

KENWOOD

KAC-X501F

4-CHANNEL POWER AMPLIFIER ▶ Page 2-15

INSTRUCTION MANUAL

AMPLIFICATEUR DE PUISSANCE 4 CANAUX ▶ Page 16-29

MODE D'EMPLOI

AMPLIFICADOR DE POTENCIA DE 4 CANALES ▶ Page 30-43

MANUAL DE INSTRUCCIONES

KENWOOD CORPORATION

**Take the time to read through this instruction manual.
Familiarity with installation and operation procedures will help
you obtain the best performance from your new power amplifier.**

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below.

Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.

Model KAC-X501F Serial number _____

Safety precautions

▲WARNING

To prevent injury or fire, take the following precautions:

- When extending the ignition, battery, or ground wires, make sure to use automotive-grade wires or other wires with a 10 mm² (AWG8) [5 mm² (AWG10) × 2] or more to prevent wire deterioration and damage to the wire coating.
- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.
- Do not touch the unit during use because the surface of the unit becomes hot and may cause burns if touched.

▲CAUTION

To prevent damage to the machine, take the following precautions:

- Be sure the unit is connected to a 12V DC power supply with a negative ground connection.
- Do not open the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- To prevent a short circuit when replacing a fuse, first disconnect the wiring harness.

NOTE

- If you experience problems during installation, consult your Kenwood dealer.
- If the unit does not seem to be working right, consult your Kenwood dealer.

Cleaning the unit

If the front panel gets dirty, turn off the power and wipe the panel with a dry silicon cloth or soft cloth.



▲CAUTION

Do not wipe the panel with a hard cloth or a cloth dampened by volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or cause the indicator letters to peel off.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

Accessories

| Part name | External View | Number of Items |
|----------------------------------|---|-----------------|
| Terminal cover (Power terminal) |  | 1 |
| Self-tapping screws (ø5 × 18 mm) |  | 4 |

Installation procedure

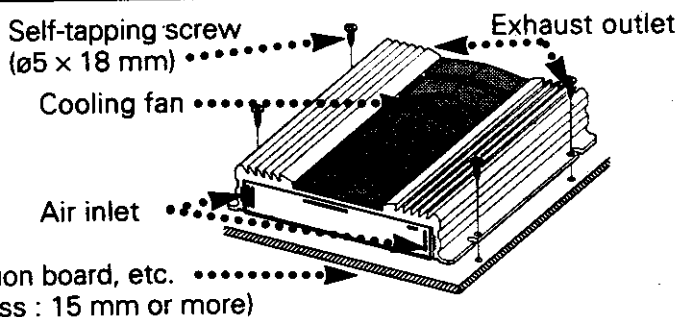
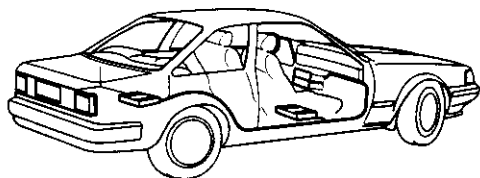
Since there are large variety of settings and connections possible according to applications, read the instruction manual well to select the proper setting and connection.

1. Remove the ignition key and disconnect the negative ⊖ terminal of the battery to prevent short circuits.
2. Set the unit according to the intended usage.
3. Connect the input and output cables of the units.
4. Connect the speaker wires.
5. Connect the power wire, power control wire and grounding wire following this order.
6. Install the unit in the car.
7. Connect the negative ⊖ terminal of the battery.

▲CAUTION

- Be sure to turn the power off before changing the setting of any switch.
- If the fuse blows, check wires for shorts, then replace the fuse with one of the same rating.
- Check that no unconnected cables or connectors are touching the car body. Do not remove caps from unconnected cables or connectors to prevent short circuits.
- Connect the speaker wires to appropriate speaker connectors separately. Sharing the negative wire of the speaker or grounding speaker wires to the metal body of the car can cause this unit to fail.
- After installation, check that the brake lamps, wipers, and wipers work properly.

Installation



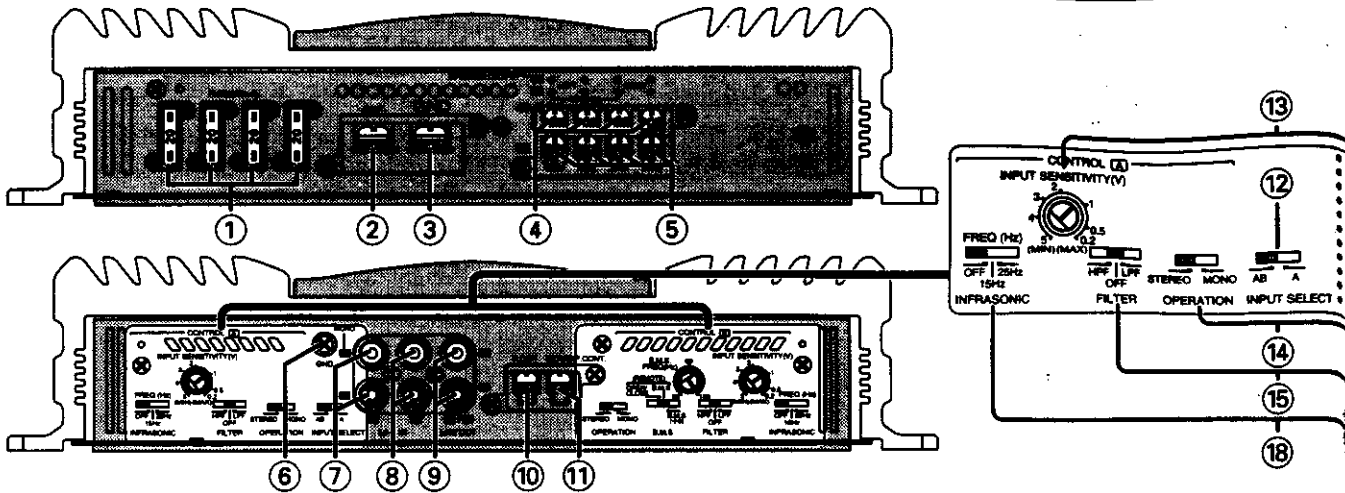
- Since the power amplifier has no parts which require operation, it can be installed at a position away from the driver's seat without any hindrances. As generally accepted positions for its installation, places such as inside the trunk, etc. can be considered.
- Use the extension cables. (Optional.)

| Type \ Length | 0.5m | 1m | 2m | 4m | 5m | 6m |
|-------------------|--------|---------|---------|--------|---------|--------|
| RCA cable | CA-2SL | CA-12SL | CA-22SL | — | CA-52SL | — |
| RCA cable (ø7mm) | CA-3WL | CA-13WL | CA-23WL | — | CA-53WL | — |
| RCA cable (ø12mm) | CA-5W | CA-15W | CA-25W | CA-45W | — | CA-65W |

