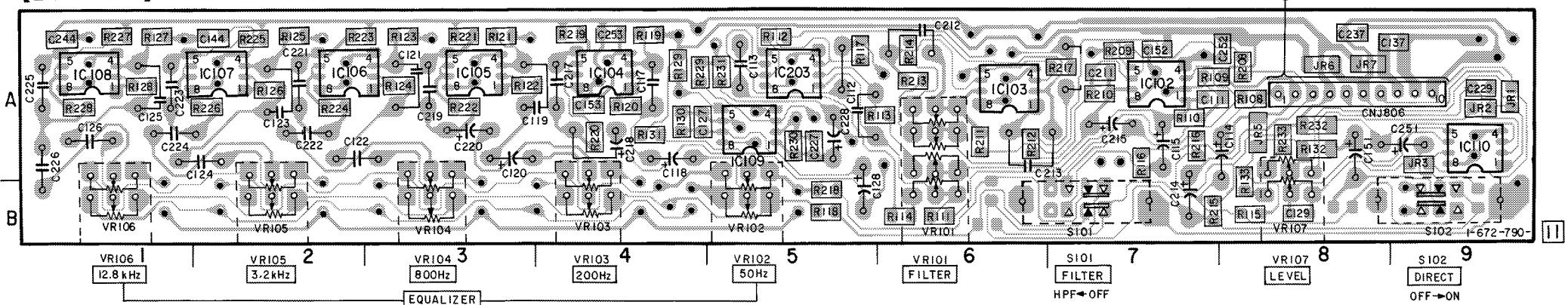
3-7. PRINTED WIRING BOARD — EQ SECTION —

(Page 14)
AMP BOARD CNP806/CNP807

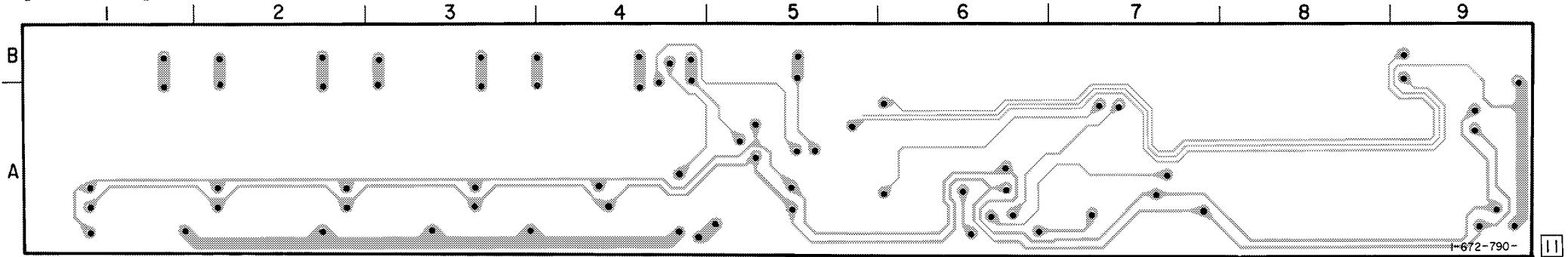
• Semiconductor Location

Ref. No.	Location
IC102	A-2
IC103	A-6
IC104	A-4
IC105	A-3
IC106	A-2
IC107	A-2
IC108	A-1
IC109	A-5
IC110	A-9
IC203	A-5

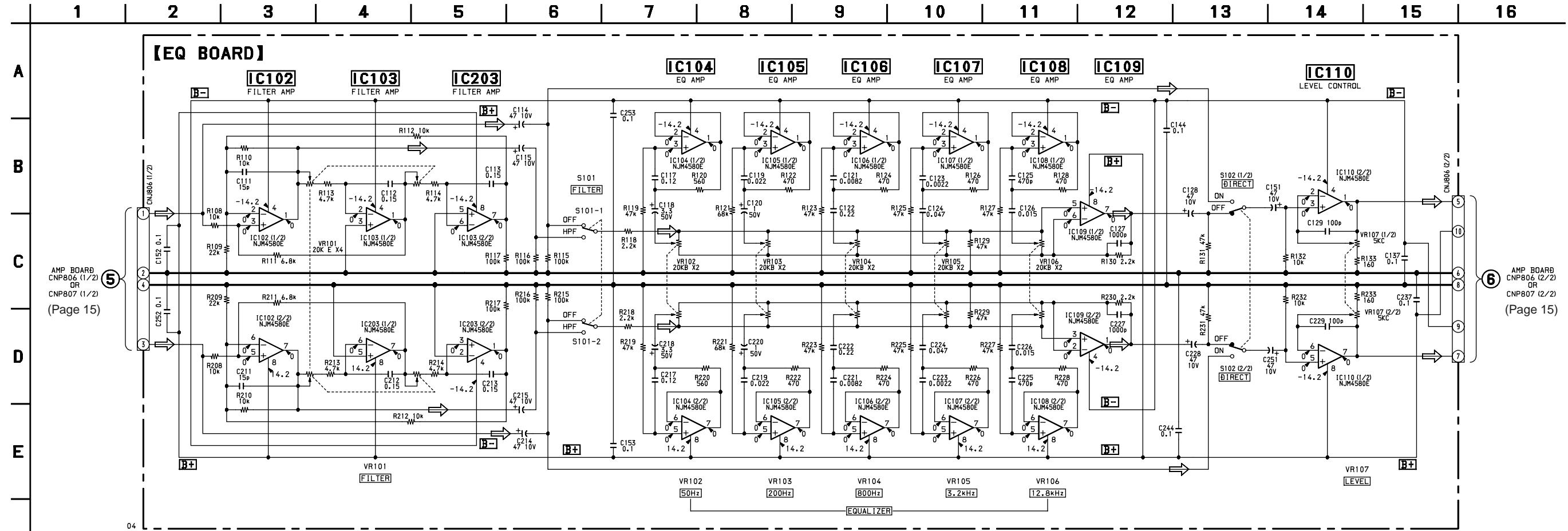
[EQ BOARD] (SIDE B)



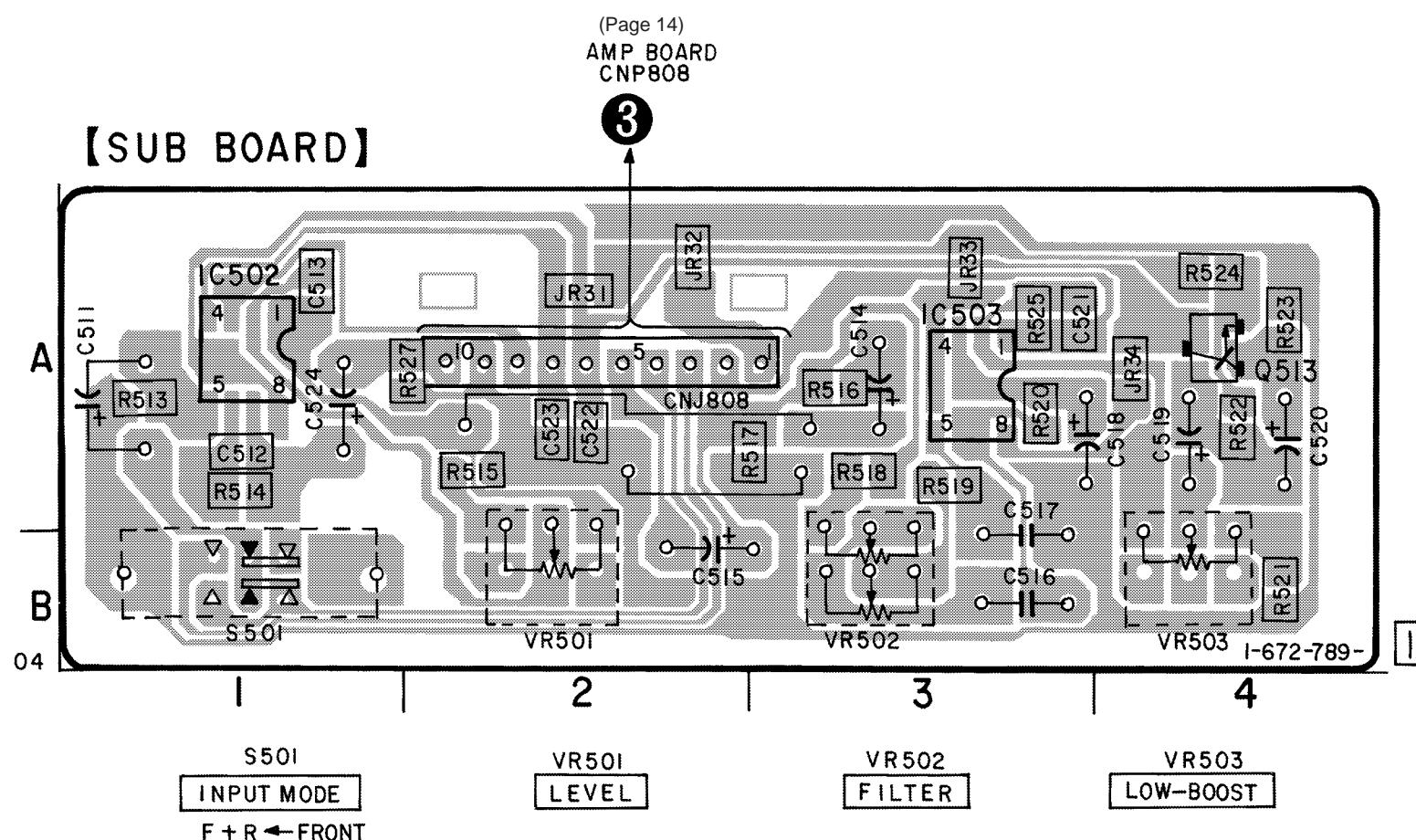
[EQ BOARD] (SIDE A)



