

CE

Owner's Manual

USA-650.4

4CH CLASS AB CAR AMPLIFIER

Jameson[®]



www.jameson.com.tr

OWNER'S MANUAL

INTRODUCTION

Thank you for your purchase, and welcome to JAMESON! In order to enjoy the better service from us, please keep your original invoice well and complete. You'd better post the copy of back to the appointed service agent of JAMESON so that you may get more technical support.

We recommend to use 2GA FOR-X OFC POWER CABLE for installation.

ACCESSORY LIST

| | |
|-------------------|------|
| 1. User Manual | 1pc |
| 2. Amplifier | 1pc |
| 3. Mounting Screw | 4pcs |

SPECIFICATIONS

| | |
|-----------------------------------|--------------|
| N-power Output @ 4 Ohm | 65Wx4CH(1%) |
| N-power Output @ 2 Ohm | 90Wx4CH(1%) |
| N-power Output @ 4 Ohm (BRIDGING) | 180Wx2CH(1%) |
| Frequency Response | 20Hz - 20kHz |
| Input Sensitivity | 0.2-6V |
| Signal To Noise Ratio | ≥ 90dB |
| T.H.D. | ≤ 1% |
| Low Pass Cross Frequency | 50Hz-250Hz |
| Bass Boost | 0dB - 12dB |
| Minimum Impedance | 2 Ohm |
| Dimensions(LxWxH)mm | 300x215x49mm |

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PRECAUTIONS

- This unit is designed for negative ground 12-14.50 Volts(DC) operation only.
- Use speakers with an impedance of 2Ω or 4Ω
- Avoid installing the unit where:
 - It would be subject to high temperatures, such as from direct sunlight or hot air from the heater.
 - It would be exposed to rain or moisture.
 - It would be subject to 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 off before operation.
- When installing the unit horizontally, be sure not to cover the heatsink fins with the floor carpet.
- If this unit is placed too close to the car radio, an interference may occur. In this case, separate the amplifier from the car radio.
- This power amplifier employs a protection circuit to protect the transistors and speakers if the amplifier malfunctions.
- Do not attempt to test the protection circuits by covering the heatsink or connecting improper loads.
- Do not use the unit with a weak auto battery as its optimum performance depends on a normal battery supply voltage.
- For safety reasons, keep the volume of your car audio system moderate so that you can still hear normal traffic sounds outside your car.

PROTECTION CIRCUIT

This amplifier is provided with a protection circuit which operates in the following cases when:

- the unit is overheated.
- the speaker terminals are short circuited.

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GND(-) = GROUND CONNECTION

Connect the GND terminal to the chassis ground of your car and take care of best electric and mechanic contact. In doing so, drill a hole into the car chassis near the amplifier then remove color, dirt or any other substance from the ground point. Thereafter fasten the cable end with added ring terminal by using a screw. Ensure that the ground connection is as short as possible and that the cable diameter is sufficient (min 4mm"). Route the ground cables from the radio and all other equipment parts, like equalizer, active crossover network or other amplifiers, to the same ground point.

HOW TO PROCEED IN CASE OF FAULTS

No Function:

- The connection cable is not connected correctly (=terminal +12V/GND/REM). Ensure that all connections and mechanic contact and that the jacket has been removed. The fuse is defective-pay attention to the correct value of a new fuse!

No Sound :

- Speaker cable or speaker plug are not connected correctly.

No Sound / Red LED Protection Shines :

- The plus and minus wires of the speaker cable have contact, thus eliminate the short circuit. If you use a 2 Ohm speaker in stereo mode, a 4Ohm speaker in bridge mode or tri-mode and the set is overloaded, then turn the gain control to "min" until the operation is free of trouble.

Poor Sound Quality (Distortions) :

- The speakers are overloaded ,therefore turn down the volume level and check the volume control positions.

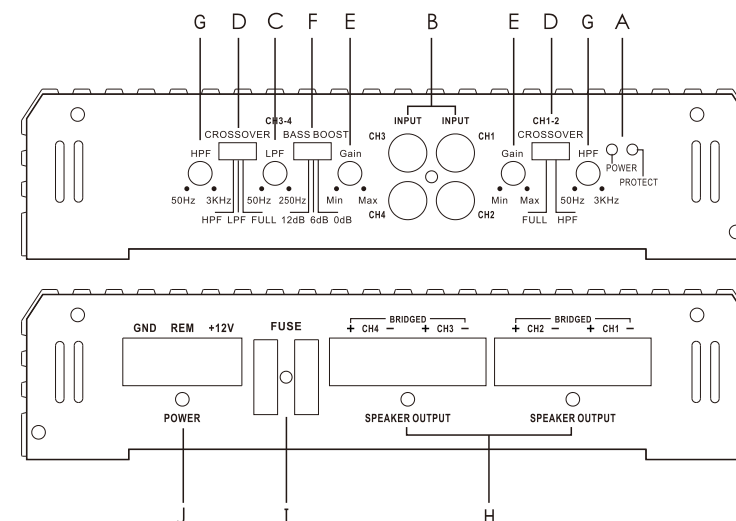
No Stereo Sound And A Weak Bass :

- Speaker cables (+) and (-) are mixed up, unit wired out of phase.

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PANEL CONTROLS AND FEATURES

Fig1



A. POWER STATUS LED

This Bi-color LED glows green when power is on and no problems are present. If one of the protection circuits comes on, it will change to red.

B. AUDIO SIGNAL INPUT

Cables to connect source signal with RCA input of the amplifier.

C. LOW PASS CROSS FREQUENCY

Controls the frequency of the power amplifier of low frequency reduction to common denominator is 50Hz to 250Hz.

