

# WILD BOAR AUDIO

by **HOGTUNES**  
*Audio Solutions For The Great American Cruiser*



## WBARG KIT INSTALLATION MANUAL

**IMPORTANT! A Radio "Re-Flash" Is Strongly Encouraged Before Proceeding. Please Read Manual For More Information**



Thank you for your purchase of Wild Boar Audio's Amp with Front Speaker Kit specifically made for 2015+ Road Glide® and Road Glide® Ultra models. We want your new kit to work as well as it was designed to, so if you have any questions or concerns, please email: [tech@hogtunes.com](mailto:tech@hogtunes.com) or call us during regular business hours at 705-719-6361 (EST). If you still need help, please consider a professional installation by your dealer.

**Important:**

This is a powerful system, and needs to be adjusted correctly for the recommended dealer radio re-flash, or damage may occur. We STRONGLY suggest reading this entire manual before proceeding!

**This manual is written in 3 major sections:**

**Step 1:** Speaker Installation

**Step 2:** Amplifier Installation

**Step 3:** Final System Adjustments/Radio Re-flash info

**Please read the notes on the next page before proceeding with the installation**

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**Wild Boar Audio Contact Information**

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

Tel: 705-719-6361

# BEFORE GETTING STARTED

This system requires a radio re-flash by a dealer to work properly. This is explained in Section 3 of the manual. Please DO NOT ignore this important step, or the system will not work as well as it has been designed to.

With the correct radio flash, the system can play at high levels with virtually no audible distortion. The amplifier has built in protection. You will know you are at the limits of the system if one channel of the amp turns off and back on. This typically all happens in less than a second. Channels turning on and off quickly is letting you know to adjust the volume down slightly. The tweeters on the speakers are also protected by a poly thermal coefficient (PTC) switch. This heat sensitive switch will temporarily turn the tweeter off until the switch cools off, and will then turn the tweeter back on. This will only happen at high volumes.

Many users take advantage of the convenience of 'streaming' music to the radio using Bluetooth® Wireless Technology. It should be noted that plugging in the music device using the radios USB cord sounds better and plays louder than using Bluetooth. Make sure that any equalizers on the music playback device are OFF.

There are many different styles of amplifiers. Wild Boar Audio is a Class D design as this is the best choice for high power on vehicles with smaller charging systems.

## The main advantages of Class D are:

- Very efficient design (Big power output while not being too hard on bike's charging system)
- Much lower amplifier heat compared to other designs
- Amplifier can be much smaller compared to other designs

The downside to Class D design is that it can interfere with FM reception. Although every effort has been made to reduce any FM interference, it is possible to have some stations not come in clearly. For this reason, if FM reception is a very important part of your listening, **we strongly advise against the use of in fairing antennas.** After considerable testing, we have concluded that nothing works as well as the factory antenna which is why Wild Boar Audio and Hogtunes do not offer in fairing antennas.

**You can get up to 50% more FM stations with your factory radio in "tune mode" instead of "seek mode."**

# SECTION 1

## SPEAKER INSTALLATION

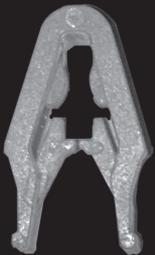
Step #1: Remove the bikes seat, and undo the main (+ and -) connectors from the battery. Remove the outer fairing/headlamp assembly and set aside. Refer to a service manual if you need help with this. *NOTE: Placing a towel on the front fender can help prevent scratches or "dings" from dropped tools or fasteners, etc.*

Step #2: **Grill Trim Ring Selection:**

In the box, you will see that the metal mesh grill with tweeter in it is sitting in the black trim ring. If you turn this over, you will see "tabs" in the metal mesh used to secure the mesh to the black trim ring have not been folded over. These were left unfolded in case you want to remove the mesh, and have your black trim rings customized, or if you want to place the metal mesh in the chrome trim rings that also came in the box. No matter which trim rings you choose, the metal mesh grill with tweeter must be properly "seated" in the trim ring and all 6 metal mesh "tabs" must be folded over before proceeding.