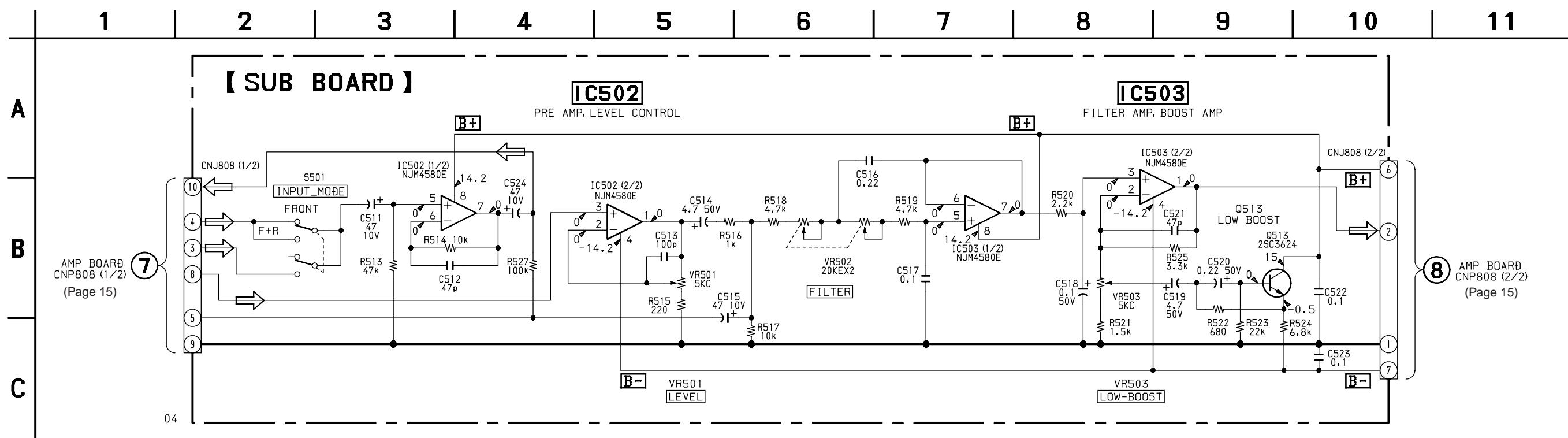
3-8. SCHEMATIC DIAGRAM — EQ SECTION —



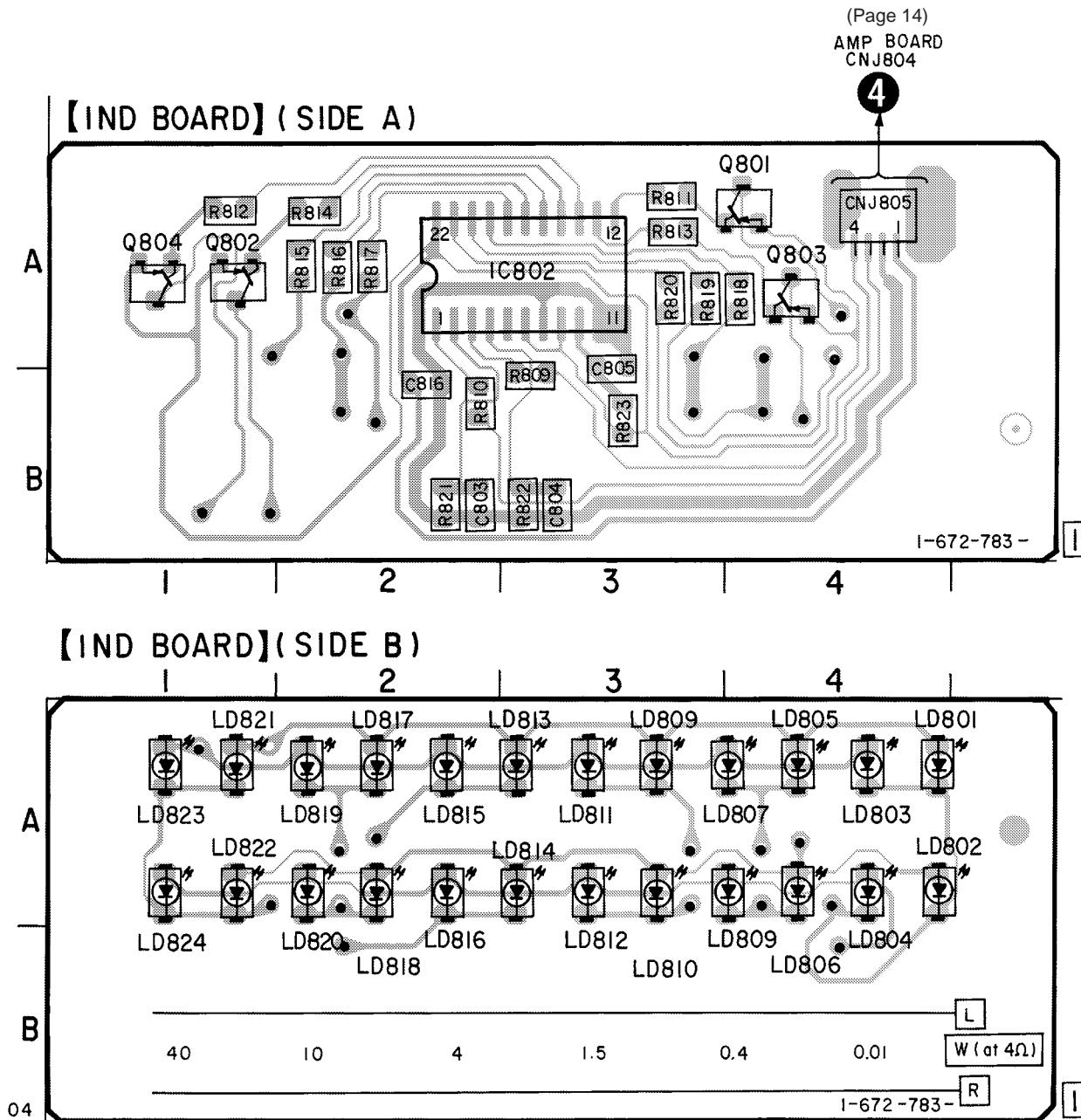
3-9. PRINTED WIRING BOARD — SUB SECTION —



3-10. SCHEMATIC DIAGRAM — SUB SECTION —



3-11. PRINTED WIRING BOARD — IND SECTION —

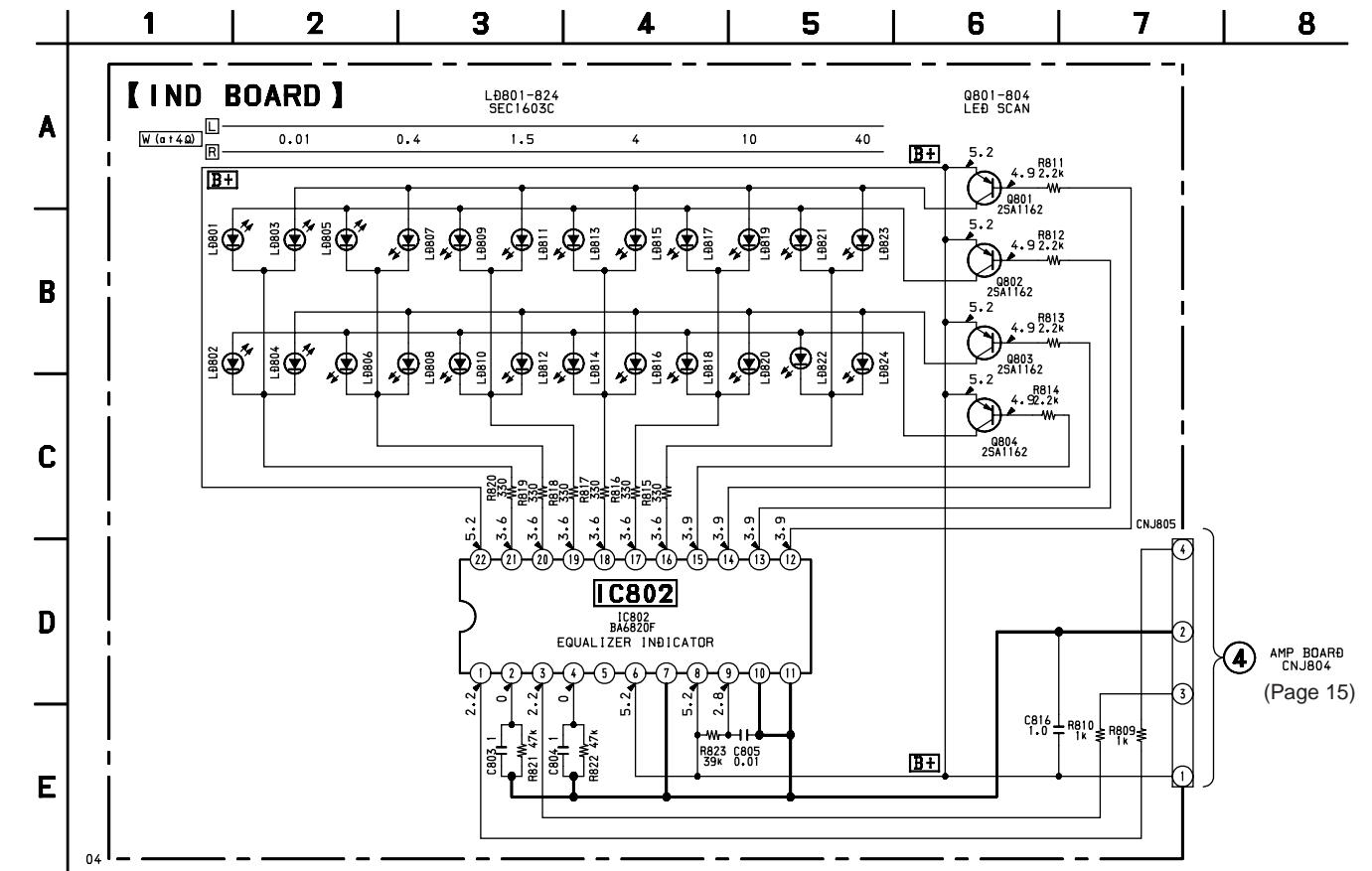


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
(IC802)	A-2	LD815	A-2
		LD816	B-2
LD801	A-4	LD817	A-2
LD802	A-4	LD818	B-2
LD803	A-3	LD819	A-2
LD804	B-4	LD820	B-2
LD805	A-4	LD821	A-1
LD806	B-4	LD822	A-1
LD807	A-4	LD823	A-1
LD808	B-4	LD824	B-1
LD809	A-3		
LD810	B-3	(Q801)	A-3
LD811	A-3	(Q802)	A-1
LD812	B-3	(Q803)	A-4
LD813	A-3	(Q804)	A-1
LD814	A-3		

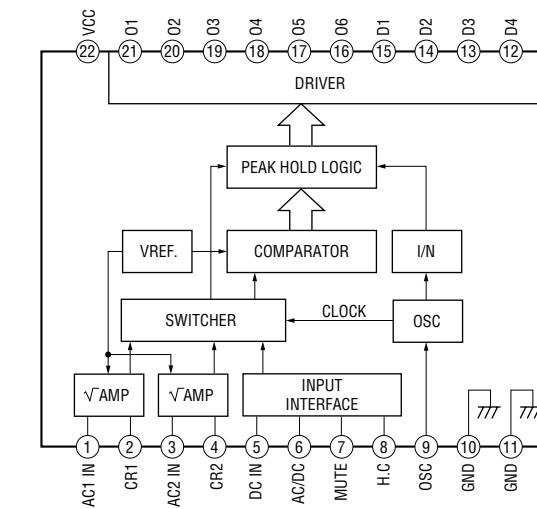
() : SIDE A

3-12. SCHEMATIC DIAGRAM — IND SECTION —

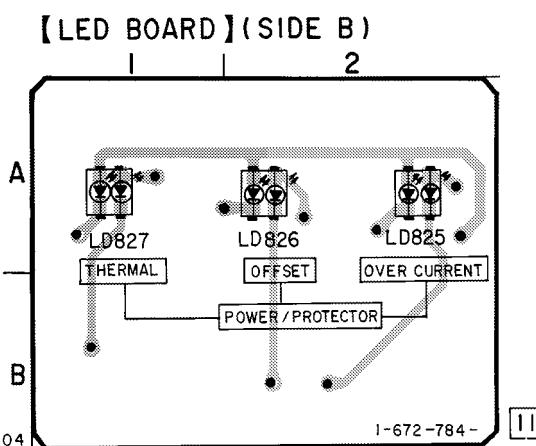
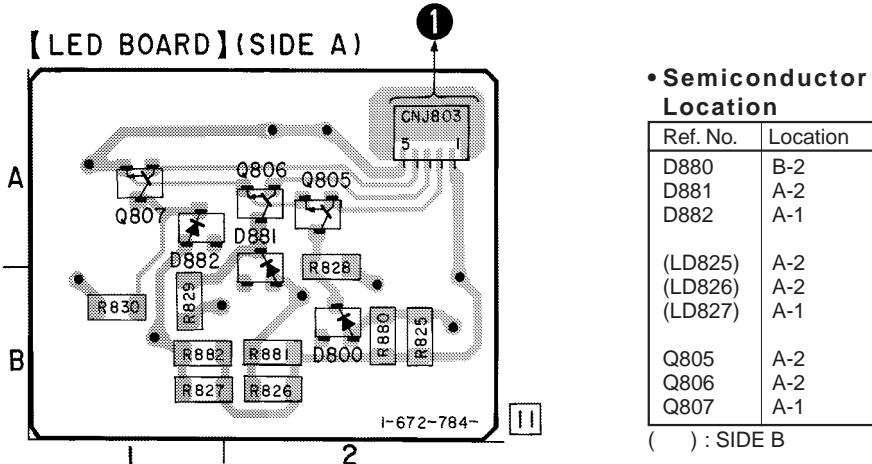


