

HOGTUNES

Audio Solutions For The Great American Cruiser

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Ultrasound Overview

Hogtunes Ultrasound system is a complete rear speaker kit for all 98 and newer HD Electra Glide Classics, Road Glides, Street Glides, and Standards, with factory radios and King Tour-Paks. The kit includes a fairing mounted amplifier, complete plug and play wire harness, rear speaker boxes, grills, a pair of Hogtunes 0914 speakers, and all required mounting hardware. Absolutely everything needed to complete the job comes in the box.

The name Ultrasound was given as customers could “get the sound of an Ultra” by adding the extra rear speakers that come stock on Ultra Classics. Ultrasound makes the system far better than a stock Ultra Classics sound system.

It's a common misconception that rear speakers are for passengers. Hogtunes, and HD's rear speaker boxes on Ultra Classics point the speakers directly at the RIDERS ears, and primarily benefit the RIDER. As soon as a passenger of any “size” gets on the bike, the rears speakers can become muffled. For the RIDER who wants a major improvement in audio performance, Ultrasound is a perfect solution. As you read on, it should become much clearer why.

Ultrasound ALWAYS has a set of 0914 speakers (as supplied in kit) mounted in the fairing-regardless of what year the bike is. The amp Velcro's on top of the radio and runs the front speakers, while the radio's built in power gets re-routed to power the rear speakers. Lets say a customer has a 2007 Street Glide with a King Tour Pak, and wants rear speakers. With Ultrasound, the 0914's that come in the kit get mounted in the fairing and are powered by the amplifier. The customer's stock speakers are then moved to the rear boxes, and get run off the radios power. This insures the best sound is always in front of the rider! If the customer already had Hogtunes 0902-AA speakers, which are the front speakers for 06/07 bikes when running off the radio--they would move to the rear boxes.

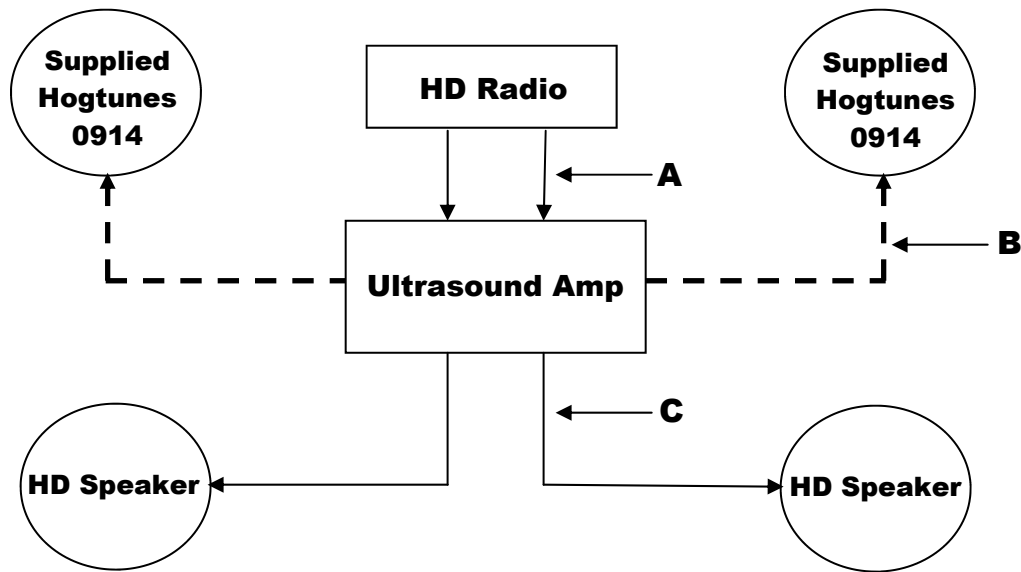
Hogtunes has two “series” of speakers. The 0914 fronts and 1120 rears are for 98-05 bikes and match the electrical properties of those radios. The 0902-AA fronts and 1017-AA rears are for 06/07 bikes with Harman-Kardon Advanced Audio radios and match their 2 ohm electrical properties. The “AA” in the Hogtunes model numbers means they work with Advanced Audio radios. The Ultrasound amp is “tuned” to work best running 0914's which is why 0914's always go in the front. Since the radio powers the rears, its important to match the rear speakers used to the model year of the radio. Unlike the stock HD rear boxes, Hogtunes front or rear speakers fit in Ultrasounds rear boxes, which is why either model in each series can be used to upgrade the rear speakers instead of using the stock speakers.