Step #3: **Removing the Factory Grills:**

Each factory grill will be removed from the inner fairing by prying up on them. Start 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...especially if its painted! On the back of each grill, there is a rubber gasket and 2 white clips which will be removed from the factory grills and re-installed on the Wild Boar Audio grills.



**NOTE:** The factory clips must be removed carefully! Using your thumbnails or a flat edge under each side, gently pry the 2 ends apart (as per the image) and pull up to release each clip from the stock grill. If you put a flat edge under one end only, the clip cannot release and you have a very good chance of breaking the clip.

**Step #4: Removing the Factory Speakers:**

With the grills off the bike remove the 4 screws that secure the factory speaker to bike. Gently pull up each factory speaker so it's coming away from the bike and carefully remove the speaker wires. Put the factory speakers aside.

**Step #5: Installing the Wild Boar Audio WBC 1654 RG Speaker:**

Take a Wild Boar Audio woofer 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 woofer into place so it will go past the grill opening on the inner fairing, noting it will go in without force. In order to make the speaker install properly, the speaker wires must be oriented so they are closest to the top of the inner fairing (12 o'clock position). When installed correctly, the 2 small wires that go from the back of the speaker and "through" the speakers ring will also be in the 12 o'clock position. Reinstall the factory screws to secure the woofers in place making sure the speaker is flush to the mounting plane of the factory speaker cabinet.

**Step #6: Installing the Wild Boar Audio Speaker Grills:**

Before proceeding, please MAKE SURE all 6 metal mesh tabs on the speaker grills have been folded over to properly secure the grill mesh to the trim ring! There is a small 2 wire plug for the tweeter on each grill that will get plugged into the mating connector on the wire coming through front of the speakers ring. When these are plugged together, there will be an extra length of wire. In the kit there are foam strips that are "peel and stick". You can use the peel and stick foam that came with the kit to secure the extra length of wire on top of the factory speaker cabinet. The goal is to make sure this extra length of wire does not fall in front of the woofer and rattle against the woofer as it's playing. With the extra wire out of the way, the new grill will press into the inner fairing and "click" into its final position.

# SECTION 2

## AMPLIFIER INSTALLATION

Step #1: Turn the amp over and remove the 4 black screws highlighted by the white arrows as shown in Diagram 1.1 below. Install the plates onto the amp using the factory screws just removed as shown in Diagram 1.2 below.

**IMPORTANT: Please note the plate that goes on the fuse end of the amp! The amp will not install properly if you affix plates in wrong location!**

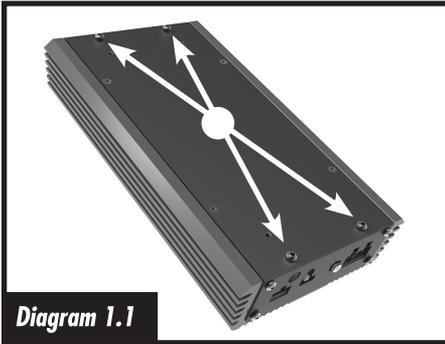
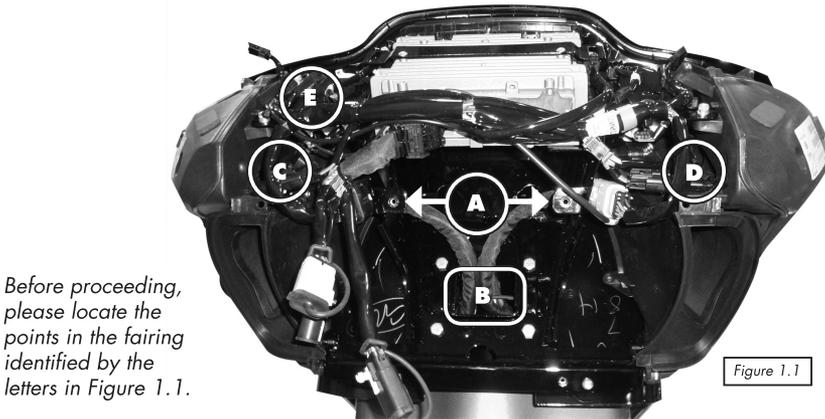


Diagram 1.1



Diagram 1.2

Step #2: Locate the main power harness that came with your amplifier and plug it into the amp.



