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**HIGH PERFORMANCE  
CAR AMPLIFIER**



# I SERIES

**I304  
I501  
I1001**

**50X4  
500X1  
1000X1**

**OWNER'S MANUAL**



**INCRIMINATOR  
AUDIO**



Congratulations and thank you for purchasing an Incriminator Audio amplifier for your new automotive sound system. Like all of Incriminator Audio products, the I Series amplifiers are designed with only one thing in mind.....Performance! The new 2021 models have been completely designed from the ground up to be a more affordable solution, while still having all the features that you come to expect from Incriminator Audio, from remotes and strapping to more flexible crossover networks.

For maximum performance, we highly recommend that you have your new I Series amplifier installed by an authorized Incriminator Audio dealer. Your authorized dealer has the training, expertise and installation equipment to ensure utmost performance from this product. Should you decide to install the amplifier yourself, please take the time to read this manual thoroughly so as to familiarize yourself with its installation requirements and setup procedures.

If you have any questions regarding the instructions in this manual or any aspect of your amplifier's operation, please contact your authorized Incriminator Audio dealer for assistance. If you need further assistance, please contact us below.

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

Contact us:

Incrimator Audio, LLC  
7751 Hwy. 72  
Killen, AL 35645  
(256) 417-6658  
info@incriminatoraudio.com  
<http://www.incrimatoraudio.com>



All Incriminator Audio Series Amplifiers have multi-layer protection features to prevent damage from misuse or faulty conditions to ensure long lasting life of your investment.

If the unit senses excessive heat, short circuited speakers, overload, or voltage fluctuation outside of the working range the protection indicator light will turn red and the unit will turn off.

In order to solve this problem, you should turn all levels down, power off the unit, then carefully check the installation for wiring mistakes or shorts. If the amplifier is excessively warm the protection light will not turn on as the unit will turn off to protect itself from overheating. Let the unit cool down for 30 minutes and try again. If the unit works, try moving the amplifier or make sure nothing is covering it so it can vent heat off of the heatsink. Before you remove or uninstall the amplifier, refer to the list below for suggested solutions.

#### Amplifier Doesn't Turn On or No Output

- Check the fuse(s), not just visually, but with a continuity meter and all 12+ volt, remote and ground connection. Make sure you have 12+ volts. It is possible for a fuse to have poor internal connections, take the fuse out of the holder for the testing.
- Check the input signal from the source unit using an AC voltmeter to measure the voltage while it's being played. The voltage should be from 0.2 to 6.0 volts from the RCA cables.
- Check the output of the amplifier, test for output at the speaker outputs of the amplifier.
- Check to ensure that the speaker wires are making a good connection to the amplifier and the subwoofers.

#### Amplifier Goes Into Protection

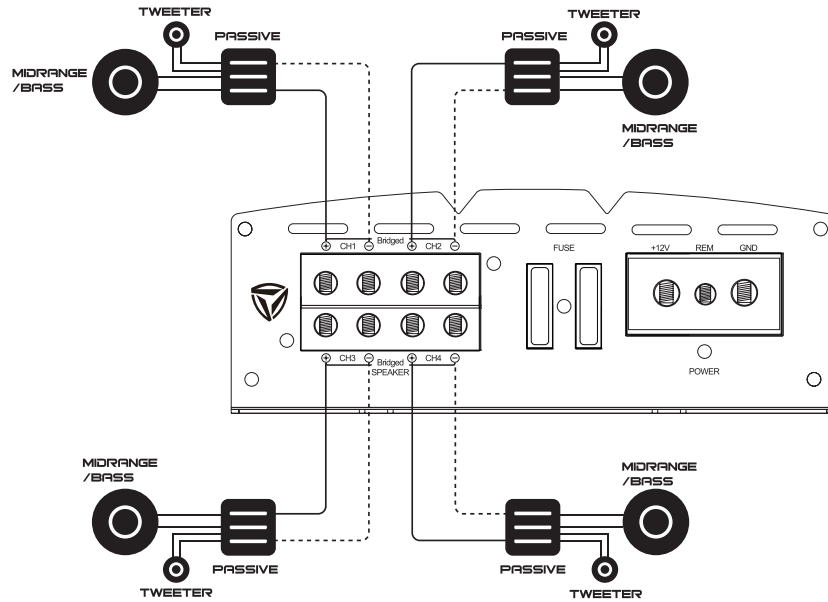
- Check shorts on speaker wires or open coil.
- Check input voltage from RCA, if DC signal is over 4 volts, the amplifier will go into protect. Remove and reset power to see if it comes on.
- Check impedance to make sure it's over the minimum load. I501 and I1001 have a working impedance of 1 ohm or 2 ohms strapped. I304 is 2 ohm stereo or 4 ohm mono load.
- Check input voltage. I304, I501 and I1001 have a working range of 10 to 16 volts.
- Check chassis ground and remote using same ground.