• IC Block Diagram

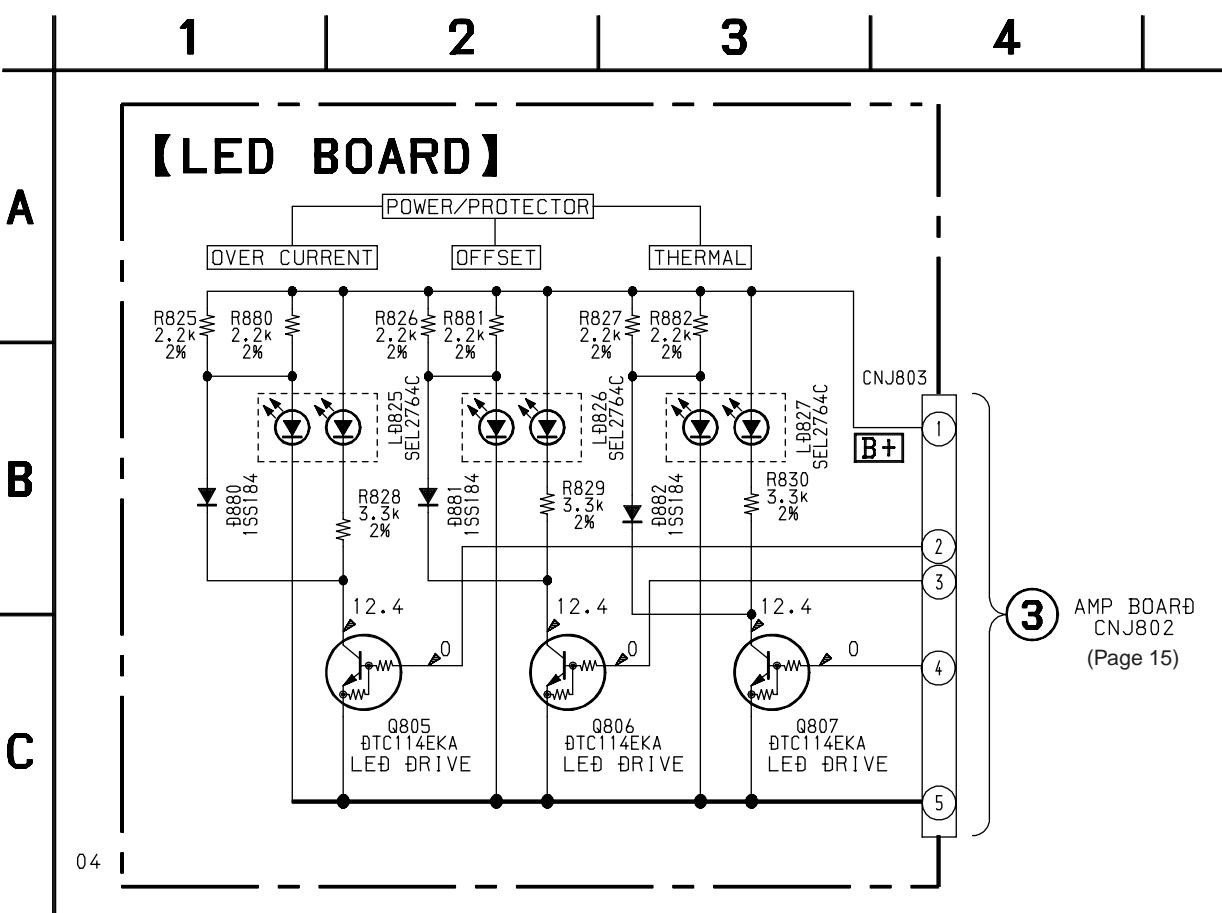
IC802 BA6820F



3-13. PRINTED WIRING BOARD — LED SECTION —

AMP BOARD (Page 14)
CNJ802

3-14. SCHEMATIC DIAGRAM — LED SECTION —



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.
 - Abbreviation
G: German model

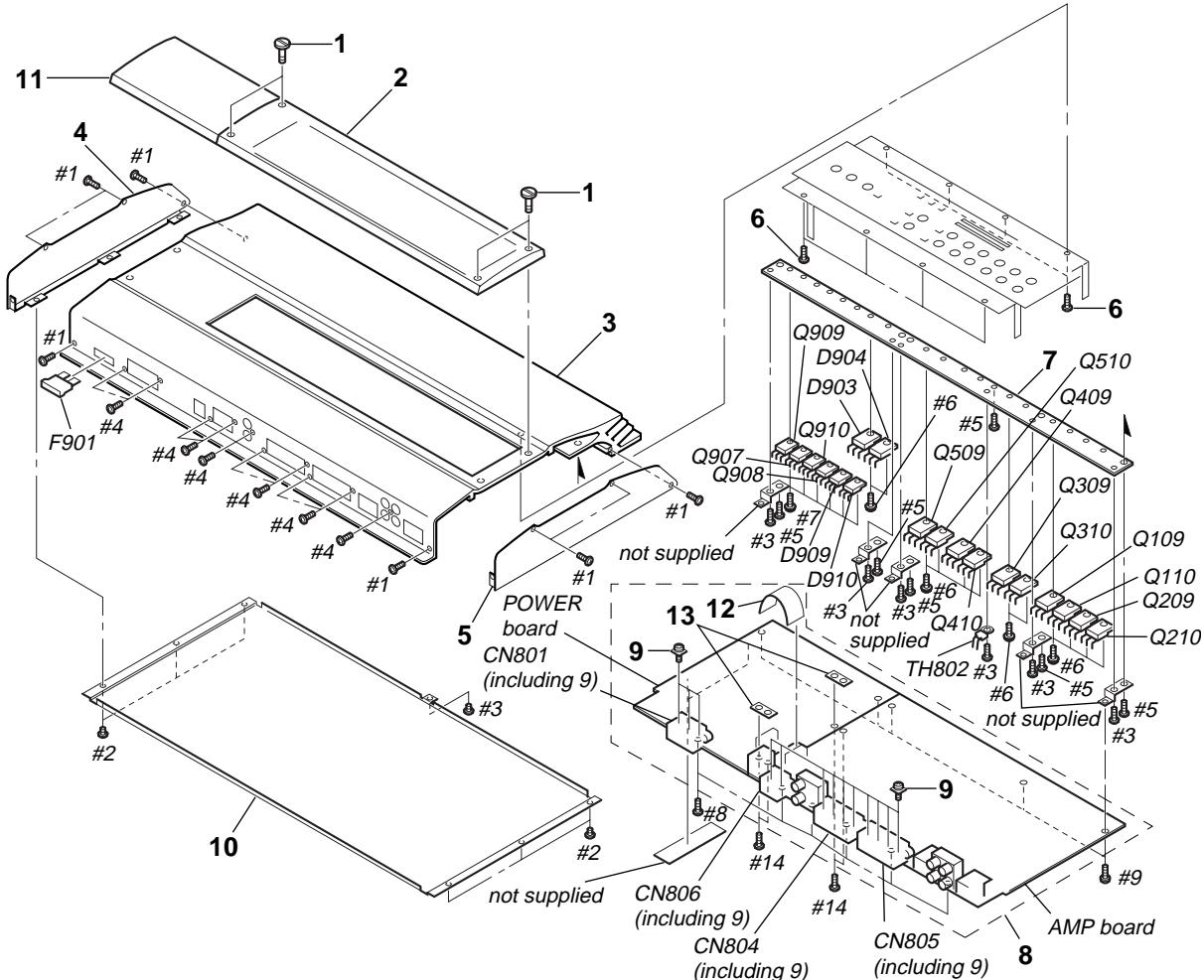
- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts

Example :

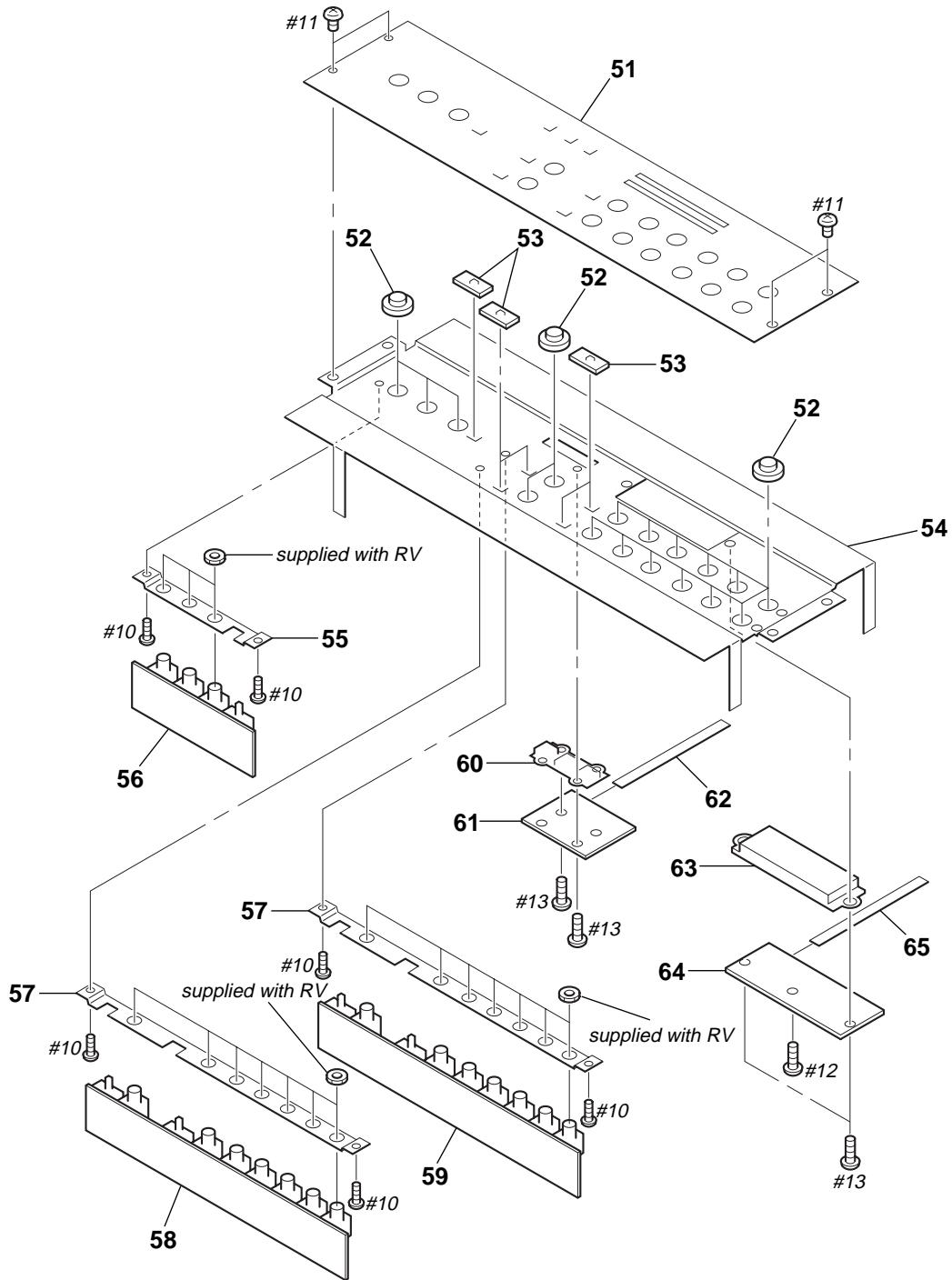
- Accessories and packing materials and hardware (# mark) list are given in the last of this parts list.

