HIGH EFFICIENCY POWER AMPLIFIER

OWNER'S MANUAL

- CAR AUDIO SYSTEM —

PLEASE READ CAREFULLY BEFORE INSTALLING
OR OPERATED THIS UNIT

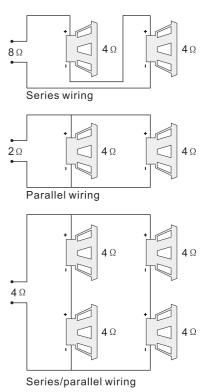
System planning

Proper system planning is the best way to maximize your amplifier performance. By planning your installation carefully you can avoid situations where the performance of the reliability of your system is compromised. Your authorized dealer has been trained to maximize your system s sonic potential. Your dealer is a valuable resource in helping you with your system design and installation.

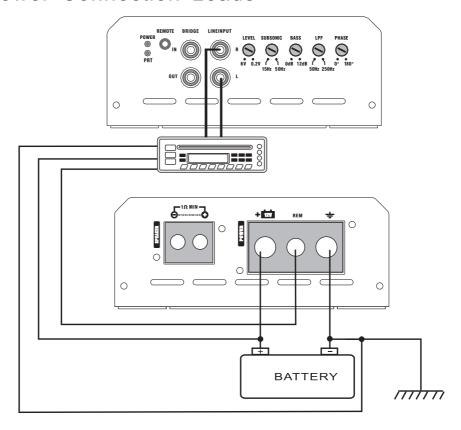
Speaker requirements

Each channel of your amplifier can easily drive 4Ω speaker loads when used in the stereo mode. When a channel-pair is bridged, the recommended minimum load impedance is 3Ω for subwoofer use, and 4Ω for full range operation. Although operation with lower impedances is not likely to cause immediate damage to the internal circuitry, the unit will most likely overheat, causing the thermal protection circuitry to shut down the amplifier. When the chassis cools down, normal operation will resume. Continuing to operate the amplifier under these conditions is not recommended and will reduce its life expectancy.

Most speakers designed for car audio operation are 4Ω impedance. Connecting two such speakers in parallel will result in a 2Ω impedance load as seen by the amplifier. Some subwoofer models feature a dual 4Ω voice coil design. Connecting these voice coils in parallel will result in a 2Ω nominal impedance, which is not recommended for use with bridged channels of your amplifier.



Power Connection Leads



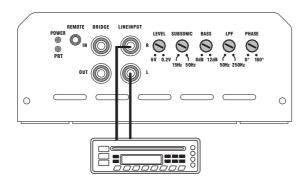
Notes on the power supply

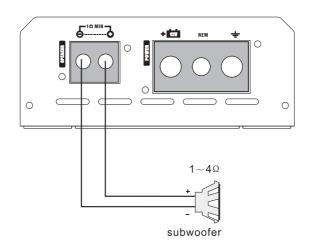
Connect the +12V power input lead only after all other leads have been connected. Be sure to connect the ground wire of the unit securely to a metal part of the car. A lose connection may cause a malfunction of the amplifier.

REMOTE: The unit is turned on by applying +12Volts to this terminal This terminal dose not draw heavy current like the two power terminal so a thinner connecting wire is acceptable. Standard 18 GAUGE is fine and the standard colour is yellow. If the radio is equipped with a power antenna control wire, it can drive this terminal. If the power antenna wire is already in use, you can still splice into it. With this method, the unit will turn on automatically with the radio. Use the power supply lead with a fuse attached whose value is the same as original fuse.

Place the fuse in the power supply lead as close as possible to the car battery. During a full power operation, Maximum current will run through the system. Therefore, Make sure the that the leads to be connected to the +12v and GND terminals of the unit respectively must be larger than 10-Gauge (AWG.10).

system1:





Troubleshooting

possible cause action to take symptom no output low or no remote turn-on check remote turn-on voltage output at amplifier and correct input as needed fuse blown check power wire integrity and reversed polarity , repair as needed and replace fuse check power wire and ground power wires not connected connections and repair of replace as needed check input connections and audio input not connected or no output from source signal integrity, repair or replace as needed speaker wires not connected check speaker wires and repair or replace as needed check system with known speakers are blown working speaker and repair or audio cycles on and off replace speakers as needed thermal protection engages make sure there is proper when amplifier heatsink ventilation for amplifier and temperature exceeds 90°C improve ventilation as needed loose or poor audio input check input connections and repair or replace as needed distorted output amplifier level sensitivity set reset gain referring to the too high; exceeding maximum tuning section of the manual output cap check if speaker impedance load impedance load to amplifier too low is below 1Ω mono rewire speakers to achieve a higher impedance shorted speaker wires check speaker wire connections and repair or replace as needed speaker not connected to check speaker wiring and repair of replace as needed amplifier properly refer to the installation section of this manual for detailed instructions action to take Symptom possible cause internal crossover not set reset crossovers referring to the multi-cross crossover properly for speaker configuration section of this manual distorted output speakers are blown check system with known (cont d) working speakers and repair or replace as needed

Specifications

Amplifier section

3000.1D

Power output 4 \Omega (watts) 1400W X 1

Power output 2 \Omega (watts) 2200W X 1

Power output 1 Ω (watts) 3000W X 1

THD ≤1%

frequency response (± 1dB) 20Hz~250Hz

signal to noise ratio > 92dB

sensitivity 0.2V-6V

recommended fuse type

dimensions 630mm X 170mm X 70mm