#### Distorted / Attenuated / Noise Sound

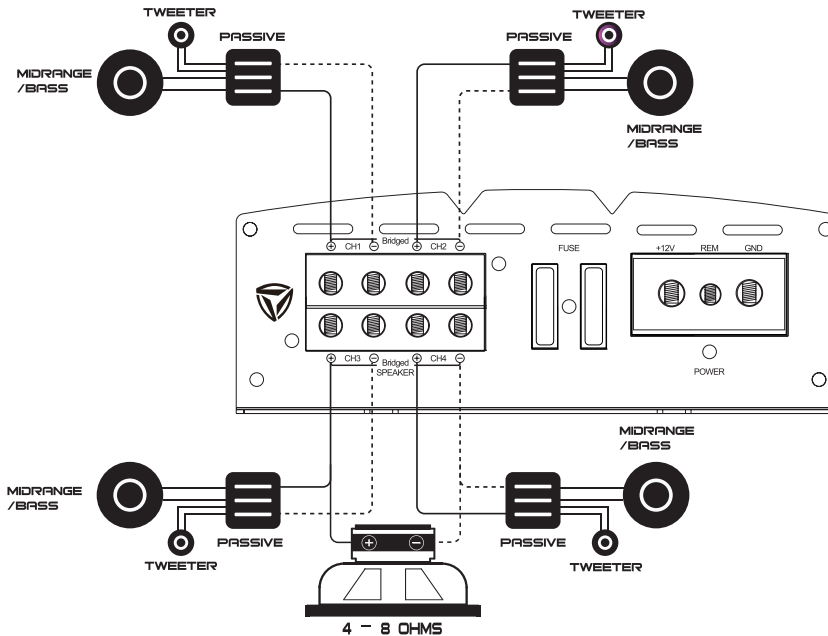
- Check the chassis ground connections of all audio equipment.
- Check amplifier controls for errors, input level or crossover setting.
- Check the speaker wires for a possible short, either between the positive and negative leads or between a speaker lead and the vehicle's chassis ground.
- Check the nominal load impedance to verify that the amplifier is driving a load equal to or greater than 1 ohm ( I501 and I1001 ) or 2 ohm stereo or 4 ohm mono ( I304 ).
- Check the input signal and input signal cables to make sure signal is present at the amplifier inputs and the cables are not pinched or loose. It may be helpful to try a different set of cables and / or a different signal source to be sure.
- Check speaker wiring for reverse polarity.