4-1. HEAT SINK 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	3-013-266-01	SCREW, ORNAMENTAL		D903	8-719-023-35	DIODE FMG-32S	
2	3-033-970-21	PLATE, ORNAMENTAL		D904	8-719-023-34	DIODE FMG-32R	
* 3	3-034-323-01	HEAT SINK (US,Canadian)		D909	8-719-210-30	DIODE F10P20F(R)	
* 3	3-034-323-11	HEAT SINK (AEP,UK,E,G)		D910	8-719-210-38	DIODE F10P20FR	
4	3-035-756-01	PANEL (A)		F901	1-533-743-11	FUSE (BLADE TYPE) (AUTO FUSE) (40A)	
5	3-035-757-01	PANEL (B)		Q109	8-729-024-80	TRANSISTOR 2SC5100-Y	
6	3-933-766-01	SCREW (3X8) (CZN-N)		Q110	8-729-024-77	TRANSISTOR 2SA1908-Y	
* 7	3-035-965-01	HEAT SINK, SUB		Q209	8-729-024-80	TRANSISTOR 2SC5100-Y	
* 8	A-3317-742-A	AMP/POWER BOARD, COMPLETE (US,Canadian)		Q210	8-729-024-77	TRANSISTOR 2SA1908-Y	
* 8	A-3317-743-A	AMP/POWER BOARD, COMPLETE (AEP,UK,E,G)		Q309	8-729-024-80	TRANSISTOR 2SC5100-Y	
* 9	3-912-432-01	SCREW M4X8		Q310	8-729-024-77	TRANSISTOR 2SA1908-Y	
* 10	3-035-964-01	PLATE, BOTTOM		Q409	8-729-024-80	TRANSISTOR 2SC5100-Y	
11	3-034-325-01	PLATE, ORNAMENTAL		Q410	8-729-024-77	TRANSISTOR 2SA1908-Y	
12	1-790-766-11	CABLE, PARALLEL (23P)		Q509	8-729-010-97	TRANSISTOR 2SC3856	
* 13	3-035-968-01	BRACKET (CHASSIS)		Q510	8-729-010-98	TRANSISTOR 2SA1492M-OPY	
CN801	1-694-511-11	TABLE, TERMINAL (3P) (REMOTE/+12V/GND)		Q907	8-729-030-72	FET MTAJ50N05HD	
CN804	1-694-512-11	TABLE, TERMINAL (4P) (FRONT SPEAKER OUT)		Q908	8-729-030-72	FET MTAJ50N05HD	
CN805	1-694-512-11	TABLE, TERMINAL (4P) (REAR SPEAKER OUT)		Q909	8-729-030-72	FET MTAJ50N05HD	
CN806	1-694-510-11	TABLE, TERMINAL (2P) (SUBWOOFER SPEAKER OUT)		Q910	8-729-030-72	FET MTAJ50N05HD	
				TH802	1-809-664-51	THERMISTOR, POSITIVE	

4-2. CONTROL PANEL SECTION



Ref. No.	Part No.	Description
51	3-034-324-01	PLATE, ORNAMENTAL
52	3-035-767-01	KNOB (VR)
53	3-035-768-01	KNOB (SW)
* 54	3-035-969-01	BRACKET (CONTROL BLOCK)
* 55	3-035-967-01	BRACKET (SUB)
* 56	1-672-789-11	SUB BOARD
* 57	3-035-966-01	BRACKET (EQ)

Ref. No.	Part No.	Description
* 58	A-3317-656-A	EQ BOARD, COMPLETE
59	3-035-765-01	LENS (A)
* 60	1-672-784-11	LED BOARD
61	1-790-765-11	CABLE, PARALLEL (5P)
62	3-035-766-01	LENS (B)
* 63	1-672-783-11	IND BOARD
64	1-790-764-11	CABLE, PARALLEL (4P)

SECTION 5

ELECTRICAL PARTS LIST

NOTE:

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

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

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

- Abbreviation
G: German model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-3317-742-A	AMP/POWER BOARD, COMPLETE (US,Canadian) (INCLUDING AMP BOARD, POWER BOARD)		C238	1-165-319-11	CERAMIC CHIP	0.1uF
*	A-3317-743-A	AMP/POWER BOARD, COMPLETE (AEP,UK,E,G) (INCLUDING AMP BOARD, POWER BOARD)	*****	C241	1-163-251-11	CERAMIC CHIP	100PF
				C242	1-163-251-11	CERAMIC CHIP	100PF
				C301	1-126-047-11	ELECT	4.7uF
				C302	1-126-047-11	ELECT	4.7uF
				C303	1-163-081-00	CERAMIC CHIP	0.22uF
				C304	1-163-081-00	CERAMIC CHIP	0.22uF
				C305	1-163-239-11	CERAMIC CHIP	33PF
				C306	1-163-239-11	CERAMIC CHIP	33PF
				C307	1-163-251-11	CERAMIC CHIP	100PF
		AMP BOARD					

		< CAPACITOR >					
C101	1-126-047-11	ELECT	4.7uF	C102	1-126-047-11	ELECT	4.7uF
C102	1-126-047-11	ELECT	4.7uF	C103	1-163-081-00	CERAMIC CHIP	0.22uF
C103	1-163-081-00	CERAMIC CHIP	0.22uF	C104	1-163-081-00	CERAMIC CHIP	0.22uF
C104	1-163-081-00	CERAMIC CHIP	0.22uF	C105	1-163-239-11	CERAMIC CHIP	33PF
C105	1-163-239-11	CERAMIC CHIP	33PF	C106	1-163-239-11	CERAMIC CHIP	33PF
C106	1-163-239-11	CERAMIC CHIP	33PF	C107	1-163-251-11	CERAMIC CHIP	100PF
C107	1-163-251-11	CERAMIC CHIP	100PF	C108	1-163-251-11	CERAMIC CHIP	100PF
C108	1-163-251-11	CERAMIC CHIP	100PF	C109	1-163-251-11	CERAMIC CHIP	100PF
C109	1-163-251-11	CERAMIC CHIP	100PF	C110	1-163-251-11	CERAMIC CHIP	100PF
C110	1-163-251-11	CERAMIC CHIP	100PF	C130	1-124-994-11	ELECT	100uF
C130	1-124-994-11	ELECT	100uF	C131	1-102-518-11	CERAMIC	33PF
C131	1-102-518-11	CERAMIC	33PF	C132	1-102-514-11	CERAMIC	22PF
C132	1-102-514-11	CERAMIC	22PF	C133	1-130-495-11	MYLAR	0.1uF
C133	1-130-495-11	MYLAR	0.1uF	C134	1-130-491-00	MYLAR	0.047uF
C134	1-130-491-00	MYLAR	0.047uF	C135	1-130-491-00	MYLAR	0.047uF
C135	1-130-491-00	MYLAR	0.047uF	C136	1-163-081-00	CERAMIC CHIP	0.22uF
C136	1-163-081-00	CERAMIC CHIP	0.22uF	C137	1-165-319-11	CERAMIC CHIP	0.1uF
C137	1-165-319-11	CERAMIC CHIP	0.1uF	C138	1-163-251-11	CERAMIC CHIP	100PF
C138	1-163-251-11	CERAMIC CHIP	100PF	C139	1-163-251-11	CERAMIC CHIP	100PF
C139	1-163-251-11	CERAMIC CHIP	100PF	C140	1-163-251-11	CERAMIC CHIP	100PF
C140	1-163-251-11	CERAMIC CHIP	100PF	C141	1-163-251-11	CERAMIC CHIP	100PF
C141	1-163-251-11	CERAMIC CHIP	100PF	C142	1-163-251-11	CERAMIC CHIP	100PF
C142	1-163-251-11	CERAMIC CHIP	100PF	C201	1-126-047-11	ELECT	4.7uF
C201	1-126-047-11	ELECT	4.7uF	C202	1-126-047-11	ELECT	4.7uF
C202	1-126-047-11	ELECT	4.7uF	C203	1-163-081-00	CERAMIC CHIP	0.22uF
C203	1-163-081-00	CERAMIC CHIP	0.22uF	C204	1-163-081-00	CERAMIC CHIP	0.22uF
C204	1-163-081-00	CERAMIC CHIP	0.22uF	C205	1-163-239-11	CERAMIC CHIP	33PF
C205	1-163-239-11	CERAMIC CHIP	33PF	C206	1-163-239-11	CERAMIC CHIP	33PF
C206	1-163-239-11	CERAMIC CHIP	33PF	C207	1-163-251-11	CERAMIC CHIP	100PF
C207	1-163-251-11	CERAMIC CHIP	100PF	C208	1-163-251-11	CERAMIC CHIP	100PF
C208	1-163-251-11	CERAMIC CHIP	100PF	C209	1-163-251-11	CERAMIC CHIP	100PF
C209	1-163-251-11	CERAMIC CHIP	100PF	C210	1-163-251-11	CERAMIC CHIP	100PF
C210	1-163-251-11	CERAMIC CHIP	100PF	C211	1-126-047-11	ELECT	4.7uF
C211	1-126-047-11	ELECT	4.7uF	C212	1-163-081-00	CERAMIC CHIP	0.22uF
C212	1-163-081-00	CERAMIC CHIP	0.22uF	C213	1-102-518-11	CERAMIC	33PF
C213	1-102-518-11	CERAMIC	33PF	C214	1-130-495-11	MYLAR	0.1uF
C214	1-130-495-11	MYLAR	0.1uF	C215	1-130-491-00	MYLAR	0.047uF
C215	1-130-491-00	MYLAR	0.047uF	C216	1-163-081-00	CERAMIC CHIP	0.22uF
C216	1-163-081-00	CERAMIC CHIP	0.22uF	C217	1-165-319-11	CERAMIC CHIP	0.1uF
C217	1-165-319-11	CERAMIC CHIP	0.1uF	C218	1-163-251-11	CERAMIC CHIP	100PF
C218	1-163-251-11	CERAMIC CHIP	100PF	C219	1-163-251-11	CERAMIC CHIP	100PF
C219	1-163-251-11	CERAMIC CHIP	100PF	C220	1-163-251-11	CERAMIC CHIP	100PF
C220	1-163-251-11	CERAMIC CHIP	100PF	C221	1-163-251-11	CERAMIC CHIP	100PF
C221	1-163-251-11	CERAMIC CHIP	100PF	C222	1-163-251-11	CERAMIC CHIP	100PF
C222	1-163-251-11	CERAMIC CHIP	100PF	C223	1-163-251-11	CERAMIC CHIP	100PF
C223	1-163-251-11	CERAMIC CHIP	100PF	C224	1-163-251-11	CERAMIC CHIP	100PF
C224	1-163-251-11	CERAMIC CHIP	100PF	C225	1-163-251-11	CERAMIC CHIP	100PF
C225	1-163-251-11	CERAMIC CHIP	100PF	C226	1-163-251-11	CERAMIC CHIP	100PF
C226	1-163-251-11	CERAMIC CHIP	100PF	C227	1-163-251-11	CERAMIC CHIP	100PF
C227	1-163-251-11	CERAMIC CHIP	100PF	C228	1-163-251-11	CERAMIC CHIP	100PF
C228	1-163-251-11	CERAMIC CHIP	100PF	C229	1-163-251-11	CERAMIC CHIP	100PF
C229	1-163-251-11	CERAMIC CHIP	100PF	C230	1-163-251-11	CERAMIC CHIP	100PF
C230	1-163-251-11	CERAMIC CHIP	100PF	C231	1-163-251-11	CERAMIC CHIP	100PF
C231	1-163-251-11	CERAMIC CHIP	100PF	C232	1-163-251-11	CERAMIC CHIP	100PF
C232	1-163-251-11	CERAMIC CHIP	100PF	C233	1-163-251-11	CERAMIC CHIP	100PF
C233	1-163-251-11	CERAMIC CHIP	100PF	C234	1-163-251-11	CERAMIC CHIP	100PF
C234	1-163-251-11	CERAMIC CHIP	100PF	C235	1-163-251-11	CERAMIC CHIP	100PF
C235	1-163-251-11	CERAMIC CHIP	100PF	C236	1-163-251-11	CERAMIC CHIP	100PF
C236	1-163-251-11	CERAMIC CHIP	100PF	C237	1-163-251-11	CERAMIC CHIP	100PF
C237	1-163-251-11	CERAMIC CHIP	100PF	C238	1-163-251-11	CERAMIC CHIP	100PF
C238	1-163-251-11	CERAMIC CHIP	100PF	C239	1-163-251-11	CERAMIC CHIP	100PF
C239	1-163-251-11	CERAMIC CHIP	100PF	C240	1-163-251-11	CERAMIC CHIP	100PF
C240	1-163-251-11	CERAMIC CHIP	100PF	C241	1-163-251-11	CERAMIC CHIP	100PF
C241	1-163-251-11	CERAMIC CHIP	100PF	C242	1-163-251-11	CERAMIC CHIP	100PF
C242	1-163-251-11	CERAMIC CHIP	100PF	C243	1-163-251-11	CERAMIC CHIP	100PF
C243	1-163-251-11	CERAMIC CHIP	100PF	C244	1-163-251-11	CERAMIC CHIP	100PF
C244	1-163-251-11	CERAMIC CHIP	100PF	C245	1-163-251-11	CERAMIC CHIP	100PF
C245	1-163-251-11	CERAMIC CHIP	100PF	C246	1-163-251-11	CERAMIC CHIP	100PF
C246	1-163-251-11	CERAMIC CHIP	100PF	C247	1-163-251-11	CERAMIC CHIP	100PF
C247	1-163-251-11	CERAMIC CHIP	100PF	C248	1-163-251-11	CERAMIC CHIP	100PF
C248	1-163-251-11	CERAMIC CHIP	100PF	C249	1-163-251-11	CERAMIC CHIP	100PF
C249	1-163-251-11	CERAMIC CHIP	100PF	C250	1-163-251-11	CERAMIC CHIP	100PF
C250	1-163-251-11	CERAMIC CHIP	100PF	C251	1-163-251-11	CERAMIC CHIP	100PF
C251	1-163-251-11	CERAMIC CHIP	100PF	C252	1-163-251-11	CERAMIC CHIP	100PF
C252	1-163-251-11	CERAMIC CHIP	100PF	C253	1-163-251-11	CERAMIC CHIP	100PF
C253	1-163-251-11	CERAMIC CHIP	100PF	C254	1-163-251-11	CERAMIC CHIP	100PF
C254	1-163-251-11	CERAMIC CHIP	100PF	C255	1-163-251-11	CERAMIC CHIP	100PF
C255	1-163-251-11	CERAMIC CHIP	100PF	C256	1-163-251-11	CERAMIC CHIP	100PF
C256	1-163-251-11	CERAMIC CHIP	100PF	C257	1-163-251-11	CERAMIC CHIP	100PF
C257	1-163-251-11	CERAMIC CHIP	100PF	C258	1-163-251-11	CERAMIC CHIP	100PF
C258	1-163-251-11	CERAMIC CHIP	100PF	C259	1-163-251-11	CERAMIC CHIP	100PF
C259	1-163-251-11	CERAMIC CHIP	100PF	C260	1-163-251-11	CERAMIC CHIP	100PF
C260	1-163-251-11	CERAMIC CHIP	100PF	C261	1-163-251-11	CERAMIC CHIP	100PF
C261	1-163-251-11	CERAMIC CHIP	100PF	C262	1-163-251-11	CERAMIC CHIP	100PF
C262	1-163-251-11	CERAMIC CHIP	100PF	C263	1-163-251-11	CERAMIC CHIP	100PF
C263	1-163-251-11	CERAMIC CHIP	100PF	C264	1-163-251-11	CERAMIC CHIP	100PF
C264	1-163-251-11	CERAMIC CHIP	100PF	C265	1-163-251-11	CERAMIC CHIP	100PF
C265	1-163-251-11	CERAMIC CHIP	100PF	C266	1-163-251-11	CERAMIC CHIP	100PF
C266	1-163-251-11	CERAMIC CHIP	100PF	C267	1-163-251-11	CERAMIC CHIP	100PF
C267	1-163-251-11	CERAMIC CHIP	100PF	C268	1-163-251-11	CERAMIC CHIP	100PF
C268	1-163-251-11	CERAMIC CHIP	100PF	C269	1-163-251-11	CERAMIC CHIP	100PF
C269	1-163-251-11	CERAMIC CHIP	100PF	C270	1-163-251-11	CERAMIC CHIP	100PF
C270	1-163-251-11	CERAMIC CHIP	100PF	C271	1-163-251-11	CERAMIC CHIP	100PF
C271	1-163-251-11	CERAMIC CHIP	100PF	C272	1-163-251-11	CERAMIC CHIP	100PF
C272	1-163-251-11	CERAMIC CHIP	100PF	C273	1-163-251-11	CERAMIC CHIP	100PF
C273	1-163-251-11	CERAMIC CHIP	100PF	C274	1-163-251-11	CERAMIC CHIP	100PF
C274	1-163-251-11	CERAMIC CHIP	100PF	C275	1-163-251-11	CERAMIC CHIP	100PF
C275	1-163-251-11	CERAMIC CHIP	100PF	C276	1-163-251-11	CERAMIC CHIP	100PF
C276	1-163-251-11	CERAMIC CHIP	100PF	C277	1-163-251-11	CERAMIC CHIP	100PF
C277	1-163-251-11	CERAMIC CHIP	100PF	C278	1-163-251-11	CERAMIC CHIP	100PF
C278	1-163-251-11	CERAMIC CHIP	100PF	C279	1-163-251-11	CERAMIC CHIP	100PF
C279	1-163-251-11	CERAMIC CHIP	100PF	C280	1-163-251-11	CERAMIC CHIP	100PF
C280	1-163-251-11	CERAMIC CHIP	100PF	C281	1-163-251-11	CERAMIC CHIP	100PF
C281	1-163-251-11	CERAMIC CHIP	100PF	C282	1-163-251-11	CERAMIC CHIP	100PF
C282	1-163-251-11	CERAMIC CHIP	100PF	C283	1-163-251-11		

