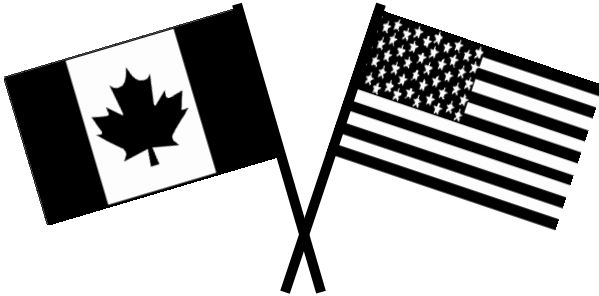


HOGTUNES

Audio Solutions For The Great American Cruiser



**Designed and Engineered in Canada For
The Great American Cruiser**

FL7 225-AA Installation Manual



**The REV 225-AA Amplifier In This Kit
Features The Houghtunes Proprietary Circuit
“Reduced EMI Technology” For Superior FM
Reception From A “Class D” Amplifier**

**Adds 7” Woofers Into HD Fairing Lower
Glove Boxes on 2005-2013 Bikes**

Thank-you for choosing the Hogtunes FL7 225-AA Fairing Lower Woofer Kit with Amplifier! 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. Email tech@hogtunes.com, or call us during regular business hours (EST) at (705)-719-6361. If you still need help, please consider a professional installation by your motorcycle dealer.

Please read these important points before getting started!

- In its most common configuration, the supplied amplifier will power the lower speakers, and your radios built in amplifier will power the front speakers which is how this manual is written. If you are installing this kit on a bike with a Hogtunes 4 channel amp already installed, please see the wiring instructions on Page 6.
- If you are installing this kit on a CVO® Ultra Classic, or CVO® Road Glide Ultra, please email tech@hogtunes.com for more Information. We will send install instructions specific to what you are doing.
- FL7 225-AA works on 2005-2013 bikes with Ultra Classic style VENTED fairing lowers. This kit **WILL NOT** work if you have a 1998-2009 Road Glide with the FLTR Road Glide specific lowers offered in those years.
- This kit cannot be used on 2011-2013 CVO® Street Glide or Road Glide Models that came with factory amplifiers.
- For ALL Road Glide Models with ULTRA style VENTED lowers, Hogtunes RG2CH-AA (Drag Specialties Part # 4405-0486) is required to install the amplifier properly!

Getting Started:

Step #1: Remove the seat, and both wires (+ and -) from the battery.

Step #2: Remove the outer fairing/headlamp assembly. Refer to a service manual if you need help with this. Note: A towel on the front fender can help prevent scratches or “dings” from dropped tools or fasteners etc.

Step #3: On Street Glide/Ultra Models, the amplifier gets mounted to the top of the factory radio using the supplied “hook and loop” adhesive, and must sit so you can read the text on top of the amplifier as shown in Diagram 1.1 on the next page .The amp needs to mount as far back on the radio as possible so the fairing can go back on. The minimum distance from the back of the radio to the most forward edge of the amplifier is 5/8” (15mm). 2006 and newer Ultras have the CB Radio mounted on top of the radio. The hook and loop adhesive is strong enough to have half the amp sitting on top of the CB radio as shown in Diagram 1.2. Model 2006 and newer non-Ultras have a “bump” on top of the radio that runs down the center of the radio.

Cut the hook and loop adhesive in half and apply on either side of the bump. The amplifier will then mount flush. Note: Most adhesives work best at room temperature or higher.



Fig 1.1 Street Glide/EG Classic with No CB Module present



Fig 1.2 Ultra Classic with amp on top of factory CB Module

Step #4: Locate the main power harness and plug it into the matching connector on the amplifier. Locate the 8 pin harness and plug it into “Audio Input” on the side of the amp. Locate the 4 wire harness with white/black, and red/black wires and plug it into the mating 4 pin blue plug on the input harness. Locate the 4 pin “lower harness” in the box with the woofers, and plug it into the 4 pin black “amplified out” plug.

Step #5: On the audio input harness, locate the wire with the yellow heat shrink on one end. Unplug the factory speaker wires on the clutch side of the bike and plug the male connectors near the yellow heat shrink into those. They will only go in one way. Also on the audio input harness, locate the wire with the green heat shrink on one end. Unplug the factory speaker wires on the brake side of the bike and plug the male connectors near the green heat shrink in to those.

