

# HOGTUNES

*Audio Solutions For The Great American Cruiser*



## REV 200RG KIT-RM

*High Performance Front Speaker Kit with 200 Watt Amplifier*

**FOR USE ON RUSHMORE ROAD GLIDE MODELS**

**INSTALLATION MANUAL**

Thank you for choosing the Hogtunes REV 200RG KIT-RM for Rushmore platform Road Glide models. Since positive word of mouth is the best way to grow our business, we want your system to work as well as it was designed to. If you have any questions or concerns, we are here to help.

**The installation will be done in 2 major steps.**

**Step 1:** Changing out the front speakers

**Step 2:** Installation of the amplifier

Please follow the installation instructions as provided on the following pages.



*A video version of this manual is available at **www.hogtunes.com** If you still need assistance, please consider a professional installation by your motorcycle dealer.*

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**Hogtunes Contact Information**

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# 362F-RM FRONT SPEAKER / INSTALLATION INSTRUCTIONS

- Step #1: Remove the seat and both wires (+ and -) from the battery. Each factory speaker grill will be removed from the inner fairing by prying up on them. In most cases you can pry these off with your fingers, but if you must use a tool, please use something with a 90° end being extra careful not to scratch your inner fairing.
- Step #2: Remove the outer fairing from the bike and then the headlamp assembly. Refer to a service manual if you need help with this. NOTE: Placing a towel on the front fender can help prevent scratches or "dings" from dropped tools or fasteners etc. Expletives will also be kept to a minimum.
- Step #3: Undo the 4 screws that hold the factory speaker to the cabinet. Carefully take off each speaker wire by disconnecting one at a time. Take a Hogtunes speaker and attach the factory speaker wires noting they will only go on one way. The #1 reason for tech related calls is loose wires at the speaker which is why we designed the self-locking clips on the speaker frame. You will need to "maneuver" the new speaker into place so it will go past grill opening but it will go in without force. **In order to make the speaker install properly, the speaker wire tabs must be oriented so they are closest to the top of the inner fairing (12 o'clock position).** Reinstall the factory screws to secure the speakers in place making sure the speaker is flush to the mounting plane.
- Step #4: On the back of each stock speaker grill, you will see a rubber gasket and 2 white clips. These gaskets and clips will be removed from the factory grills and re-installed on the Hogtunes grills. Once the gaskets and clips are installed onto the new grills, simply press the new grills back onto your inner fairing.

The supplied Hogtunes grills are designed so the metal mesh and grill frame are easily separated for custom finishing. The metal mesh is thick enough so it should not warp during processing such as polishing or powder coating.

