

# HOGTUNES

*Audio Solutions For The Great American Cruiser*



## RETRO 450.4 KIT

**HIGH PERFORMANCE 450 WATT  
FRONT SPEAKER/LID KIT**

*FOR USE ON 2014-CURRENT STREET GLIDE AND ROAD GLIDE MODELS*

**INSTALLATION MANUAL**

Thank you for choosing the Hogtunes Retro 450.4 Kit for 2014+ Rushmore Platform Street Glides and Road 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 REV 225-RM 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 REV 225-RM 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!***

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. REV 225-RM is rated for 112.5 watts per channel @ 2 ohms. This system will work fine without a radio reflash, however, if you have the radio reflashed by an HD dealer, or a Techno Research dealer, the radio fader function will be activated and you will be able to control volume between the front and lid speakers from your radio. If you choose to have the re flash done by an HD Dealer, the flash you need is called "Front and rear speakers without amp" which is the same factory flash that comes on Ultra Models. Don't worry about the fact you're putting amps in! The flash you want gives us the sound etc from the radio for the amps being installed. If you go to a Techno Research dealer, their equipment has a "Wild Boar Audio" flash built in and that is what they need to use. Installation for Street Glide Models starts on Page 3, and Installation for Road Glides starts on Page 8. The lid cut in and 6"x9" installation (common for both model bikes) starts on page 13.

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### **Hogtunes Contact Information**

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# STREET GLIDE INSTALLATION

- 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.

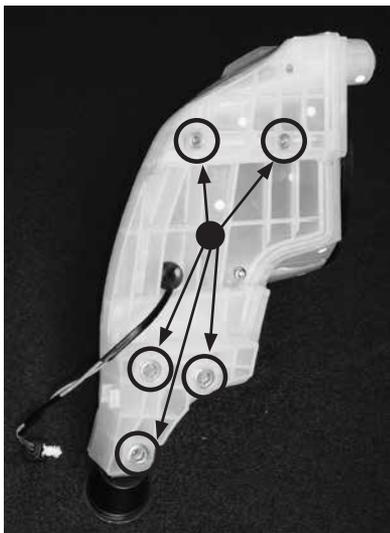


Figure 1.1  
Side view of brake side cabinet

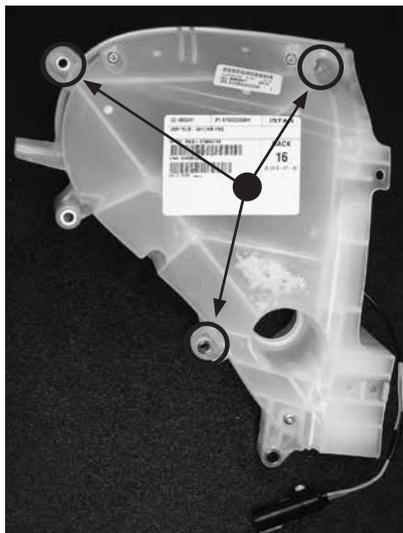


Figure 1.2  
Back view of brake side cabinet

Step #3: **INSTALLING THE NEW SPEAKER:** With the cabinet removed from the 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. You will see a small locator “peg” on the speaker cabinet. There is a provision on the underside of the 462F-RM that allows the speaker to sit over this, so there is no reason to cut the peg off. Using the factory screws, attach the new speaker to the cabinet. Please make sure the speaker is flush to the cabinet when installed. Bass response will be greatly reduced if the speaker is not flush to the cabinet! The new speaker can be used behind the factory cloth covered grill, but the speaker will play louder with the supplied metal mesh grills installed. If you use the metal mesh grills, remove the 3 screws that secure the factory grill to the inner fairing. Looking at the metal mesh grill, you will see that one of its mounting tabs has a “keyhole” in it. The metal mesh grill will install into the inner fairing using the screws that held the factory grill in, but the mounting tab with the keyhole **MUST** be oriented so it is closest to the radio. With the 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.

