

OWNER'S MANUAL



"No Chrome, No Carbon Fiber, No BS!! Period...."
<http://www.incriminatoraudio.com>

IA6.4



4 Channel Class-D Full Range Digital Amplifier

Before operating this unit, please read this manual and keep it for future reference

Congratulations, and thank you for your purchase of Incriminator Audio amplifiers.
Like all of IA's products, the 6.4 series amplifier was designed with only one thing in mind.....Performance!
The new 6.4 has been completely redesigned, and comes with many performance upgrades.
The first and major upgrade you will notice when you opened the box should be the new case design.
You may be surprised to see that the new amplifier has grown SMALLER in size.
Don't be alarmed, smaller doesn't always mean less performance.
In fact, IA believes smaller can mean bigger! New technology has allowed us to use fewer and smaller parts on the board and in effect, has allowed the amps to become more efficient using our multi-layering technology to protect themselves better than ever, bullet proof technology is here to stay.

Once again congratulations, and THANK YOU for being a valued Incriminator Audio customer!

Contact us:
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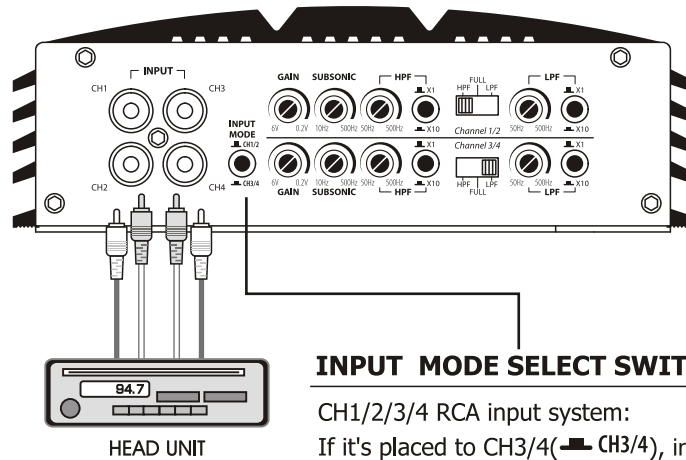
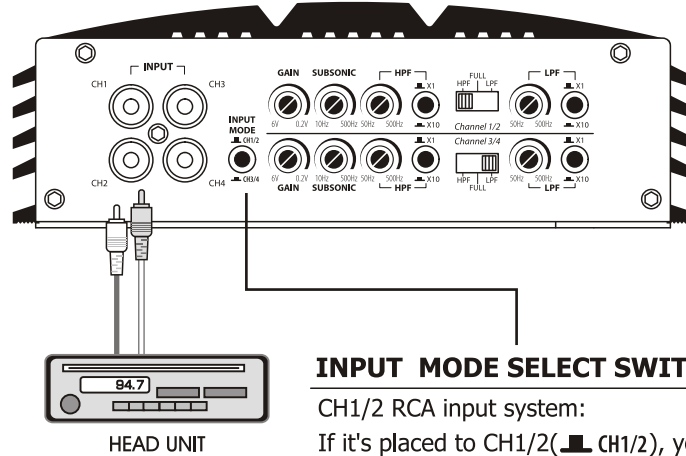
FEATURES

- 4 Channel Class-D Full Range Digital Amplifier
- MOSFET PWM Power Supply
- Stable Into 4 Ohms Bridged or 2 Ohms Stereo Load
- 24dB Octave Variable Crossover Slope
- Independent 1/2 and 3/4 Channel High Pass Filter Variable with x 10 Range Selectable Switch
- Independent 1/2 and 3/4 Channel Low Pass Filter Variable with x 10 Range Selectable Switch
- HPF/FULL/LPF Selectable Switch
- Variable Input Level Control
- Variable Subsonic Filter
- Input Mode Selector
- Signal Input RCA Connectors
- Multi-Way Protection circuitry (Thermal/Over Current/Speaker Short/Speaker DC protection)
- Tested Voltage & THD: 14.4V & Less than 0.05% THD
- Operating Voltage : DC10V~16V Power Input