How it all works:

Go From This. (Stock 2 Speaker System)



To This! (Stock HD System With Ultrasound Installed)



A= Stock speaker wires get unplugged at each front speaker and plugged into amp wire harness

B= Amplified signal going from Ultrasound amp back to front speakers

C= Radios power passing through the amplifier and routed to power the new rear speakers

Ultrasound amplifies the front 2 speakers only. The factory speaker wires get unplugged at each front speaker and are plugged into the amplifier harness. This supplies signal from the radio into the amplifier (A). A set of wires from the amplifier go back out to the front speakers completing the amplified audio path for the front speakers (B). Once the factory speaker leads supply signal into the amplifier, the Ultrasound amp “captures” the radios built in power, and re-routes it to run the new rear speakers (C). When done this way, the radio doesn’t “see” the amplifier, its still playing 1 set of speakers-except they’re now in the rear. Again--In this configuration the best sound is always in front of the rider--like a good home stereo.

On 98-05 bikes, the factory radio will power 2 speakers only. In order to power more speakers, an amplifier must be present. The HD rear speaker kit for these years puts their amp under the tour pak, and powers the rear speakers (the radio powers the fronts). The “best” sound stays behind the rider and a detach tour-pak becomes VERY difficult to do.

On 06/07 bikes, the factory radio “can” power 4 speakers, but comes pre-programmed to run the 2 front speakers only. If the 06/07 HD rear speaker kit is added, the dealer must do a re-flash with his “HD Digital Technician” to turn on the rear speakers through the bikes ECM--which is usually a \$75 charge to the customer. The customer must then buy the HD “Ultra Overlay Harness” to access the rear speaker “pins” on the back of the radio (\$124.95 MSRP). Finally, the rear speaker kit can be added (\$432.95 MSRP). This totals \$632.90 before labor for 2 more stock speakers and no amplifier! Ultrasound installs seamlessly with no dealer re-flash required, which makes it a great choice for everyone including independent dealers or the “do it yourself” customer.

Ultrasound has a small plug in the main harness that zip-ties to the brake side rear fender strut. This plug allows the rear speakers to come off the bike with ease if a detach tour-pak is used. Even with the tour-pak removed, the rider still gets the benefits of the amplifier running the Hogtunes 0914 front speakers! Extra speaker wire sits in the speaker boxes in case the customer adds a tour-pak relocation kit. The extra wire allows the tour-pak to be moved back the 2” without modification.

The MAXXBASS® Feature In The Amplifier (www.maxxbass.com)

With MAXXBASS® built into the amp, its not necessary to have an amp that would power 4 speakers as part of the Ultrasound system. By running a front speaker amp only with MAXXBASS® instead of a front and rear speaker amp, the electrical demand from the bike stays low, which avoids any damage to the bikes stator. MAXXBASS “psycho-acoustically” fills in the lower frequencies small speakers cannot reproduce. It does this with no added stress on the speakers or amplifier which helps keep Ultrasound very reliable. Sony VAIO laptops and some JVC Plasma TV’s also use MAXXBASS® to make their small speakers sound bigger than they really are. This is a KEY feature of Ultrasound!

NOTE: RG Adaptor Kit is required for all Road Glides. The kit Includes a longer wire harness that keeps everything plug and play, and a custom steel plate for easy amplifier mounting inside the “shark-nose” fairing. All required mounting hardware is included.

Specs For The Ultrasound USA 24.2 Motorcycle Amplifier

- **48 Watts RMS (24 x 2 Minimum Power)**
- **MAXXBASS® Feature Gives Huge Bass Improvement**
- **Draws Less Than 4.5 Amps At Full Power (Less Than A Headlight)**
- **100% Plug And Play Harness Makes For A Very Easy, Stock Looking Installation**
- **Wires Are Right Length With Correct Connectors Making Install “Fool Proof”**
- **Quick Release Speaker Plug For Removable Tour-Paks**

Rear Speaker Boxes:

- **Custom Designed ABS Boxes Appear Stock - Covered In Factory Style Leatherette**
- **3.5mm Material Thickness (20% Thicker Than Stock) For Increased Audio Performance**
- **Aftermarket or HD Chrome Grills Fit With Supplied Grills**
- **All Required Mounting Hardware Is Included**

The Most Common Question About Ultrasound:

Why not just a bigger amp to run 2 front speakers only? Sound in it rawest form is movement of air. To make any system play louder, you can apply more amplifier power to the one pair, or add more speakers. Even with 100 watts per channel, the small speakers can only ever play “SO” loud--just like a penny will only ever go “SO” fast if thrown off a hi-rise. The second set of speakers, doubles the amount of moving air, which immediately doubles the systems volume. This is done with very limited demand from the bikes electrical system. An Ultrasound system will be very clear at high-way speeds, but most importantly-keep itself, and the bikes electrical system RELIABLE.

Hogtunes can build just about any audio equipment they can dream up. Ultrasound was given careful consideration before being released to give the very best performance for the dollar without putting any undue stress on the bike.

If anyone has any questions, please feel welcome to call Hogtunes Head Product Engineer and Owner Mike “PEZ” Pesdirz direct at (705)-719-6361.