# 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.

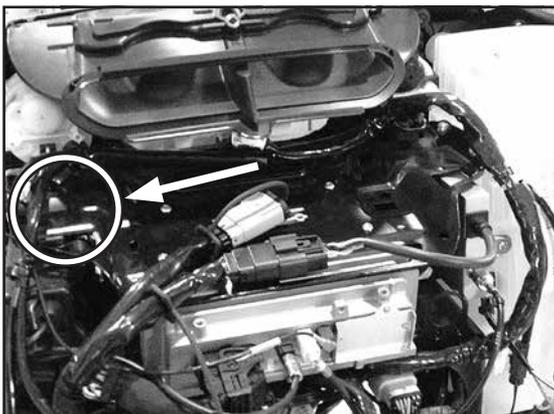


Figure 1.1 - The white circle shows the new location for GPS Antenna if your bike came factory equipped with this feature.

Step #2: As the amplifiers come in their boxes, each one is "stuck" to a mounting plate for use in FLH model bikes. "Peel" the amps off the plate. Take one of the plates and place it on top of the radio oriented so the tab with the hole in it is closest to the back of the radio (closest to you). Locate and install one of the supplied "star" washers on each factory screw and re-install the screw/washer through the new plate, through the factory black plate and into the top of the radio.

## IMPORTANT

*In this install we refer to one amplifier as the "Primary" and the other amplifier as the "Secondary." The Primary always has the main input harness go into it, and is always the amplifier that powers the front fairing speakers. When installed, the amp on the left (brake side) of the bike is the Primary amplifier.*

- Step #3: Take one amp, and in the same orientation as it came out of the box, “stick” the amp to the left half of the plate so the power harness is closest to the back of the radio. The “amplified output pigtail” will sit closest to your inner fairing. Have this pig tail so the 4 pin black plug is easy to get to. This first amp goes on the left (brake side) and from here on out is referred to as the PRIMARY amplifier. The second amp is referred to as the SECONDARY amp and is what will power the 6x9’s in the lids. Take the “Secondary” amp and “stick it” on your right (clutch) side so its oriented the same way as the “Primary” amp.
- Step #4: Locate the “splitter” power harness included in the kit. Plug one of the “splits” into the power connector on each amplifier. Let the balance of the power harness hang for now.
- Step #5: On each front speaker’s cabinet, there is a 2 pin plug that has pink and pink with black stripe wires. The plugs attach the speaker’s wiring to the bike’s wiring and need to be separated. Locate the “main input” harness and plug its 8 pin plug into the “audio input” on the PRIMARY amplifier. On this input harness, 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. 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.
- Step #6: Locate a bag with a harness in it that says “Audio Out” and plug it into the amplified out “pigtail” on the PRIMARY (left side) amplifier. Take the 2 pin plug with the blue heat shrink on one end and install it into the plug going into the brake side speaker cabinet. Take the 2 pin plug with the brown heat shrink and install it into the plug going into the clutch side speaker cabinet.
- Step #7: Locate the shorter harness (not in a bag) that has red/black and white/black wires, and has a “square” 4 pin black plug, and 1 blue 4 pin plug. The “square” 4 pin plug will plug into the mating factory plug inside the fairing with 4 light blue wires going into it. This one of the harnesses on the “Christmas Tree” fastener removed before the amp plate was installed. The 8 pin connector on the same harness will plug into the “Audio In” on the Secondary Amp. There will be a left over 4 pin blue plug which is there for future system expansion (adding a 3rd amp if needed).

Step #8: Locate the long harness that came in the "Retro Lid-RM" box that has a white 4 pin connector on one end, and two—2 pin black connectors on the other. Take the 4 pin plug on this harness and plug it into the amplified output "pigtail" on the Secondary (right side) amplifier. The balance of the harness for the lids and power harness will pass under the fairing where the main factory wire harnesses exit the fairing on the brake side of the bike.

**If you have removed your fuel tank:** the lids speaker harness and power harness can work their way towards the back of the bike inside the factory wire "chase". Note: The factory antenna wire also runs through this "chase." Keeping the amps power harness away from the factory antenna wire **WILL** help FM reception!

**If you have left your fuel tank on:** Loosen the tanks chrome console and run the 2 harnesses up and over the tank, but under the console. There is a provision on the front of the tank console for the wires to pass.

