

WILD BOAR AUDIO

By HOGTUNES

WBA 400.2R
400 WATTS @ 4 OHMS



INPUT/BYPASS

Power

A
B
C



WBASG KIT.2R

400 WATT 2-CHANNEL AMP & SPEAKER KIT

(A RADIO RE-FLASH MAY BE REQUIRED FOR CORRECT OPERATION!)

FOR USE ON 2014+ RUSHMORE PLATFORM STREET GLIDES

INSTALLATION MANUAL

Thank you for choosing the Hogtunes Wild Boar Audio WBASG Kit.2R for 2014+ Rushmore Platform Street Glides. 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 WBA 400.2R amplifier is a Class D design. It should be understood that ALL Class D amplifiers, REGARDLESS OF BRAND, cause a reduction in FM reception. The WBA 400.2R features a proprietary circuit design called R.E.M.I.T. (Reduced Electro Magnetic Interference Technology) that Hogtunes believes gives the BEST FM reception available for any Class D Amplifier designed for a motorcycle. If you add a 2nd or 3rd model amplifier to your system, reduction of FM reception is increased and is considered normal.

Hogtunes understands that some riders prefer the cosmetics of in-fairing antennas, however it should be noted that NOTHING WORKS AS WELL AS THE FACTORY ANTENNA. If FM is an important part of your riding experience, we strongly advise against the use of any in fairing type antenna!

IMPORTANT

For Street Glide and Street Glide Special models, this system requires a radio re-flash by a dealer to work properly. This is explained in Section 4 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 installation will be done in 4 steps.

- STEP 1: CHANGING OUT THE FRONT SPEAKERS**
- STEP 2: INSTALLATION OF THE AMPLIFIER**
- STEP 3: ROUTING THE POWER HARNESS**
- STEP 4: RADIO FLASH INFORMATION**

Wild Boar Audio Contact Information

Email: techsupport@hogtunes.com

Tel: 705-719-6361

SECTION 1

SPEAKER INSTALLATION

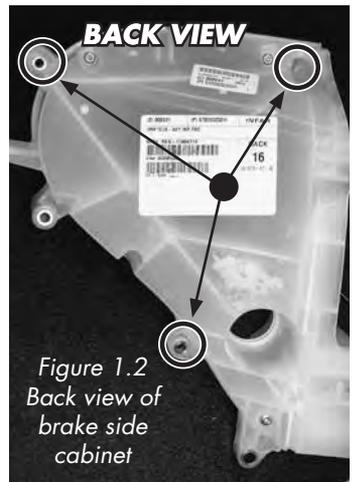
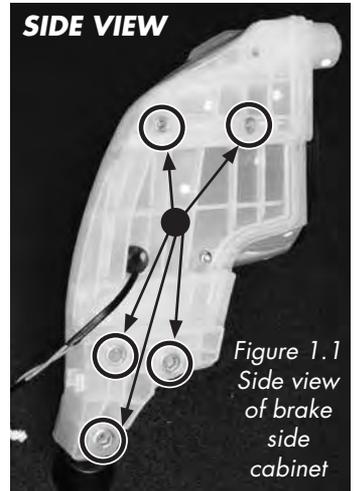
Step #1: Remove the bikes seat, and undo the main (+ and -) connectors from the battery. Remove the outer fairing/headlamp assembly and set aside. Refer to a service manual if you need help with this. *NOTE: Placing a towel on the front fender can help prevent scratches or "dings" from dropped tools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

Step #2: **Speaker Cabinet Removal:**

On the brake side speaker cabinet, carefully remove the cable going into the power port/cigarette lighter assembly. If the 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).

Removing the Factory Cabinets:

It is **STRONGLY** recommended to complete the speaker swap on one side before moving to the other side! Figure 1.1 and 1.2 have arrows that point to all 8 factory fasteners (per side) that will be removed to allow each cabinet to come out of the bike. Although the brake side is shown below, all 8 fastener locations are common for both brake and clutch side cabinets. In Fig 1.1 you will see where the speaker wire exits the cabinets. The 3 cabinet fasteners below the speaker wire are 7/16" heads that will also accept a 3/16" allen head. A "ratcheting box end" or "ball end" allen wrench will make removing these 3 fasteners much easier!



Step #3: **Installing the Speaker:**

With the cabinet removed from the bike, undo the 4 screws that hold the factory speaker to the cabinet and put these screws aside. Pull the factory speaker away from the cabinet and carefully take off each speaker wire by un-doing one at a time. Take a Wild Boar Audio speaker and attach the speaker wires noting the factory speaker wire connectors will lock into place on the speaker. Sit the Wild Boar Audio speaker into the cabinet noting the speaker **MUST** be oriented so that the wires are in the bottom (6 o'clock) position so the speaker frame will not touch the small locator peg that sticks out from the face of the cabinet. If the speaker is not placed correctly, the speaker may not "seal" correctly to the cabinet and the bass response will suffer! Using the supplied screws (which are longer than the factory screws), attach the new speaker to the cabinet.

