

HOGTUNES

Audio Solutions For The Great American Cruiser



REV 200SG KIT-RM

High Performance Front Speaker Kit with 200 Watt Amplifier

FOR USE ON RUSHMORE FLH MODELS

INSTALLATION MANUAL (V1.3)

Thank you for choosing the Hogtunes REV 200SG KIT-RM speaker and amplifier kit for “Rushmore” platform bikes. Since positive word of mouth is the best way to grow our business, we want your new 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 3 major steps.

- Step 1:** Changing out the front speakers
- Step 2:** Installation of the amplifier
- Step 3:** Routing the power harness

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.*

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. Remove the outer fairing/headlamp assembly and set aside. 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 #2: **Speaker Cabinet Removal:** On the brake side speaker cabinet, carefully remove the cable going into the power port/cigarette lighter assembly. If your bike has the CB module (mounted "sideways" on the clutch side cabinet) undo the antenna cable and main harness. The CB Module will stay attached to the clutch side cabinet when removed. Undo the speaker wire plugs going into each cabinet (pink & pink with black stripe wires).

***The speaker cabinets are vital to the fairings structure.
DO NOT operate the bike without the speaker cabinets installed!***

NOTE: We STRONGLY suggest completing the speaker swap on one side and then moving to other side! Figure 1.1 and 1.2 (below) have arrows that point to the factory fasteners that will be removed to allow the cabinets to come out of the bike. Although the Brake Side is shown below, fastener locations are common for both brake and clutch side cabinets.

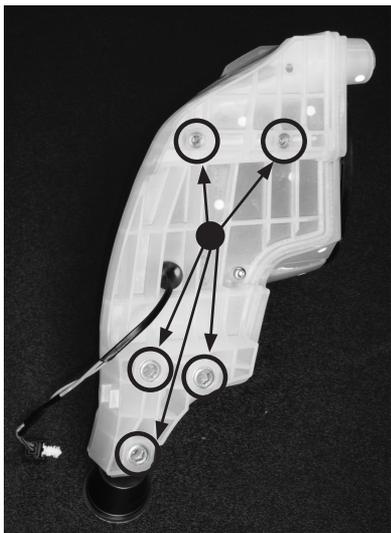


Figure 1.1
Side view of brake side cabinet

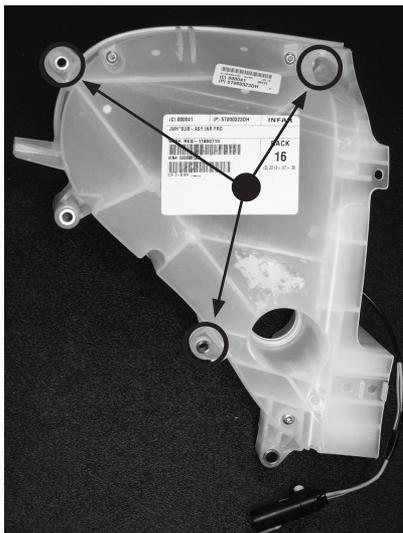


Figure 1.2
Back view of brake side cabinet

Step #3: **Installing the New Speaker:** With the cabinet removed from bike undo the four 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. Using the factory screws, attach the Hogtunes 362F-RM speaker to the cabinet noting that there is a locator "peg" on the cabinet and a hole in the speaker's frame which need to line up so the speaker sits flush to the cabinet. **Bass response will be greatly reduced if the speaker is not flush to the cabinet!** The factory speaker grill must be removed and replaced with the supplied metal mesh grill using the three factory screws on the inside of the fairing. In the factory grill, you will see two holes and one "key-hole" where the screws go through and into the fairing. The keyhole on our grill needs to go in the same spot for proper fitment of the new grill! With the new grills in place and the speaker properly attached to the speaker cabinet, the cabinet can be re-installed to the bike. It's always a good idea to put the factory fasteners back in to specified torque.

Repeat Step #3 for the second cabinet. Make sure to plug the power cable back into the power port/cigarette lighter assembly on the brake side. If your bike has the CB module, make sure to re-install the antenna cable and main harness.

REV 200-RM AMPLIFIER INSTALLATION INSTRUCTIONS

Step #1: Over top of the radio, pull up to release each wire harness from the black plate via the factory "Christmas Tree" fasteners. If your bike has factory GPS, the small square antenna will need to be relocated just behind the voltmeter as shown in Fig 1.1 below. Remove the four factory T-20 "Torx" screws that go through the top of the black plate and into the top of the radio.

Step #2:

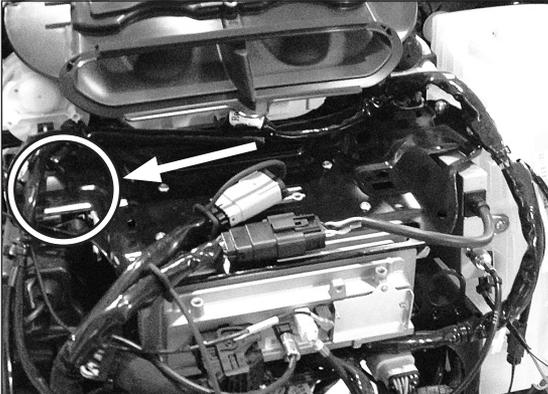


Figure 1.1 - The white circle shows the new location for GPS Antenna if your bike came factory equipped with this feature.

