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# **Pioneer**

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Owner's Manual

BRIDGEABLE FOUR-CHANNEL POWER AMPLIFIER

**GM-A6704**

**GM-A4704**

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***English***

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## Before you start

### Thank you for purchasing this PIONEER product

To ensure proper use, please read through this manual before using this product. It is especially important that you read and observe

**WARNING**s and **CAUTION**s in this manual.


*Please keep the manual in a safe and accessible place for future reference.*



If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private households in the member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For countries not mentioned above, please contact your local authorities for the correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health. 


## Visit our website

Visit us at the following site:


<http://www.pioneer-car.co.uk>

- Register your product. We will keep the details of your purchase on file to help you

refer to this information in the event of an insurance claim such as loss or theft.

- We offer the latest information about PIONEER CORPORATION on our website. 

## If you experience problems

Should this product fail to operate properly, please contact your dealer or nearest authorized Pioneer Service Station. 

## Before you start

### Before connecting/ installing the amplifier


#### WARNING

- The use of a special red battery and ground wire RD-223, available separately, is recommended. Connect the battery wire directly to the car battery positive terminal ⊕ and the ground wire to the car body.
- This unit is for vehicles with a 12V battery and negative grounding. Before installing in recreational vehicles, trucks or buses, check the battery voltage.
- When installing this unit, make sure to connect the ground wire first. Ensure that the ground wire is properly connected to metal parts of the car's body. The ground wire of the one of this unit must be connected to the car separately with different screws. If the screw for the ground wire loosens or falls out, it could result in fire, generation of smoke or malfunction.
- Always use a fuse of the rating prescribed. The use of an improper fuse could result in overheating and smoke, damage to the product and injury, including burns.
- Check the connections of the power supply and speakers if the fuse of the separately sold battery wire or the amplifier fuse blows. Determine and resolve the cause, then replace the fuse with an identical equivalent.
- Always install the amplifier on a flat surface. Do not install the amplifier on a surface that is not flat or on a surface with a protrusion. Doing so could result in malfunction.
- When installing the amplifier, do not allow parts such as extra screws to get caught between the amplifier and the automobile. Doing so could cause malfunction.
- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids. The surfaces of the amplifier and any attached

speakers may also heat up and cause minor burns.

- In the event of any abnormality, the power supply to the amplifier is cut off to prevent equipment malfunction. If this occurs, switch the system power off and check the power supply and speaker connections. If you are unable to determine the cause, please contact your dealer.
- Always disconnect the negative ⊖ terminal of the battery beforehand to avoid the risk of electric shock or short circuit during installation.
- Do not attempt to disassemble or modify this unit. Doing so may result in fire, electric shock or other malfunction.

#### CAUTION


- Always keep the volume low enough to hear outside sounds.
- Extended use of the car stereo while the engine is at rest or idling may exhaust the battery.
- This product is evaluated in moderate and tropical climate condition under the Audio, video and similar electronic apparatus - Safety requirements, IEC 60065.
- The graphical symbol  placed on the product means direct current.

#### About the protection function

This product has protection function. When this product detects something abnormal, the following functions will operate to protect the product and speaker output.

- The power indicator will turn off and the amplifier will shut down in the situations outlined below.
  - If the speaker output terminal and speaker wire are short-circuited.
  - If a DC voltage is applied to the speaker output terminal.

## Before you start

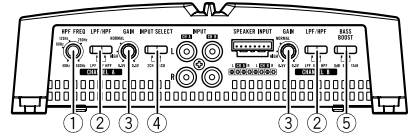
- The amplifier will reduce the power output if the temperature inside the amplifier gets high. If the temperature gets too high, the power indicator will turn off, and the amplifier will shut down. 

## Setting the unit

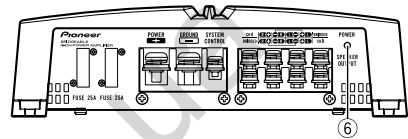
### What's what

#### GM-A6704

Front side

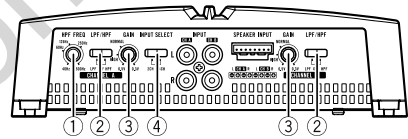


Rear side

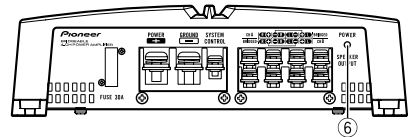


#### GM-A4704

Front side



Rear side



To adjust the switch, use a flathead screwdriver if needed.

