

# HOGTUNES

*Audio Solutions For The Great American Cruiser*



## REV 200-RM

*200 Watt 2-Channel Amplifier*

**FOR USE ON 2014+ FLH AND FLTR MODEL BIKES**

**INSTALLATION MANUAL (V1.4)**

*Hogtunes RGRM2CH Plate is required for install on Road Glide Models*

Thank you for choosing the Hogtunes REV 200-RM Amplifier for 2014+ FLH and FLTR Model 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 REV 200-RM Amplifier is a Class D design. We chose this design because it yields plenty of power, is easy on the bike's charging system and produces little heat. It should be understood that ALL Class D amplifiers may cause a reduction in FM reception. Nothing is affected when playing CD, MP3, Satellite radio or any other music device. FM reception will differ and depend on the condition and type of antenna that you are using and, although every effort has been made to minimize any loss, we strongly advise against the use of in-fairing or hidden antennas with Class D amplifiers for best FM reception.

To help protect your bike's electrical system and battery, the amp has a built in feature where it will turn itself off if it sees less than 10.5 volts, whether the bike is running or not. If you're listening to your stereo while not riding, this feature can help protect your battery so the bike can still start. If you're riding and the amp shuts off, this could be showing a potential issue with your charging system. If this feature is activated and the amp shuts off, it will turn the amp back on again if the voltage exceeds the 10.5 volt threshold.

The REV 200-RM is rated for 100 watts per channel using 2 ohm speakers at 14.4volts at 1% Total Harmonic Distortion (THD). Although this amplifier makes its highest power with 2 ohm speakers, if Hogtunes 5.75 ohm speakers or 4 ohm car speakers are used there will still be a noticeable improvement in volume and sound quality.

If you are not using Hogtunes speakers, chances are the speaker connectors are not the same as stock. If you need to change connectors, please note that on all Hogtunes products, the smaller connector (black wire) is positive (+).

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

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### **Hogtunes Contact Information**

*Email: [tech@hogtunes.com](mailto:tech@hogtunes.com)*

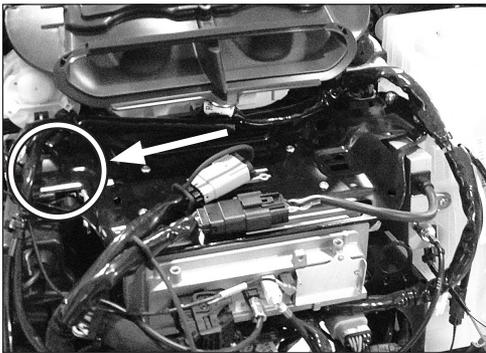
*Tel: 705-719-6361*

# REV 200-RM AMPLIFIER INSTALLATION INSTRUCTIONS

**Street Glide/Ultra Instructions start below.  
Road Glide Instructions start on page 7.**

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.*

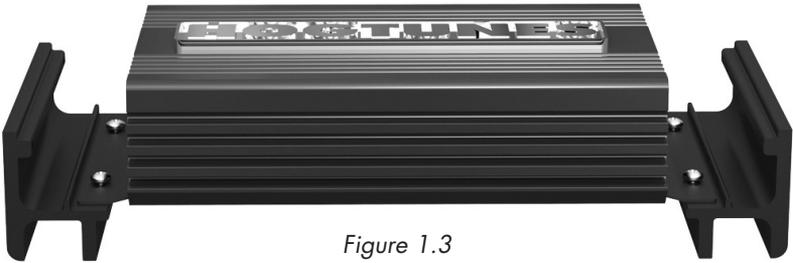
Step #3: The amplifier comes pre-mounted to a silver mounting plate. Locate and remove the four screws (2 per side) that attach the amp to the silver plate. Put these screws just removed and the amplifier aside for now.

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. Locate the amplifier's "audio input" harness and find the black wire with the ring terminal on one end. Put one of the supplied star washers on each factory screw and re-install through the silver plate, through the factory black plate and into the top of the radio noting that the ring terminal on the input harness will be secured using one of these factory screws so it is grounded to the amplifier's silver plate.



*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. Plug the balance of the input harness 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 amp.