### 1304 4 CHANNEL SPEAKER CONNECTION MODE.



### 1304 5 CHANNEL SPEAKER CONNECTION MODE.



## DIGITAL MONOBLOCK FEATURES

- Digital Class-D Linkable Mono Block Amplifier
- Dual MOS-FET Pulse Width Modulation Power Supply
- 1 Ohm Stable Topology
- 24 dB/octave - Variable State Subsonic Filter
- 24 dB/octave - Variable State Low Pass Filter
- 9 dB/octave - Variable State Bass Boost
- Heavy Duty Copper Layer Double Sided Epoxy PCB
- Advanced Strapping
- Multi-Layer Protection Circuit
  - ( Thermal, Voltage, Speaker Short, DC )
- Wired Remote Control

## DIGITAL MONOBLOCK SPECIFICATIONS

Rated Power ( 14.4V at 1% THD )	1501	11001
RMS Power - 2 Ohm Linked :	1000W	2000W
RMS Power - 1 Ohm Mono :	500W	1000W
RMS Power - 2 Ohm Mono :	375W	650W
RMS Power - 4 Ohm Mono :	250W	400W
Low Pass Filter ( 24dB/Oct. ) :	35Hz - 250Hz	35Hz - 250Hz
Subsonic Filter ( 24dB/Oct. ) :	10Hz - 50Hz	10Hz - 50Hz
Frequency Response ( +/- 1dB ) :	10Hz - 250Hz	10Hz - 250Hz
Bass Boost ( 45Hz ) :	0 - 9dB	0 - 9dB
Input Sensitivity ( Volt +/- 5% ) :	6.0V - 0.2V	6.0V - 0.2V
Signal / Noise Ratio :	95dB	95dB
Damping Factor ( 1 Ohm ) :	>200	>200
Operation Mode :	Master/Slave	Master/Slave
Power Efficiency ( 4 Ohm ) :	85%	85%
Fuse Rating ( 14.4V ) :	60A	120A
Fuse Rating ( 14.4V Linked ) :	120A	240A
Power Input Connection :	4 Gauge	4 Gauge
Operation Voltage :	10V - 16.0V	10V - 16.0V
Speaker Output Connection :	8 Gauge	8 Gauge
Dimensions ( Inches ) :	6.85 W x 2.36 H x 10.24 L	6.85 W x 2.36 H x 14.57 L
Dimensions ( Millimeters ) :	174 W x 60 H x 260 L	174 W x 60 H x 370 L

\* Specifications are subject to change as advances and development continue.



## FULL RANGE DIGITAL & A/B 4CH FEATURES

- Full Range Class A/B Amplifier
- Dual MOS-FET Pulse Width Modulation Power Supply
- 2 Ohm Stable Stereo / 4 Ohm Mono Topology
- 12 dB/octave - Variable State Low / High Pass Filter
- Flexible Crossover Multipliers X1 / X10
- Mirror Technology ( Channel 1/2 to 3/4 ) with
- Multi-Layer Protection Circuit - ( Thermal, Voltage, Speaker Short, DC )
- Wired Remote Control

## FULL RANGE DIGITAL & A/B 4CH SPECIFICATIONS

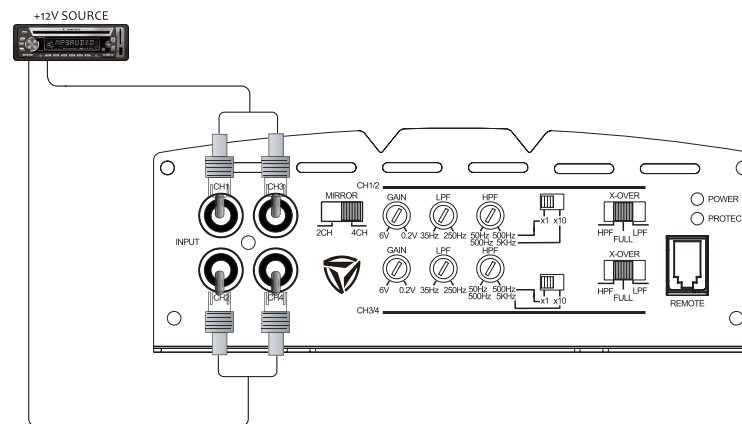
Rated Power ( 14.4V at 1% THD )	I304
RMS Power - 4 Ohm Mono :	150W x 2CH
RMS Power - 2 Ohm Stereo :	75W x 4CH
RMS Power - 4 Ohm Stereo :	50W x 4CH
Low Pass Filter ( 12dB/Oct. ) :	35Hz - 250Hz
High Pass Filter ( 12dB/Oct. ) :	50Hz - 5000Hz ( X1, X10 )
Frequency Response ( +/-1dB ) :	20Hz - 20,000Hz
Channel Separation :	60dB
Input Sensitivity ( Volt +/- 5% ) :	6.0V - 0.2V
Signal / Noise Ratio :	95dB
Damping Factor ( 4 Ohm ) :	>200
Operation Mode :	Mirror CH1/2 > CH3/4
Power Efficiency ( 4 Ohm ) :	65%
Fuse Rating ( 14.4V ) :	40A
Power Input Connection :	4 Gauge
Operation Voltage :	10V - 16.0V
Speaker Output Connection :	8 Gauge
Dimensions ( Inches ) :	6.85 W x 2.36 H x 12.20 L
Dimensions ( Millimeters ) :	174 W x 60 H x 310 L