- ① **HPF FREQ (cut off frequency) control**  
Cut off frequency selectable from 40 Hz to 500 Hz if the **HPF** select switch is set to **HPF**.
  - You can select cut off frequency only for **CHANNEL A**.
- ② **LPF (low-pass filter)/HPF (high-pass filter) select switch**  
Switch the settings based on the connected speaker.
  - When the Subwoofer is connected:

## Setting the unit

Select **LPF**. This eliminates high range frequency and outputs low range frequency.

- When the full range speaker is connected:  
Select **HPF** or **OFF**. **HPF** eliminates low range frequency and output high range frequency. **OFF** outputs the entire frequency range.

### ③ GAIN (gain) control

Adjusting gain controls **CHANNEL A** (channel A) and **CHANNEL B** (channel B) helps align the car stereo output to the Pioneer amplifier. Default setting is the **NORMAL** position.

If the output remains low, even when the car stereo volume is turned up, turn the controls to a lower level. If distortion occurs when the car stereo volume is turned up, turn these controls to a higher level.

- If using only one input plug, set the gain controls for speaker outputs A and B to the same position.
- For use with an RCA equipped car stereo (standard output of 500 mV), set to the **NORMAL** position. For use with an RCA equipped Pioneer car stereo, with maximum output of 4 V or more, adjust level to match that of the car stereo output.
- For use with an RCA equipped car stereo with output of 4 V, set to the **HIGH** position.

### ④ INPUT SELECT (input select) switch

Select **2CH** for two-channel input and **4CH** for four-channel input.

- You can select input select only for connections when using the RCA input jack. For connections when using the speaker input wire, **4CH** will be used automatically no matter which switch setting is selected.

### ⑤ BASS BOOST (bass boost level control) switch

You can select a bass boost level from 0 dB, 6 dB and 12 dB.

- Bass boost level setting applies only to **CHANNEL B** (channel B) output.

### ⑥ Power indicator

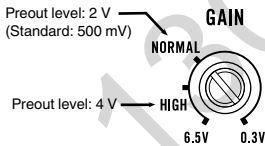
The power indicator lights up to indicate power ON.

# Setting the unit

## Setting gain properly

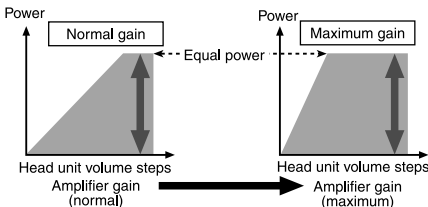
- Protective function included to prevent malfunction of the unit and/or speakers due to excessive output, improper use or improper connection.
- When outputting high volume sound etc., this function cuts off the output for a few seconds as a normal function, but output is restored when the volume of the head unit is turned down.
- A cut in sound output may indicate improper setting of the gain control. To ensure continuous sound output with the head unit at a high volume, set amplifier gain control to a level appropriate for the preout maximum output level of the head unit, so that volume can remain unchanged and to control excess output.
- Despite correct volume and gain settings, the unit sound still cuts out periodically. In such cases, please contact the nearest authorized Pioneer Service Station.

## Gain control of this unit



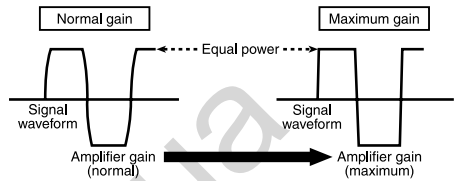
Above illustration shows **NORMAL** gain setting.

## Relationship between amplifier gain and head unit output power



If amplifier gain is raised improperly, this will simply increase distortion, with little increase in power.