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 the bike has the CB module, make sure to re-install the antenna cable and main harness. Let the factory speaker wires that come out of the cabinets "hang" for now.

SECTION 2

AMPLIFIER INSTALLATION

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:

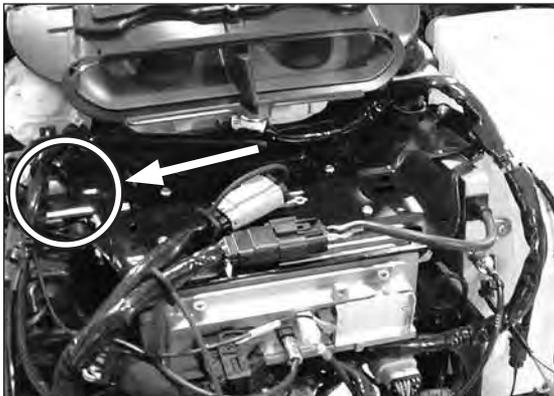


Figure 1.1 - The white circle shows the new location for GPS Antenna if the bike came factory equipped with this feature.

Step #3: The amplifier comes on a black mounting plate and needs to be separated from that plate. Sit the amplifier plate over top of your radio and re install the factory screws to secure the amplifiers mounting plate to your bike noting the plate can only go on one way. Locate the supplied input harness and plug into the "audio input" socket on the side of the amp. Locate the "front output harness with brown and blue heat shrink at the end of its wires and plug it into the 4 pin BLACK plug on the pig-tail coming out of the amp. You will now put the amp back in place. For reference, if you are standing in front of your bike looking down at the plate, the amp will go to the extreme left so the power harness is closest to you. When sticking the amp in place, position the 4 pin black plug on the pig-tail so its sitting on top of the amp. This will allow the amp to sit as close to your gauges as possible and allow the outer fairing to go back on. There is a "tab" on the front and side of the amplifiers mounting plate which allows you to re-attach the wire harness using the factory Christmas tree fastener.

Step #4: On the back of each speaker cabinet, you will see pink wires that go to a plug. Separate these plugs on each side of the bike noting they may still be undone from when the speakers were installed. From the amp, take the 2 pin plug with blue heat shrink and install it into the plug going into the brake side speaker cabinet. Take the 2 pin plug with brown heat shrink and install it into the plug going into the clutch side speaker cabinet.

Step #5: From the amp's input connector, take the 2 pin plug with green heat shrink 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 yellow heat shrink and install it into the mating plug on the clutch side of the bike.



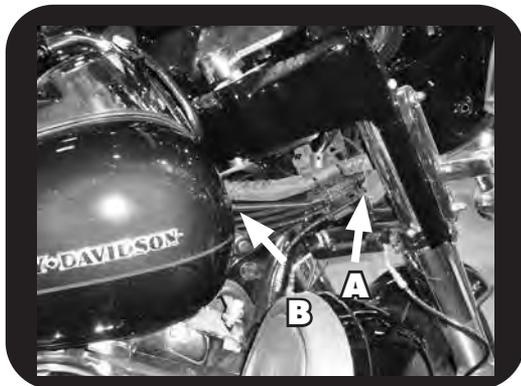
Fig 1.2. Single WBA 400.2R amplifier correctly positioned on mounting plate. The empty area to the right is perfect if you want to add a second WBA 400.2R later on to power speakers in saddle bag lids or fairing lowers.

SECTION 3

ROUTING THE POWER HARNESS

Locate the main power harness and plug it into the matching “pig-tail” on the side of the amp. 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 on 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.



Note: although not necessary, you can run the harness along the backbone of the bikes frame if you choose to remove and re-install the bikes fuel tank.

Attach the red wire to the positive (+) battery terminal and the black wire to the negative (-) battery terminal. The factory battery wires are also re-installed at this point. Turn the ignition of the bike to the “on” position and play the stereo at low volume to verify the amplifier is working fine.

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!

Now is a good time to “clean up” and secure any wiring inside your fairing using supplied zip ties. For best possible FM reception, **DO NOT attach any of the amplifiers wiring to any factory antenna wires.** Doing so will hurt your radios ability to receive FM signals!