*Figure 1.3*

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.*

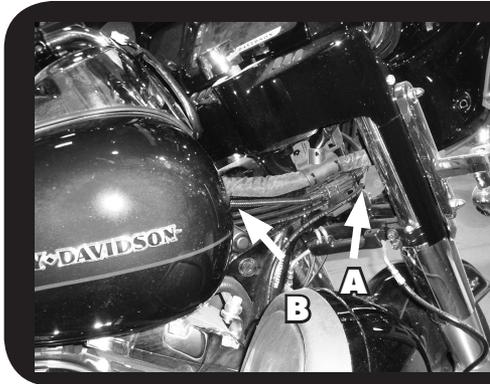
*Figure 1.5 - Amplifier and mounting plate correctly oriented. The plate with four small holes is for mounting a popular Harley accessory. The white circles show tabs which are there for the "Christmas Tree" fasteners to re-secure the harnesses lifted earlier.*



- 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 bike's ignition. The amplifier will not turn on if this wire is not hooked up to this (or any) switched B+ source!
- Step #8: You will see a 2 pin plug on each speaker's cabinet that have pink and pink with black stripe. The plugs attach the speaker's wiring to the bike's wiring and need to be separated. 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 plug with the green heat shrink on the end and install it into the mating plug on the brake side of the bike. Also from amp's input connector, take the plug with the yellow heat shrink on the end 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. If you are satisfied that everything is working properly, re-install the bike's outer fairing and the new addition to your bike is ready to enjoy!

**Hogtunes RGRM2CH Mounting Plate is required to install the amplifier in Road Glide bikes. (Drag Specialties Part #4405-0423) please mount amplifier to plate as per RGRM2CH Manual before proceeding.**

## **REV 200-RM ROAD GLIDE INSTALLATION INSTRUCTIONS**

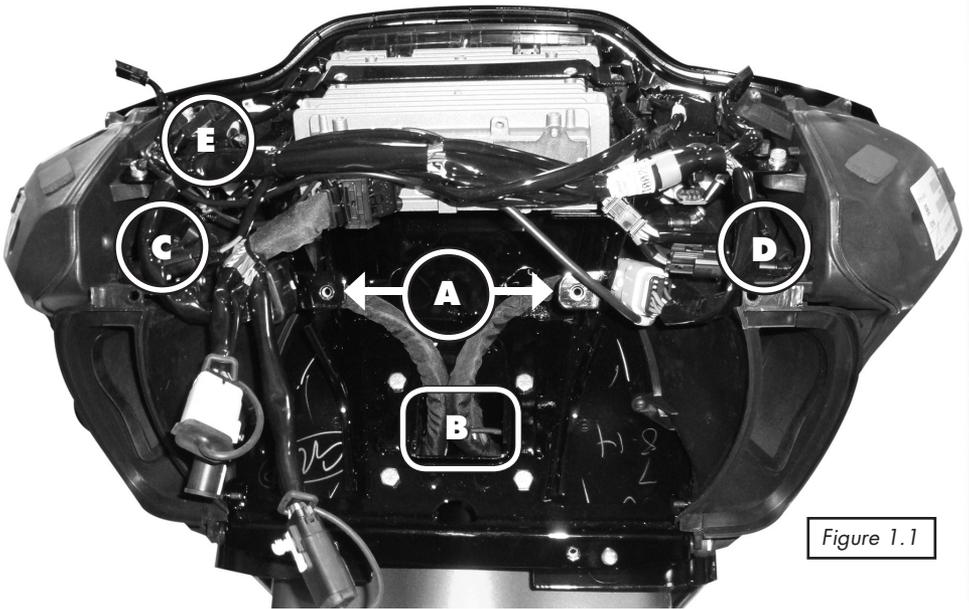


Figure 1.1

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)

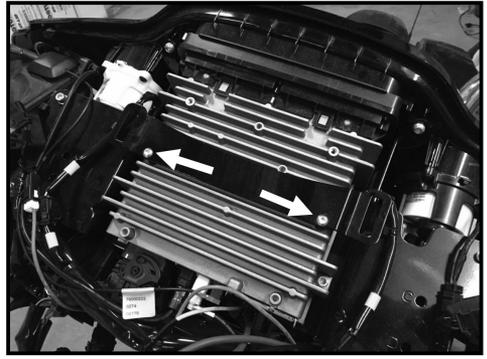
**E**= Factory 2 pin plug for amplifiers (orange) remote turn on lead

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 is not. The 4 pin plug is there for future expansion of your system.

- 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 wire with the green heat shrink on the end 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 wire with the yellow heat shrink on the end 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).

Step #9: On the audio input harness, you will see a black wire with a ring terminal on one end. Remove one of the factory screws on the top of the radio as shown in Fig 1.2. Secure the ring terminal to the radio before re-installing the factory screw.



## **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 and 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. If you are satisfied that everything is working properly, re-install the bike’s outer fairing and the new addition to your bike is ready to enjoy!

## **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 200-RM Amplifier**

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

## **WARRANTY INFORMATION**

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

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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**Hogtunes products will play much louder than the Original Equipment, which can be a distraction to the rider and/or passenger. Please use caution when adjusting or playing your stereo at high volume, especially in traffic.**

***You are a valued customer so please:***

**Ride Alert  
Arrive Alive!**

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

REV 200-RM V1.4