## Signal waveform when outputting at high volume using amplifier gain control

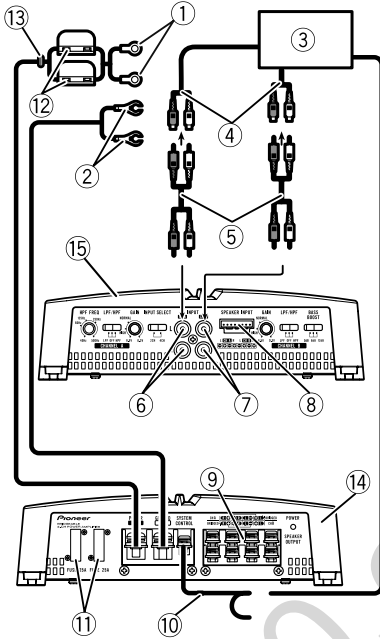


If the signal waveform is distorted due to high output, even if the amplifier gain is raised, the output power will change only slightly. ■



## Connecting the units

### Connection diagram



- ① Special red battery wire RD-223 (sold separately)  
After completing all other amplifier connections, finally connect the battery wire terminal of the amplifier to the positive  $\oplus$  battery terminal.
- ② Ground wire (Black) RD-223 (sold separately)  
Connect to metal body or chassis.
- ③ Car stereo with RCA output jacks (sold separately)
- ④ External output  
If only one input plug is used, do not connect anything to RCA input jack B.
- ⑤ Connecting wire with RCA pin plugs (sold separately)
- ⑥ RCA input jack A
- ⑦ RCA input jack B
- ⑧ Speaker input terminal (use a connector included)

Please see the following section for speaker connection instructions. Refer to *Connections when using the speaker input wire*.

- ⑨ Speaker output terminals  
Please see the following section for speaker connection instructions. Refer to *Connecting the speakers*.
- ⑩ System remote control wire (sold separately)  
Connect male terminal of this wire to the system remote control terminal of the car stereo. The female terminal can be connected to the auto-antenna relay control terminal. If the car stereo lacks a system remote control terminal, connect the male terminal to the power terminal via the ignition switch.
- ⑪ Fuse 25 A  $\times$  2 (GM-A6704) / 30 A  $\times$  1 (GM-A4704)
- ⑫ Fuse (30 A)  $\times$  2
- ⑬ Gro-mmet
- ⑭ Rear side
- ⑮ Front side

#### Note

**INPUT SELECT** (input select) switch must be set.  
For details, see *Setting the unit*. ■

## Connecting the units

### Before connecting the amplifier

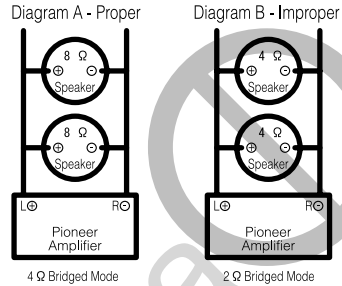
#### **⚠ WARNING**

- Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap sections in contact with metal parts in adhesive tape.
- Never cut the insulation of the power supply to feed power to other equipment. Current capacity of the wire is limited.

#### **⚠ CAUTION**

- Never shorten any wires, the protection circuit may malfunction.
- Never wire the speaker negative cable directly to ground.
- Never band together multiple speaker's negative cables.
- If the system remote control wire of the amplifier is connected to the power terminal via the ignition switch (12VDC), the amplifier will remain on with the ignition whether the car stereo is on or off, which may exhaust battery if the engine is at rest or idling.
- Install and route the separately sold battery wire as far as possible from the speaker wires. Install and route the separately sold battery wire, ground wire, speaker wires and the amplifier as far away as possible from the antenna, antenna cable and tuner. **▣**

### About bridged mode



- Do not install or use this amplifier by wiring speakers rated at 4 Ω (or lower) in parallel to achieve a 2 Ω (or lower) bridged mode (Diagram B). Amplifier damage, smoke, and overheating could result from improper bridging. The amplifier surface could also become hot to the touch and minor burns could result. To properly install or use a bridged mode and achieve a 4 Ω load, wire two 8 Ω speakers in parallel with Left ⊕ and Right ⊖ (Diagram A) or use a single 4 Ω speaker. In addition, refer to the speaker instruction manual for information on the correct connection procedure.
- For any further enquiries, contact your local authorized Pioneer dealer or customer service. **▣**

## Connecting the units

### About suitable specification of speaker

Ensure speakers conform to the following standards, otherwise there is a risk of fire, smoke or damage. Speaker impedance is  $2\ \Omega$  to  $8\ \Omega$ , or  $4\ \Omega$  to  $8\ \Omega$  for two-channel and other bridge connections.