D. LPF/FULL/HPF FUNCTION SELECT

LPF/FULL/HPF function selector switch

E. GAIN (INPUT LEVEL) CONTROLS

Adjust sensitivity of the power amplifier, the minimum sensitivity: 200mV
the maximum sensitivity: 6V

F. BASS BOOST

Adjust the input signal of the bass boost level 0dB 6dB to 12dB.

G. HIGH PASS CROSS FREQUENCY

Controls the frequency of the power amplifier of high frequency reduction to common denominator is 50Hz to 3KHz.

H. SPEAKER CONNECTIONS TERMINAL

Connect speaker according to silk screen marked position.

I. FUSE:50A(25Ax2)

J. POWER SUPPLY TERMINALS

POWER(GND): Must be connected to the chassis of your vehicle with a perfect electrical connection (remove some paint to reveal bare metal if necessary) and with the ground cable.

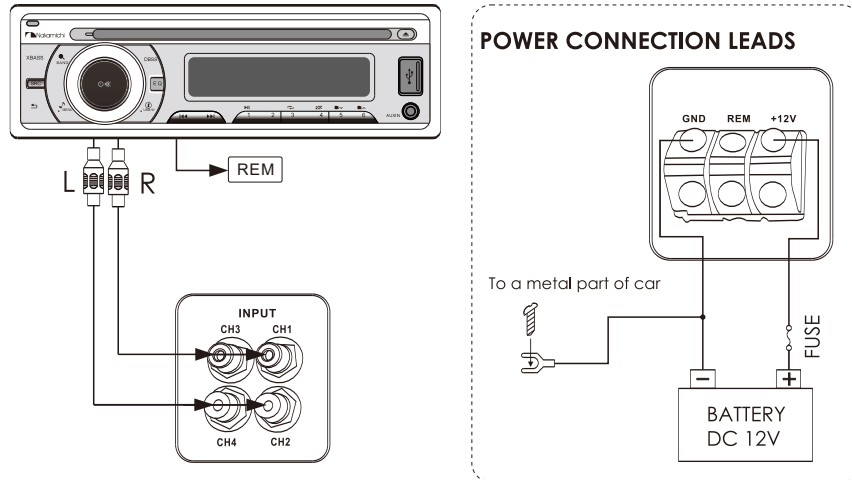
+12V: Connect the +12V power supply of car battery with the power cable. (Note: power connections)

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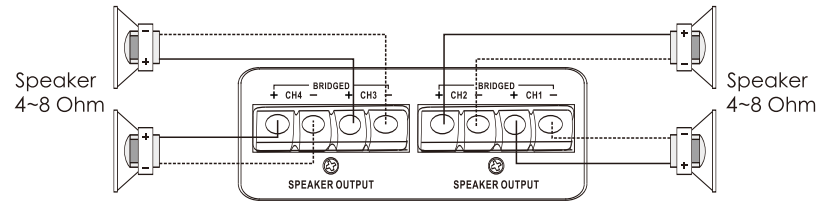
WIRING DIAGRAM INPUT WIRING DIAGRAM

Low level input: These are driven by the line output of your in dash radio or intermediate signal processor, Separate Left and Right signals can be applied for Stereo or Mono operation but both inputs must be driven with the same signal for proper Bridged operation. If only mono signal is available, a "Y" adapter is required.

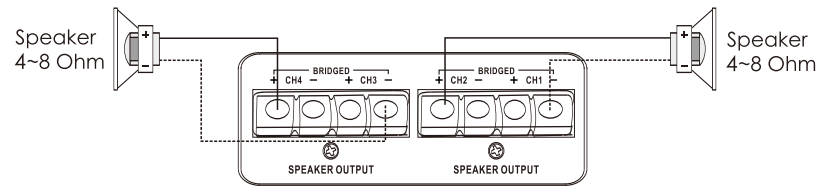
Fig2



SPEAKERS CONNECTIONS



SPEAKERS CONNECTIONS (BRIDGED)



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OPERATION

- After the amplifier has been installed and all connections have been made carefully and securely, turn the radio on so that the amplifier is switched on automatically. After a short power-on period, the amplifier reaches its full performance.
- Now turn up the volume slowly using the volume control of the radio. If there is no sound or only a distorted replay, switch off the radio immediately
 - the amplifier will switch off automatically
 - check if all connections have been made correctly.

POWER LED INDICATOR

After the orderly connection of the three power terminals, the LED indicator shines green and goes out with off.

PROTECT = LED PROTECTION INDICATOR

This set is equipped with an overload protection. immediately upon overloading (due to much increased temperature) the overload protection is activated, and the red LED indicator is shining. Through this the amplifier is protected against damage. In case of thermal protection a certain short cooling time must be allowed after which the amplifier automatically resumes operation.

LEVEL CONTROL

- The input level control allows the system to work well within a wide range of output level. Choose the adjustment in the way that you achieve a sound most possibly without any distortion. As a guideline the following procedure is recommended:
 - If you use several amplifier, the adjustment has to be made for each set separately tune in the volume of your car radio to 2/3 of the maximum volume. Now turn the gain control of the amplifier from "Min" to "Max" direction until you can hear distortions. Then turn the level control a little back to "Min". The gain control adjustment is finished now.

ATTENTION: If you use 1 Ohm speakers the overload protection is triggered out, turn the gain control to "Min" direction, until the operation is free of trouble.

BASS BOOST CONTROLS

This amplifier has Bass controls for switching the boost 0dB or 12dB.

+12V = POWER SUPPLY

Connect the BATT terminal to the positive pole of the battery with a lead cable and add a fuse into the power cable in a distance of not more than 30cm from the battery. The lead cable's diameter should be at least 4 mm' for a length of 3 m and 6 mm' for a length of 6 m.