With or without the fuel tank on, when correctly installed, the power harness's "ring terminals" will be at the battery and easily attached to the battery. **Do not attach the power wires to the battery yet!**



***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 Tank's Chrome Console Easier And Makes For a Cleaner Install.***

**MOVE TO THE "LID CUT-IN SECTION" ON PAGE 13**

# ROAD GLIDE INSTALLATION

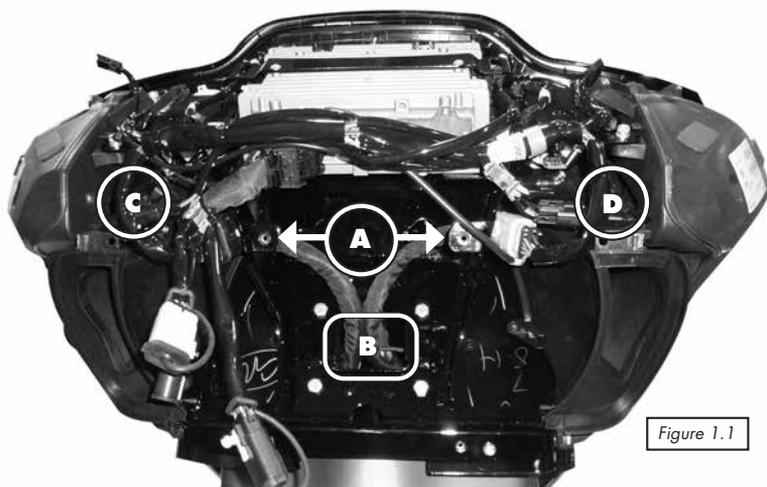
- Step #1: Remove the seat and both wires (+ and -) from the battery. Each factory speaker grill will be removed from the inner fairing by prying up on them. In most cases you can pry these off with your fingers, but if you must use a tool, please use something with a 90° end being extra careful not to scratch your inner fairing.
- Step #2: Remove the outer fairing from the bike and then the headlamp assembly. 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 #3: Undo the 4 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. You will need to "maneuver" the new speaker into place so it will go past the grill opening but it will go in without force.
- IN ORDER TO MAKE THE SPEAKER INSTALL PROPERLY, THE SPEAKER WIRE TABS MUST BE ORIENTED SO THEY ARE CLOSEST TO THE TOP OF THE INNER FAIRING (12 O'CLOCK POSITION).**
- Reinstall the factory screws to secure the speakers in place making sure the speaker is flush to the mounting plane.
- Step #4: On the back of each stock speaker grill, you will see a rubber gasket and 2 white clips. These gaskets and clips will be removed from the factory grills and re-installed on the supplied Hogtunes "RGRM" grills. Once the gaskets and clips are installed onto the new grills, put the grills aside and move to the next step.

The supplied Hogtunes grills are designed so the metal mesh and grill frame are easily separated for custom finishing. The metal mesh is thick enough so it should not warp during processing such as polishing or powder coating.

# AMPLIFIER INSTALLATION

As the amplifiers come in each box, they are “stuck” to a mounting plate for use in FLH (Batwing) model bikes. “Peel” the amps off each plate and put those plates aside as they are not required for FLTR (Road Glide) installations.

The image below will be one you can reference throughout the installation. Please take a minute and familiarize yourself with the items listed below in the image.



**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)

## IMPORTANT NOTE BEFORE PROCEEDING

*Power wires and wires for rear speakers will travel from inner fairing area towards the back of the bike. You can run wires in the factory wire “chase” which is under the fuel tank along the frame, or up and over fuel tank, but under the chrome console. If you are comfortable removing and re-installing your bikes fuel tank, doing it now can make running the wires much easier.*

Step #1: Locate the “splitter” power harness included in this kit. You will see one end that has “ring terminals”, and the other end that “splits” and has 2 power connectors on it. Using Fig 1.1 on page 9 for reference, run the “ring terminal end” of the power harness through “B”. Position it so the 2 power connectors on the “split end” are accessible in the inner fairing and the slack can be adjusted later in the installation. Just 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. Note: it can be easier to pass the wire harness through the rectangular opening if you “open” the fuse holder and remove the fuse before passing the wire harness. Once the ring terminal end of the wire harness is through the rectangular opening and most of the slack is taken up, move to the next step.