#### Subwoofer

Speaker channel	Power
Four-channel output	Nominal input: Min. 60 W (GM-A6704) Min. 40 W (GM-A4704)
Two-channel output	Nominal input: Min. 190 W (GM-A6704) Min. 130 W (GM-A4704)
Three-channel Speaker output A	Nominal input: Min. 60 W (GM-A6704) Min. 40 W (GM-A4704)
Three-channel Speaker output B	Nominal input: Min. 190 W (GM-A6704) Min. 130 W (GM-A4704)

#### Other than subwoofer

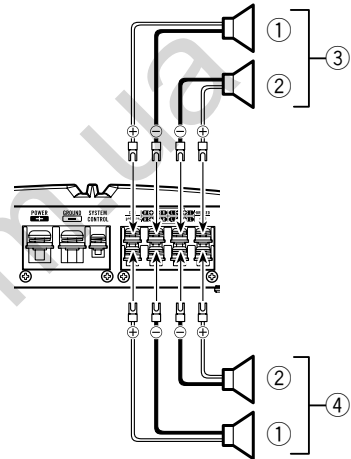
Speaker channel	Power
Four-channel output	Max. input: Min. 170 W (GM-A6704) Min. 80 W (GM-A4704)
Two-channel output	Max. input: Min. 500 W (GM-A6704) Min. 260 W (GM-A4704)
Three-channel Speaker output A	Max. input: Min. 170 W (GM-A6704) Min. 80 W (GM-A4704)
Three-channel Speaker output B	Max. input: Min. 500 W (GM-A6704) Min. 260 W (GM-A4704)



### Connecting the speakers

The speaker output mode can be four-channel, three-channel (stereo and mono) or two-channel (stereo or mono). Connect the speaker leads based on the mode and the figures shown below.

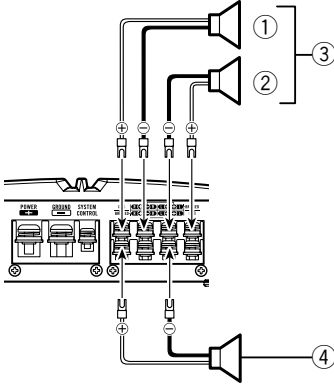
#### Four-channel output



- ① Right
- ② Left
- ③ Speaker out A
- ④ Speaker out B

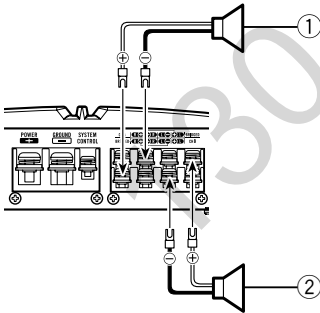
# Connecting the units

## Three-channel output



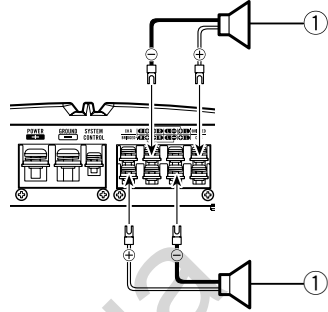
- ① Right
- ② Left
- ③ Speaker out A
- ④ Speaker out B (Mono)

## Two-channel output (Stereo)



- ① Speaker (Right)
- ② Speaker (Left)

## Two-channel output (Mono)



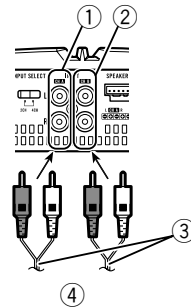
- ① Speaker (Mono)

## Connections when using the RCA input jack

Connect the car stereo RCA output jack and the RCA input jack of the amplifier.

### Four-channel / Three-channel output

- Slide **INPUT SELECT** (input select) switch to **4CH** position.



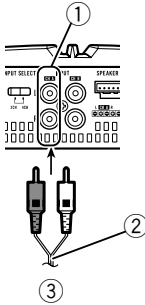
- ① RCA input jack A
- ② RCA input jack B
- ③ Connecting wires with RCA plugs (sold separately)
- ④ From car stereo (RCA output)

## Connecting the units

If only one input plug is used, e.g. when the car stereo has only one output (RCA output), connect the plug to RCA input jack A rather than B.