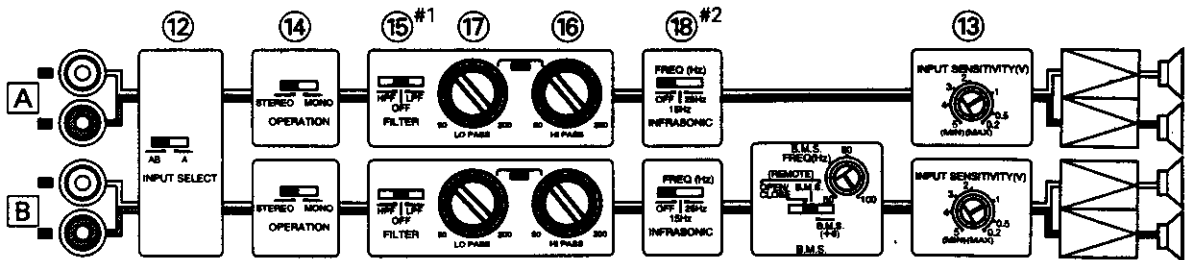
▲CAUTION

- Do not install the unit under the carpet. Otherwise heat build-up occurs and the unit may be damaged.
- Install this unit in a location which allows heat to easily dissipate. Once installed, do not place any object on top of the unit.
- The surface temperature of the amplifier will become hot during use. Install the amplifier in a place where people, resins, and other substances that are sensitive to heat will not come into contact with it.
- This unit has cooling fans to decrease the internal temperature. Be careful not to block the cooling fan openings when installing the unit. Blocking these openings will inhibit the cooling of the internal temperature and result in malfunction.
- When making a hole under a seat, inside the trunk, or somewhere else in the vehicle, check that there is nothing hazardous on the opposite side such as a gasoline tank, brake pipe, or wiring harness, and be careful not to cause scratches or other damage.
- Do not install near the dashboard, rear tray, or air bag safety parts.
- The installation to the vehicle should securely fasten the unit to a place in which it will not obstruct driving. If the unit comes off due to a shock and hits a person or safety part, it may cause injury or an accident.
- After installing the unit, check to make sure that electrical equipment such as the brake lamps, turn signal lamps and windshield wipers operate normally.

Controls



This is a 4 channel amplifier including 2 stereo amplifiers in a body. One amplifier is referred to as amplifier A and the other is amplifier B. This unit is compatible with a large variety of systems by combining the switches and functions described in the following.



Block diagram

#1 When FILTER is set to LPF, the sound is monaural (L+R).

#2 When INFRASONIC is set to 15Hz or 25Hz, the sound is monaural (L+R).

* Note that if OPERATION is set to MONO, Lch is still monaural.

- ① **Fuse (20 A × 4)**
- ② **Battery terminal**
- ③ **Ground terminal**
- ④ **Amplifier A speaker output terminals**
- ⑤ **Amplifier B speaker output terminals**

❖ **SPEAKER OUTPUT terminals**

• **Stereo Connections:**

When you wish to use the unit as a stereo amplifier, stereo connections are used. The speakers to be connected should have an impedance of 2Ω or greater. When multiple speakers are to be connected, ensure that the combined impedance is 2Ω or greater for each channel.

• **Bridged Connections:**

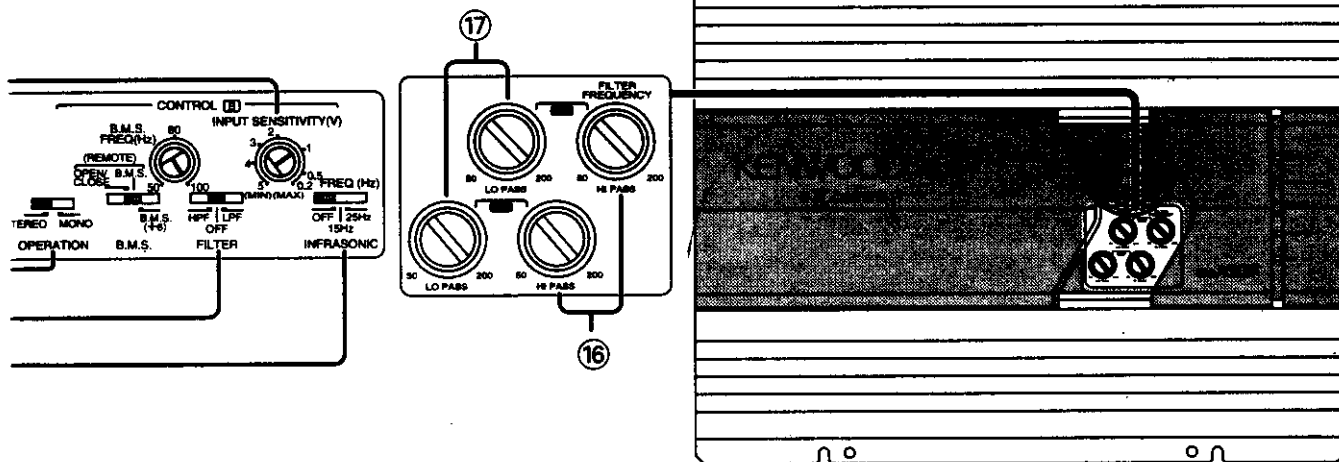
When you wish to use the unit as a high-output monaural amplifier, bridged connections are used. (Make connections to the LEFT channel (+) and the RIGHT channel (-) SPEAKER OUTPUT terminals.)

The speakers to be connected should have an impedance of 4Ω or greater. When multiple speakers are to be connected, ensure that the combined impedance is 4Ω or greater.

▲ CAUTION

The rated input of the speakers should be no less than the maximum output of the amplifier. Otherwise malfunction may result.

- ⑥ **RCA cable ground lead terminal**
- ⑦ **Amplifier A LINE IN terminal**
- ⑧ **Amplifier B LINE IN terminal**
- ⑨ **LINE OUT terminal**
These jacks output respectively the signals input to amplifiers A and B. They always output the stereo signals regardless of the position of the OPERATION switch.
- ⑩ **Power control terminal**
- ⑪ **EXT.AMP.CONT. (external amplifier control) terminal**
This controls the B.M.S. (See P.6).



12 INPUT SELECTOR switch

This switch selects the input method of the signals to be amplified by amplifiers A and B.

• A B position:

Amplifies both of the signals input to amplifiers A and B.

• A position:

Amplifies only signal input amplifier A with both amplifiers A and B.

13 INPUT SENSITIVITY control

Adjust this control according to the pre-out level of the center unit connected to this amplifier.

The sensitivities of amplifiers A and B can be adjusted independently regardless of the position of the input selector switch.

NOTE

Refer to "Specifications" on the center unit's instruction manual about the pre-out level.