Step #3: The amplifier comes pre-mounted to a silver mounting plate. Locate and remove the four screws (2 per side) that attach the amp to the silver plate. Put these screws just removed and the amplifier aside for now.

Step #4: Sit the supplied silver plate on top of the radio so it is oriented as shown in Fig 1.5 on the next page. Put one of the supplied star washers on each factory screw and reinstall through the silver plate, through the factory black plate and into the top of the radio.



Figure 1.2 (amp spacers)

Step #5: Locate the bag with 4 screws and the amplifier spacers as shown in Fig 1.2. Use the screws removed earlier that held the amp to the silver plate and use those to attach the amp to the spacers as shown in Fig 1.3. Locate the main power harness and plug it into the matching "pig-tail" on the side of the amp. Locate the supplied input harness and plug into the "audio input" socket on the side of the amp. Locate the harness with brown/black and blue/black wires and plug it into the 4 pin BLACK plug on the "pig-tail" coming out of the

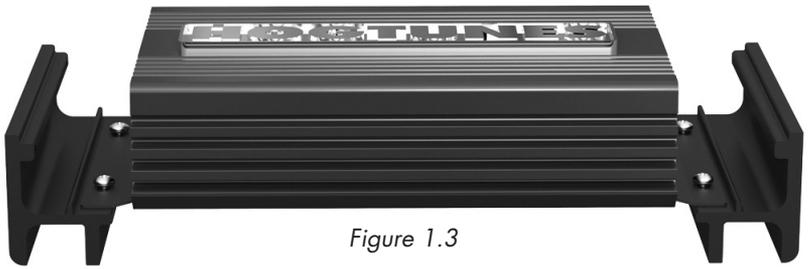


Figure 1.3

amp. Sit the amp on top of the silver plate so when standing in front of the bike you can read the Hogtunes logo on top of the amp. Use the 4 screws that came in the bag with the spacers and use them to secure the amp/spacer assembly to the silver plate as shown in Fig 1.4



Figure 1.4

Step #6: *Figure 1.5 shown here.*

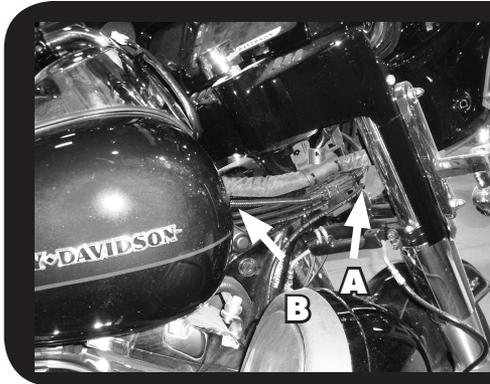
Figure 1.5 - Amplifier and mounting plate correctly oriented. The plate with four small holes is for mounting a popular Harley accessory. The white circles show tabs which are there for the "Christmas Tree" fasteners to re-secure the harnesses lifted earlier.



- Step #7: Also in Fig 1.5 is a white square which shows a smaller black 2 pin factory plug. The orange wire from the amp has a plug that goes directly into this factory harness. On the factory plug we are describing, there may be a factory plug with no wires already installed into it which will have to be removed. The factory wire colors going into the plug are purple/blue stripe and black and can be seen under the factory sheathing. The orange wire is the amplifier's "turn on" lead and tells the amp to turn on/off with the bikes ignition. The amplifier will not turn on if this wire is not hooked up to this (or any) switched B+ source!
- Step #8: From the amp, take the 2 pin plug with the blue/black wires and install it into the plug going into the brake side speaker cabinet. Take the 2 pin plug with the brown/black wires and install it into the plug going into the clutch side speaker cabinet.
- Step #9: From the amp's input connector, take the 2 pin plug with the green/black wires and install it into the mating plug on the brake side of the bike. Also from amp's input connector, take the 2 pin plug with the yellow/black wires and install it into the mating plug on the clutch side of the bike. NOTE: These are the plugs that were originally undone to allow the speaker cabinet to come out. The plugs will only fit together one way but, to be absolutely sure, if you look behind the factory wire's sheathing, the factory wires are pink and pink/black stripe.

ROUTING THE POWER HARNESS

The balance of the main wire harness will pass under the inner fairing where the main wire harness passes through on the brake side of the bike. Loosen the tank console and run wires up and over the gas tank, but under the tank console. There is a provision on the front of the tank console for wires to pass. Secure the amplifier's harness to the bike's factory harness using zip ties. When correctly installed, the power and ground wires are the right length to connect to the battery.



Stock Harness and Amplifier's Harnesses Passing From Fairing To Just In Front Of Tank (Arrow A) . Cable Tying the Harnesses To The Main Bike Harness Just In Front Of The Tank (Arrow B) Allows The Amp Harnesses To Go Up Towards The Tanks Chrome Console Easier And Makes For a Cleaner Install.

Attach the amp's red wire to the positive (+) battery terminal and the amp's black wire to the negative (-) battery terminal. The factory battery wires are also re-installed at this point. When attaching the power and ground wires, it is always a good practice to do the negative first. When the positive connector touches the battery, some sparking is normal. 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.

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 Hogtunes 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

Hogtunes REV 200SG 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

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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**Any audio system can be a
distraction to the rider
and/or passenger. Please
use caution when
playing your stereo,
ESPECIALLY IN TRAFFIC.**