### Two-channel output (Stereo) / (Mono)

- Slide **INPUT SELECT** (input select) switch to **2CH** position.

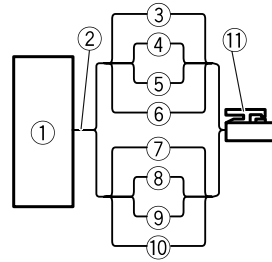


- RCA input jack A  
For two-channel output, connect the RCA plugs to the RCA input jack A.
- Connecting wire with RCA pin plugs (sold separately)
- From car stereo (RCA output)

## Connections when using the speaker input wire

Connect the car stereo speaker output wires to the amplifier using the supplied speaker input wire.

- Do not connect both the RCA input and the speaker input at the same time.



- Car Stereo
- Speaker output
- White/black: CH A, Left  $\ominus$
- White: CH A, Left  $\oplus$
- Gray/black: CH A, Right  $\ominus$
- Gray: CH A, Right  $\oplus$
- Green/black: CH B, Left  $\ominus$
- Green: CH B, Left  $\oplus$
- Violet/black: CH B, Right  $\ominus$
- Violet: CH B, Right  $\oplus$
- Speaker input connector  
To speaker input terminal of this unit.

### Note

If speaker input wires from a headunit are connected to this amplifier, the amplifier will automatically turn on when the headunit is turned on. When the headunit is turned off, the amplifier turns off automatically. This function may not work with some headunits. In such cases, make sure that the CH A Left channel is connected correctly. If the function still does not work, please use a system remote control wire (sold separately). If multiple amplifiers are to be connected together synchronously, connect the head unit and all amplifiers via the system remote control wire.

## Connecting the units

### Connecting the power terminal

The use of a special red battery and ground wire RD-223 (sold separately) is recommended. Connect the battery wire directly to the car battery positive terminal ⊕ and the ground wire to the car body.



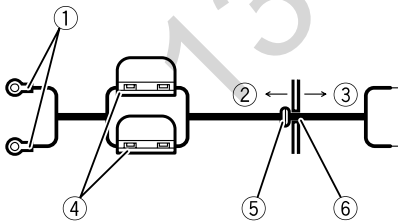
#### WARNING

If the battery wire is not securely fixed to the terminal using the terminal screws, there is a risk of overheating, malfunction and injury, including minor burns.

#### 1 Route battery wire from engine compartment to the vehicle interior.

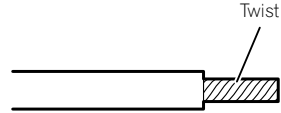
- When drilling a cable pass-hole into the vehicle body and routing a battery wire through it, take care not to short-circuit the wire damaging it by the cut edges or burrs of the hole.

After completing all other amplifier connections, finally connect the battery wire terminal of the amplifier to the positive ⊕ battery terminal.



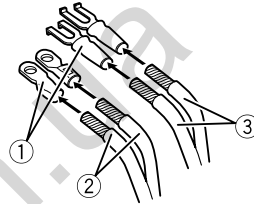
- Positive ⊕ terminal
- Engine compartment
- Vehicle interior
- Fuse (30 A) × 2
- Insert the O-ring rubber grommet into the vehicle body.
- Drill a 14 mm hole into the vehicle body.

#### 2 Twist the battery wire, ground wire and system remote control wire.



#### 3 Attach lugs to wire ends.

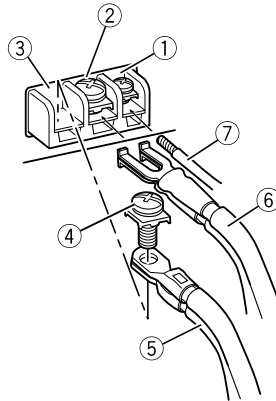
Use pliers, etc., to crimp lugs to wires.



- Lug (sold separately)
- Battery wire
- Ground wire

#### 4 Connect the wires to the terminal.

Fix the wires securely with the terminal screws.



