

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!

www.hogtunes.com

HOGTUNES

Audio Solutions For The Great American Cruiser



Designed and Engineered in Canada For
The Great American Cruiser

Installation Manual

*Adds Speakers Into HD Fairing Lowers
on 1998 and Newer Bikes With No
Existing Amp**

**Maybe Used on CVO Ultra's With Addendum To Manual Found
At http://www.hogtunes.com/tech_files/CVO%203%20Way.pdf*

Version 1.1

Thank-you for choosing the Hogtunes Model 0326 Amplified Fairing Lower Speaker kit! 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 info@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.

Important: The Hogtunes 0326 works on any 1998 and newer bike with a factory radio and fairing lowers. The radio will power the existing speakers, and the amp powers the speakers in the lowers only. **NEVER** hook up more speakers to the amp in this configuration. **DO NOT** install this kit if ANY existing power amp besides radio power only is on your bike!

Important: If you are installing this kit on a Screamin Eagle® Ultra Classic you will need to download and follow the addendum to this manual for that bike found at http://www.hogtunes.com/tech_files/CVO%203%20Way.pdf

Please take a moment to identify all the included components.

- 1 ea. Hogtunes USA 24.2 Motorcycle Amplifier
- 1 ea. FLSK/AMP Wire Harness
- 1 pr. Hogtunes Fairing Lower Speaker Adaptors
- 1 pr. Hogtunes Fairing Lower Speaker Adaptor Grills
- 1 pr. Hogtunes #0902-AA Speakers
- 1 ea. Assorted Parts (nuts, bolts, washers, zip-ties, etc)
- 2 ea. Hogtunes Helmet Stickers

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.



Diagram 1.1

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.

Technical Specifications:

Hogtunes USA 24.2 Amplifier

RMS Power at 2 Ohms:	>30 watts/Channel
Max Current Draw:	< 4.5 Amps
Freq. Response:	40hz-18khz
Efficiency:	>60%
Fuse:	7.5 amp
Amp (only) weight	450 grams (1lb.)

Hogtunes #902.2-AA Speakers

Power Handling:	50 RMS-100 Peak
Frequency Response:	55hz-25Khz
Sensitivity :	92 db 1watt/1meter
Nominal Impedance:	2.0 Ohms

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Ultrasound™ is a Trademark of Hogtunes Inc, Ontario, Canada.

Step#5: Locate the silver “posts” with the hex key opening and put silver lock washers and washers on them. Place an 0902-AA speaker into opening in adaptor. Start each thread into the brass inserts in the angled speaker holder **BY HAND!!!!** After all the threads are started, use supplied hex key to tighten speaker into place. Press the grill into place by lining up the holes on the inside of the grills on to the silver posts.

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 FLSK/AMP harness 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 the amplifier delay of about 2 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. Re-install the fairing.

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!

Adjusting the bass levels: The USA 24.2 Ultrasound™ Amplifier yields HUGE bass due to the MaxxBass® feature. On Radio Sound® radios, between 5-6 “bars” is all that is needed on the bass level screen. On Harman-Kardon® radios, 4-5 bars is what we have found works best. This is a suggestion only. Adjust the system for what sounds best to you!

When washing your bike, water may collect on speakers in lowers. Gently wipe of with a soft cloth before playing and all will be OK!

Warranty Information:

Hogtunes speakers are warranted for a period of 20 years to the original purchaser. Hogtunes Amplifiers are warranted for 1 year from original purchase date. Proof of purchase is required for all warranty claims. **All Warranty claims must be made through the dealer this product was originally purchased from.** Speakers found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at Hogtunes sole discretion. Amplifiers will be repaired.

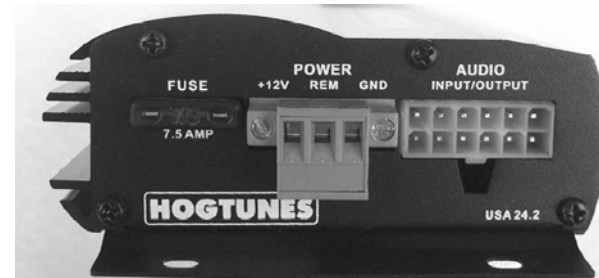
Step #3: The amplifier gets mounted to the top of the factory radio using the supplied “hook and loop” adhesive, and **must** sit so you can read the text on top of the amplifier as in diagram 1.1 .The amplifier needs to mount as far back on the radio as possible so the fairing can go back on. The minimum distance from the back of the radio to the most forward edge of the amplifier is 5/8” (15mm). On pre-2006 model bikes, it is a tight fit--but will go. Advanced Audio radios in 2006 and newer Ultras have the CB Radio mounted on top of the radio. The supplied hook and loop adhesive is strong enough to have half the amp sitting on top of the CB radio. 2006 and newer bikes non-Ultras have a “bump” on top of the radio that runs from front to back 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.