Step #2: Locate the long harness that came in the “Retro Lid-RM” box that has a white 4 pin connector on one end, and two—2 pin black connectors on the other. The 4 pin plug will go through the rectangular opening the power wires just came through and must be accessible near the power connectors of the “splitter” harness. Let the rest of the lid harness sit for now.

Step #3: **Preparing the Plate for the Amplifiers:**

Locate the Road Glide Plate that came in the kit (Fig 1.2). Locate the 2 “hook and loop” adhesive pieces included in the kit and separate the halves of each. With the plate at room temperature or higher, apply one side of the hook and loop to the front of the plate as shown by the black rectangle also in Fig 1.2. Apply a second piece on the back of the plate as well.

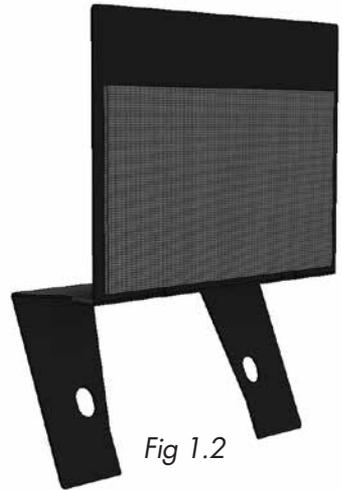


Fig 1.2

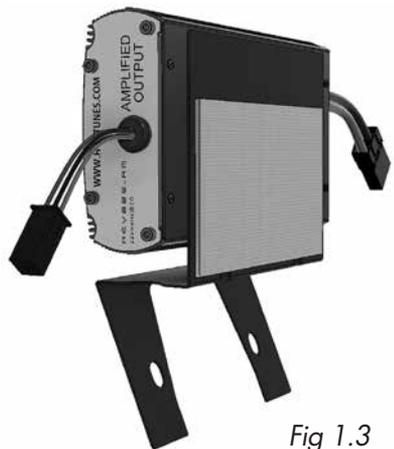


Fig 1.3

## IMPORTANT

*In this install we refer to one amp as the "Primary" and the other as the "Secondary." The Primary always has the main input harness go into it, and is always the amp that powers the front fairing speakers. When installed, the amp on the **BACK SIDE** of the plate is the **PRIMARY AMPLIFIER**.*

- Step #4: "Stick" one of the amplifiers to the BACK of the plate in the same orientation as shown in Fig 1.3.
- Step #5: Using Fig 1.1 on page 9 for reference, locate the 4 bolts on each of the 4 corners around "B" and remove the ones on top left and top right (only). It's best to have the amp on the plate near you before proceeding.
- Step #6: Using Fig 1.1 on page 9 for reference, locate "C" and "D" which are the 2 pin plugs on each front speaker's cabinet that have pink and pink with black stripe. These plugs attach the speaker's wiring to the bike's wiring and need to be separated. Locate the "main input" harness and insert its 8 pin plug into the "audio input" on the PRIMARY (back side) amplifier. On this harness, 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. 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.
- Step #7: Locate a bag with a harness in it that says "Audio Out" and plug it into the amplified out "pigtail" on the PRIMARY (back) amplifier. Take the 2 pin plug with the blue heat shrink on one end and install it into the plug going into the brake side speaker cabinet. Take the 2 pin plug with the brown heat shrink and install it into the plug going into the clutch side speaker cabinet.

Take one of the 2 power connectors on the splitter harness, and plug it into the power connector on the PRIMARY (back) amplifier.

Step #8: Using Fig 1.1 on page 9 for reference, you will see 2 large factory harnesses between "A" and "B". Wiggle the amp/plate into place around these harnesses so that the holes on the "legs" at the bottom of the plate line up with the holes where the factory bolts around "B" were.

With the plate in position, reinstall the factory bolts around "B" which will secure the PRIMARY amp on its plate to the bike.

Step #9: Take the Secondary amp and plug the second power connector into that amp. There is a short harness with red/black and white/black wires. It has a smaller 8 pin black plug, a 4 pin blue plug and a 4 pin "square" black plug that looks like a factory HD plug. Take the "square" black plug on this harness and plug it into the mating plug on your bike that has 4 light blue wires going into it. NOTE: The 4 pin plug referred to was attached to your headlight before your headlight came out. The small 8 pin black harness will plug into the "audio in" on the Secondary (front) amp. There will be one blue 4 pin plug left empty which is there for possible future system expansion. Plug the 4 pin plug on the lids harness into the "amplified output" pigtail on the Secondary (front) amp.