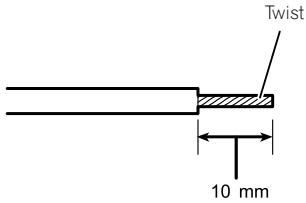
- System remote control terminal
- Ground terminal
- Power terminal
- Terminal screws
- Battery wire

## Connecting the units

- ⑥ Ground wire
- ⑦ System remote control wire

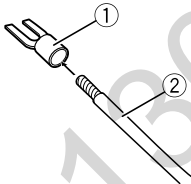
### Connecting the speaker output terminals

**1 Use wire cutters or a utility knife to strip the end of the speaker wires to expose about 10 mm of wire and then twist the wire.**



**2 Attach lugs to wire ends.**

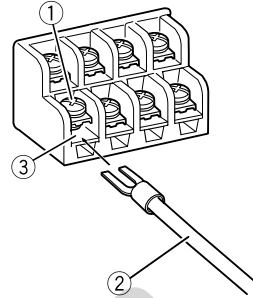
Use pliers, etc., to crimp lugs to wires.



- ① Lug (sold separately)
- ② Speaker wire

**3 Connect the speaker wires to the speaker output terminals.**

Fix the speaker wires securely with the terminal screws.



- ① Terminal screws
- ② Speaker wires
- ③ Speaker output terminals

# Installation

## Before installing the amplifier

### **⚠ WARNING**

- To ensure proper installation, use the supplied parts in the manner specified. If any parts other than those supplied are used, they may damage internal parts of the amplifier, or become loose causing the amplifier to shut down.
- Do not install in:
  - Places where it could injure the driver or passengers if the vehicle stops suddenly.
  - Places where it may interfere with the driver, such as on the floor in front of the driver's seat.
- Install tapping screws in such a way that the screw tip does not touch any wire. This is important to prevent wires from being cut by vibration of the car, which can result in fire.
- Make sure that wires do not get caught in the sliding mechanism of the seats or touch the legs of a person in the vehicle as short-circuit may result.
- When drilling to install the amplifier, always confirm no parts are behind the panel and protect all cables and important equipment (e.g. fuel/brake lines, wiring) from damage.

### **⚠ CAUTION**

- To ensure proper heat dissipation of the amplifier, ensure the following during installation:
  - Allow adequate space above the amplifier for proper ventilation.
  - Do not cover the amplifier with a floor mat or carpet.
- Protection function may activate to protect the amplifier against overheating due to installation in locations where sufficient heat cannot be dissipated, continuous use under high-volume conditions, etc. In such cases, the amplifier reduces the power output or shuts down until it has cooled to a certain designated temperature.
- Place all cables away from hot places, such as near the heater outlet.

- The optimal installation location differs depending on the car model. Secure the amplifier at a sufficiently rigid location.
- Check all connections and systems before final installation.
- After installing the amplifier, confirm that the spare tire, jack and tools can be easily removed. **■**

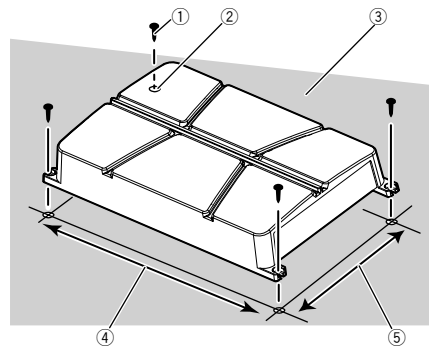
## Example of installation on the floor mat or chassis

### 1 Place the amplifier in the desired installation location.

Insert the supplied tapping screws (4 mm × 18 mm) into the screw holes and push on the screws with a screwdriver so they make an imprint where the installation holes are to be located.

