

WILD BOAR AUDIO

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



WB400.2
200X2 @ 40HMS

Radio
Flash
Selector

A Important!
B Refer To
C Manual

INPUT / BYPASS

OUTPUT

WWW.WILDBOARAUDIO.COM

WBASG 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 "Rushmore" platform Street Glide® and Ultra Classic® 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 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**

Wild Boar Audio Contact Information

Email: 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.

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!

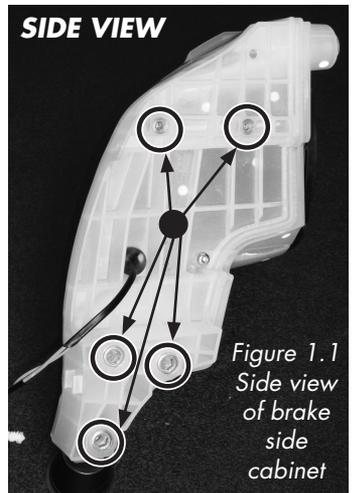


Figure 1.1
Side view
of brake
side
cabinet

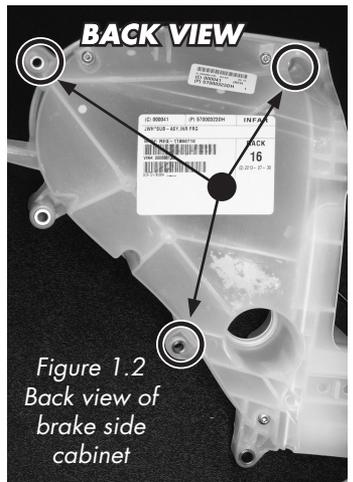


Figure 1.2
Back view
of
brake
side
cabinet

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 the bike has factory GPS, the small square antenna will need to be relocated just behind the voltmeter as shown in Fig 1.1. Remove the four factory T-20 "Torx" screws that go through the top of the black plate and into the top of the radio. 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.

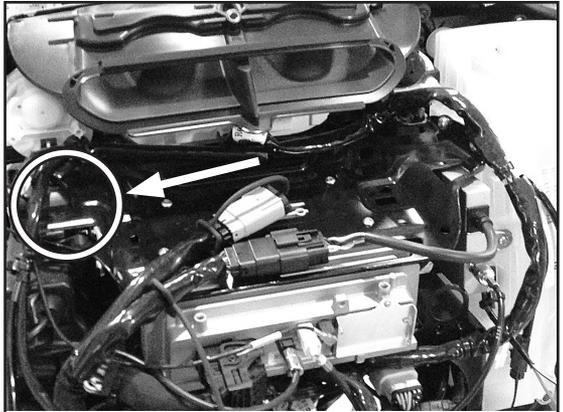


Figure 1.1 - The white circle shows the new location for GPS Antenna if your bike came factory equipped with this feature.

Step #2: Place the supplied silver plate on top of the radio so it is oriented as shown in Fig 1.2. Locate one of the supplied "star" washers on each factory screw and re-install the screw/washer through the silver plate, through the factory black plate and into the top of the radio. Locate the main power harness and plug it into the matching "pig-tail" on the side of the amp. 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

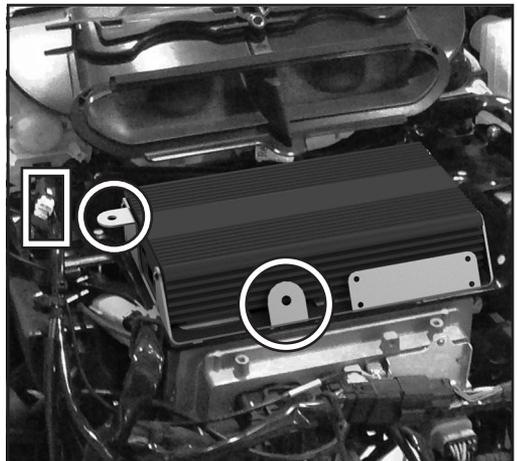


Figure 1.2 - Amplifier and mounting plate correctly oriented. The plate with four small holes is for mounting a popular Harley accessory. The white circles show tabs which are there for the "Christmas Tree" fasteners to re-secure the harnesses lifted earlier.

white plug and insert it into the "audio in" on the side of the amp. Sit the amp on top of the silver plate so when standing in front of the bike, the power harness is on your left (aka the BRAKE SIDE of the bike). Re-install the amp to the plate using the four screws removed earlier.

Also in Fig 1.2 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 described, 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 "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 #3: 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 #4: 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).

The power/ground harness will pass together the inner fairing where the main wire harness passes through on the brake side of the bike. Loosen the tank's "chrome console" and run wires up and over the gas tank, but under the tank's chrome console. There is a provision on the front of the tank console for wires to pass. NOTE: Although not necessary, the power and rear harnesses can go under the gas tank if you choose to remove and re-install the tank.

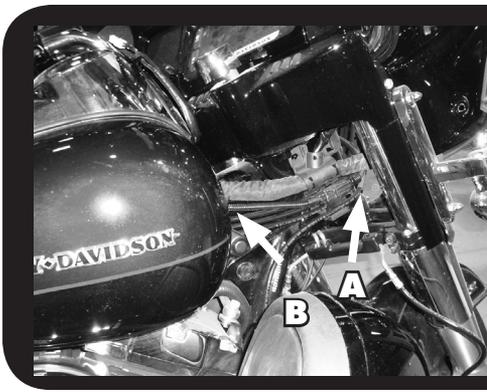


Figure 1.3 - Stock Harness and Amplifier's Harnesses Passing From Fairing To Just In Front Of Tank (Arrow A). Cable Tying the 2 Amp Harnesses To The Main Bike Harness Just In Front Of The Tank (Arrow B) Allows The Amp Harnesses To Go Up Towards The Tank's Chrome Console Easier And Makes For a Cleaner Install.

Step #5: Attach the amp's black wire to the negative (-) battery terminal and the amp's red wire to the positive (+) 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.

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.

INSTALLATION TIP

Before you start to "clean up" the wiring, please MAKE SURE to route the amplifiers wires (blue/silver) that go to the brake side of the bike on top of the amp, but as close to the inner fairing as you can. 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.

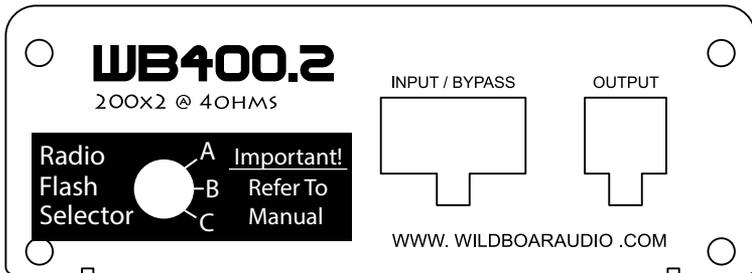
SECTION 3

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 properly you will need to have the correct "flash" in your radio. You can go to 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 in-stalled, or verify that the correct flash is installed if you are not sure.

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" 14+ Street Glide or Street Glide Special, please have the dealer Re-flash the radio to "4 Speakers No Amplifier"

If installing this kit in a "Non CVO" 14+ 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 your radio, set the 3 position switch to "A" and proceed to Final Install Notes.

Please Note: Having your 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 Street 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 bikes 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 Street 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 radios 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 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.

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 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**