\* Specifications are subject to change as advances and development continue.



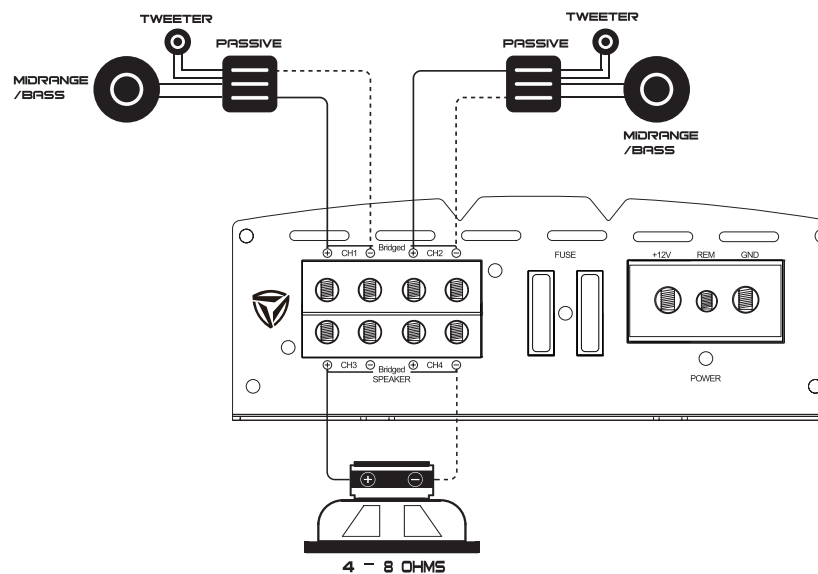
## FULL RANGE DIGITAL & A/B 4CH INPUT CONNECTION

### I304 INPUT CONNECTION



## FULL RANGE DIGITAL & A/B 4CH SPEAKER CONNECTION

### I304 3 CHANNEL SPEAKER CONNECTION MODE.





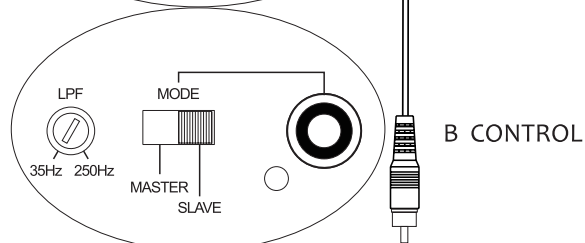
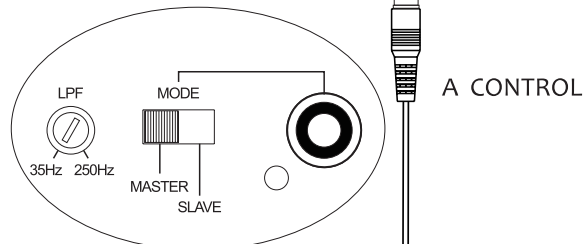
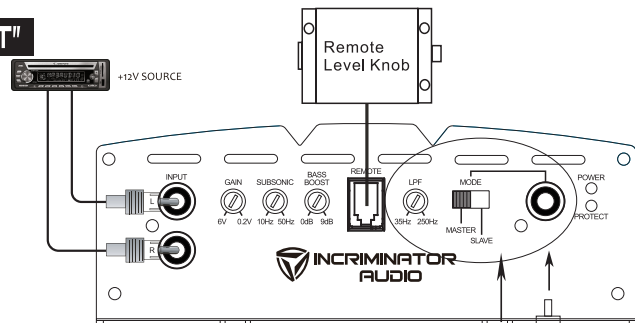
## DUAL AMP INPUT CONNECTION ( MASTER & SLAVE )