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark
C504	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	< JACK >			
C505	1-163-239-11	CERAMIC CHIP	33PF	5%	50V				
C506	1-126-047-11	ELECT	4.7uF	20%	50V	CNJ801	1-779-078-41	JACK, PIN 4P (FRONT INPUT,REAR INPUT)	
C507	1-126-059-11	ELECT	10uF	20%	50V	CNJ809	1-779-078-61	JACK, PIN 2P (SUBWOOFER INPUT)	
C508	1-126-059-11	ELECT	10uF	20%	50V	CNJ810	1-566-865-21	JACK, MODULAR (SUBWOOFER LEVEL CONTROL) (US,Canadian)	
C509	1-126-025-11	ELECT	330uF	20%	25V	< CONNECTOR >			
C510	1-165-319-11	CERAMIC CHIP	0.1uF		50V	CNJ802	1-793-099-11	CONNECTOR, FFC/FPC (ZIF) 5P	
C525	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	CNJ804	1-793-098-11	CONNECTOR, FFC/FPC (ZIF) 4P	
C530	1-124-994-11	ELECT	100uF	20%	10V	* CNJ811	1-774-350-11	CONNECTOR, FFC/FPC (ZIF) 23P	
C531	1-102-518-11	CERAMIC	33PF	5%	50V	CNP806	1-793-038-11	CONNECTOR, BOARD TO BOARD 10P	
C532	1-102-514-11	CERAMIC	22PF	5%	50V	CNP807	1-793-038-11	CONNECTOR, BOARD TO BOARD 10P	
C534	1-130-495-11	MYLAR	0.1uF	5%	50V	CNP808	1-793-038-11	CONNECTOR, BOARD TO BOARD 10P	
C535	1-130-491-00	MYLAR	0.047uF	5%	50V	< DIODE >			
C536	1-163-081-00	CERAMIC CHIP	0.22uF		25V	D101	8-719-801-78	DIODE 1SS184	
C539	1-126-022-11	ELECT	47uF	20%	16V	D102	8-719-801-78	DIODE 1SS184	
C541	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D201	8-719-801-78	DIODE 1SS184	
C542	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D202	8-719-801-78	DIODE 1SS184	
C601	1-126-047-11	ELECT	4.7uF	20%	50V	D301	8-719-801-78	DIODE 1SS184	
C602	1-126-047-11	ELECT	4.7uF	20%	50V	D302	8-719-801-78	DIODE 1SS184	
C603	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	D401	8-719-801-78	DIODE 1SS184	
C604	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	D402	8-719-801-78	DIODE 1SS184	
C605	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	D501	8-719-801-78	DIODE 1SS184	
C609	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D502	8-719-801-78	DIODE 1SS184	
C610	1-165-319-11	CERAMIC CHIP	0.1uF		50V	D801	8-719-801-78	DIODE 1SS184	
C636	1-163-081-00	CERAMIC CHIP	0.22uF		25V	D803	8-719-801-78	DIODE 1SS184	
C801	1-126-044-11	ELECT	1uF	20%	50V	< IC >			
C802	1-126-044-11	ELECT	1uF	20%	50V				
C806	1-126-006-11	ELECT	22uF	20%	16V				
C807	1-126-006-11	ELECT	22uF	20%	16V				
C808	1-163-133-00	CERAMIC CHIP	470PF	5%	50V				
C809	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	IC101	8-759-711-82	IC NJM4580E	
C811	1-126-006-11	ELECT	22uF	20%	16V	IC301	8-759-711-82	IC NJM4580E	
C812	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	IC501	8-759-711-82	IC NJM4580E	
C813	1-126-022-11	ELECT	47uF	20%	10V	IC801	8-759-711-82	IC NJM4580E	
C815	1-130-495-11	MYLAR	0.1uF	5%	50V	< PHOTO COUPLER >			
C817	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	IC902	8-719-156-72	PHOTO COUPLER PS2501-1KA	
C818	1-126-022-11	ELECT	47uF	20%	10V	< JUMPER RESISTOR >			
C819	1-130-495-11	MYLAR	0.1uF	5%	50V	JR1	1-216-296-00	METAL CHIP 0	5% 1/8W
C820	1-130-495-11	MYLAR	0.1uF	5%	50V	JR2	1-216-295-00	METAL CHIP 0	5% 1/10W
C821	1-130-495-11	MYLAR	0.1uF	5%	50V	JR3	1-216-296-00	METAL CHIP 0	5% 1/8W
< CONNECTOR >			JR4	1-216-296-00	METAL CHIP 0	5% 1/8W			
CN802	1-784-904-21	CONNECTOR 4P (FRONT HIGH LEVEL INPUT)	JR5	1-216-296-00	METAL CHIP 0	5% 1/8W			
CN803	1-784-904-31	CONNECTOR 4P (REAR HIGH LEVEL INPUT)	< TERMINAL TABLE >						
CN804	1-694-512-11	TABLE, TERMINAL (4P) (FRONT SPEAKER OUT)	JR6	1-216-295-00	METAL CHIP 0	5% 1/10W			
CN805	1-694-512-11	TABLE, TERMINAL (4P) (REAR SPEAKER OUT)	JR7	1-216-295-00	METAL CHIP 0	5% 1/10W			
CN806	1-694-510-11	TABLE, TERMINAL (2P) (SUBWOOFER SPEAKER OUT)	JR8	1-216-296-00	METAL CHIP 0	5% 1/8W			
			JR9	1-216-295-00	METAL CHIP 0	5% 1/10W			
			JR10	1-216-295-00	METAL CHIP 0	5% 1/10W			
			JR11	1-216-295-00	METAL CHIP 0	5% 1/10W			
			JR12	1-216-295-00	METAL CHIP 0	5% 1/10W			
			JR13	1-216-295-00	METAL CHIP 0	5% 1/10W			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< TRANSISTOR >				Q504	8-729-203-45	TRANSISTOR	2SC3423-O
Q101	8-729-903-10	TRANSISTOR	FMW1	Q505	8-729-216-21	TRANSISTOR	2SA1162-Y
Q102	8-729-026-57	TRANSISTOR	FMS1A-T148	Q506	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q103	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	Q507	8-729-207-82	TRANSISTOR	2SC3421-Y
Q104	8-729-184-53	TRANSISTOR	2SC1845-EA	Q508	8-729-207-89	TRANSISTOR	2SA1358-Y
Q105	8-729-216-21	TRANSISTOR	2SA1162-Y	Q509	8-729-010-97	TRANSISTOR	2SC3856
Q106	8-729-119-78	TRANSISTOR	2SC2785-HFE	Q510	8-729-010-98	TRANSISTOR	2SA1492M-OPY
Q107	8-729-207-82	TRANSISTOR	2SC3421-Y	Q511	8-729-271-31	TRANSISTOR	2SC2713-G
Q108	8-729-207-89	TRANSISTOR	2SA1358-Y	Q512	8-729-203-48	TRANSISTOR	2SC3327-A
Q109	8-729-024-80	TRANSISTOR	2SC5100-Y	Q808	8-729-216-21	TRANSISTOR	2SA1162-Y
Q110	8-729-024-77	TRANSISTOR	2SA1908-Y	Q809	8-729-216-21	TRANSISTOR	2SA1162-Y
Q111	8-729-230-49	TRANSISTOR	2SC2712-YG	Q810	8-729-230-49	TRANSISTOR	2SC2712-YG
Q112	8-729-203-48	TRANSISTOR	2SC3327-A	Q811	8-729-230-49	TRANSISTOR	2SC2712-YG
Q201	8-729-903-10	TRANSISTOR	FMW1	Q812	8-729-230-49	TRANSISTOR	2SC2712-YG
Q202	8-729-026-57	TRANSISTOR	FMS1A-T148	Q813	8-729-230-49	TRANSISTOR	2SC2712-YG
Q203	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	Q814	8-729-216-21	TRANSISTOR	2SA1162-Y
Q204	8-729-184-53	TRANSISTOR	2SC1845-EA	Q815	8-729-230-49	TRANSISTOR	2SC2712-YG
Q205	8-729-216-21	TRANSISTOR	2SA1162-Y	Q816	8-729-230-49	TRANSISTOR	2SC2712-YG
Q206	8-729-119-78	TRANSISTOR	2SC2785-HFE	Q817	8-729-216-21	TRANSISTOR	2SA1162-Y
Q207	8-729-207-82	TRANSISTOR	2SC3421-Y	Q818	8-729-230-49	TRANSISTOR	2SC2712-YG
Q208	8-729-207-89	TRANSISTOR	2SA1358-Y	Q819	8-729-216-21	TRANSISTOR	2SA1162-Y
Q209	8-729-024-80	TRANSISTOR	2SC5100-Y	Q820	8-729-230-49	TRANSISTOR	2SC2712-YG
Q210	8-729-024-77	TRANSISTOR	2SA1908-Y	< RESISTOR >			
Q211	8-729-230-49	TRANSISTOR	2SC2712-YG	R101	1-208-518-61	RES,CHIP	22K 2% 1/10W
Q212	8-729-203-48	TRANSISTOR	2SC3327-A	R102	1-208-518-61	RES,CHIP	22K 2% 1/10W
Q301	8-729-903-10	TRANSISTOR	FMW1	R103	1-208-526-61	RES,CHIP	47K 2% 1/10W
Q302	8-729-026-57	TRANSISTOR	FMS1A-T148	R104	1-208-526-61	RES,CHIP	47K 2% 1/10W
Q303	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	R105	1-208-522-61	RES,CHIP	33K 2% 1/10W
Q304	8-729-184-53	TRANSISTOR	2SC1845-EA	R106	1-208-522-61	RES,CHIP	33K 2% 1/10W
Q305	8-729-216-21	TRANSISTOR	2SA1162-Y	R107	1-216-471-11	METAL OXIDE	27 5% 3W F
