

Guarantee | Repairs & Returns

Complete and include this form. MH Instruments honors a 30-day satisfaction guarantee for products purchased ONLY and directly from us. For MHI-direct purchases, we reserve the right to charge a minimum restocking fee of 10%.

Used, Modified and/or Damaged Merchandise

Any product that we determine shows evidence of being used, modified and/or installed contrary to our instructions, and/or subjected to improper handling, packaging or shipping by the customer, may not be eligible for exchange, refund or warranty consideration at our discretion. Modified units may be assessed a repair fee at our discretion.

Consumer-Direct Repairs | One-Year Warranty

MH Instruments warrants each new product it manufactures to be free from defective materials and workmanship. MHI agrees to remedy any such defect or replace the unit, at our option, provided the unit is delivered to us, intact, *with dated proof of purchase* and all transportation charges prepaid to our factory, for a period of one (1) year from the date of sale to the consumer.

DO NOT SEND REPAIRS TO YOUR DEALER/DISTRIBUTOR

NOTE TO DEALERS: Returns from dealers on behalf of consumers **MUST** include a dated proof of purchase or merchandise will be returned.

DATED PROOF OF PURCHASE REQUIRED FOR WARRANTY REPAIRS

Return/Repair Slip Information *(Please complete and include with product.)*

Name _____
Address _____
City _____
State Zip _____
Phone _____
Reason _____
Purchased _____
at/from: _____
Ship to: _____

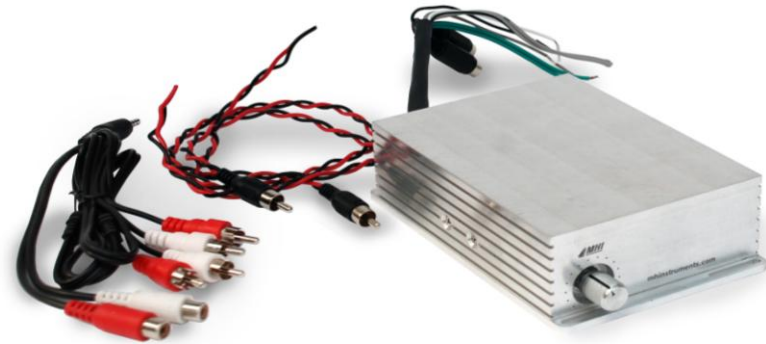


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For additional information, please visit us at www.mhinstruments.com.

***PLEASE DO NOT REQUIRE DELIVERY SIGNATURE.** RRRAW₂₀₀ 0516

Rumble Road™ HD Raw₂₀₀ Stereo Amplifier



Owner Manual & Warranty

- Add a personal stereo system to your motorcycle
- Boost or upgrade amplification of your car stereo system
- Add a second set of speakers to your existing audio system
- Use with factory-installed or aftermarket audio/speaker systems

Congratulations! You have purchased a quality upgrade for your motorcycle, ATV or other powersports vehicle. The Rumble Road™ HD Raw₂₀₀ stereo amplifier will make your audio system more powerful – whether you are installing your first set of speakers, upgrading them, or adding a second set to use with a new or existing personal stereo or car stereo – factory or aftermarket. The HD Raw₂₀₀ will provide many hours of pure listening pleasure.

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Items inventory

Each **Rumble Road™ HD Raw₂₀₀** includes:

- integrated 4-slot mounting bracket
- all color-coded audio cabling and power wiring, including:
- 2 RCA high level input patch cables
- 1 Y-adaptor to connect RCA inputs to standard 3.5mm stereo plug
- clear, illustrated installation guide

Each **Rumble Road™ HD Raw₂₀₀ KIT** also includes:

- 2 – 5.25” 2-way coaxial speakers (75 Watts continuous/150 Watts peak per speaker)
- 2 – 5.25” round foam acoustic baffles
- additional wiring

Plus: one-year warranty on parts and labor

Features

- Compact, Space-Saving Footprint (5.3” l x 3.9” w x 1.6” d including bracket)
- High-Gain, Stereo-Bridged Amplifiers (approx. 70 Watts continuous per channel, 100 Watts peak per channel, into 4 Ohms @ 13.6 VDC) – 200 Watts peak per system
- Universal Line-Level Input and High Level Input to connect to speaker out from existing amplifiers
- Sleek Industrial Design • Precision, CNC Machined, Chromed Aluminum Case
- Flexible Electrical Hookup • Simple, Standard Wiring
- State-of-the-Art, Surface-Mounted Electronics
- Mounting Bracket, Affixed
- Custom Design for Powersports Market

Troubleshooting

Low Sound Output.