### MASTER / SLAVE MODE

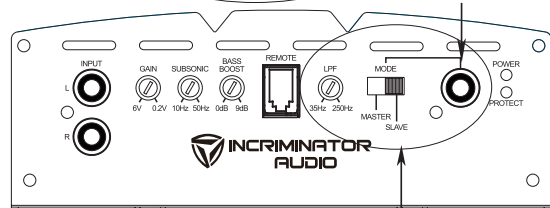
The entire pre-amp section of the SLAVE amplifier is bypassed and feed directly from the MASTER amplifiers pre-amp with the RCA Link cable – which in turn gives you exact and perfect gain and crossover matching across both amplifiers.

Set the MASTER/SLAVE switch on each amplifier as shown on the diagram below, you will have one MASTER and one SLAVE in this configuration.

### "MASTER UNIT"



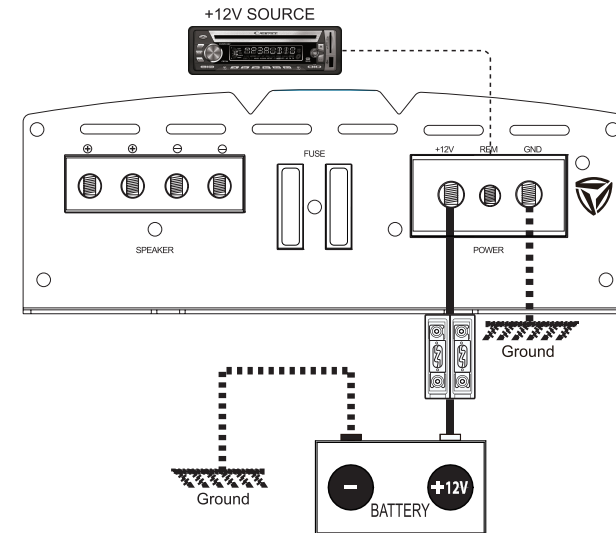
### "SLAVE UNIT"



B



## POWER CONNECTION



### Warning!!

Be sure to install in-line fusing or circuit breakers from the 12+ volt ( Positive ) connection of the battery.

### Before Installation

Disconnect the negative or ground from the vehicle's battery, before you begin to install the amplifier. Find a good place to mount the amplifier ( Do not mount to the enclosure of the subwoofers ) and secure it with hardware.

### +12V Battery / Amplifier Connection

You will need to connect a power wire to the vehicle's positive battery terminal, using an appropriate power ring terminal. This connection must be tight and secure to ensure proper connectivity. This wire has to be fused appropriately ( see each amplifiers fuse rating under specifications ) within 18 inches for safety. You will then need to connect the power wire to the 12+ terminal of the amplifier with a hex head ( allen wrench ). Do not install the fuse until installation is complete. Any power wires running through metal barriers or firewalls, must be protected with an insulating grommet to prevent damage to the insulation of the wire. Failure to do so may result in a dangerous short circuit.

### Ground Connection

The ground connection must be made to the vehicle's chassis and should be kept as short as possible, while accessing a solid piece of sheet metal in the vehicle. The surface should be sanded at the contact point to clean rust, paint or grime so a metal-to metal connection between the chassis and the termination of the ground wire is effective. You will then need to connect the ground wire to the GND terminal of the amplifier with a hex head ( allen wrench ) .

