

# MOTO602-HD

## MOTORCYCLE AUDIO SPEAKERS



MOTO602-HD

### **EXTREME SOUND**

**HLCD High Output Design**  
**Water resistant Features**

**OEM Fit**

**MSRP \$399**

ARC Audio, known as the creator of the first Harley-Davidson audio upgrade packages, is proud to introduce our latest motorcycle audio speaker – the Moto602-HD. This high-efficiency driver set is designed for music enthusiasts who like to ‘crank it to 11’ with the sole intent of delivering listening levels on their motorcycle that are beyond the abilities of traditional speaker designs.

As with all Moto-Series speakers, the Moto602-HD was developed as a direct drop-in replacement upgrade for Harley-Davidson Touring motorcycles from 2014 and up that uses a 6.5-inch speaker. The four-hole mounting arrangement, speaker cutout requirements, and overall mounting depth eliminate the need for modifications to the fairing or the factory speaker enclosure.



*An high-quality passive crossover is integrated into the rear magnet cover housing. The filter prevents low-frequency information from damaging the HLCD diaphragm. The result is crystal-clear sound and incredible power handling.*

As a two-way driver, the passive crossover network that filters low-frequency information from the tweeter signal is integrated into the rear magnet cover. As such, all electrical connections are made quickly and easily by the single set of gold-plated spade terminals.

Each speaker is based around a heavy-duty fiber-reinforced eight-spoke ABS plastic frame for optimal corrosion resistance. A closed-cell foam gasket on the mounting face of the driver prevents buzzes and rattles for a perfect installation every time.



*A strong Y35 Ferrite magnet serves double-duty to provide magnetic flux for the woofer and the large 1.25-inch horn-loaded titanium compression driver (HLCD) tweeter.*

At the base of the basket is a strong Y35 Ferrite magnet that serves double-duty to provide magnetic flux for the woofer and the large 1.25-inch horn-loaded titanium compression driver (HLCD) tweeter. The T-Yoke that extends through the middle of the driver is hollow and acts as the throat for the uniquely recessed tweeter.

The titanium tweeter dome has been treated for increased resistance to changes in performance caused by high humidity levels and changes in temperature. The result is predictable output under a wide range of riding conditions. Finally, a fine acoustically transparent mesh prevents water from getting into the diaphragm and motor assembly, making it friendly to potential rain showers and the occasional bike wash.

The woofer cone is based on polypropylene design that has been impregnated with carbon graphite for added rigidity and thermal stability. The result is amazing clarity and good mid-bass response. This cone is attached to the basket with a rubberized woven cloth surround that features a low-loss double-roll profile for excellent efficiency and allows for the proper clearance required in the 2014+ Harley Davidson touring bike front speaker locations.

A treated poly-butyl secondary surround at the base of the woofer cone prevents water from getting into the motor structure and improves alignment stability during peak excursion where other speakers may encounter mechanical rocking that could cause damage. All components have been tested for resistance to fading and degradation from prolonged UV exposure that is synonymous with motorcycle applications.



*A 1.25-inch Titanium-Dome HLCD Tweeter delivers impressive efficiency to ensure you can hear all your music over even the loudest aftermarket exhaust systems.*



*At the heart of the speaker is a 1.25-inch Kapton voice coil former with a high-temperature precision-wound all-copper voice coil.*

Lastly, at the heart of the speaker is a 1.25-inch Kapton voice coil former with a high-temperature precision-wound all-copper voice coil. The coil assembly adhesive is cured using a process that involves increasing the baking temperature in progressive steps for increased thermal stability and power handling. This premium design gives the Moto602-HD a 125-watt continuous and 250-watt peak power rating and incredible reliability over long listening periods, even at peak levels.

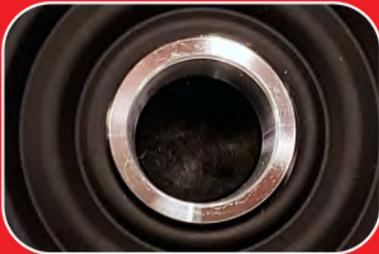
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## **-Specifications-**

### **MOTO602-HD**

Speaker Size-	6.5"
Speaker Type-	Coaxial w/Horn Tweeter
Sold as-	Pairs only
Water Resistant Design-	Yes
Power Handling (Peak)-	250 Watts
Power Handling (RMS)-	125 Watts
Voice Coil Diameter-	1.25"
Coil Material	Hi-Temp Pure Copper
Coil Former	Reinforced Kapton
Sensitivity-	94dB
Frequency Response-	70Hz - 20kHz
Impedance-	4 Ohms
Tweeter Type-	HLCD Compression Driver
HLCD Material-	Titanium
Designed for HD Baggers-	Yes - OEM Locations
Cutout Diameter-	5.617"
Mounting Depth-	2.625"



*The HLCD opening of the MOTO602-HD is protected by the elements using advanced water repellent, acoustically transparent materials to deliver amazing sonic performance while keeping the water out!*

The Moto602-HD is of course designed as a direct upgrade to the 2014+ Harley-Davidson Street Glide and 2015+ Road Glide Boom! Audio speakers.

If you want to hear your music over even the loudest Screaming Eagle, Vance & Hines or Akrapovic exhaust system, combining the Moto602-HD with an amplifier like the ARC Audio Moto 600.4 is the way to go. Visit your local authorized ARC Audio retailer for more information.

### **Why you Need the Moto602-HD!**

Compared to conventional drivers, the Moto602-HD offers a dramatic increase in output and efficiency over conventional coaxial and component speaker designs. In most instances, the HD speakers produce the output equivalent of using an amplifier with two to three times as much power, but without the additional load on your bikes electrical system.



*It may look like a simple plastic cap but this carefully shaped cover is the home for the Moto602-HD's titanium HLCD diaphragm.*

*(Warning, removal of this cover voids all warranties!)*

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