Q306	8-729-119-78	TRANSISTOR	2SC2785-HFE	R134	1-208-510-61	RES,CHIP	10K 2% 1/8W
Q307	8-729-207-82	TRANSISTOR	2SC3421-Y	R135	1-208-449-61	RES,CHIP	3.3K 2% 1/10W
Q308	8-729-207-89	TRANSISTOR	2SA1358-Y	R136	1-249-421-11	CARBON	2.2K 5% 1/4W
Q309	8-729-024-80	TRANSISTOR	2SC5100-Y	R137	1-208-441-61	RES,CHIP	1.5K 2% 1/10W
Q310	8-729-024-77	TRANSISTOR	2SA1908-Y	R138	1-208-441-61	RES,CHIP	1.5K 2% 1/10W
Q311	8-729-230-49	TRANSISTOR	2SC2712-YG	R139	1-208-441-61	RES,CHIP	1.5K 2% 1/10W
Q312	8-729-203-48	TRANSISTOR	2SC3327-A	R140	1-208-441-61	RES,CHIP	1.5K 2% 1/10W
Q401	8-729-903-10	TRANSISTOR	FMW1	R141	1-216-685-11	METAL CHIP	27K 0.5% 1/10W
Q402	8-729-026-57	TRANSISTOR	FMS1A-T148	R142	1-216-685-11	METAL CHIP	27K 0.5% 1/10W
Q403	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	R143	1-216-174-00	RES,CHIP	100 2% 1/8W
Q404	8-729-184-53	TRANSISTOR	2SC1845-EA	R144	1-216-174-00	RES,CHIP	100 2% 1/8W
Q405	8-729-216-21	TRANSISTOR	2SA1162-Y	R145	1-208-534-61	RES,CHIP	100K 2% 1/10W
Q406	8-729-119-78	TRANSISTOR	2SC2785-HFE	R146	1-208-534-61	RES,CHIP	100K 2% 1/10W
Q407	8-729-207-82	TRANSISTOR	2SC3421-Y	R147	1-208-435-61	RES,CHIP	820 2% 1/10W
Q408	8-729-207-89	TRANSISTOR	2SA1358-Y	R148	1-208-423-61	RES,CHIP	270 2% 1/10W
Q409	8-729-024-80	TRANSISTOR	2SC5100-Y	R149	1-208-812-11	RES,CHIP	18K 2% 1/10W
Q410	8-729-024-77	TRANSISTOR	2SA1908-Y	R150	1-249-422-11	CARBON	2.7K 5% 1/4W
Q411	8-729-230-49	TRANSISTOR	2SC2712-YG	R151	1-208-373-11	RES,CHIP	2.2 2% 1/8W
Q412	8-729-203-48	TRANSISTOR	2SC3327-A	R152	1-208-373-11	RES,CHIP	2.2 2% 1/8W
Q501	8-729-903-10	TRANSISTOR	FMW1	R153	1-216-182-00	RES,CHIP	220 2% 1/8W
Q502	8-729-026-57	TRANSISTOR	FMS1A-T148	R154	1-205-991-11	METAL PLATE	0.1X2 10% 5W
Q503	8-729-209-18	TRANSISTOR	2SA1360-Y	R155	1-208-437-61	RES,CHIP	1K 2% 1/10W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R156	1-208-437-61	RES,CHIP	1K	2%	1/10W	R340	1-208-441-61	RES,CHIP	1.5K	2%	1/10W
R157	1-208-462-61	RES,CHIP	10K	2%	1/10W	R341	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R158	1-208-550-61	RES,CHIP	470K	2%	1/10W	R342	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R159	1-215-857-11	METAL OXIDE	10	5%	1W F	R343	1-216-174-00	RES,CHIP	100	2%	1/8W
R160	1-216-210-00	RES,CHIP	3.3K	2%	1/8W	R344	1-216-174-00	RES,CHIP	100	2%	1/8W
R162	1-208-449-61	RES,CHIP	3.3K	2%	1/10W	R345	1-208-534-61	RES,CHIP	100K	2%	1/10W
R201	1-208-518-61	RES,CHIP	22K	2%	1/10W	R346	1-208-534-61	RES,CHIP	100K	2%	1/10W
R202	1-208-518-61	RES,CHIP	22K	2%	1/10W	R347	1-208-435-61	RES,CHIP	820	2%	1/10W
R203	1-208-526-61	RES,CHIP	47K	2%	1/10W	R348	1-208-423-61	RES,CHIP	270	2%	1/10W
R204	1-208-526-61	RES,CHIP	47K	2%	1/10W	R349	1-208-812-11	RES,CHIP	18K	2%	1/10W
R205	1-208-522-61	RES,CHIP	33K	2%	1/10W	R350	1-249-422-11	CARBON	2.7K	5%	1/4W
R206	1-208-522-61	RES,CHIP	33K	2%	1/10W	R351	1-208-373-11	RES,CHIP	2.2	2%	1/8W
R207	1-216-471-11	METAL OXIDE	27	5%	3W F	R352	1-208-373-11	RES,CHIP	2.2	2%	1/8W
R234	1-208-510-61	RES,CHIP	10K	2%	1/8W	R353	1-216-182-00	RES,CHIP	220	2%	1/8W
R235	1-208-449-61	RES,CHIP	3.3K	2%	1/10W	R354	1-205-991-11	METAL PLATE	0.1X2	10%	5W
R236	1-249-421-11	CARBON	2.2K	5%	1/4W	R355	1-208-437-61	RES,CHIP	1K	2%	1/10W
R237	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R356	1-208-437-61	RES,CHIP	1K	2%	1/10W
R238	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R357	1-208-462-61	RES,CHIP	10K	2%	1/10W
R239	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R358	1-208-550-61	RES,CHIP	470K	2%	1/10W
R240	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R359	1-215-857-11	METAL OXIDE	10	5%	1W F
R241	1-216-685-11	METAL CHIP	27K	0.5%	1/10W	R360	1-208-486-61	RES,CHIP	1K	2%	1/8W
R242	1-216-685-11	METAL CHIP	27K	0.5%	1/10W	R362	1-208-449-61	RES,CHIP	3.3K	2%	1/10W
R243	1-216-174-00	RES,CHIP	100	2%	1/8W	R401	1-208-518-61	RES,CHIP	22K	2%	1/10W
R244	1-216-174-00	RES,CHIP	100	2%	1/8W	R402	1-208-518-61	RES,CHIP	22K	2%	1/10W
R245	1-208-534-61	RES,CHIP	100K	2%	1/10W	R403	1-208-526-61	RES,CHIP	47K	2%	1/10W
R246	1-208-534-61	RES,CHIP	100K	2%	1/10W	R404	1-208-526-61	RES,CHIP	47K	2%	1/10W
R247	1-208-435-61	RES,CHIP	820	2%	1/10W	R405	1-208-522-61	RES,CHIP	33K	2%	1/10W
R248	1-208-423-61	RES,CHIP	270	2%	1/10W	R406	1-208-522-61	RES,CHIP	33K	2%	1/10W
R249	1-208-812-11	RES,CHIP	18K	2%	1/10W	R407	1-216-471-11	METAL OXIDE	27	5%	3W F
R250	1-247-148-00	CARBON	5.1K	5%	1/4W	R434	1-208-510-61	RES,CHIP	10K	2%	1/8W
R251	1-208-373-11	RES,CHIP	2.2	2%	1/8W	R435	1-208-449-61	RES,CHIP	3.3K	2%	1/10W
R252	1-208-373-11	RES,CHIP	2.2	2%	1/8W	R436	1-249-421-11	CARBON	2.2K	5%	1/4W
R253	1-216-182-00	RES,CHIP	220	2%	1/8W	R437	1-208-441-61	RES,CHIP	1.5K	2%	1/10W
R254	1-205-991-11	METAL PLATE	0.1X2	10%	5W	R438	1-208-441-61	RES,CHIP	1.5K	2%	1/10W
R255	1-208-437-61	RES,CHIP	1K	2%	1/10W	R439	1-208-441-61	RES,CHIP	1.5K	2%	1/10W
R256	1-208-437-61	RES,CHIP	1K	2%	1/10W	R440	1-208-441-61	RES,CHIP	1.5K	2%	1/10W
R257	1-208-462-61	RES,CHIP	10K	2%	1/10W	R441	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R258	1-208-550-61	RES,CHIP	470K	2%	1/10W	R442	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R259	1-215-857-11	METAL OXIDE	10	5%	1W F	R443	1-216-174-00	RES,CHIP	100	2%	1/8W
R260	1-208-486-61	RES,CHIP	1K	2%	1/8W	R444	1-216-174-00	RES,CHIP	100	2%	1/8W
R301	1-208-518-61	RES,CHIP	22K	2%	1/10W	R445	1-208-534-61	RES,CHIP	100K	2%	1/10W
R302	1-208-518-61	RES,CHIP	22K	2%	1/10W	R446	1-208-534-61	RES,CHIP	100K	2%	1/10W
R303	1-208-526-61	RES,CHIP	47K	2%	1/10W	R447	1-208-435-61	RES,CHIP	820	2%	1/10W
R304	1-208-526-61	RES,CHIP	47K	2%	1/10W	R448	1-208-423-61	RES,CHIP	270	2%	1/10W
R305	1-208-522-61	RES,CHIP	33K	2%	1/10W	R449	1-208-812-11	RES,CHIP	18K	2%	1/10W
R306	1-208-522-61	RES,CHIP	33K	2%	1/10W	R450	1-247-148-00	CARBON	5.1K	5%	1/4W
R307	1-216-471-11	METAL OXIDE	27	5%	3W F	R451	1-208-373-11	RES,CHIP	2.2	2%	1/8W
R334	1-208-510-61	RES,CHIP	10K	2%	1/8W	R452	1-208-373-11	RES,CHIP	2.2	2%	1/8W
R335	1-208-449-61	RES,CHIP	3.3K	2%	1/10W	R453	1-216-182-00	RES,CHIP	220	2%	1/8W
R336	1-249-421-11	CARBON	2.2K	5%	1/4W	R454	1-205-991-11	METAL PLATE	0.1X2	10%	5W
R337	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R455	1-208-437-61	RES,CHIP	1K	2%	1/10W
R338	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R456	1-208-437-61	RES,CHIP	1K	2%	1/10W
R339	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R457	1-208-462-61	RES,CHIP	10K	2%	1/10W