Fig 1.4

# LID CUT-IN INSTALLATION



**DO NOT USE "THREAD LOCK" OR "SCREW GLUE" OF ANY KIND AS IT DESTROYS PLASTIC AND WILL CAUSE PART FAILURE NOT COVERED BY WARRANTY!**

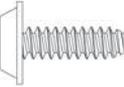
Remove the saddlebag from the bike, and put on a stable working surface. For obvious reasons, blankets etc. on your work surface will help protect the paint. The white circle in Fig 1.1 is an approximation of where a 5/8" (16mm) hole will be drilled. This hole is where the supplied Hochtunes silicone grommet will go to allow the lids speaker wire to pass into the saddlebag. We strongly suggest putting masking tape over the painted area to be drilled. We also suggest starting with a small bit, and gradually working your way up to the 5/8" (16mm) hole. Drilling the hole with the lid still on is recommended! Locate the wire harness and take the 48" section with the silicone grommet in line and install into the saddle bag making sure the 2 speaker "spades" are on the inside of the bag, and the single 2 pin connector is on the outside of the bag. The black squares (also in Fig 1.1) are an approximation of where supplied zip tie peel and stick "anchors" will be placed. Note: Before applying the anchors, you need to clean the plastic **WELL** using 99% isopropyl alcohol, or similar cleaner. **DO NOT use Acetone (It will eat plastic).** Do not apply pads until cleaner has completely evaporated.



Figure 1.1

# IDENTIFYING THE SCREWS

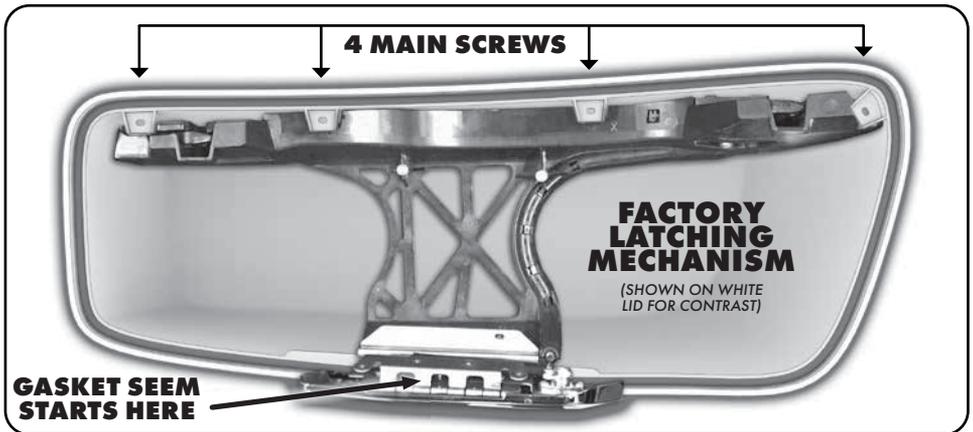
The kit comes with 2 types of screws:

- 6 (each) Phillips head screws with a pointy end 
- 16 (each) Phillips "Thread Forming" screws with a "flat" end 

For proper installation of this kit, you will need to use the correct screws throughout the process.

## DISASSEMBLING THE FACTORY LID

As you disassemble your factory lid, please make note of what screws came from where as they will be re-used. Open the factory lid and you will see 2 "T15" torx screws on the "bag side" of the cloth tether that holds the lid to the bag. Remove these 2 screws, move the cloth tether out of the way, and you will see 2 more of the same screws which also need to be removed. The lid is now free from the bag. Remove the 2 screws that hold the "key lock" to the factory lid. The chrome panel with the reflector built in comes off the factory lid by removing the 3 screws right next to the key lock. At its seam, the factory foam gasket needs to be peeled up enough to allow the rest of the hinge mechanism to be removed from the factory lid. There are 2x "T20" torx screws that hold the balance of the hinge mechanism to the plastic of the lid. Remove these screws and put hinge mechanism aside.