14 OPERATION switch

The amplification methods of the signals input to amplifiers A and B can be selected independently according to the setting of this switch.

• STEREO position:

The amplifier can be used as a stereo amplifier.

• MONO (Lch) position:

Amplifies the signal input from the left side only. Set to this position and make bridged connections to use as a high-power monaural amplifier. (The input right signal is not output.)

15 FILTER switch

This switch allows to apply high-pass or low-pass filtering to the speaker outputs.

• HPF (High-Pass Filter) position:

The filter outputs the band of higher frequencies than the frequency set with the HPF FREQUENCY control.

• OFF position:

The entire bandwidth is output without filtering.

• LPF (Low-Pass Filter) position:

The filter outputs the band of lower frequencies than the frequency set with the LPF FREQUENCY control.

The speaker output is automatically turned monaural (L+R) and the bass boost function is activated.

16 HPF FREQUENCY control

Sets the cutoff frequency when the FILTER switch is set to HPF.

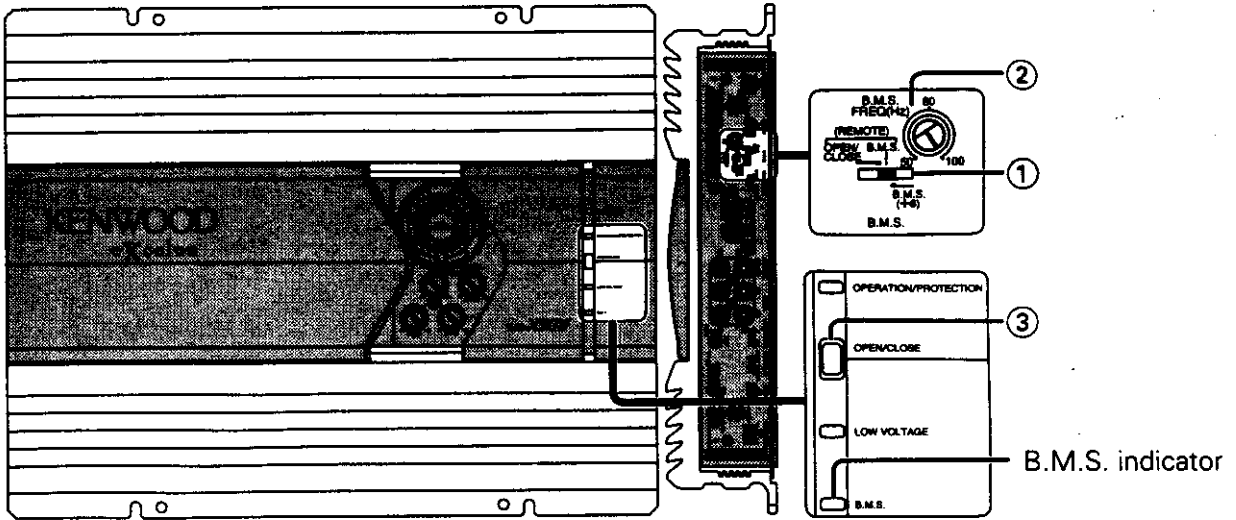
17 LPF FREQUENCY control

Sets the cutoff frequency when the FILTER switch is set to LPF.

18 INFRASONIC FILTER switch

When this switch is set to 15 Hz or 25 Hz, frequencies below the setting value will be cut. This serves to get rid of unwanted vibrations that do not result in sound and improves the speakers' ability to reproduce sound. Note that the speaker output will automatically be set for monaural (L+R) sound.

B.M.S. (Bass Management System)



■ If the unit is not going to be operated from the outside:

① B.M.S. switch

This boosts the bass, focusing mainly on the frequency setting determined using the B.M.S. FREQUENCY control. The bass boost applies only to the B amplifier.

• (REMOTE) OPEN/CLOSE or (REMOTE) B.M.S. position:

When the switch is in this position, the bass is not boosted.

| | |
|-------------|--|
| Bass boost | Flat (OFF) |
| Slide panel | Operations using the OPEN/CLOSE button |

• B.M.S. (+6) position:

When the switch is in this position, the bass is boosted by 6dB. The B.M.S. indicator glows.

| | |
|-------------|--|
| Bass boost | +6dB (ON) |
| Slide panel | Operations using the OPEN/CLOSE button |

② B.M.S. FREQUENCY control

When the B.M.S. switch is set to the B.M.S. (+6) position, this control can be used to adjust the central frequency that you want to emphasise.

③ OPEN/CLOSE button

Each time you press this button, the slide panel either opens or closes.

NOTE

- If the slide panel meets an obstacle while sliding, the slide operation will be halted. If this happens, remove the obstacle and then press the OPEN/CLOSE button again.
- If the center unit power is switched OFF, or the vehicle engine is switched OFF, while the slide panel is open, the slide panel will then close automatically. The next time the power is turned ON or the vehicle engine is turned ON, the slide panel will return to its original open state.
- If the B.M.S. switch setting is changed to (REMOTE), the slide panel will close in preparation for remote operation, even if the EXT.AMP.CONT. terminal is not connected.

▲ CAUTION

Take care not to allow your finger or any other object to be trapped by the slide panel while it is sliding.

■ **If the unit is going to be operated from the center unit:**

The amount of bass and the opening/closing of the slide panel can be controlled from the center unit. Additionally, up to 3 power amplifiers can be set at the same time.

NOTE

Kenwood center units released in 1999 or later having an "EXT.AMP.CONT." wire operate this unit. Instructions on how to operate the center unit will be found in the instruction manual supplied with the center unit.

① **B.M.S. switch**

This switch is used to select the range of control operations that can be carried out from the center unit.

The bass boost only applies to the B amplifier.

When the bass boost is switched ON, the B.M.S. indicator glows.

• **(REMOTE) OPEN/CLOSE position:**

When the switch is in this position, only the opening/closing of the slide panel can be controlled from the center unit; the bass cannot be boosted.

| Center unit setting status | AMP BASS Flat | AMP BASS +6 | AMP BASS +12 |
|----------------------------|---------------|-------------|--------------|
| Bass boost | Flat (OFF) | | |
| Slide panel | CLOSE | OPEN | |

• **(REMOTE) B.M.S. position:**

When the switch is in this position, any of the three bass boost settings — FLAT, +6dB and +12dB — can be selected from the center unit. If "+6 dB" or "+12 dB" is selected, the slide panel will open.

| Center unit setting status | AMP BASS Flat | AMP BASS +6 | AMP BASS +12 |
|----------------------------|---------------|-------------|--------------|
| Bass boost | Flat (OFF) | +6dB (ON) | +12dB (ON) |
| Slide panel | CLOSE | OPEN | |

• **B.M.S. (+6) position:**

When the switch is in this position, the bass is boosted by 6dB, regardless of any operation carried out from the center unit.

| Center unit setting status | AMP BASS Flat | AMP BASS +6 | AMP BASS +12 |
|----------------------------|--|-------------|--------------|
| Bass boost | +6dB (ON) | | |
| Slide panel | Operations using the OPEN/CLOSE button | | |

② **B.M.S. FREQUENCY control**

This control allows you to use the B.M.S. to adjust the central frequency that you want to emphasise.