Step #6: Locate the white/black wires on the harness you plugged into the input harness and attach those wires directly to the clutch side fairing speaker. On that same harness, take the red/black wires, and attach them directly to the brake side fairing speaker.

Step #7: The red and black power wires, and the wires marked “Clutch Side” and “Brake Side” of the lower speaker wire harness will pass under the inner fairing where the throttle and idle and/or bikes main wire harness pass through on the brake side of the bike. Let the Clutch Side and Brake Side wires hang on the front side of the crash bar for now. For 05-06 bikes, the power harness will pass under the inner fairing where the throttle and idle cables pass through on the brake side of the bike. The harness is designed to be routed between the frame backbone and gas tank on the brake side of the bike and come out just behind the gas tank. You MAY need to undo the back bolt of the gas tank and pivot the tank up to allow the harness to pass through at the back of the gas tank. Be sure to re-install this bolt and torque to factory specs! Continued on next page.

For 2007-2013 bikes, the balance of the power 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 amplifiers harness to the bike's factory harness using zip ties. When correctly installed, the power and ground wires are the right length to connect onto the battery. **NOTE: although not necessary, the power harness can run along the back bone of the frame if you choose to remove and reinstall the bikes fuel tank.**

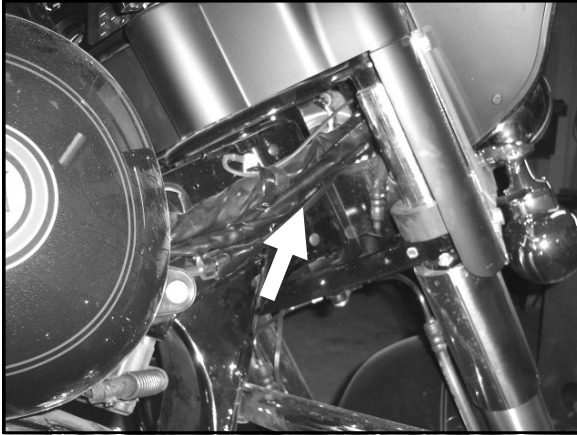


Diagram 1.4 Stock Harness and Power Harness Passing From Fairing To Under Tank. Note: Harness will pass over front gas tank mount/ bolt. The rings on the power harness can easily scratch paint so PLEASE be careful!

Step #8: 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. Secure the amplifiers power harness to the bikes factory harness' along the frame and behind the tank using supplied zip ties.

Fairing Lower Speaker Kit Installation

Step #1: Remove access covers from the glove boxes. Using a cutting tool such as side cutters, the 4 male parts each access panel snaps into will be cut and removed. Cutting them from inside the glove box will eliminate marks on the front of the glove box. When cut, parts may "fly" so please be careful and wear eye protection!

Step #2: Looking inside the glove box, locate the 2 nuts at the back of the glove boxes, and remove. This will release the painted lower fairing "cap" so be careful it doesn't fall and get scratched!! Remove and put aside.

Step #3: Looking from the front side of lower, locate the flat plane approx. 1" towards the motor, directly across from the lower bolt hole for the fairing cap just removed. Drill a 1/8"(3mm) pilot hole in the center of this plane, then a final 5/16"(8mm) hole-you will go through 2 layers. If working on Clutch Side, pass speaker wire marked "Clutch side" into glove box, large connector first. The sticker can be removed to fit through the hole if needed. Pull up any slack into the glove box so that wire will go along crash bar, making sure to keep quick release plugs in the center. Using the supplied black "gummy" material, seal the hole around the wire inside the glove box.

Step #4: Locate the angled speaker holder for the side of the bike your are working on and attach it to the glove box opening using the black hardware in the kit, through the holes made when male plugs were cut. Washers are used **INSIDE** the glove box only for this step. Once the angled speaker holder is secured, reinstall the painted lower fairing cap.

Step #5: Take one of the woofers and attach the speaker wires. Locate the silver "posts" with the hex key opening and put the woofer in place. Start each thread into the brass inserts in the angled woofer holder **BY HAND!** After all the threads are started, use supplied hex key to tighten the woofer into place. Press the grill into place by lining up the holes on the inside of the grills on to the silver posts. **Please MAKE 100% SURE the female rubber parts on the inside of the grill attach to all 4 posts holding the woofer in. Failure to do so can allow the grill to come off while riding.**

Step#6: Once everything is complete in both lowers, use the supplied wire ties to secure the exposed speaker wires to the crash bar. Moving back into the fairing, use supplied wire ties to secure the amplifier harnesses to the bike.