AMP

EQ

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark		
R458	1-208-550-61	RES,CHIP	470K	2%	1/10W	R804	1-208-518-61	RES,CHIP	22K	2%	1/10W
R459	1-215-857-11	METAL OXIDE	10	5%	1W F	R805	1-208-462-61	RES,CHIP	10K	2%	1/10W
R460	1-208-486-61	RES,CHIP	1K	2%	1/8W	R806	1-208-462-61	RES,CHIP	10K	2%	1/10W
R501	1-208-518-61	RES,CHIP	22K	2%	1/10W	R807	1-208-462-61	RES,CHIP	10K	2%	1/10W
R502	1-208-518-61	RES,CHIP	22K	2%	1/10W	R808	1-208-462-61	RES,CHIP	10K	2%	1/10W
R503	1-208-522-61	RES,CHIP	33K	2%	1/10W	R824	1-208-558-61	RES,CHIP	1M	2%	1/10W
R504	1-208-522-61	RES,CHIP	33K	2%	1/10W	R831	1-208-462-61	RES,CHIP	10K	2%	1/10W
R505	1-208-437-61	RES,CHIP	1K	2%	1/10W	R832	1-208-462-61	RES,CHIP	10K	2%	1/10W
R506	1-208-526-61	RES,CHIP	47K	2%	1/10W	R833	1-208-462-61	RES,CHIP	10K	2%	1/10W
R507	1-208-812-11	RES,CHIP	18K	2%	1/10W	R834	1-208-449-61	RES,CHIP	3.3K	2%	1/10W
R508	1-208-812-11	RES,CHIP	18K	2%	1/10W	R835	1-208-526-61	RES,CHIP	47K	2%	1/10W
R509	1-208-812-11	RES,CHIP	18K	2%	1/10W	R836	1-208-462-61	RES,CHIP	10K	2%	1/10W
R510	1-208-812-11	RES,CHIP	18K	2%	1/10W	R837	1-208-462-61	RES,CHIP	10K	2%	1/10W
R511	1-208-526-61	RES,CHIP	47K	2%	1/10W	R838	1-208-449-61	RES,CHIP	3.3K	2%	1/10W
R512	1-208-526-61	RES,CHIP	47K	2%	1/10W	R839	1-208-462-61	RES,CHIP	10K	2%	1/10W
R526	1-208-774-11	RES,CHIP	470	2%	1/10W	R840	1-208-462-61	RES,CHIP	10K	2%	1/10W
R534	1-208-510-61	RES,CHIP	10K	2%	1/8W	R847	1-208-510-61	RES,CHIP	10K	2%	1/8W
R535	1-208-449-61	RES,CHIP	3.3K	2%	1/10W	R848	1-208-437-61	RES,CHIP	1K	2%	1/10W
R536	1-249-421-11	CARBON	2.2K	5%	1/4W	R849	1-216-698-11	METAL CHIP	91K	0.5%	1/10W
R537	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R850	1-208-522-61	RES,CHIP	33K	2%	1/10W
R538	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R851	1-208-462-61	RES,CHIP	10K	2%	1/10W
R539	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R852	1-208-462-61	RES,CHIP	10K	2%	1/10W
R540	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	R853	1-208-462-61	RES,CHIP	10K	2%	1/10W
R541	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	R854	1-208-462-61	RES,CHIP	10K	2%	1/10W
R542	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	R855	1-208-558-61	RES,CHIP	1M	2%	1/10W
R543	1-216-182-00	RES,CHIP	220	2%	1/8W	R856	1-208-494-61	RES,CHIP	2.2K	2%	1/8W
R544	1-216-182-00	RES,CHIP	220	2%	1/8W	R857	1-208-462-61	RES,CHIP	10K	2%	1/10W
R545	1-208-534-61	RES,CHIP	100K	2%	1/10W	R858	1-208-462-61	RES,CHIP	10K	2%	1/10W
R546	1-208-534-61	RES,CHIP	100K	2%	1/10W	R859	1-208-462-61	RES,CHIP	10K	2%	1/10W
R547	1-208-435-61	RES,CHIP	820	2%	1/10W	R860	1-208-462-61	RES,CHIP	10K	2%	1/10W
R548	1-208-423-61	RES,CHIP	270	2%	1/10W	R861	1-208-462-61	RES,CHIP	10K	2%	1/10W
R549	1-208-812-11	RES,CHIP	18K	2%	1/10W	R862	1-208-558-61	RES,CHIP	1M	2%	1/10W
R550	1-249-565-11	CARBON	3.6K	5%	1/4W	< THERMISTOR (POSITIVE) >					
R551	1-208-373-11	RES,CHIP	2.2	2%	1/8W	TH802 1-809-664-51 THERMISTOR, POSITIVE					
R552	1-208-373-11	RES,CHIP	2.2	2%	1/8W	< DIODE >					
R553	1-216-182-00	RES,CHIP	220	2%	1/8W	ZD801	8-719-025-34	DIODE 02CZ6.8-TE85L	*****		
R554	1-205-991-11	METAL PLATE	0.1X2	10%	5W	* A-3317-656-A EQ BOARD, COMPLETE					
R555	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	*****					
R556	1-208-437-61	RES,CHIP	1K	2%	1/10W	< CAPACITOR >					
R557	1-208-462-61	RES,CHIP	10K	2%	1/10W	C111	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
R558	1-208-550-61	RES,CHIP	470K	2%	1/10W	C112	1-130-497-00	MYLAR	0.15uF	5%	50V
R559	1-215-857-11	METAL OXIDE	10	5%	1W F	C113	1-130-497-00	MYLAR	0.15uF	5%	50V
R560	1-216-210-00	RES,CHIP	3.3K	2%	1/8W	C114	1-126-022-11	ELECT	47uF	20%	10V
R562	1-208-449-61	RES,CHIP	3.3K	2%	1/10W	C115	1-126-022-11	ELECT	47uF	20%	10V
R601	1-208-518-61	RES,CHIP	22K	2%	1/10W	C117	1-130-496-00	MYLAR	0.12uF	5%	50V
R602	1-208-518-61	RES,CHIP	22K	2%	1/10W	C118	1-126-046-11	ELECT	3.3uF	20%	50V
R603	1-208-522-61	RES,CHIP	33K	2%	1/10W	C119	1-130-487-00	MYLAR	0.022uF	5%	50V
R604	1-208-522-61	RES,CHIP	33K	2%	1/10W	C120	1-126-044-11	ELECT	1uF	20%	50V
R660	1-208-486-61	RES,CHIP	1K	2%	1/8W						
R801	1-208-518-61	RES,CHIP	22K	2%	1/10W						
R802	1-208-518-61	RES,CHIP	22K	2%	1/10W						
R803	1-208-518-61	RES,CHIP	22K	2%	1/10W						