# REV 200-RM AMPLIFIER INSTALLATION INSTRUCTIONS

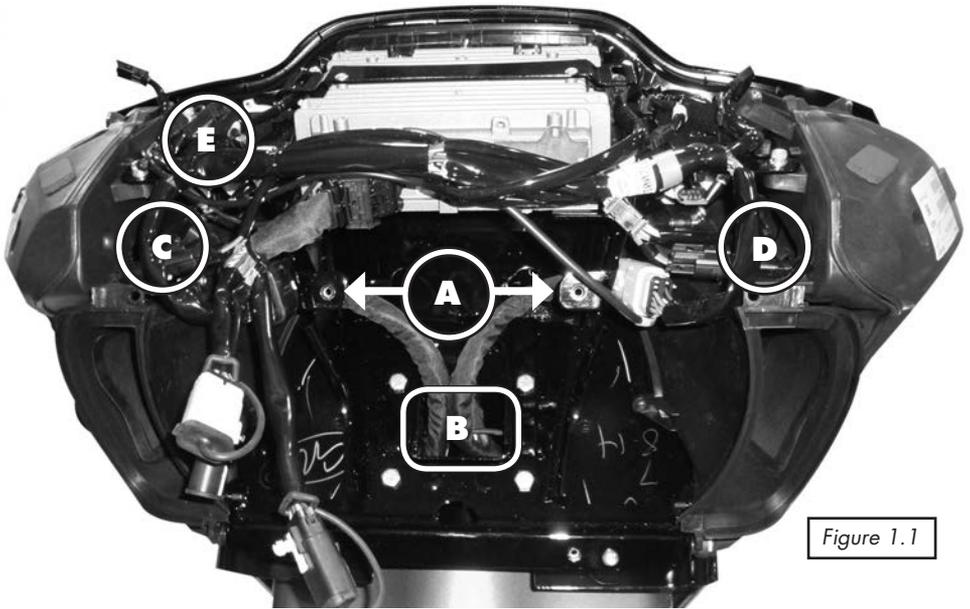


Figure 1.1

Before proceeding, please locate the points in the fairing identified by the letters in Figure 1.1.

**A**= mounting points for Headlight assembly

**B**= Wire passage from fairing to bike

**C**= Brake side speaker harness (Pink and Pink with Black Stripe wires)

**D**= Clutch Side Speaker harness (Pink and Pink with Black Stripe wires)

**E**= Factory 2 pin plug for amplifiers (orange) remote turn on lead

Step #1: Locate the supplied power harness and plug it into the matching pigtail on the side of the amplifier.

Step #2: Locate the supplied input harness and plug it into the "audio input" socket on the side of the amp. Please note: Once the input harness is plugged into the amp, you will see 2 two pin plugs and 1 four pin plug. The 2 two pin plugs are used but the 4 pin plug is not. The 4 pin plug is there for future expansion of your system. Do not plug this into anything on your bike! If you do, you will be calling us for tech support and will have to pull your fairing back off to unplug it!

Step #3: Locate the harness with brown/black and blue/black wires and plug it into 4pin BLACK plug on the pigtail coming out of the amplifier.

Locate the supplied front output harness and plug it into the “amplified output” plug on the end of the 4 wires coming out of the amp.

- Step #4: You will see a 3 position switch on the side of the amplifier. For all typical installs, this should be in the “+3” position. The switch allows you to “tune” the amp in relation to other speakers or amps on the bikes if you add them.
- Step #5: MOUNTING THE AMPLIFIER. The holes on the front of the amplifier plate will mate to the holes that hold the factory headlight assembly to the bike. These are the holes shown as “A” in figure 1.1. Once you have the amp/plate in place, use the factory bolts to temporarily hold the amp/plate in place. No one wants the amplifier to fall on your fender by accident!
- Step #6: WIRING THE AMPLIFIER. As shown by “C” in Figure 1.1, on the brake side of the bike, you will see a 2 pin connector with pink/pink with black stripe wires going through it. The plug is close to where the wires enter the brake side speaker cabinet. Separate the connector so you now have 2 plugs. From the amp, take the plug with blue/black wires and plug it into the mating plug you just separated noting it will only go in one way. Also from the amp, take the plug with green/black wires and plug it into the mating plug you just separated noting it will only go in one way.
- Step #7: As shown by “D” in Figure 1.1, on the clutch side of the bike, you will see a 2 pin connector with pink/pink with black stripe wires going through it. The plug is close to where the wires enter the clutch side speaker cabinet. Separate the connector so you now have 2 plugs. From the amp, take the plug with brown/black wires and plug it into the mating plug you just separated noting it will only go in one way. Also from the amp, take the plug with yellow/black wires and plug it into the mating plug you just separated noting it will only go in one way.
- Step #8: In the area of “E” in Figure 1.1, there is a factory 2 pin plug with purple/blue stripe and a black wires. You may have to pull back the sheathing to properly identify this plug. From the factory, the plug your looking for has a empty connector in it that will need to be removed. Once removed, the orange wire on the amp’s power harness will plug into this factory plug. The orange wire is the amps “turn on” lead and tells the amp to turn on or off with ignition on/off. The amp will not turn on if this wire is not installed to the factory plug (or any other B+ switched power source).

## **ROUTING THE POWER HARNESS**

The balance of the power harness will exit the inner fairing and go towards the frame of the bike through the “wire passage from fairing to bike” as shown by “B” in Figure 1.1.

