

OWNER'S MANUAL



"No Chrome, No Carbon Fiber, No BS!! Period...."
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IA20.1



DIGITAL CLASS-D LINKABLE/DUAL MONO BLOCK AMPLIFIER

FEATURES

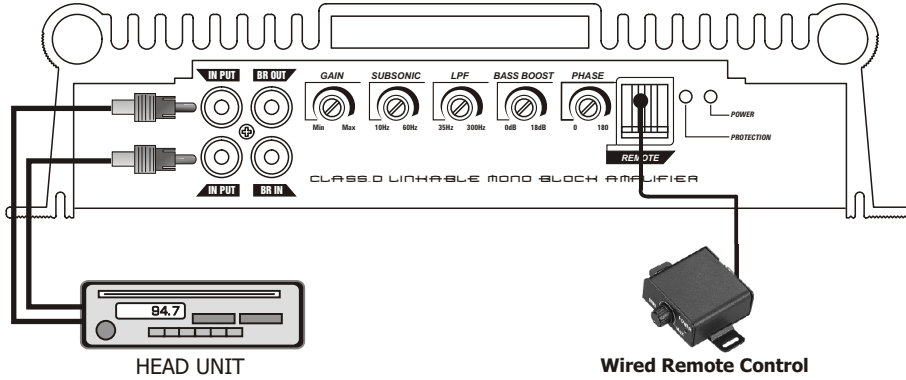
- Digital class-D linkable/dual mono block amplifier
- Dual MOS-FET PWM power supply
- Stable into 1 ohm mono load
- 24 dB/oct, variable low pass crossover
- 24 dB/oct, variable subsonic filter
- 18 dB/oct, variable adjustable bass-boost
- 180° Variable adjustable phase shift
- 3 way protection circuit (thermal and overload, and speaker short)
- Wired remote jack included

SPECIFICATIONS

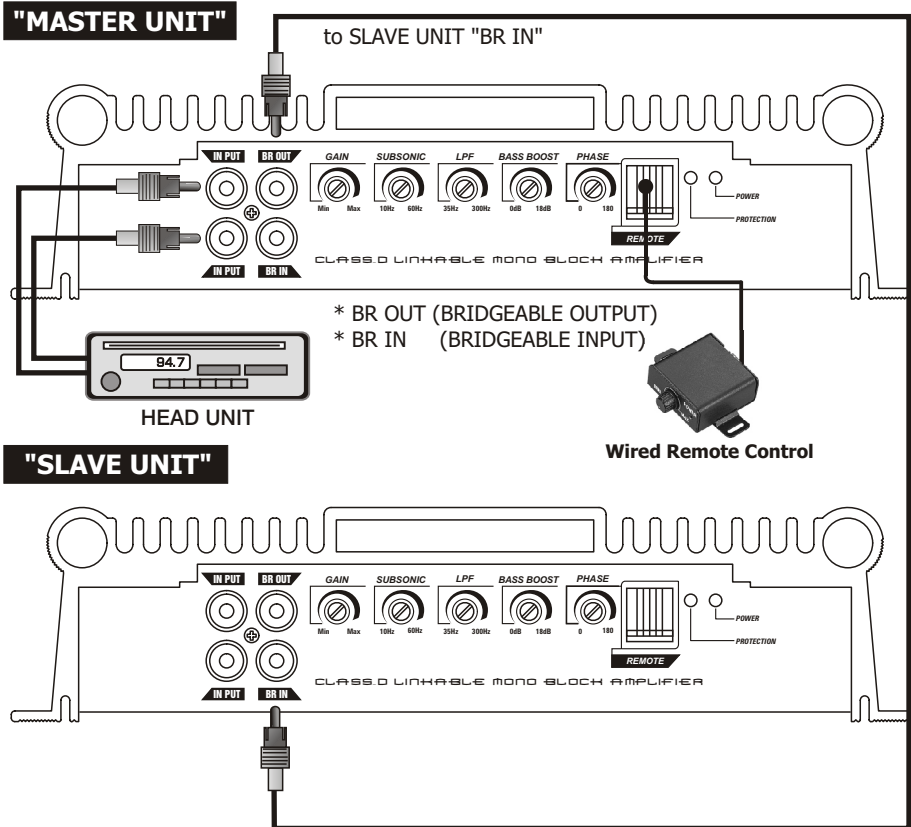
Rated power output	
-RMS power, 2 ohm linkable/dual mono -----	3600W x 1CH
-RMS power, 1 ohm mono -----	1800W x 1CH
-RMS power, 2 ohm mono -----	900W x 1CH
-RMS power, 4 ohm mono-----	450W x 1CH
Low pass frequency crossover -----	35Hz~300Hz
Subsonic filter -----	10Hz~60Hz
Bass boost @ 45Hz -----	0~18dB
Phase shift control-----	0~180 degree
Frequency response-----	10Hz~350Hz (+/- 1dB)
Input sensitivity-----	200mV~6V (+/- 5%)
Signal/noise ratio-----	105dB
T.H.D @ 4 ohm-----	<0.1%
Efficiency @ 4 ohm-----	86%
Recommended Fuse rating-----	200A(external type fuse)
Dimensions-----	10.08(W) X 2.36(H) X 21.81(L) inches