Remove the T15 screw that holds the opening handle in place and pull the handle away from the factory lid. Remove the last 4x T15 screws securing the large latching mechanism to the underside of the factory lid. This entire mechanism is now removed.

# MOUNTING THE TEMPLATES

- Step #1: Locate the cutting templates noting that they are clearly marked "Clutch side" and "Brake side". As shown in Fig 1.4, apply masking tape to the underside of the template to avoid unnecessary scratches to the lids paint.
- Step #2: Using Fig 1.3, put the correct template on the correct lid and drill through the 3 holes in the template using a 1/8" (3mm) drill bit. Locate 3 of the supplied "pointy" ended screws and using hand tools, secure the template to the lid. You will also see "keyhole" shapes in each template where you will start to cut when its time. Drill a 1/8" (3mm) "starter hole" in each of these key holes and then enlarge these holes to 5/16" (8mm)
- Step #3: Using a scratch awl or a pick tool (or something similar), scratch the factory paint all the way around the outer most area of the "cut line". This gives you a line you can use "just in case" you need to trim your lid once your cutting is complete.

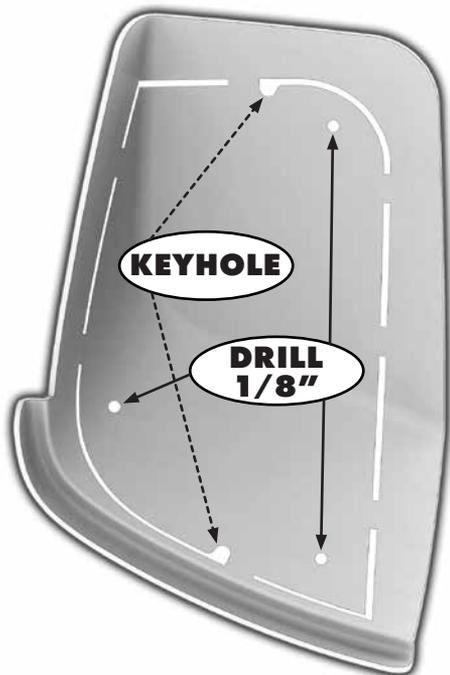


Figure 1.3

*Underside of Template  
No Masking Tape*



Figure 1.4

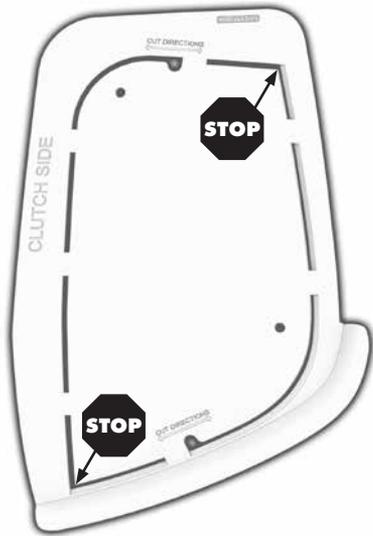
*Underside of Template With Masking  
Tape Applied Around Perimeter*

# PRO TIP

We **STRONGLY** suggest using a blade  
**SPECIFICALLY MADE FOR PLASTICS!**

When cutting your lid with a correct blade, there should be ZERO smell of burning plastic! Incorrect blades will do more melting than cutting and your friends may laugh at you hysterically.

## CUT GRILL OPENING



Its time to start cutting. We suggest a standard jigsaw or an air "body" saw. In all cases, you will **start at one of the "keyholes"** in the template, and **stop at the "hard corners"** as shown.

Make sure to cut through all the tabs in the template. We suggest starting at the keyhole closest to the middle of the lid first. Once the template is free from the lid, it can be discarded. You will now see the line you scribed in case you need to do any trimming before proceeding.

## TEST FIT GRILL

You can now test fit the grill to see if it fits nicely in the opening. Trim as needed being careful not to damage your painted surface. Once you are satisfied everything fits nice, re-install the lids latching mechanism. Don't put the lids on the bags yet.



## CLUTCH SIDE LID



Have the lid upside down on a blanket or something similar to protect your painted surface. Locate the speaker adaptor marked "Clutch" noting you will see it only fits one way. In the order shown, you will put "thread forming" screws through the adaptor and into the grill so the pieces "sandwich" the opening.