Step#7: Turn the stereo on, and test to make sure all 4 front speakers are working. The front speakers will turn on immediately, and the fairing lower speakers will turn on after a slight delay of a few seconds. On the clutch side of the amplifier is the amp level. Adjusting the amp level sets the "balance" between front and fairing lower speakers. It is recommended that you start with the level at "0" and turn up (+3) or down (-3) if desired. Re-install the seat making sure the amplifiers "+" and "-" connectors are positioned in such away so they will not bend or break when the riders weight is on the seat. Note: Sound quality is best with the fairing mounted and secured on the bike.

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!

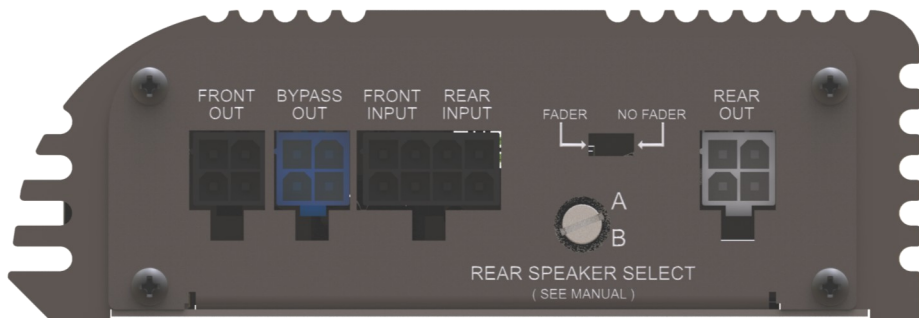
Re-install the fairing and the new addition to your bike is ready to enjoy! When washing your bike, water may collect on speakers in lowers. Gently wipe of with a soft cloth before playing.

For Bikes With A Hogtunes 4 Channel Amplifier Already Installed:

The wiring is slightly different, BUT EASY if these instructions are followed.

Please note:

- If installing the FL7 225-AA Kit on an FLH model (Batwing) bike that already has a Hogtunes 4 channel amp installed, Hogtunes amplifier plate “2CHSP” (Drag Part # 4405-0234) is required.
- If installing the FL7 225-AA Kit on an FLTR model (Road Glide) bike that already has a Hogtunes 4 channel amp installed, Hogtunes amplifier plate “RG2CH-AA” (Drag Part # 4405-0486) is required.



Step #1: In the REV 225-AA amp box, locate the “bypass” harness with white/black, and red/black wires and plug this into the “bypass out” on the 4 channel amp. On all Hogtunes 4 channel amplifiers, the bypass out socket on the amp is blue. The bypass harness has a mating 4 pin plug which is also blue.

Step #2: Also in the REV 225-AA box, locate the 8 pin harness and plug it into “Audio Input” on the side of the amp. Take the white/black wires on the bypass harness, and plug them into the yellow/black wires on the REV 225-AA input harness noting they will only go on one way. Take the red/black wires on the bypass harness, and plug them into the green/black wires on the REV 225-AA input harness noting they will only go on one way. This is how we get music from the 4 channel amp into the 2 channel amp.

You can now refer to the wiring on Page 3 of this MANUAL for power/ground, and audio out (to the lowers) noting that your Input to the REV 225-AA is now done.

If you have questions, please call us at (608)-554-7631 if you are in the USA, or (705)-719-6361 if you are in Canada, or email tech@hogtunes.com. We will help any way we can!

Note: All grill cloth will fade in time. We have had great success painting these grills using Duplicolor® branded Fabric and Vinyl paint which can be found at virtually any auto parts store. Many riders will do all the bikes grills at the same time to freshen the entire bikes appearance.

Warranty Information:

Please Record Your Amplifier Serial # Here: _____

Hogtunes speakers are warranted for a period of 20 years. The REV 225-AA 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.

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. Valid claims will have an Return Authorization Number (RA#) generated which MUST be visible on the outer box when it arrives to our offices.

Goods Arriving Without an RA# will be refused!

**PRACTICE
SAFE
SOUND!**

Any audio system can be a distraction to the rider and/or passenger. Please use caution when playing your stereo, especially in traffic.

www.hogtunes.com

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