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

The amplifier will now slide into the fairing directly under the radio “upside up” and “power end” first. The amp will be in the correct position when the holes on the amp’s plate match up with the holes in the fairing shown by the white circles shown on previous page labeled as “A” which is where the headlight assembly bolts back in. The “power end” of the amplifier plate rests on the main inner fairing structural bracket. You will see the amp can really only go in one way.

**NOTE: It’s a good idea to use the head-lamp assembly bolts to hold the amp in place while wiring the amp and ready to reinstall the headlamp/outer fairing**

- Step #3: Locate the harness with a 4 pin black plug and insert into the “audio out” on the side of the amp. Locate the harness with the 8 pin plug and insert it into the “audio in” on the side of the amp.
- Step #4: Wiring the amplifier – Brake side: 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. On the 4 pin black plug now installed into the amplified output on the amp, locate the end with the green heat shrink and plug it directly into the brake side speaker cabinet noting it will only go in one way. On the 8 pin plug now installed into the input socket on the amp, locate the end with the green heat shrink and plug it directly into the factory connector that originally plugged directly into the brake side speaker cabinet (has pink/pink with black stripe wires).
- Step #5: Wiring the amplifier – Clutch side: 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. On the 4 pin black plug now installed into the amplified output on the amp, locate the end with the yellow heat shrink and plug it directly into the clutch side speaker cabinet noting it will only go in one way. On the 8 pin plug now installed into the input socket on the amp, locate the end with the yellow heat shrink and plug it directly into the factory connector that originally plugged directly into the clutch side speaker cabinet (has pink/pink with black stripe wires).
- Step #6: In the area of “E” in Figure 1.1, there is a factory 2 pin plug with purple/blue stripe and black wires. You may have to pull back the sheathing to properly identify this plug. From the factory, the plug you’re looking for has an 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 amp’s “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**

Directly in front of the tank, there is 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. Although not necessary, the power harness can go under the gas tank if you choose to remove and re-install the tank 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, attach the amplifier's 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.

Turn the stereo on and, at low volume, test to make sure the speakers are working. With everything working, re-install the seat making sure the amplifier's "+" and "-" connectors are positioned in such a way so they will not bend or break when the rider's weight is on the seat.

**This is the best time to take a few minutes to "clean up" the wiring and secure using supplied zip-ties.**

**Under NO CIRCUMSTANCES should any of the blue/silver wires be zip tied to any factory antenna cables anywhere on the bike.**

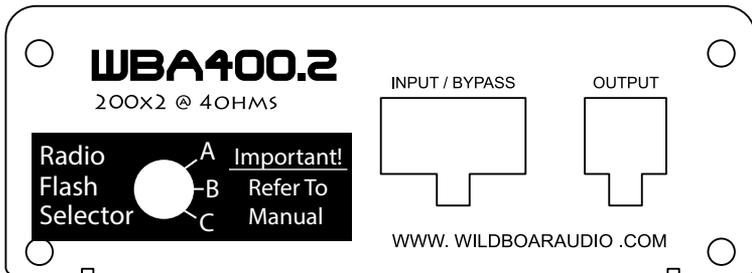
# SECTION 3

## SYSTEM ADJUSTMENT

**This section is VITAL to the correct operation of the system, please make sure you read and understand it, or contact us!**

Step #1: In order for the system to work optimally you will need to have the correct "flash" in your radio. You can visit an HD dealer, or if you visit the link <http://technoresearch.com/index.php/tuning-centers>, any dealer on that web page should be able to help. You either want to have the correct flash installed, or verify that the correct flash is installed if unsure.

There is a 3 position switch "Radio Flash Selector" on the side of the amp marked A, B, and C. Understanding the correct position for your application is VITAL in the proper performance of this system.