PLEASE READ SECTION 4 OF THIS MANUAL TO INSURE PROPER OPERATION OF YOUR NEW SYSTEM

SECTION 4

RADIO FLASH INFORMATION

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

The correct flash required for this system is the exact same one that comes in Ultra Classics (non CVO Models). The factory refers to this flash as "upper fairing/rear pods, zero amps". We understand that the flash we say to use indicates "zero amps" and that there is an amp in this system. The flash we indicate to use gives the correct sound and audio levels from the radio for the system to work correctly. You can also visit a "Techno Research" dealer as they can flash the radio as well. Techno Research dealers have a "Wild Boar Audio" Flash built in to their systems which is identical to the required factory flash. You can look for a Techno Research dealer by using the web link <https://technoresearch.info/tuning-centers-map/> There is a 3 position "Radio Flash Selector" on the side of the amp marked A,B, and C. In all cases, having the correct radio flash installed, and having the "Radio Flash Selector" set to "A" is the preferred setting!

Position "A"

For "Non CVO" 14+ Street Glide or Street Glide Special, with the correct "upper fairing/rear pods, zero amps" or "Wild Boar Audio" flash installed, the switch needs to be in the "A" position. If installing this kit in a "Non CVO" 14+ Ultra, the factory radio comes flashed from the factory with "front and rear speakers without amp" 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 flash!

Position "B"

If you have installed this system but cannot get to a dealer for the correct flash, put the switch to position B. In all cases, having the correct radio flash installed, and having the "Radio Flash Selector" set to "A" is the preferred setting!

Position "C"

Position C is there for any changes the factory may introduce in the future, and SHOULD NOT be used for this installation.

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 VERY POOR. **Using a good quality file will only make the system sound as good as it can!**
- 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 correct 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 one 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 bikes AVC (Automatic Volume Control) however you like it, although we found "3 bars" works best.

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

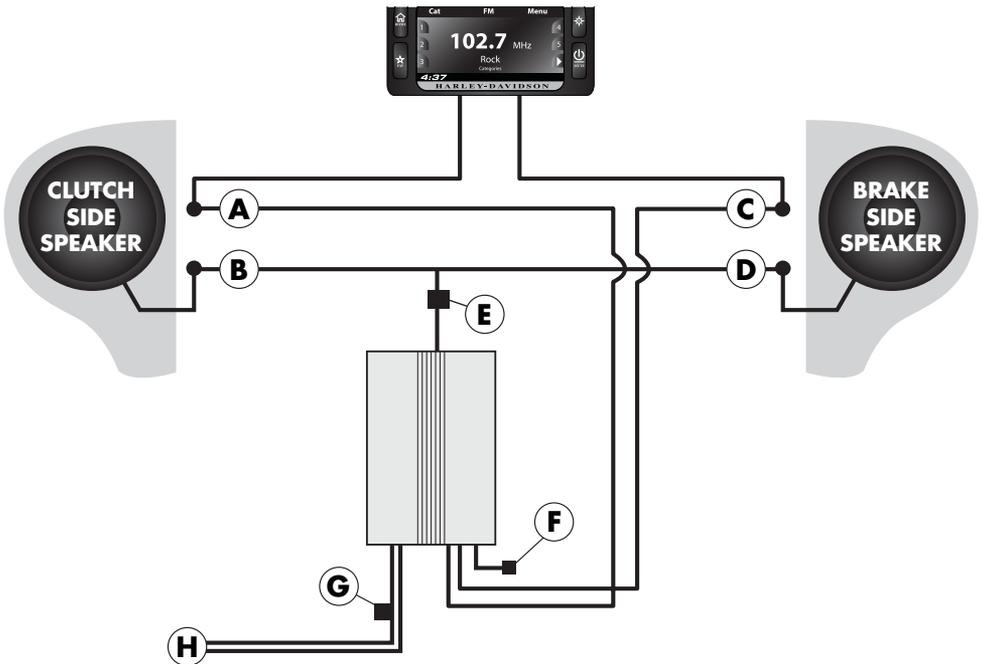
WIRING GUIDE

WBA 400.2R QUICK REFERENCE WIRING GUIDE

(IF ONLY AMP ON BIKE)

Note: From the factory, the plugs at indicators "A" and "B", and "C" and "D" are plugged together but get separated for this install.

- A Amplifiers Clutch Side Input (Yellow Heatshrink)
- B Amplifiers Clutch Side Output (Brown Heatshrink)
- C Amplifiers Brake Side Input (Green Heatshrink)
- D Amplifiers Brake Side Output (Blue Heatshrink)
- E Amplified Output "Pigtail" on Amp
- F Amplifiers Bypass Output For Adding More Amps Later
- G In Line Fuse On Supplied Power Harness
- H Amplifiers Main Power/Ground



This Page Is For Quick Reference Only. To Avoid Damage To Your System, Please Read Entire Manual!

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 Hogtunes 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 Hogtunes sole discretion. Hogtunes/Wild Boar Audio's complete warranty policy is available on our website at www.hogtunes.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 Hogtunes, 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.hogtunes.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
www.hogtunes.com**