Wire Color Codes:

<u>Yellow/Black:</u>	Clutch Side Amplifier Input From Factory Radio
<u>Brown/Black:</u>	Clutch Side Radio Output to Front Speaker
<u>Green/Black:</u>	Brake Side Amplifier Input From Factory Radio
<u>Blue/Black:</u>	Brake Side Radio Output to Front Speaker
<u>Orange:</u>	Remote Turn On Lead
<u>Red:</u>	12v Positive--Attaches Directly to “+” Battery Post
<u>Black:</u>	12v Negative--Attaches Directly to “-” Battery Post

Wiring the Amplifier:

Step #1: Plug the 2 connectors of the main wire harness into “Power” and “Audio Input/Output” on the amplifier. Tighten (snug) the 2 small flathead screws on the power connector to prevent it from backing out while riding.



Step #2: Locate the yellow/black pair of wires with the male connectors. Unplug the factory speaker wires on the clutch side of the bike and plug the yellow/black wires in to those. They will only go in one way. Locate the brown/black pair of wires and plug them directly onto the clutch side speaker--again--they will only go on one way.

Step #3: Locate the green/black pair of wires with the male connectors. Unplug the factory speaker wires on the brake side of the bike and plug the green/black wires in to those. Locate the blue/black pair of wires and plug them directly onto the brake side speaker.

Step #4: The orange wire is the “remote turn on lead” and tells the amp to turn on whenever it sees +12v (.5 amp min.). Unplug the center wire (+) on the cigarette lighter. Plug the orange lead from the amplifier directly onto the lighter using the female connector. Plug the factory lighter wire to the male “take off” connector which is part of the amps orange turn on lead.

Step #5: The red and black wires, and the wires marked “Clutch Side” and “Brake Side” of the main 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. The red and black wires are designed to be routed under the gas tank and across the motor mount 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! When correctly installed, the power and ground wires are the right length to connect onto the battery.

NOTE: on 07 and newer bikes it is much easier to run power and ground wires up and over the gas tank, but under the chrome gas tank console!

Step #6: 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 FLSK/AMP harness to the bikes factory harness’ along the frame and behind the tank using supplied zip ties.

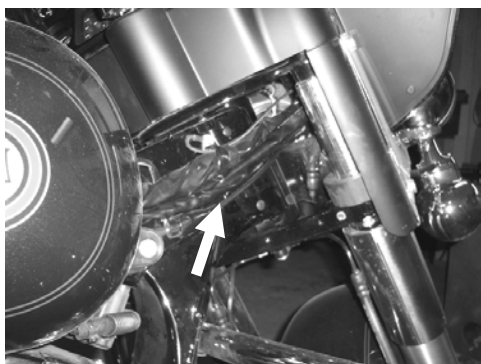


Diagram 1.2

Diagram 1.2 Stock Harness and FLSK/AMP Harness Passing From Fairing To Under Tank. Note: Harness will pass over front gas tank mount/bolt. Careful!--The ring can easily scratch paint!

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! On non vented lowers (up to and including 2004 models), the plastic trim bezel the 4 male plugs sit “in” must also be removed.

Vented Lower (05 and Newer) Complete Steps 2 and 3 **Non Vented Lower (Up to 2004) Move To Step 3a**

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. Move to Step #4.

Step #3a: Remove the “cap” on the front of the fairing lower held on with Phillips screws. Directly under the bottom of the clamp that holds the fairing lower to the crash bar is a flat plane. 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 the Clutch Side, insert the speaker wire marked “Clutch side”, large connector first. The sticker can be removed to fit through the hole if needed. Take 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 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. On non-vented lowers, 3 of the 4 holes will line up and a 3/16” hole must be drilled to expose the 4th hole. Washers are used INSIDE the glove box only for this step. Once the angled speaker holder is secured, reinstall the painted lower fairing cap. Take a speaker and attach the speaker wires.