### Position "A"

If you have a "Non CVO" 15+ Road Glide or Road Glide Special, please have the dealer Re-flash the radio to "4 Speakers No Amplifier"

If installing this kit in a "Non CVO" 15+ Road Glide Ultra, the factory radio comes re-flashed from the factory as "4 Speakers No Amplifier." If the system has not had any audio changes made from the factory, you should not need the re-flash although you may want to visit a dealer to be sure that you have the correct re-flash!

Once you are sure you have the radio flash "4 Speakers No Amplifier" in the radio, set the 3 position switch to "A" and proceed to Final Install Notes.

**Please Note: Having the radio re-flashed to "4 Speakers No Amplifier" in all cases is the preferred condition. With this flash, and the amp set to "Position A" You will get the best volume and your radio's AVC (Automatic Volume Control) will work.**

### **Position "B"**

If you have a Non CVO Road Glide and cannot get to a dealer for the re-flash, set the amp to Position B. This is a "usable" setting, but you will not be able to have your bass in the middle position without some "break up" at high volume. At high volume, you may also experience either side of the amplifier turning off momentarily. The bike's AVC (Automatic Volume Control) will work. The correct flash for "Position A" is recommended for the best performance.

### **Position "C"**

If you have a Non CVO Road Glide and are replacing a previously installed factory amplifier, or have a CVO model and are replacing the fairing amplifier, the radio should have the "2 speaker 1 amp" flash. Setting the 3 position switch on the side of the amp to "Position C" will work in this case, however, the radio's AVC (Automatic Volume Control) will NOT work. The correct flash for "Position A" is recommended for the best performance.

### **Final Installation Notes:**

- 1) Many users will store music on a hand held type player and use that as the music source for the bikes audio. PLEASE NOTE: If you "borrow" music files from certain sites, they typically sound poor. Using a good quality file will only make the system sound better!
- 2) Many users will take advantage of the convenience of "streaming" their music to the radio using Bluetooth®. It should be noted that it was found that plugging in the music device using the radios USB cord sounds better and plays louder than using Bluetooth®.
- 3) Assuming you have the "4 Speaker No Amp" flash and the 3 position switch on the side of the amp is set to "A", we suggest having the bass on the radio set to 1 or 2 bars above the center position, and the treble set to 1 or 2 bars below the center position. If you have bass heavy music, and are hearing some "break up" there is nothing wrong with lowering the bass control on the radio till everything sounds "right". You can set the bike's AVC (Automatic Volume Control) however you like it.

*Before re-installing outer fairing, turn front wheel to each extreme side making sure any wiring is not impeding the steering of the motorcycle. Failure to do so can result in serious injury or death!*

**Re-install the fairing and the system is now ready to enjoy!**

## WARRANTY INFORMATION

Wild Boar Audio branded speakers are warranted for a period of 5 years to the original purchaser. Wild Boar Audio branded amplifiers are warranted for a period of 3 years to the original purchaser. Proof of purchase is required for all warranty claims. Please contact Hochtunes head office 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 Hochtunes sole discretion. Hochtunes/Wild Boar Audio's complete warranty policy is available on our website at [www.hochtunes.com](http://www.hochtunes.com)

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

- 1) Any expense related to the removal or re-installation of products.
- 2) Repairs to these products performed by anyone other than Hochtunes, Inc.
- 3) Subsequent damage to any other components.
- 4) Any product purchased from a non-authorized Wild Boar Audio dealer.
- 5) Damage to products from an accident or collision.
- 6) Damage from incorrect installation, improper use, abuse or modifications.
- 7) Damage caused by incorrect factory radio "re-flash" and amp combination
- 8) Damage to inbound warranty 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 [www.hochtunes.com](http://www.hochtunes.com).**

**Valid claims will have a Return Authorization Number (RA#) generated which MUST appear on the outside of the box when it arrives to our offices.**

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

**PRACTICE  
SAFE  
SOUND!**



**Wild Boar Audio 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.wildboaraudio.com](http://www.wildboaraudio.com)  
[www.hogtunes.com](http://www.hogtunes.com)**