③ **OPEN/CLOSE button**

- When the B.M.S. switch is in the B.M.S. (+6) position, the slide panel will open or close each time the button is pressed.
- When the B.M.S. switch is set to the (REMOTE) position, the center unit will control the slide panel.
If you want to adjust the control inside the slide panel, you can open/close the slide panel temporarily by pressing the OPEN/CLOSE button.

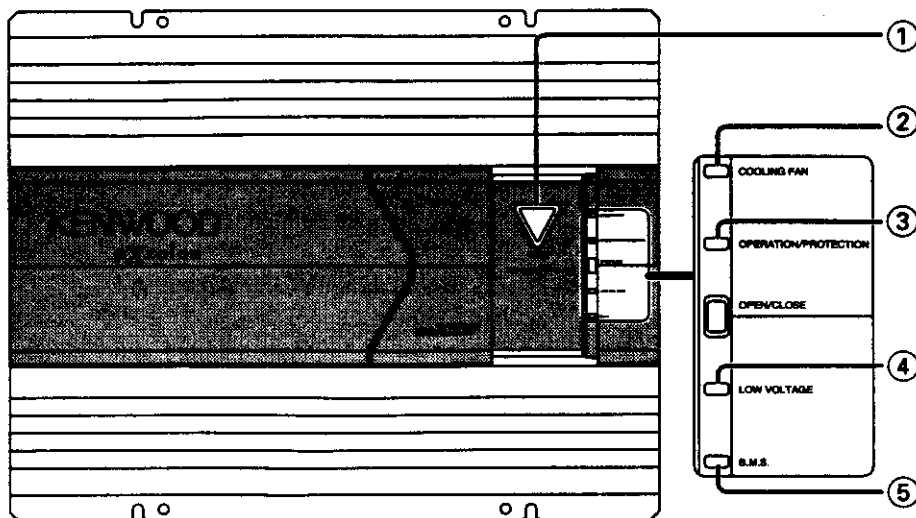
NOTE

- If the slide panel meets an obstacle while sliding, the slide operation will be halted. If this happens, remove the obstacle and then press the OPEN/CLOSE button again.
- When the B.M.S. is in the (REMOTE) position, and control operations are carried out on the center unit, the slide panel will return to the status set on the center unit even if it is opened/closed using the OPEN/CLOSE button.
- If the center unit power is switched OFF, or the vehicle engine is turned OFF, when the slide panel is open, the slide panel will automatically close.
When the power is turned back ON, or when the vehicle engine is turned ON, the slide panel will carry out an action depending on the setting status of the B.M.S. switch, as follows.
 - * If the B.M.S. switch is in the (REMOTE) position, the slide panel will obey the setting on the center unit.
 - * If the B.M.S. switch is in the B.M.S. (+6) position, the slide panel will return to its original open state.

▲ CAUTION

Take care not to allow your finger or any other object to be trapped by the slide panel while it is sliding.

Indicator



① **POWER indicator**

This indicator glows when the unit's power is turned ON.

② **COOLING FAN indicator**

When the unit's internal temperature rises, the side fan is activated. If the internal temperature rises even further, the slide panel opens automatically, and the cooling fan on the top is activated.

While the top cooling fan is in operation, the COOLING FAN indicator blinks.

③ **OPERATION/PROTECTION indicator**

This indicator glows when the power comes ON normally.

If the PROTECTION function is activated, the indicator blinks or goes out.

④ **LOW VOLTAGE indicator**

This indicator glows when the power voltage falls below 11V (volts).

If the power supply voltage returns to full after a voltage drop, this indicator will blink to alert the user that a voltage drop has occurred.

The number of blinks indicates the number of times the voltage has dropped (up to a maximum of 10).

⑤ **B.M.S. indicator**

This indicator glows when the bass boost is turned ON using the B.M.S. (See P.6).

NOTE

If indicators ② to ⑤ light up in succession or blink in unison, the system is in DEMO mode. If this happens, cancel DEMO mode by pressing the OPEN/CLOSE button.

■ **PROTECTION function**

This unit incorporates a protection function which protects the main unit and speakers from troubles. The unit stops to function when the protection function is activated.

• **When the OPERATION/PROTECTION indicator blinks:**

- A speaker wire may be short-circuited.
- A speaker output may be in contact with the ground.
- The temperature of the internal parts may be higher than 120°C (248°F)
- The fuse of this unit may be blown.
- The unit may be malfunctioning and sending DC signal to the speaker output.

• **When the POWER indicator and the OPERATION/PROTECTION function both go out:**

- The fuse of this unit may be blown.

• **When the LOW VOLTAGE indicator glows or blinks:**

- Is the battery exhausted?
- The car battery has a small capacity.
- If the battery wire is too thin or too long, it will not be able to supply enough power.
- Is the battery wire deteriorated?