**MAKE SURE to put a supplied rubber washer on screw #4!**

Using **hand tools**, get each screw started. Once started, tighten each one down till they "stop". They don't need to be any tighter than that and will damage the rubber washer and cause leaking.

## BRAKE SIDE LID



Have the lid upside down on a blanket or something similar to protect your painted surface. Locate the speaker adaptor marked "Brake" noting you will see it only fits one way. In the order shown, you will put "thread forming" screws through the adaptor and into the grill so the pieces "sandwich" the opening.

**MAKE SURE to put a supplied rubber washer on screw #4!**

Using **hand tools**, get each screw started. Once started, tighten each one down till they "stop". They don't need to be any tighter than that and will damage the rubber washer and cause leaking.

The lid speaker harness will continue towards the back of the bike, and when correctly installed, the 2-2pin plugs will be behind the center of the seat. Secure the harness to the bikes factory harness' using zip ties wherever possible. Plug the 2 pin connectors into each saddlebag noting they will only go on one way.

Now you can attach the splitter harness' brown 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 4 speakers are working. With everything working, re-install the seat making sure the amplifier's "+" and "-" connectors are positioned in such a way that they will not bend or break when the rider's weight is on the seat.

Open the 692-XL box with the 6"x9" speakers. The silicone gaskets in that box should be put aside as they are not used in this installation. Locate the silicone gasket that came in the Retro Lid-RM box noting those gaskets have a "Flat Side" and a "groove side." Put the "flat side" against the speaker adaptor so the 692-XL sits onto the groove side. The speaker's connectors will be oriented so they are closest to the back of the lids. Using the supplied "thread cutting" screws, attach the speakers to each adaptor. Plug the speaker wires onto each speaker, noting they will only go on one way.

You can now use the supplied peel and stick zip tie “anchors” to secure the wires inside your bag. LEAVE EXTRA SLACK SO THE LID CAN OPEN!

- Note: Before applying the anchors, you need to clean the plastic WELL using 99% isopropyl alcohol, or similar cleaner.
- DO NOT use Acetone (It will eat plastic).
- Do not apply pads until cleaner is completely evaporated.

With the anchors in place, secure the wires in place using supplied zip ties. With the speakers attached to your lids, re-attach the lids to your saddle bags and re-install the completed bags to the bike. The plugs on the outside of the bags will now plug into the harness previously run noting the wires are labeled for clutch side and brake side.

**IMPORTANT: IT IS CRITICAL THAT ANY SLACK IN THE SPEAKER WIRES ON THE OUTSIDE OF THE SADDLEBAGS ARE SECURED PROPERLY TO AVOID GETTING CAUGHT IN ANY MOVING PARTS!**

Turn the bikes ignition on. NOTE: If one or both amps do not turn on, this is likely due to the built in feature on the amps that does not allow them to rob power from the battery if the battery is not in good shape. If one or both amps don't turn on with the bikes ignition on, start the bike so the battery can get proper power, and the amps will turn on. Make sure all 4 speakers are working.