RCA CONNECTION

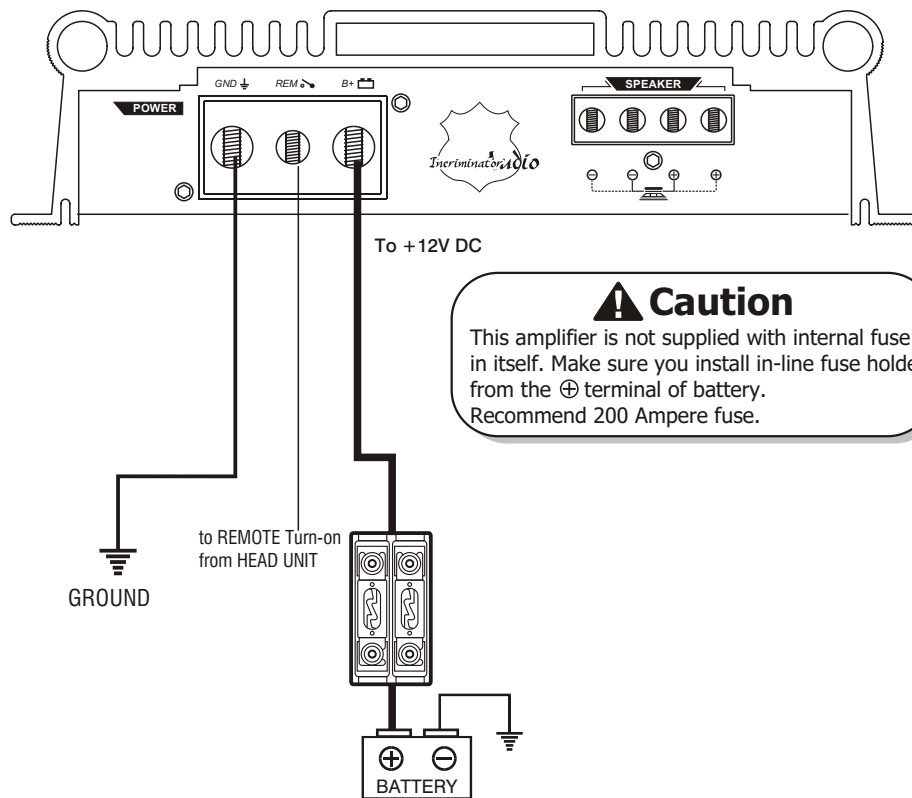
Single Amp Input Connection



Dual Amp Input Connection (MASTER & SLAVE RCA Connection)



POWER CONNECTIONS



+12V Power

Connect the +12V terminal of the amplifier to the + terminal of the battery using the same diameter as the ground cable, making sure you install in-line fuse holder, approximately 300 or 400 mm. From the ⊕ terminal of battery, making sure that there is no fuse in the battery holder.

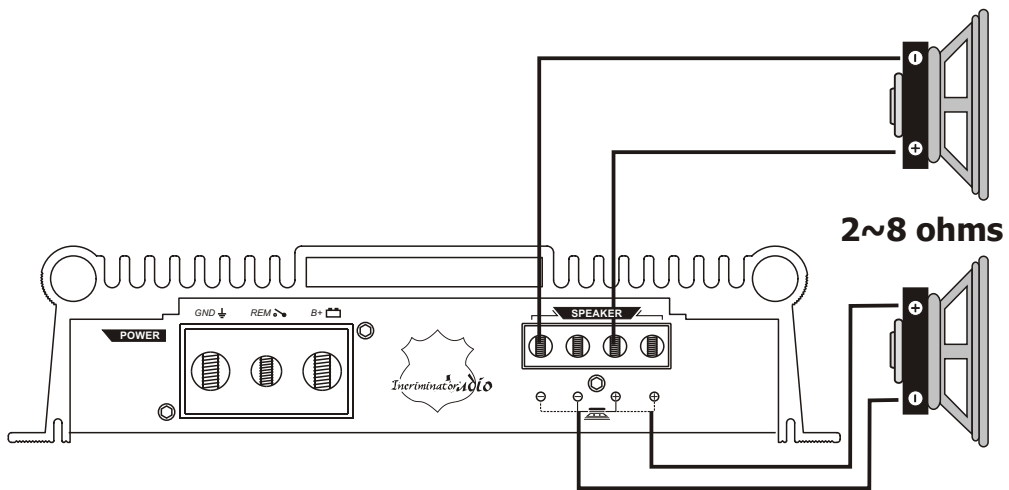
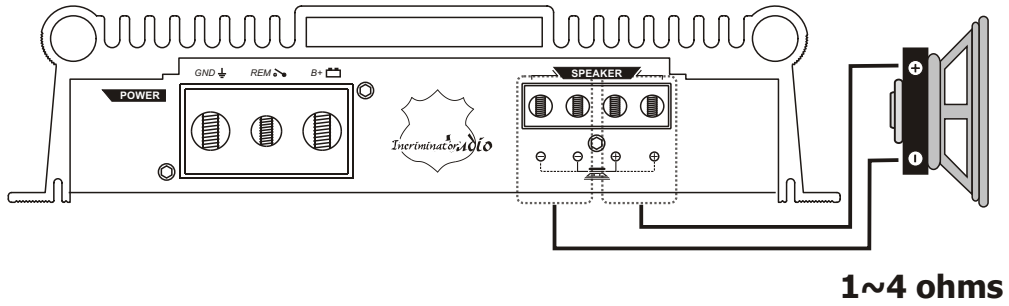
GROUND

Disconnect the battery and connect the GND (ground) terminal to the cars chassis. Keep this cable as short as possible (not longer than 20 inches or less). Making sure that the connection with the chassis is rust free and clear of paint or grime.