Connection

■ Power wire connection

▲WARNING

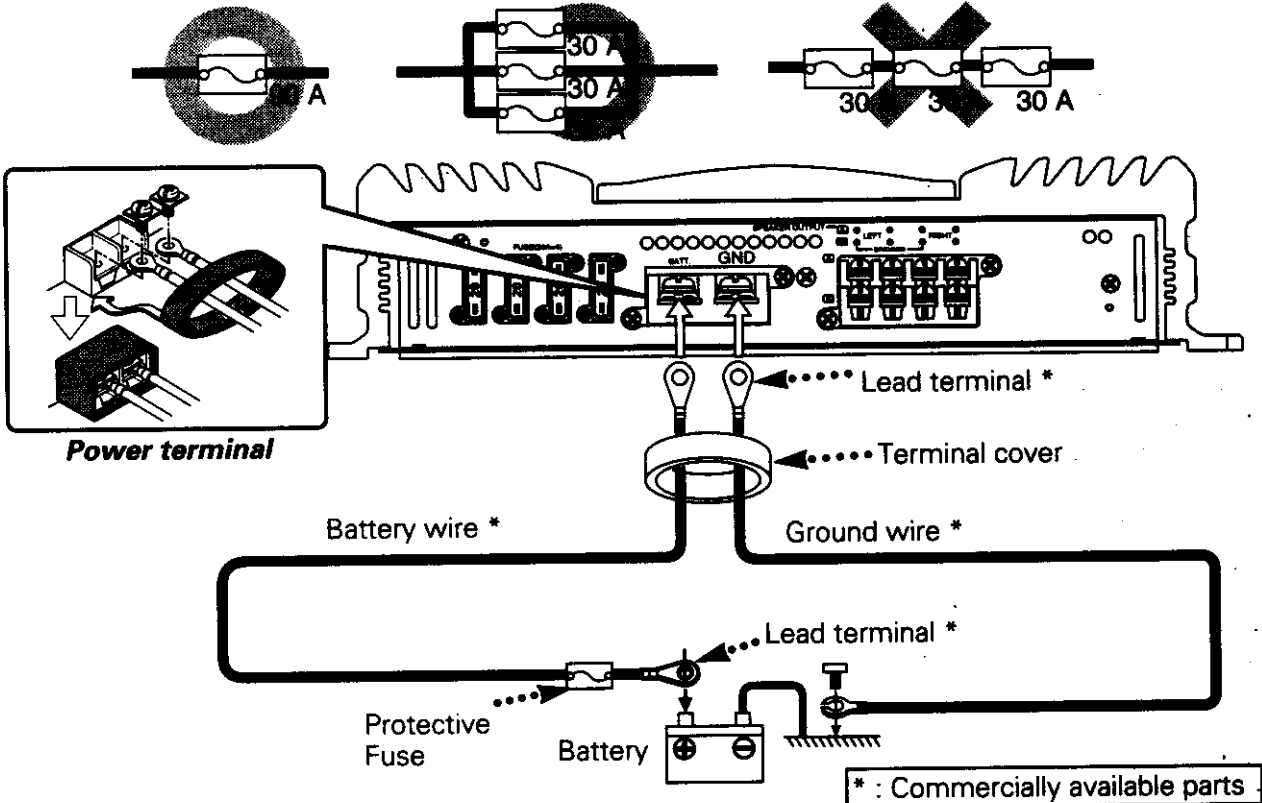
To prevent fire caused by a short in the wiring, connect a fusible link or breaker nearby the battery's positive terminal.

Wiring

- If a buzzing noise is heard from the speakers when the engine is running, connect a line noise filter (optional) to each of the battery wire.
- Do not allow the wire to directly contact the edge of the iron plate by using Grommets.
- Connect the ground wire to a metal part of the car chassis that acts as an electrical ground passing electricity to the battery's negative \ominus terminal. Do not turn the power on if the ground wire is not connected.
- Please be sure to install a protective fuse in the power wire, near the battery. Use a fuse which has a capacity about 10A higher than the capacity of the fuse in the unit.
- For the power wire and the earth wire, use (flame-resistant) power wiring wires for in-car use. For the power wire, use a power wiring wire with a current capacity about 10A higher than the capacity of the protective fuse (about 20A higher than the capacity of the fuse in the unit).
- When more than one power amplifier are going to be used, use a power supply wiring wiew and protective fuse of greater current-handling capacity than the total maximum current drawn by each amplifier.

Example: One Power Amplifier Is Used

| Fuse capacity | Protective Fuse | Cross-sectional Area of Wiring Wier (AWG) |
|---------------|---------------------|--|
| 80 A | 90 A × 1 [30 A × 3] | 10 mm ² (AWG 8) or greater × 1 [5 mm ² (AWG 10) or greater × 2] |

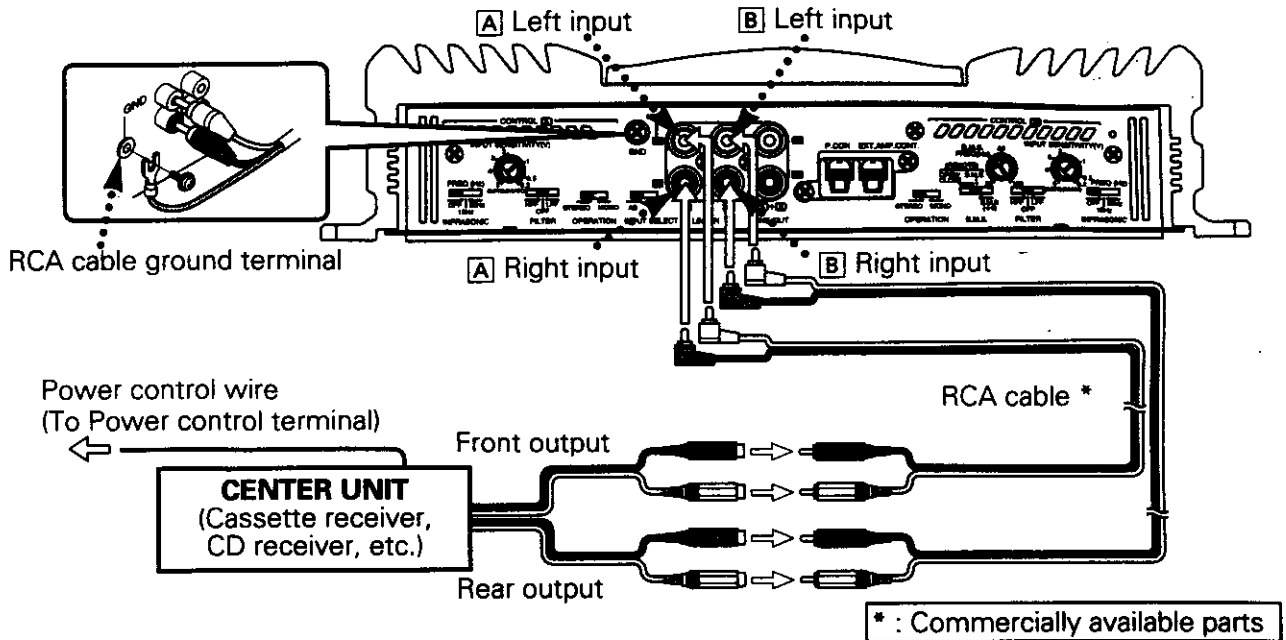


Power terminal

Pass battery and ground wires through supplied terminal cover and connect to respective terminals. After completing connections, fasten terminal cover over terminal bracket.

Connection

■ RCA cable connection



RCA cable ground terminal

When using an RCA cable with a ground lead attached, connect the ground lead to this terminal.

▲ CAUTION

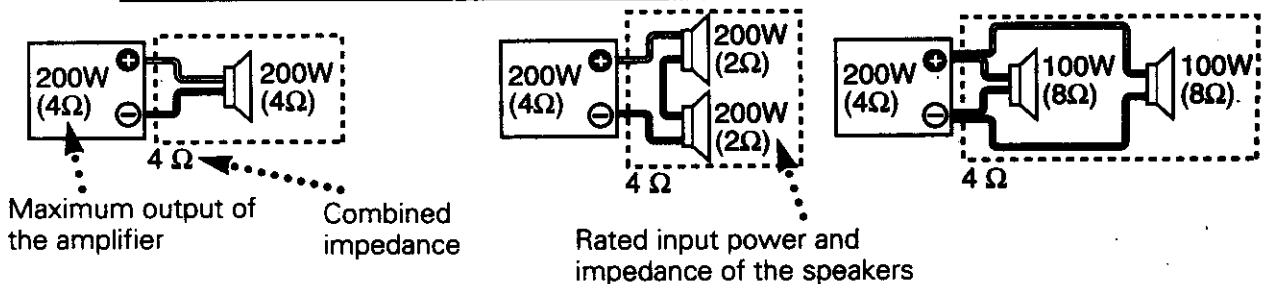
Do not use this terminal for power source grounding. This unit will be damaged if the power source grounding cable is connected to this terminal.