If you are using Rumble Road™ HD Raw₂₀₀ with a personal stereo, you may have to experiment with the personal stereo’s volume control to achieve desired volume from the complete system. Adjusting the personal stereo’s volume setting to mid-level typically serves as a good baseline. Then adjust Rumble Road™ HD Raw₂₀₀ main volume setting.

Noise Reduction.

Some personal stereos powered off the bike’s electrical system may produce ground noise that is then amplified by Rumble Road™ HD Raw₂₀₀. This noise is characterized as a high-pitched whine and occurs whether the engine is on or off. A ground loop isolator is designed into the HD Raw₂₀₀ to minimize this effect. A power filter also is designed into the HD Raw₂₀₀ to minimize generator or electrical noise. However, noise can still be picked up via the electrical leads into the device. To combat this, please keep signal and power wires as short in length as possible. Also, route wires away from any systems on your vehicle that radiate noise – such as the ignition system or wiring, generator, etc. Please visit the accessories page at www.mhinstruments.com for products that may help minimize noise issues.

MH Instruments is proud to introduce

our own line of

high-efficiency, premium-quality

4” coaxial full-range speakers



www.mhinstruments.com

Step-by-step mounting instructions

- ❑ 1) Determine an appropriate location on your bike to mount the Rumble Road™ HD Raw₂₀₀ audio amplifier. It is important that the selected area is well ventilated and kept as cool as possible because the HD Raw₂₀₀ case itself is used as a heatsink to deflect heat generated by the amplifier built inside it. Ideally, the device should be mounted to the bike frame or another cold steel part of the bike to help maintain good airflow over the case in order to avoid overheating and ensure proper operation.
- ❑ 2) Connect black wire to ground.
- ❑ 3) Connect the speaker OUTPUTS from the amplifier to your speakers as shown in the diagrams (see Figures 1 and 2). Please make sure that the speaker leads are NOT shorted to each other or to ground when power is applied to the unit.
- ❑ 4) Plug in RCA cables or the RCA-to-3.5mm-Y-adapter to the Rumble Road™ HD Raw₂₀₀ and then to your stereo unit or to your existing stereo system (see Figures 1 and 2 for options).
- ❑ 5) Connect power INPUT (gray wire) to +12-Volt source, or to a battery positive lead. If you are using a high-power switch* to turn the device on/off, also connect the white remote control wire to the gray wire (see Figures 1 and 2). The white wire must have +12VDC applied to it for the amplifier to turn on.
- ❑ 6) Review your wiring sequence.
- ❑ 7) Apply power. If system is not working properly, check power and ground, or you may have blown a fuse*, in which case you'll need to replace it. If the fuse has blown, you may have misconnected a wire, so review the wiring sequence again.
- ❑ 8) If the Rumble Road™ HD Raw₂₀₀ is installed externally, final electrical installation can be dressed up using plastic braiding around the power and signal wires leading up to and away from the speakers, stereo, switch and battery or power source. NOTE: Braiding that contains metal may cause noise interference.

**Switch and fuse not included*

About Rumble Road™ HD Raw₂₀₀

Out in the open, or under wraps, this powerfully rugged, weather-resistant amplifier looks and functions great in the “raw.”

The same powerful audio delivered by The Original Rumble Road™ Ultra amplified speakers is stripped down to size, for a space-saving number designed for fairing-based motorcycles, scooters and other powersports vehicles where big sound and minimal space are on the same wish list.

Achieve maximum volume and clarity from virtually any factory, portable or satellite stereo radio, MP3, CD or cassette player while on the road – without a bulky setup. Packaged without speakers, MHI's unadulterated Rumble Road™ HD Raw₂₀₀ amplifier is the solution for do-it-yourselfers and others itching to upgrade an existing sound system, design a new one, or add a second set of speakers.