REMOTE

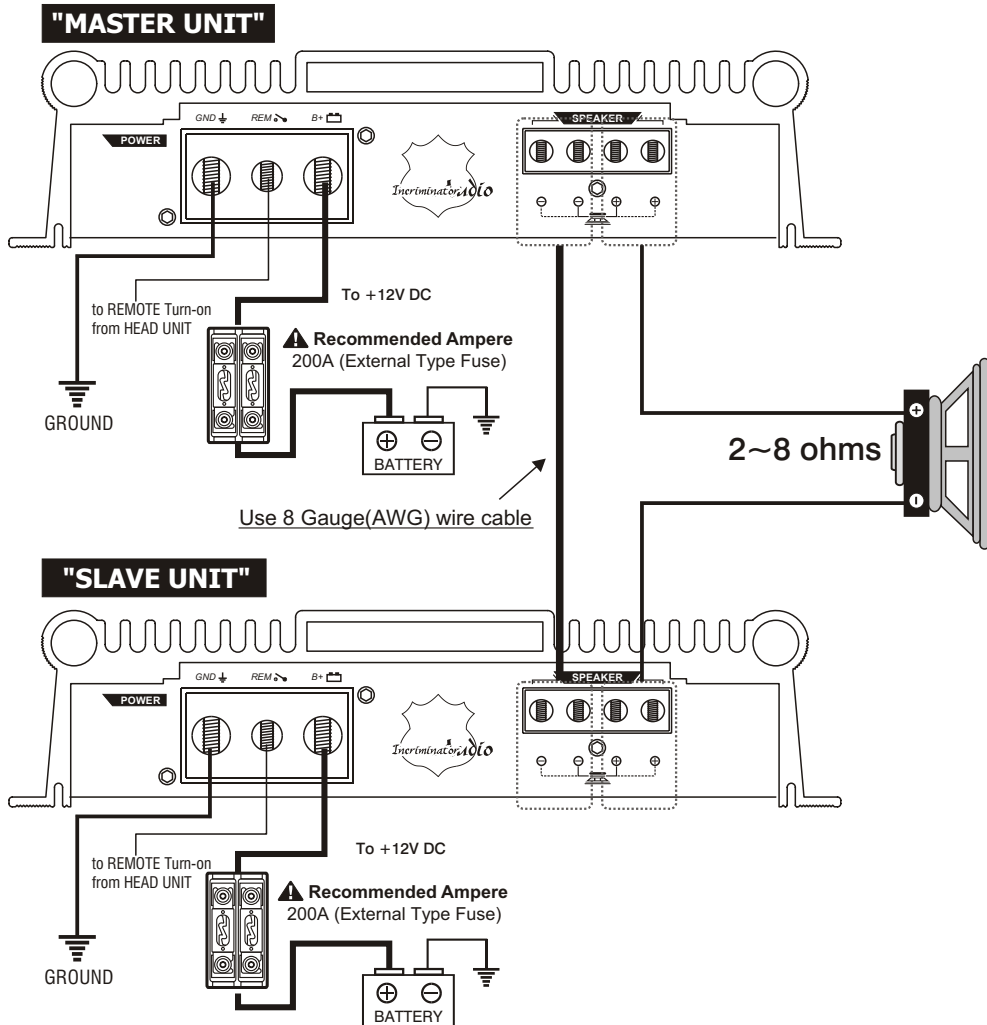
Connect the REM terminal of the amplifier to the power antenna terminal in the car ignition switch using 12 or 16 ga. electrical wire.

SINGLE AMP SPEAKER CONNECTION



The positive and negative terminal of the subwoofer's voice coil are connected to the positive and negative terminal of the Amplifier.

DUAL AMP POWER AND SPEAKER CONNECTION (Linkable)



Using a dual amplifier configuration, the MASTER amplifier has total control over the SLAVE amplifier. When using dual amplifier to operate subwoofer, the positive terminal of the subwoofer's voice coil must be connected to the positive terminal of the MASTER Amplifier and the negative terminal of the subwoofer's voice coil must be connected to positive terminal of the SLAVE Amplifier. When hooking two amplifiers to it, please check the power handling capabilities of your subwoofers if they are not exceeded.

⚠ Caution
 In linkable/bridgeable mode connection, total impedance must be more than 2Ω load. Any impedance (load) smaller than 2Ω could damage the amplifier.

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.