### 2 Drill 2.5 mm diameter holes at the imprints either on the carpet or directly on the chassis.

### 3 Install the amplifier with the use of supplied tapping screws (4 mm × 18 mm).



- ① Tapping-screws (4 mm × 18 mm)
- ② Drill a 2.5 mm diameter hole
- ③ Floor mat or chassis
- ④ Hole-to-hole distance: 343 mm (GM-A6704) / 313 mm (GM-A4704)
- ⑤ Hole-to-hole distance: 195 mm **■**



## Additional information

### Specifications

#### GM-A6704

Power source .....	14.4 V DC (10.8 V to 15.1 V allowable)
Grounding system .....	Negative type
Current consumption .....	31 A (at continuous power, 4Ω)
Average current consumption .....	8.5 A (4Ω for four channels) 14 A (4Ω for two channels)
Fuse .....	25 A × 2
Dimensions (W × H × D) ...	356 mm × 60 mm × 215 mm
Weight .....	2.2 kg (Leads for wiring not included)
Maximum power output .....	170 W × 4 (4Ω) / 250 W × 4 (2Ω) / 1000 W TOTAL (BRIDGE)
Continuous power output ...	60 W × 4 (at 14.4 V, 4Ω, 20 Hz to 20 kHz ≤ 1% THD +N) 190 W × 2 (at 14.4 V, 4Ω BRIDGE 1 kHz, ≤ 1% THD +N) 95 W × 4 (at 14.4 V, 2Ω, 1 kHz, ≤ 1% THD+N)
Load impedance .....	4Ω (2Ω to 8Ω allowable)
Frequency response .....	10 Hz to 70 kHz (+0 dB, -3 dB)
Signal-to-noise ratio .....	95 dB (IEC-A network)
Distortion .....	0.05 % (10 W, 1 kHz)
Low pass filter:	
(A ch)	Cut off frequency ..... 80 Hz Cut off slope ..... -12 dB/oct
(B ch)	Cut off frequency ..... 80 Hz Cut off slope ..... -12 dB/oct
High pass filter:	
(A ch)	Cut off frequency ..... 40 Hz to 500 Hz Cut off slope ..... -12 dB/oct
(B ch)	Cut off frequency ..... 80 Hz Cut off slope ..... -12 dB/oct
Bass boost:	
Frequency .....	50 Hz
Level .....	0 dB/6 dB/12 dB
Gain control:	
RCA .....	0.3 V to 6.5 V
Speaker .....	3.0 V to 26 V
Maximum input level / impedance:	
RCA .....	6.5 V / 22 kΩ
Speaker .....	26 V / 16 kΩ

#### GM-A4704

Power source .....	14.4 V DC (10.8 V to 15.1 V allowable)
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Grounding system .....	Negative type
Current consumption .....	20.5 A (at continuous power, 4Ω)
Average current consumption .....	5.5 A (4Ω for four channels) 8.5 A (4Ω for two channels)
Fuse .....	30 A × 1
Dimensions (W × H × D) ...	326 mm × 60 mm × 215 mm
Weight .....	2.0 kg (Leads for wiring not included)
Maximum power output .....	80 W × 4 (4Ω) / 130 W × 4 (2Ω) / 520 W TOTAL (BRIDGE)
Continuous power output ...	40 W × 4 (at 14.4 V, 4Ω, 20 Hz to 20 kHz ≤ 1% THD +N) 130 W × 2 (at 14.4 V, 4Ω BRIDGE 1 kHz, ≤ 1% THD +N) 65 W × 4 (at 14.4 V, 2Ω, 1 kHz, ≤ 1% THD+N)
Load impedance .....	4Ω (2Ω to 8Ω allowable)
Frequency response .....	10 Hz to 70 Hz (+0 dB, -3 dB)
Signal-to-noise ratio .....	94 dB (IEC-A network)
Distortion .....	0.05 % (10 W, 1 kHz)
Low pass filter:	
(A ch)	Cut off frequency ..... 80 Hz Cut off slope ..... -12 dB/oct
(B ch)	Cut off frequency ..... 80 Hz Cut off slope ..... -12 dB/oct
High pass filter:	
(A ch)	Cut off frequency ..... 40 Hz to 500 Hz Cut off slope ..... -12 dB/oct
(B ch)	Cut off frequency ..... 80 Hz Cut off slope ..... -12 dB/oct
Gain control:	
RCA .....	0.3 V to 6.5 V
Speaker .....	3.0 V to 26 V
Maximum input level / impedance:	
RCA .....	6.5 V / 22 kΩ
Speaker .....	26 V / 16 kΩ

#### Notes

- Specifications and the design are subject to modifications without notice.
- The average current consumption is nearly the maximum current consumption by this unit when an audio signal is input. Use this value when working out total current consumption by multiple power amplifiers. ▣