### Remote / Turn-on Wire

The +12V remote turn-on wire is typically controlled by the source unit's remote turn-on output. The amplifier will turn on when +12V is present at its remote ( REM ) input and turn off when +12V is switched off. If a source unit does not have a dedicated remote turn-on output, the amplifier's turn-on lead can be connected to +12V via a switch that derives power from an ignition switched circuit. Connect the remote wire using 12 to 16 gauge wire to the REM connection of the amplifier with a hex head ( allen wrench ) , then connect the other end of the remote wire to either the source unit's turn-on output or ignition switch circuit.

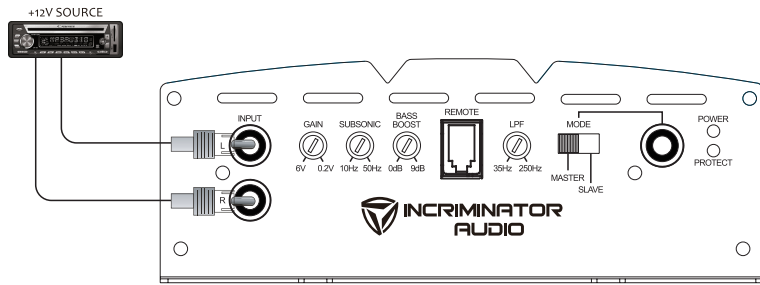
### Finish Installation

When all connections have been made for power, ground and remote, move to the signal section and complete that step. Then wire all of your subwoofers to the correct impedance and adjust all control settings such as filters and gain, make sure you have the correct mode selected. You can then reconnect the ground cable to the vehicle's battery. Double check to make sure all connections are secure and you have finished the installation. Once you confirm this, install the fusing for the power wire and test the amplifier with a low signal level, make adjustments as needed.

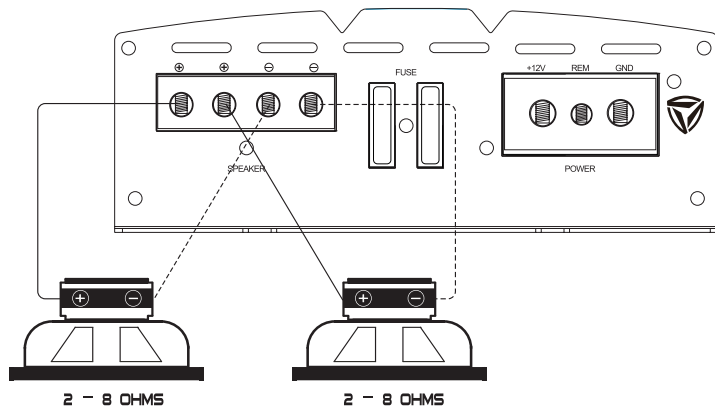
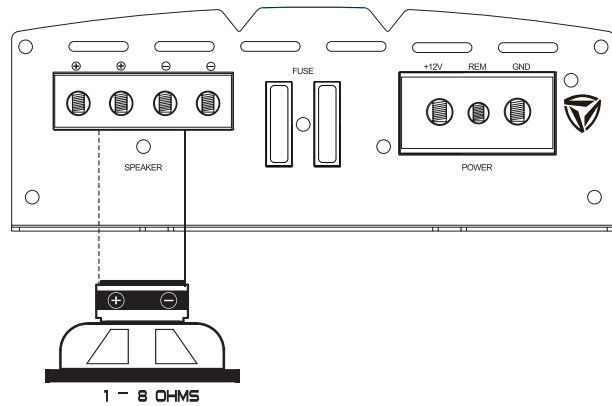


## DIGITAL MONOBLOCK RCA CONNECTION

### SINGLE AMP INPUT CONNECTION



## DIGITAL MONOBLOCK SPEAKER CONNECTIONS



## DUAL AMP INPUT CONNECTION ( MASTER/SLAVE )