■ Speaker Selection

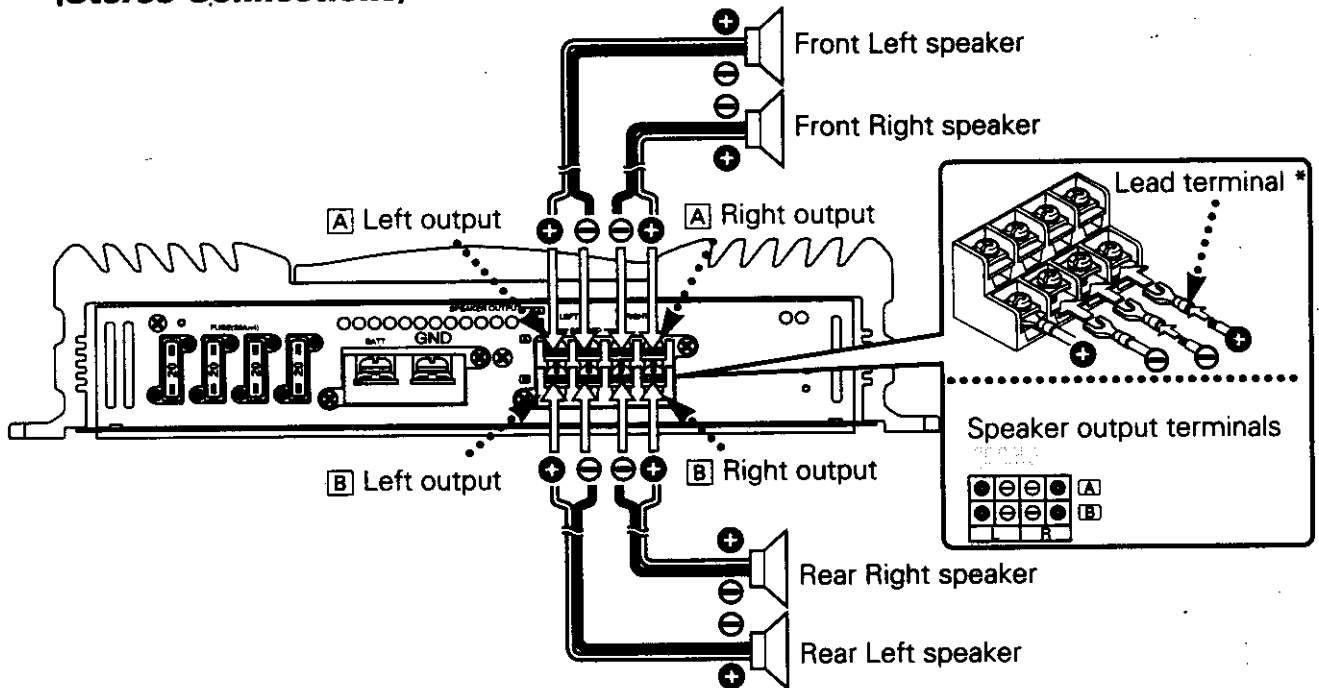
- The rated input power of the speakers that are going to be connected should be greater than the maximum output power (in Watts) of the amplifier. Use of speakers having input power ratings that are less than the output power of the amplifier will cause smoke to be emitted as well as damage.
- The impedance of the speakers that are going to be connected should be 2Ω or greater (for stereo connections), or 4Ω or greater (for bridged connections). When more than one set of speakers are going to be used, calculate the combined impedance of the speakers and then connect suitable speakers to the amplifier.

Examples:

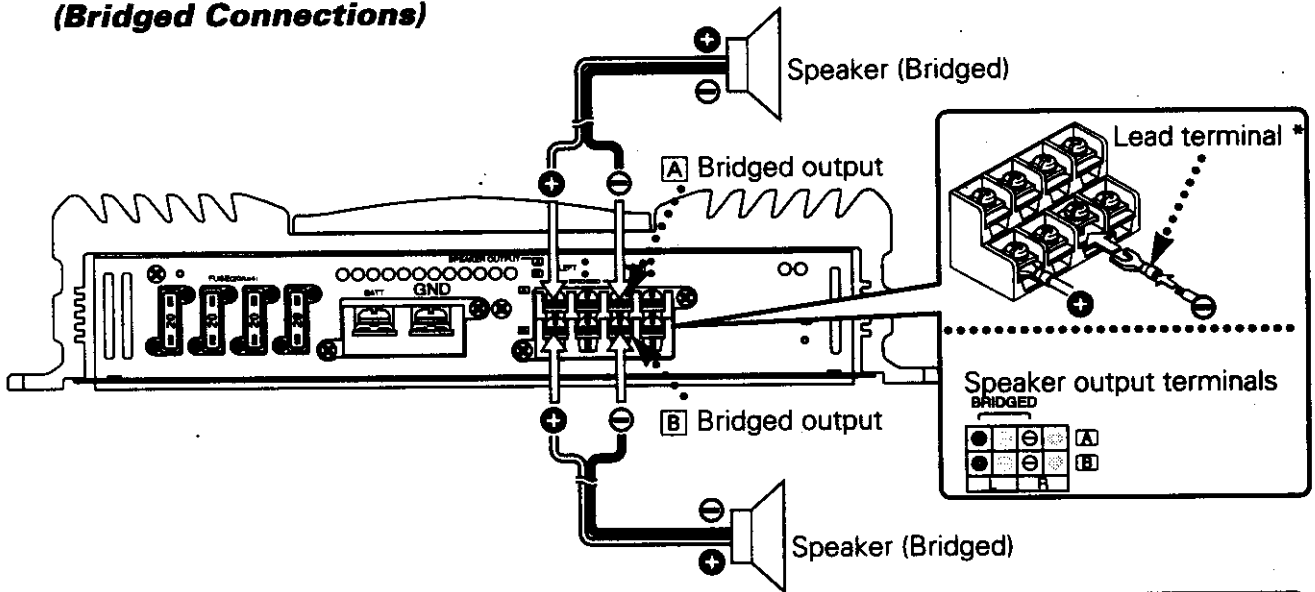
| Stereo Connections (4Ω) | Bridged Connections (4Ω) |
|----------------------------------|-----------------------------------|
| 200 W or greater | 600 W or greater |