Just in front of the tank, you will see a structure that attaches the fairing to the frame of the bike. The power harness will pass through this structure and exit through the rectangular opening where the factory harness also exits the structure on the BRAKE side of the bike. The wire harness can go under the tank towards the battery if you want, or, you can run the power harness up an over the tank, but under the tank’s chrome console.

Once the red and black power wires are in the vicinity of the battery, you can attach the amplifiers wires to the battery. The factory power and ground wires are also re-attached at this time. When attaching wires to the battery, it is always a good practice to attach the power wire (RED) first. When the last connector is attached, some minor sparking is normal, as this is a function of the capacitors in the amplifier charging up.

***IMPORTANT: With all wires secured, turn the front wheel to each extreme side making sure that any wires cannot bind or impede the steering of the motorcycle. Failure to do so can cause an accident resulting in serious injury or death!***

Turn the stereo on and, at low volume, test to make sure the speakers are working. Now is a good time to “clean up” and secure the wires using the supplied zip ties.

Once you are satisfied the system is working, and you have the wires cleaned up and zip tied, its time to start putting the bike back together. You will need to remove the bolts that are temporarily holding the amplifier/plate in place. These bolts will now be re-installed so that the bolt goes through the headlight assembly first, then the amplifiers plate, then into the threaded plate on the bike. Once you have the headlight assembly and amplifier in place and you are satisfied everything is secure, re-install the bikes outer fairing.

## **ADJUSTING YOUR SYSTEM-PLEASE READ!**

*In order to make your new system perform as good as it was designed, please take a minute to understand and follow these tips:*

- 1) Set your "Automatic Volume Control" (AVC) to 3 bars. After extensive on-road testing, we found that this AVC position works and sounds best. Your new amplifier has been specifically set-up for this radio setting.*
- 2) Your Hochtunes system is designed specifically for a motorcycle at speed. Exhaust noise and wind noise have been taken into careful consideration in how your system performs. How your new system sounds in a driveway or garage is radically different from how it will sound at highway speeds. Although your system was set-up with a factory radio, with its bass and treble controls in the middle position, if you feel the need to make adjustments please do so (carefully) at your normal cruising speed.*

## **TECHNICAL SPECIFICATIONS**

### **Hochtunes REV 200RG Kit-RM**

|                            |                        |
|----------------------------|------------------------|
| Amp's RMS Power at 2 Ohms: | 100 Watts x 2 Channels |
| Speakers:                  | 125 Watts RMS 200 Peak |
| Frequency Response:        | 40hz - 25khz           |
| Fuse at Amp:               | 15 amp                 |

## **WARRANTY INFORMATION**

**Please Record Your Amplifier's Serial # Here** \_\_\_\_\_

Hogtunes speakers are warranted for a period of 20 years. The REV 200-RM Amplifier is warranted for 3 years from original purchase date. Proof of purchase is required for all warranty claims. The warranty applies to the original retail customer and is not transferable. Please contact Hogtunes for all warranty claims. Products found to be defective during the warranty period will be repaired or replaced (*with a product deemed to be equivalent*) at Hogtunes sole discretion. Hogtunes complete warranty policy is available on our website at:

**[www.hogtunes.com/warranty.html](http://www.hogtunes.com/warranty.html)**

### **What Is Not Covered:**

- 1) Any expense related to the removal or re-installation of Hogtunes products.
- 2) Repairs to these products performed by anyone other than Hogtunes.
- 3) Subsequent damage to any other components.
- 4) Any product purchased from a non-authorized Hogtunes dealer.
- 5) Damage to Hogtunes products due to an accident or collision.
- 6) Hogtunes Amplifiers with broken or removed "warranty void" stickers.
- 7) Damage due to water from custom installations.
- 8) Damage from incorrect installation, improper use, abuse or modifications.
- 9) Damage to inbound product due to improper packing.

**IMPORTANT: In the event of a warranty claim, please fill out the form in the Warranty section of our website, or contact us by email or by phone. Valid claims will have an Return Authorization Number (RA#) generated which MUST appear on the outside of the box when it arrives to our office.**

**Goods Arriving Without an RA# Will Be Refused!**

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