

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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HOGTUNES

Audio Solutions For The Great American Cruiser



Designed and Engineered in Canada For
The Great American Cruiser

3 Way For The Freeway Installation Manual

*Complete 6 Speaker System For Use on
2006 and Newer Ultra Classics
With Factory Stereo*

(Not For Use On Models With Tour Pak Amplifier)

Version 1.1

Thank-you for choosing the Hochtunes 3 Way For The Freeway 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@hochtunes.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 take a moment to identify all the included components.

- 1 ea. Hochtunes USA 24.2 Motorcycle Amplifier
- 1 ea. Main Wire Harness
- 2 pr. Hochtunes #914.2 Speakers (For Fairing and Lowers)
- 1 pr. Hochtunes #117.2-AA Rear Speakers
- 1 pr. Hochtunes Fairing Lower Speaker Adaptors
- 1 pr Hochtunes Fairing Lower Speaker Adaptor Grills
- 1 ea. Assorted Parts (nuts, bolts, washers, zip-ties, etc)

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: Take the 2 wires off each front speaker by gently pulling one at a time. Undo the screws that attach each speaker/grill assembly to the inner fairing and remove. Pull the stock speaker out of each grill assembly.

Step #4: “Clip” a Hochtunes #914.2 speaker into each grill assembly. Position your new speaker/grill assembly onto the inner fairing, and re-attach each one using the OE screws. A hand driven tool is suggested for this.



Diagram 1.1

Technical Specifications

Hochtunes USA 24.2 Amplifier

RMS Power at 2 Ohms:	>32 watts/Channel
Max Current Draw:	<4.5 Amps
Freq. Response:	40hz-18khz
Efficiency:	>60%
Fuse:	7.5 amp
Amp (only) weight	450 grams (1lb.)

Hochtunes #914.2/117.2-AA Speakers

Power Handling:	45 RMS-90 Peak
Frequency Response:	55hz-21Khz
Sensitivity #914.2:	92 db 1watt/1meter
Sensitivity #117.2-AA:	91 db 1watt/1meter
Nominal Impedance #914.2:	5.75 Ohms
Nominal Impedance #117.2-AA:	2.0 Ohms

Hochtunes regularly tests new technologies to make our products as good as they can be. For this reason, any and all specifications are subject to change without notice.

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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 outer 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!

#117.2-AA Rear Speaker Installation Instructions

Step #1: Remove the speaker grills by undoing the 4 screws in each rear speaker “pod”. Carefully lift up on each speaker and take the 2 wires off by pulling one at a time from the stock speaker. Remove the speakers.

Step #2: Hochtunes speakers are a direct replacement for the OE speakers. The female OE “in-line” connectors mate with the male connectors on each speaker, and only go on one way. If you are replacing aftermarket speakers, you may need to re-install the correct sized connectors (not supplied) onto the factory speaker wires. Once you are confident the factory wires are correctly attached to the new speakers, sit them in place, put the grills back on, and secure the speaker by reinstalling the 4 screws per “pod”.

Adjusting the Radio Bass Levels: The USA 24.2 Ultrasound® Amplifier yields HUGE bass due to the MaxxBass® feature. 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.

YOUR DONE! Time to go for a ride and enjoy your new system! 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:

Hochtunes speakers are warranted for a period of 20 years to the original purchaser. Hochtunes 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 Hochtunes sole discretion. Amps will be repaired.

What Is Not Covered:

- 1) Any expense related to the removal or re-installation of Hochtunes products.
- 2) Repairs to these products performed by anyone other than Hochtunes.
- 3) Subsequent damage to any other components.
- 4) Any product purchased from a non-authorized Hochtunes dealer.
- 5) Damage to Hochtunes products due to an accident or collision.
- 6) Hochtunes Amplifiers with broken or removed “warranty void” sticker.

Step #5: Mounting the amp. The amplifier gets mounted to the top of the factory CB 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 CB as possible so the fairing can go back on. The supplied hook and loop adhesive is strong enough to have half the amp sitting on top of the CB radio as shown in diagram 1.1. If any other Advanced Audio unit such as a digital radio module is present and mounted next to the CB, affix the amp on top of both modules. 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 Amplified Output to Front Speaker
<u>Green/Black:</u>	Brake Side Amplifier Input From Factory Radio
<u>Blue/Black:</u>	Brake Side Amplified 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 and plug them into the factory speaker wires on the clutch side of the bike. 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 and plug them into the factory speaker wires on the brake side of the bike. 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.

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 Hogtunes 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 Power and Ground Wires Passing From Fairing To Under Tank. **Note: Harness will pass over front gas tank mount/bolt--along underside of tank, and across the motor mount. Careful!--The ring terminals 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 2004), the plastic trim bezel the 4 male plugs sit “in” must also be removed.

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 cap and put aside.

Step #3: In the area of the lower exposed by the fairing cap removal, 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 of the crash bar. 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 Hogtunes #914.2 speaker and attach the speaker wires.

Step#5: Locate the silver “posts” with the hex key opening and put silver lock washers and washers on them. Place an 914.2 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 main harness to the bike.

Step#7: Turn the stereo on, and test to make sure all 6 speakers are working. The rear speakers will turn on immediately, and the fairing lower and fairing 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 to +3 is suggested, as fine tuning the fronts and rears is done using the radios fader control.