Housed in a CNC-machined aluminum case that acts as its own heatsink, the HD Raw₂₀₀'s compact, industrial design features dual high-gain amplifiers and yet keeps its cool in all kinds of weather – and in just about any location on your bike, scooter, trike, quad or sled.

To install, simply pick a well-ventilated area to mount, wire up to a 12-volt source on your rig, connect to your speakers and stereo system, and enjoy! Complete installation instructions begin on the following page.



Choosing a stereo

With Rumble Road™ products, you can choose the personal stereo, MP3, CD or cassette player you like best. With the exception of non-standard and/or inexpensive FM radios with floating ground outputs, virtually any brand works. Rumble Road™ also works well with satellite radios and with car stereos that have line outputs.

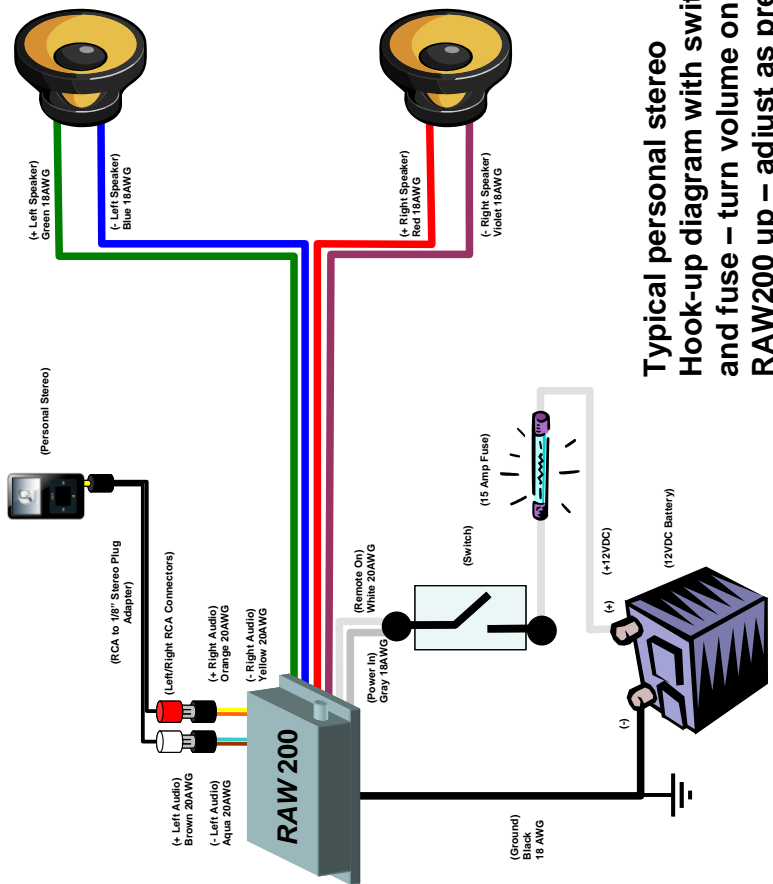
Mounting options

Rumble Road™ HD Raw₂₀₀ can be mounted on any location on your bike that allows good airflow to prevent overheating.

Installation overview

Figure 1 illustrates Rumble Road™ HD Raw₂₀₀ connected to a personal stereo, along with wire inputs and outputs.

Figure 1: Personal Stereo Hookup



Typical personal stereo Hook-up diagram with switch and fuse – turn volume on RAW200 up – adjust as preferred

Figure 2 illustrates Rumble Road™ HD Raw₂₀₀ connected to an existing factory stereo. As Figure 3 illustrates, the HD Raw₂₀₀ also could be used to power a second set of speakers from your radio. In this scenario, leave the primary speakers connected, connect the new speakers and adjust volume on the HD Raw₂₀₀.