SPECIFICATIONS

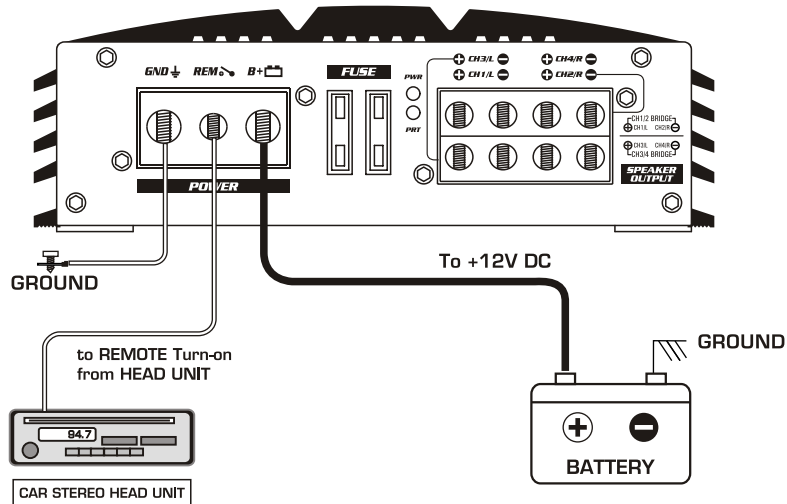
Rated power output	
-RMS power, 4 ohm stereo -----	100W x 4CH
-RMS power, 2 ohm stereo -----	150W x 4CH
-RMS power, 4 ohm bridged -----	300W x 2CH
Signal to Noise Ratio -----	>90dB
Low Pass Crossover -----	50Hz ~ 5KHz
High Pass Crossover -----	50Hz ~ 5KHz
Variable Subsonic Filter -----	10Hz to 500Hz
Frequency Response -----	10Hz ~ 40KHz (+/-1dB)
THD@RMS Watts -----	<0.1%
Channel Separation -----	75dB
Fuse Rating -----	30A x 2
Input Sensitivity -----	Variable 200mV~6V (+/- 5%)
Dimensions -----	7.00 (W) x 2.25 (H) x 12.00 (L)

RCA CONNECTION



This amplifier has a signal input terminal of RCA connector type for low level inputs. Adjustment of input levels is accomplished by the gain control of both channels. Adjusting this control allows the amplifier gain to be controlled to match and balance both channels. The RCA input connector should be used when connecting the radio/cassette line out and this connection is usually made using RCA-RCA connector wires.

POWER CONNECTIONS



+12V Power

Connect the +12V terminal of the amplifier to the + terminal of the battery using a large gauge power wire (preferably 4 gauge). It is critical to utilize an in-line fuse within 8 inches of the battery to ensure safe operation of the amplifier. Make sure that the fuse is not installed while you are connecting the + wire to the battery terminal to avoid sparking and possible injury or damage.

GROUND

Disconnect the battery and connect the GND (ground) terminal to the cars chassis. Keep this cable as short as possible (not longer than 10 inches). Be certain that the chassis ground point is free of rust, paint, and grime to ensure a solid electrical connection.

REMOTE

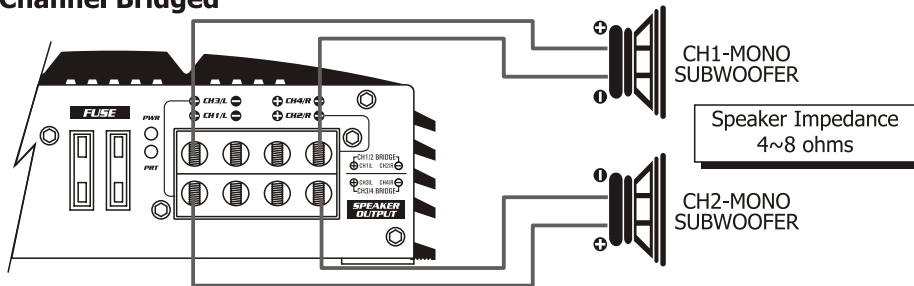
Connect the REM terminal to either the remote output lead from the radio or another switched 12V supply such as the power antenna wire.