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C121	1-136-293-11	MYLAR	0.0082uF	5%	50V	< RESISTOR >					
C122	1-130-499-00	MYLAR	0.22uF	5%	50V	R108	1-208-462-61	RES,CHIP	10K	2%	1/10W
C123	1-130-475-00	MYLAR	0.0022uF	5%	50V	R109	1-208-518-61	RES,CHIP	22K	2%	1/10W
C124	1-130-491-00	MYLAR	0.047uF	5%	50V	R110	1-208-462-61	RES,CHIP	10K	2%	1/10W
C125	1-130-467-00	MYLAR	470PF	5%	50V	R111	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
C126	1-130-485-00	MYLAR	0.015uF	5%	50V	R112	1-208-462-61	RES,CHIP	10K	2%	1/10W
C127	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V	R113	1-208-453-61	RES,CHIP	4.7K	2%	1/10W
C128	1-126-022-11	ELECT	47uF	20%	10V	R114	1-208-453-61	RES,CHIP	4.7K	2%	1/10W
C129	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	R115	1-208-534-61	RES,CHIP	100K	2%	1/10W
C137	1-165-319-11	CERAMIC CHIP	0.1uF		50V	R116	1-208-534-61	RES,CHIP	100K	2%	1/10W
C144	1-165-319-11	CERAMIC CHIP	0.1uF		50V	R117	1-208-534-61	RES,CHIP	100K	2%	1/10W
C151	1-126-022-11	ELECT	47uF	20%	10V	R118	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
C152	1-165-319-11	CERAMIC CHIP	0.1uF		50V	R119	1-208-526-61	RES,CHIP	47K	2%	1/10W
C211	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	R120	1-208-776-11	RES,CHIP	560	2%	1/10W
C212	1-130-497-00	MYLAR	0.15uF	5%	50V	R121	1-208-826-11	RES,CHIP	68K	2%	1/10W
C213	1-130-497-00	MYLAR	0.15uF	5%	50V	R122	1-208-774-11	RES,CHIP	470	2%	1/10W
C214	1-126-022-11	ELECT	47uF	20%	10V	R123	1-208-526-61	RES,CHIP	47K	2%	1/10W
C215	1-126-022-11	ELECT	47uF	20%	10V	R124	1-208-774-11	RES,CHIP	470	2%	1/10W
C217	1-130-496-00	MYLAR	0.12uF	5%	50V	R125	1-208-526-61	RES,CHIP	47K	2%	1/10W
C218	1-126-046-11	ELECT	3.3uF	20%	50V	R126	1-208-774-11	RES,CHIP	470	2%	1/10W
C219	1-130-487-00	MYLAR	0.022uF	5%	50V	R127	1-208-526-61	RES,CHIP	47K	2%	1/10W
C220	1-126-044-11	ELECT	1uF	20%	50V	R128	1-208-774-11	RES,CHIP	470	2%	1/10W
C221	1-136-293-11	MYLAR	0.0082uF	5%	50V	R129	1-208-526-61	RES,CHIP	47K	2%	1/10W
C222	1-130-499-00	MYLAR	0.22uF	5%	50V	R130	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
C223	1-130-475-00	MYLAR	0.0022uF	5%	50V	R131	1-208-526-61	RES,CHIP	47K	2%	1/10W
C224	1-130-491-00	MYLAR	0.047uF	5%	50V	R132	1-208-510-61	RES,CHIP	10K	2%	1/8W
C225	1-130-467-00	MYLAR	470PF	5%	50V	R133	1-208-370-31	RES,CHIP	160	2%	1/10W
C226	1-130-485-00	MYLAR	0.015uF	5%	50V	R208	1-208-462-61	RES,CHIP	10K	2%	1/10W
C227	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V	R209	1-208-518-61	RES,CHIP	22K	2%	1/10W
C228	1-126-022-11	ELECT	47uF	20%	10V	R210	1-208-462-61	RES,CHIP	10K	2%	1/10W
C229	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	R211	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
C237	1-165-319-11	CERAMIC CHIP	0.1uF		50V	R212	1-208-462-61	RES,CHIP	10K	2%	1/10W
C244	1-165-319-11	CERAMIC CHIP	0.1uF		50V	R213	1-208-453-61	RES,CHIP	4.7K	2%	1/10W
C251	1-126-022-11	ELECT	47uF	20%	10V	R214	1-208-453-61	RES,CHIP	4.7K	2%	1/10W
C252	1-165-319-11	CERAMIC CHIP	0.1uF		50V	R215	1-208-534-61	RES,CHIP	100K	2%	1/10W
C253	1-165-319-11	CERAMIC CHIP	0.1uF		50V	R216	1-208-534-61	RES,CHIP	100K	2%	1/10W
< CONNECTOR >						R217	1-208-534-61	RES,CHIP	100K	2%	1/10W
CNJ806 1-793-041-11 CONNECTOR, BOARD TO BOARD 10P						R218	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
< IC >						R219	1-208-526-61	RES,CHIP	47K	2%	1/10W
IC102	8-759-711-82	IC NJM4580E				R220	1-208-776-11	RES,CHIP	560	2%	1/10W
IC103	8-759-711-82	IC NJM4580E				R221	1-208-826-11	RES,CHIP	68K	2%	1/10W
IC104	8-759-711-82	IC NJM4580E				R222	1-208-774-11	RES,CHIP	470	2%	1/10W
IC105	8-759-711-82	IC NJM4580E				R223	1-208-526-61	RES,CHIP	47K	2%	1/10W
IC106	8-759-711-82	IC NJM4580E				R224	1-208-774-11	RES,CHIP	470	2%	1/10W
IC107	8-759-711-82	IC NJM4580E				R225	1-208-526-61	RES,CHIP	47K	2%	1/10W
IC108	8-759-711-82	IC NJM4580E				R226	1-208-774-11	RES,CHIP	470	2%	1/10W
IC109	8-759-711-82	IC NJM4580E				R227	1-208-526-61	RES,CHIP	47K	2%	1/10W
IC110	8-759-711-82	IC NJM4580E				R228	1-208-774-11	RES,CHIP	470	2%	1/10W
IC203	8-759-711-82	IC NJM4580E				R229	1-208-526-61	RES,CHIP	47K	2%	1/10W
						R230	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
						R231	1-208-526-61	RES,CHIP	47K	2%	1/10W
						R232	1-208-510-61	RES,CHIP	10K	2%	1/8W

EQ **IND** **LED**

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R881	1-208-494-61	RES,CHIP	2.2K	2%	1/8W	D902	8-719-054-55	DIODE 1SS306(TE85L)			
R882	1-208-494-61	RES,CHIP	2.2K	2%	1/8W	D903	8-719-023-35	DIODE FMG-32S			

POWER BOARD (SUPPLIED WITH AMP/POWER BOARD, COMPLETE)											

< CAPACITOR >											
C814	1-165-319-11	CERAMIC CHIP	0.1uF		50V	D904	8-719-023-34	DIODE FMG-32R			
C901	1-136-899-11	MYLAR	0.47uF	5%	50V	D905	8-719-801-78	DIODE 1SS184			
C902	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	D906	8-719-801-78	DIODE 1SS184			
C903	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	D907	8-719-054-55	DIODE 1SS306(TE85L)			
C904	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	D908	8-719-054-55	DIODE 1SS306(TE85L)			
C905	1-130-471-00	MYLAR	0.001uF	5%	50V	D909	8-719-210-30	DIODE F10P20F(R)			
C906	1-126-006-11	ELECT	22uF	20%	16V	D910	8-719-210-38	DIODE F10P20FR			
C907	1-124-994-11	ELECT	100uF	20%	10V	D911	8-719-801-78	DIODE 1SS184			
C908	1-126-023-11	ELECT	100uF	20%	16V	D912	8-719-801-78	DIODE 1SS184			
C909	1-130-495-11	MYLAR	0.1uF	5%	50V	D913	8-719-991-33	DIODE 1SS133T-77			
C910	1-126-015-11	ELECT	3300uF	20%	16V	< IC >					
C911	1-126-015-11	ELECT	3300uF	20%	16V	IC901	8-759-144-88	IC uPC494GS			
C912	1-126-015-11	ELECT	3300uF	20%	16V	< JUMPER RESISTOR >					
C913	1-126-015-11	ELECT	3300uF	20%	16V	JR35	1-216-295-00	METAL CHIP	0	5%	1/10W
C914	1-130-495-11	MYLAR	0.1uF	5%	50V	< COIL >					
C915	1-130-495-11	MYLAR	0.1uF	5%	50V	L901	1-416-322-11	INDUCTOR	278uH		
C916	1-115-410-11	ELECT(BLOCK)	5600uF	20%	35V	L902	1-410-396-71	INDUCTOR	0.45uH		
C917	1-115-410-11	ELECT(BLOCK)	5600uF	20%	35V	L903	1-410-396-71	INDUCTOR	0.45uH		
C918	1-126-052-11	ELECT	100uF	20%	35V	L904	1-410-396-71	INDUCTOR	0.45uH		
C919	1-126-052-11	ELECT	100uF	20%	35V	L905	1-410-396-71	INDUCTOR	0.45uH		
C920	1-130-495-11	MYLAR	0.1uF	5%	50V	L906	1-410-396-71	INDUCTOR	0.45uH		
C921	1-130-495-11	MYLAR	0.1uF	5%	50V	L907	1-410-396-71	INDUCTOR	0.45uH		
C922	1-128-712-11	ELECT(BLOCK)	3300uF	20%	50V	L908	1-410-396-71	INDUCTOR	0.45uH		
C923	1-128-712-11	ELECT(BLOCK)	3300uF	20%	50V	< PILOT LAMP >					
C924	1-126-052-11	ELECT	100uF	20%	50V	PL801	1-518-540-00	LAMP, PILOT			
C925	1-126-052-11	ELECT	100uF	20%	50V	< TRANSISTOR >					
C930	1-165-319-11	CERAMIC CHIP	0.1uF		50V	Q901	8-729-230-49	TRANSISTOR 2SC2712-YG			
C931	1-165-319-11	CERAMIC CHIP	0.1uF		50V	Q902	8-729-041-38	TRANSISTOR 2SB1241TV2Q			
C932	1-126-023-11	ELECT	100uF	20%	16V	Q903	8-729-216-21	TRANSISTOR 2SA1162-Y			
C933	1-126-023-11	ELECT	100uF	20%	16V	Q904	8-729-207-82	TRANSISTOR 2SC3421-Y			
C934	1-126-023-11	ELECT	100uF	20%	16V	Q905	8-729-230-49	TRANSISTOR 2SC2712-YG			
C935	1-126-044-11	ELECT	1uF	20%	50V	Q906	8-729-230-49	TRANSISTOR 2SC2712-YG			
C936	1-124-994-11	ELECT	100uF	20%	10V	Q907	8-729-030-72	FET MTAJ50N05HD			
C941	1-130-467-00	MYLAR	470PF	5%	50V	Q908	8-729-030-72	FET MTAJ50N05HD			
< TERMINAL TABLE >											
CN801	1-694-511-11	TABLE, TERMINAL (3P) (REMOTE/+12V/GND)				Q909	8-729-030-72	FET MTAJ50N05HD			
< CONNECTOR >											
* CNJ812	1-774-350-11	CONNECTOR, FFC/FPC (ZIF) 23P				Q910	8-729-030-72	FET MTAJ50N05HD			
< DIODE >											
D802	8-719-801-78	DIODE 1SS184				Q911	8-729-209-15	TRANSISTOR 2SD2012			
D901	8-719-054-55	DIODE 1SS306(TE85L)				Q912	8-729-141-83	TRANSISTOR 2SB1094-LK			
< RESISTOR >											
R841	1-208-526-61	RES,CHIP		47K	2%	1/10W					
R842	1-208-522-61	RES,CHIP		33K	2%	1/10W					
R843	1-208-423-61	RES,CHIP		270	2%	1/10W					
R844	1-208-449-61	RES,CHIP		3.3K	2%	1/10W					
R845	1-208-583-61	RES,CHIP		220K	2%	1/8W					

POWER

SUB

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
MISCELLANEOUS			

12	1-790-766-11	CABLE, PARALLEL (23P)	
61	1-790-765-11	CABLE, PARALLEL (5P)	
64	1-790-764-11	CABLE, PARALLEL (4P)	
F901	1-533-743-11	FUSE (BLADE TYPE) (AUTO FUSE) (40A)	

ACCESSORIES & PACKING MATERIALS			

3-013-264-01		COVER, 3P TERMINAL TABLE	
3-367-410-01		SCREW (DIA. 5X15), TAPPING	
3-866-148-11		MANUAL, INSTRUCTION (ENGLISH,FRENCH) (EXCEPT G)	
3-866-148-21		MANUAL, INSTRUCTION (GERMAN,ITALIAN) (AEP,UK,E,G)	
3-866-148-31		MANUAL, INSTRUCTION (SPANISH, PORTUGUESE) (AEP,UK,E)	
3-866-148-41		MANUAL, INSTRUCTION (DUTCH,SWEDISH) (AEP,UK,E)	
3-866-148-51		MANUAL, INSTRUCTION (RUSSIAN) (G)	

HARDWARE LIST			

#1	7-685-546-19	SCREW +BTP 3X8 TYPE2 N-S	
#2	7-685-543-21	SCREW +BTP 3X4 TYPE2	
#3	7-685-544-11	SCREW +BTP 3X5 TYPE2 N-S	
#4	7-685-548-19	SCREW +BTP 3X12 TYPE2 N-S	
#5	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#6	7-682-949-01	SCREW +PSW 3X10	
#7	7-682-948-01	SCREW +PSW 3X8	
#8	7-685-146-01	SCREW +P 3X8 TYPE1	
#9	7-682-648-09	SCREW +PS 3X8	
#10	7-685-790-09	SCREW +PTT 2.6X4 (S)	
#11	7-621-775-20	+B 2.6X5	
#12	7-685-103-19	SCREW +P 2X5 TYPE2 SLIT	
#13	7-685-783-09	SCREW +PTT 2X6 (S)	
#14	7-682-546-09	+B 3X5	