**■ Speakers wire connection
(Stereo Connections)**



(Bridged Connections)



* : Commercially available parts

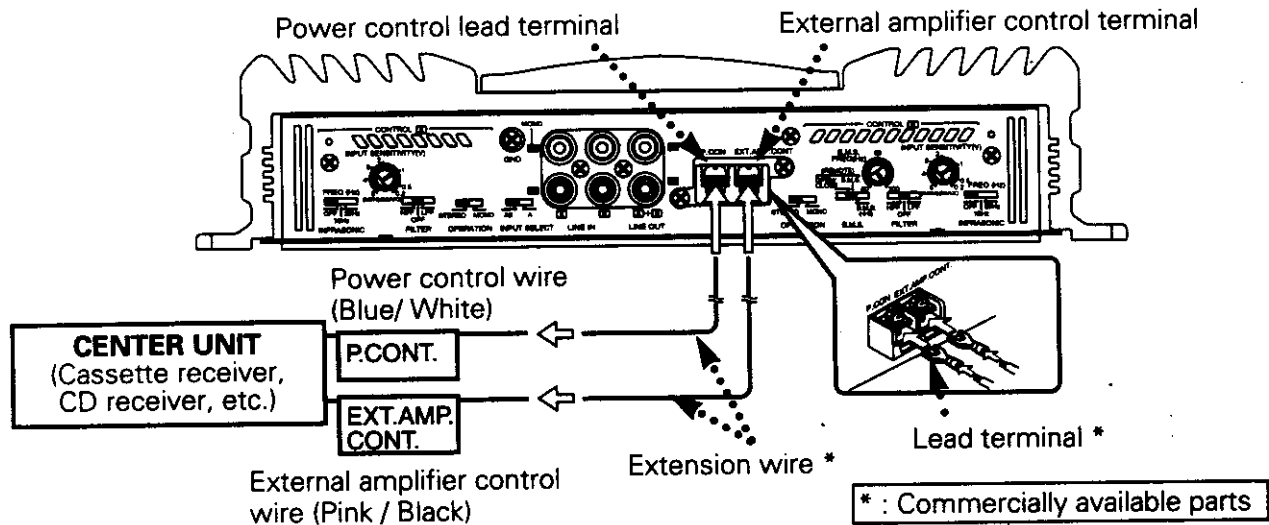
Connection

Control terminal

Attach the connection terminal to a commercially available wiring wrier for in-car use, and connect it to the unit.

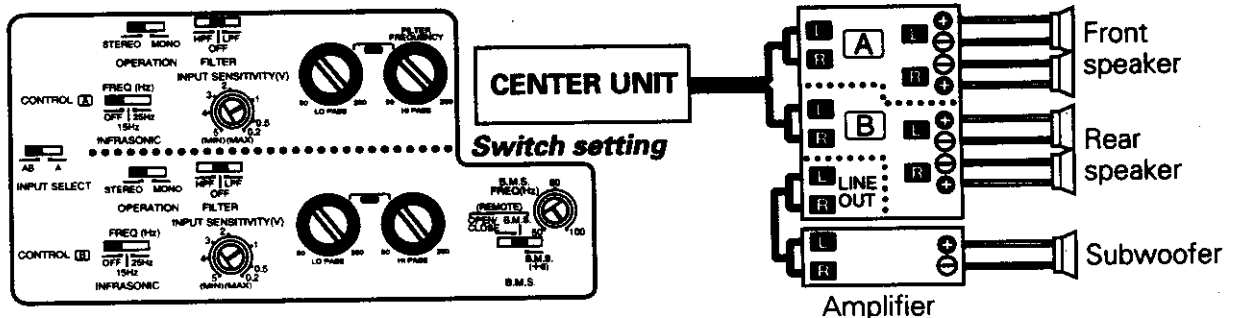
NOTE

An EXT.AMP.CONT. terminal can only be attached if Kenwood center unit is a model released in 1999 or latter, and has an "EXT.AMP.CONT." wire. Using the external amp control, up to 3 power amplifiers can be operated simultaneously (although this may not be possible, depending on the type of wiring wrier used, and its length).