*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!*

# GRILL BADGE OPTION

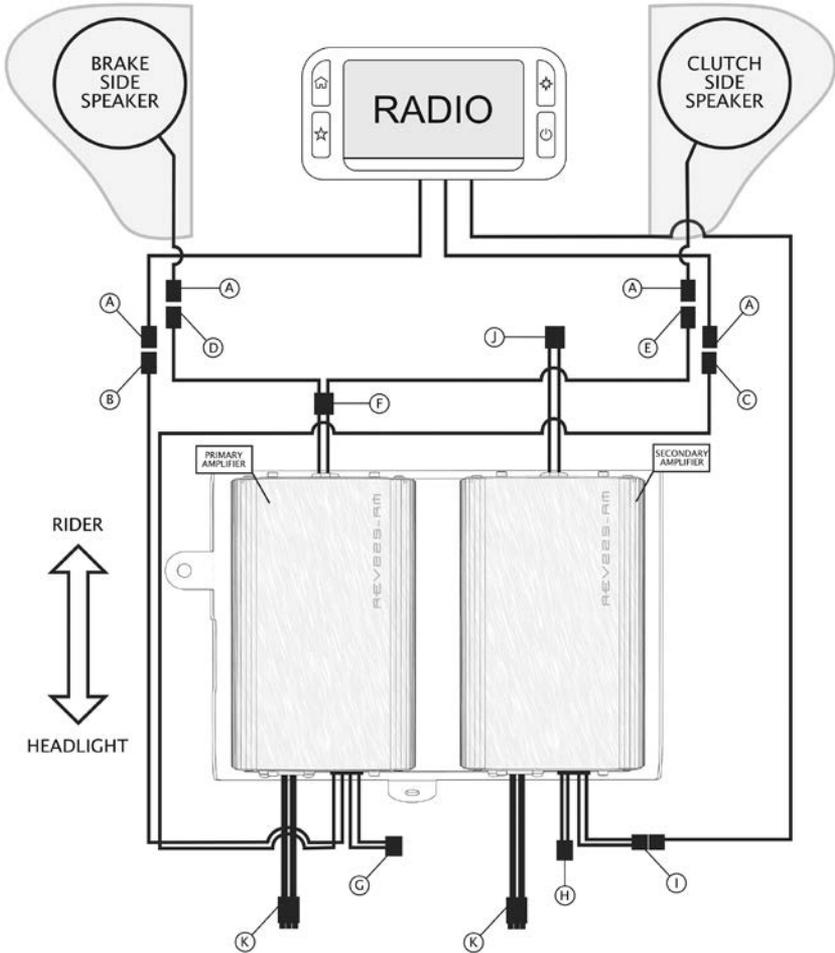
The grills come with a pre-installed badge with chrome letters. Depending on the bike, you may want to remove these badges and use the supplied blacked out badges. To remove the badges, you can use a 90 degree pick tool or a small flat head screwdriver or something similar to **CAREFULLY** pry the badges off. Before putting the new badges on, make sure there is no left over adhesive residue from the first set. If there is, use something like isopropyl alcohol to clean the residue off. **DO NOT use Acetone (It will ruin the grill finish).** Make sure the cleaner is completely evaporated before applying new badges.

To apply the new badges, simply peel off the backing to expose the adhesive. Sit the badges in place. **IMPORTANT: the new adhesive should sit at room temp (or higher) for 24 hours minimum for the adhesive to "bite in" to the grill surface.**

# SYSTEM ADJUSTMENT

- 1) There is a 3 position switch on each amp called "+3,0,and -3." For this installation put both amps to the +3 position.
- 2) As mentioned on the inside cover, this system will work great with the factory radio "flash," however if you have the radio reflashed by an HD Dealer or a Techno Research dealer, the radio fader function will be activated, and you will be able to control volume between the front and lid speakers from your radio. If you chose to have the flash done by an HD Dealer, the flash you need is called "Front and rear speakers without amp" which is the same factory flash that comes on Ultra models. Don't worry about the fact you have amps installed. The flash you want gives us the sound from the radio for the amps that have been installed. If you go to a Techno Research dealer, their equipment has a "Wild Boar Audio" flash which is what they need to use.
- 3) This system is designed to perform best with the bass and treble no higher than 3 bars above the center position.

# WIRING DIAGRAM



## QUICK REFERENCE WIRING DIAGRAM

- A) Factory Connectors Between Radio and Speaker Cabinets (pink/pink with black stripe)
- B) Primary Amp Brake Side Input (Green Heatshrink)
- C) Primary Amp Clutch Side Input (Yellow Heatshrink)
- D) Primary Amp Brake Side Output (Blue Heatshrink)
- E) Primary Amp Clutch Side Output (Brown Heatshrink)
- F) Primary Amp Amplified Output "Pigtail"
- G) Primary Amp Bypass Out
- H) Secondary Amp Bypass Out For Possible Future System Expansion
- I) Input Adaptor With Factory Style Plug— Plugged In To Factory Connector Inside Fairing
- J) Secondary Amp Amplified Output "Pigtail" for Lids
- K) Main Power/Ground



# WARRANTY INFO

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

The Hogtunes fairing speakers are warranted for a period of 20 years. The XL Lid speakers are warranted for a period of 5 years. The REV 225-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.

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**PRACTICE  
SAFE  
SOUND!**

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!**

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Audio Solutions For The Great American Cruiser

  
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