⚠ Caution

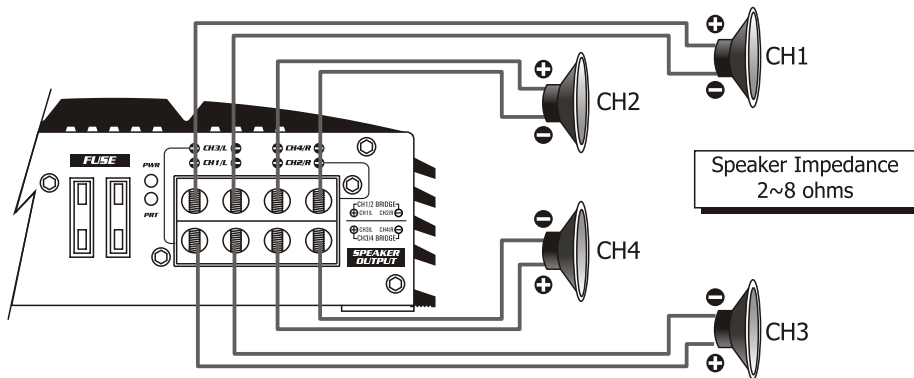
First make the ground connection, then +12V wire connection and finally the remote connection. Furthermore, the +12V wire must always be fused at the battery for protection against possible damage. If you need to replace the power fuse, replace it with a fuse of the same value. It may result in a serious hazard to use a fuse of a different type or rating.

SPEAKER CONNECTION

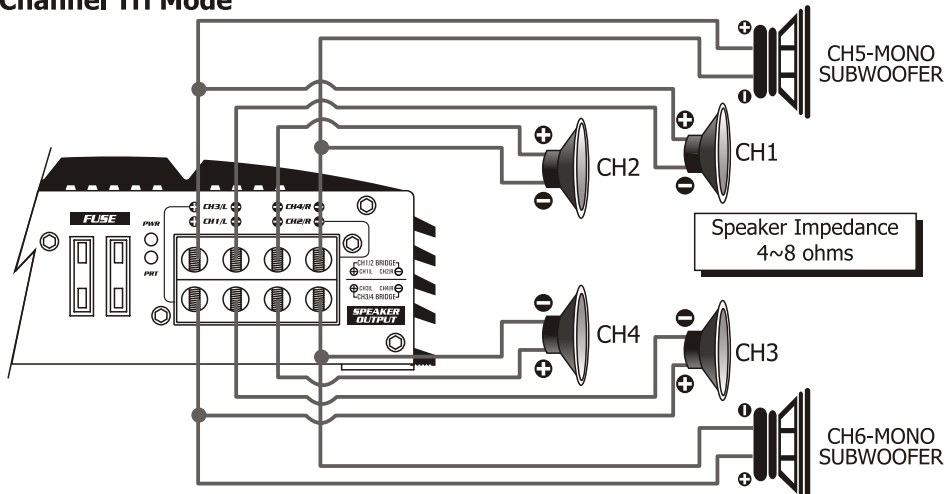
2 Channel Bridged



4 Channel Stereo



6 Channel Tri Mode



TROUBLE SHOOTING

This power amplifier has protection features to prevent any damages from misuse or faulty conditions. If the unit senses excessive heat, short circuited speakers or overload, the protection indicators will light, and the system will be turned off. In order to check the occurred problem, you should turn all levels down and all power off and carefully check the installation for wiring mistakes or short. If the amplifier shuts down due to excessive heat, the protection indicators will not light : simply allow time for the unit to cool.

Before removing your amplifier, refer to the list below and follow the suggested procedures. Always test the speakers and their wires first.

AMPLIFIER IS NOT POWERED UP

- ◆ Check that there is battery power on the +12V terminal.
- ◆ Check that remote terminal has at least 13.8V DC remote connection.
- ◆ Check a good ground connection. Check all fuses.
- ◆ Check the protection LED is not lit.

PROTECTION LED ILLUMINATES WHEN AMPLIFIER IS POWERED UP

- ◆ Check shorts on speaker wires.
- ◆ Remove speaker wires and reset the amplifier. If the protection LED still comes on, then the amplifier is faulty.

FUSE BLOWING

- ◆ Check that the minimum speaker impedance is correct.
- ◆ Check short on power cable and vehicle chassis.

OVERHEATING

- ◆ Check that the minimum speaker impedance is correct.
- ◆ Check speaker shorts.
- ◆ Check that there is a good airflow around the amplifier.

SOUND TOO LOW-DISTORTED SOUND

- ◆ Check that the input level control is set to match the output level of the unit.
- ◆ Check the head unit volume.
- ◆ Check speaker shorts.
- ◆ Check that crossover frequencies have been properly set.

HIGH HISS-ENGINE NOISE IN SPEAKERS

- ◆ Check a good ground and for speaker shorts.
- ◆ Disconnect all RCA inputs from the amplifier. If hiss/noise disappears, check it with a good RCA interconnect. Then check the component driving the amplifier.



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