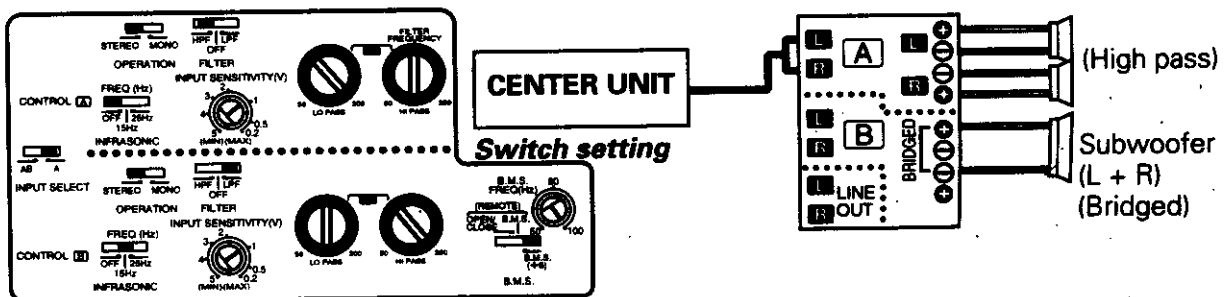


System examples

Full-range 4-channel + Subwoofer system

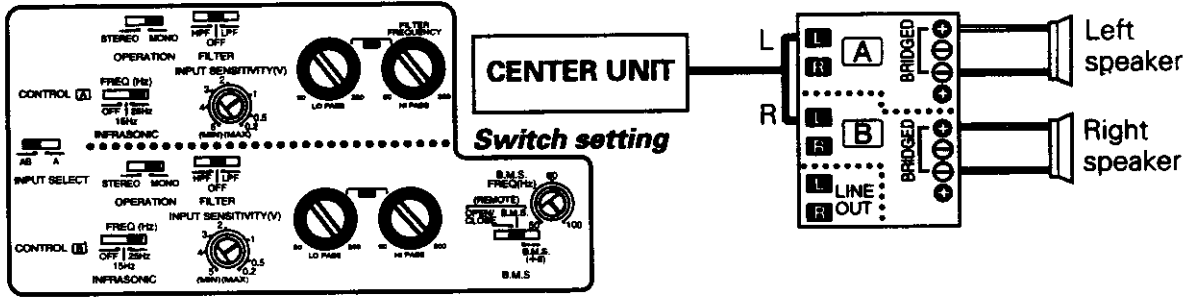


High-pass + Subwoofer system

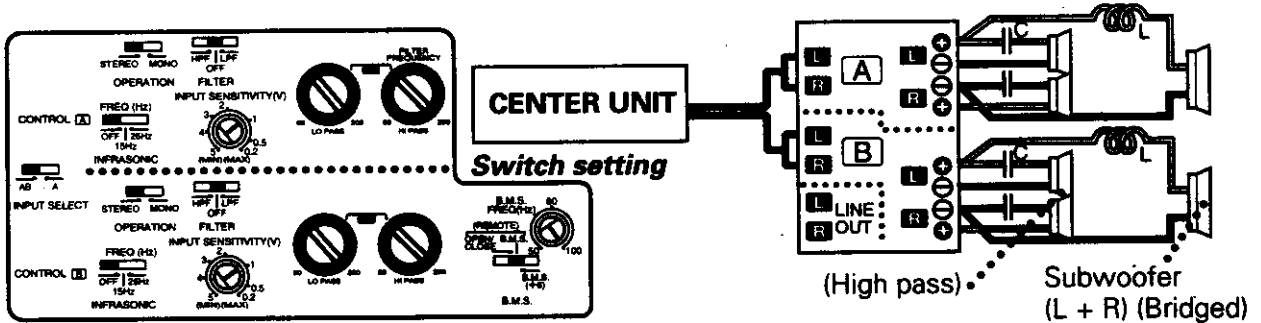


System examples

High-power 2-channel system

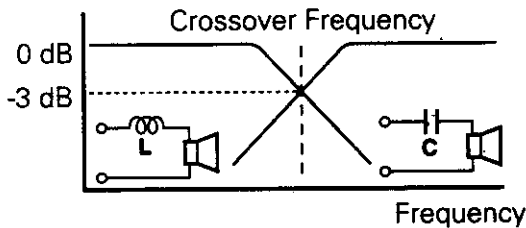


Tri-mode



Principle of Tri-mode

Method of frequency band division using a coil and capacitor...in case of 6dB/oct. slope



Coil (L): Passes low frequencies and blocks high frequencies. (Low pass)

Capacitor (C): Passes high frequencies and blocks low frequencies. (High pass)

$$C = \frac{159000}{f_c \times R} (\mu F)$$

f_c = Cut of Frequency (Hz)
 R = Speaker Impedance (Ω)

$$L = \frac{159 \times R}{f_c} (mH)$$

Example:

When it is required to set a crossover frequency of 120 Hz using speakers with an impedance of 4 ohms.

Prepare commercially-available coil and capacitor with the closest ratings to the results calculated from the formula above. The capacitor rating should be as close as possible to 331.25 (μF) and the coil rating should be as close as possible to 5.3 (mH).

CAUTION

- If you wish to bridge-connect a speaker, the speaker impedance must be no less than 4 ohms. Connecting a speaker with an impedance lower than 4 ohms may damage the unit.
- Be sure to connect capacitors to speakers to which high frequencies will be passed. Failure to do so will result in a drop of the combined impedance with the subwoofer.
- Ensure that the withstand voltage and current ratings of the capacitors (C) and coils (L) are sufficient.

Troubleshooting Guide

What might appear to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|--|--|--|
| No sound. (No sound from one side.) | <ul style="list-style-type: none">• Input (or output) cables are disconnected.• Protection circuit may be activated.• The fuse may be blown because the volume was too high. | <ul style="list-style-type: none">• Connect the input (or output) cables.• Check connections by referring to "Indicator".• Replace the fuse with a new fuse and use a lower volume. |
| The output level is too small (or too large). | The input sensitivity adjusting control is not set to the correct position. | Adjust the control correctly referring to "Controls". |
| The sound quality is bad. (The sound is distorted.) | <ul style="list-style-type: none">• The speakers wire are connected with wrong \oplus / \ominus polarity.• A speaker wire is pinched by a screw in the car body.• The switches may be set improperly. | <ul style="list-style-type: none">• Connect them properly checking the \oplus / \ominus of the terminals and wires well.• Connect the speaker wire again so that it is not pinched by anything.• Set switches properly by referring to "System examples". |
| If the slide panel moves of its own accord. | <ul style="list-style-type: none">• The system is in DEMO mode.• The slide panel has gone into remote operation mode. | <ul style="list-style-type: none">• Cancel DEMO mode by pressing the OPEN/CLOSE button.• Check the B.M.S. and operate the slide panel remotely or manually. |
| The external amplifier controller (B.M.S.) will not work. | <ul style="list-style-type: none">• The B.M.S. switch is set to "B.M.S. (+6)".• The external amplifier control wire has come loose. | <ul style="list-style-type: none">• The B.M.S. switch is set to "(REMOTE)".• Check that the external amplifier control wire is properly connected. |

Specifications

Specifications subject to change without notice.

Audio Section

Max Power Output (4 Ω)
4 Channel Mode150 W \times 4
3 Channel Mode.....150 W \times 2 + 600 W \times 1
2 Channel Mode600 W \times 2

Rated Power Output (4 Ω) (+B = 12.0 V)
4 Channel Mode50 W \times 4 (20 Hz ~ 20 kHz, 0.05 % THD)
3 Channel Mode.....50 W \times 2 (1 kHz, 0.05 % THD) + 200 W \times 1 (1 kHz, 0.5 % THD)
2 Channel Mode200 W \times 2 (1 kHz, 0.5 % THD)

Rated Power Output (2 Ω) (+B = 12.0 V)
4 Channel Mode100 W \times 4 (1 kHz, 0.5 % THD)

Rated Power Output (4 Ω) (+B = 14.4 V)
4 Channel Mode75 W \times 4 (20 Hz ~ 20 kHz, 0.05 % THD)
3 Channel Mode.....75 W \times 2 (1 kHz, 0.05 % THD) + 300 W \times 1 (1 kHz, 0.5 % THD)
2 Channel Mode300 W \times 2 (1 kHz, 0.5 % THD)

Rated Power Output (2 Ω) (+B = 14.4 V)
4 Channel Mode150 W \times 4 (1 kHz, 0.5 % THD)

Frequency Response (+0, -3 dB).....5 Hz ~ 50 kHz
Total Harmonic Distortion (Rated power)*.....0.01 % (1 kHz)
Signal to Noise Ratio110 dB
Sensitivity (rated output) (MAX)0.2 V
(MIN)5.0 V
Input Impedance10 k Ω
Damping Factor.....More than 200
Low Pass Filter Frequency (24 dB/oct.).....50 ~ 200 Hz (Variable)
High Pass Filter Frequency (12 dB/oct.)50 ~ 200 Hz (Variable)
Infrasonic Filter Frequency (24 dB/oct.)15 / 25 Hz

* Sensitivity = Mini. Through LPF (30 kHz)

General

Operating Voltage12.0 V (11 ~ 16 V allowable)
Current Consumption (4 Ω , +B = 12.0 V, 10% THD)42 A
Dimensions (W \times H \times D)272 \times 64 \times 380 mm
10-11/16 \times 2-1/2 \times 14-15/16 inch
Weight.....7.1 kg (15.6 lbs)