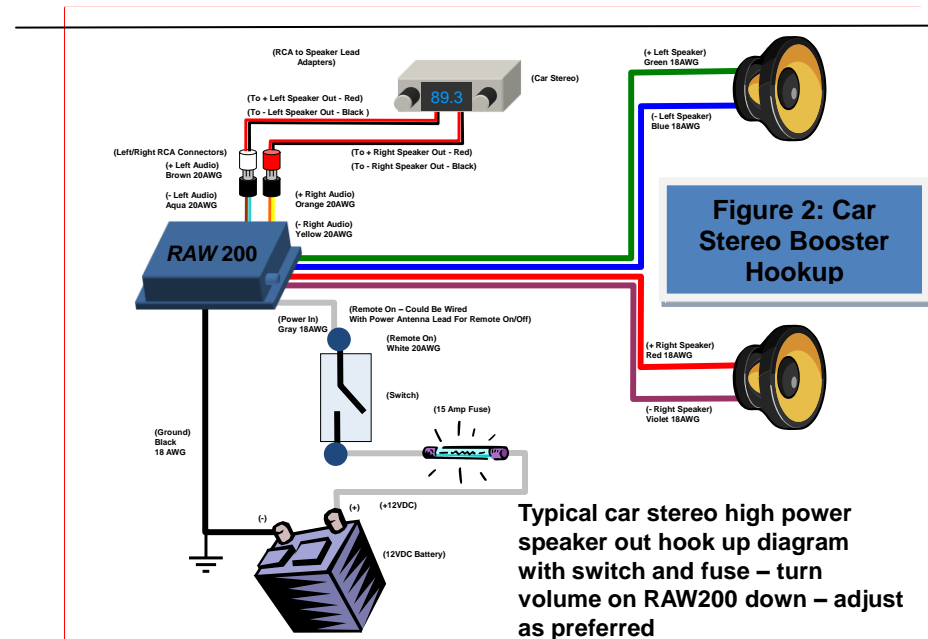


Figure 2: Car Stereo Booster Hookup

Typical car stereo high power speaker out hook up diagram with switch and fuse – turn volume on RAW200 down – adjust as preferred

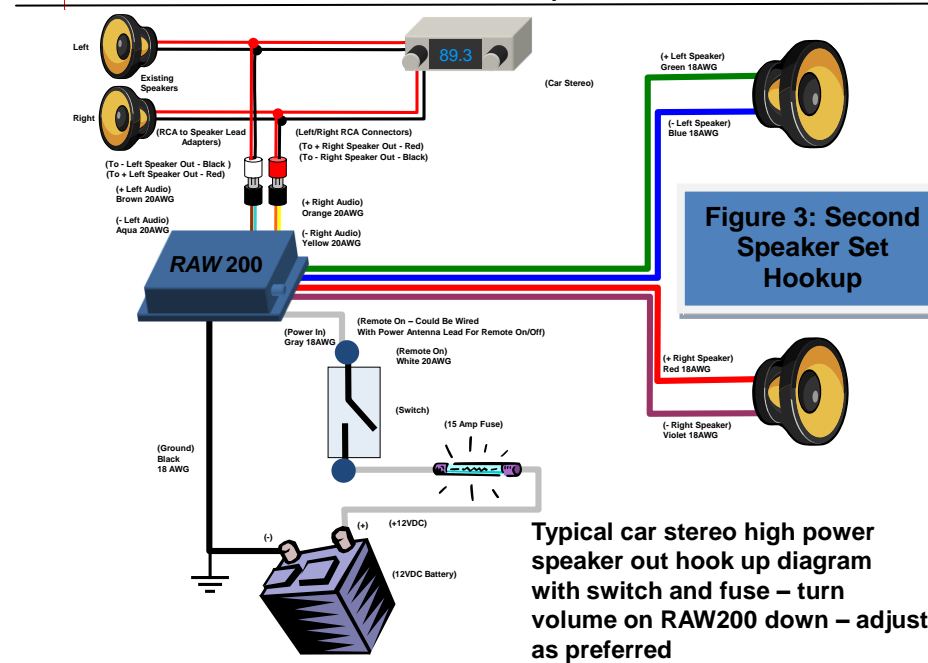


Figure 3: Second Speaker Set Hookup

Typical car stereo high power speaker out hook up diagram with switch and fuse – turn volume on RAW200 down – adjust as preferred

[ASF1]NOTE: Switch and fuse not included