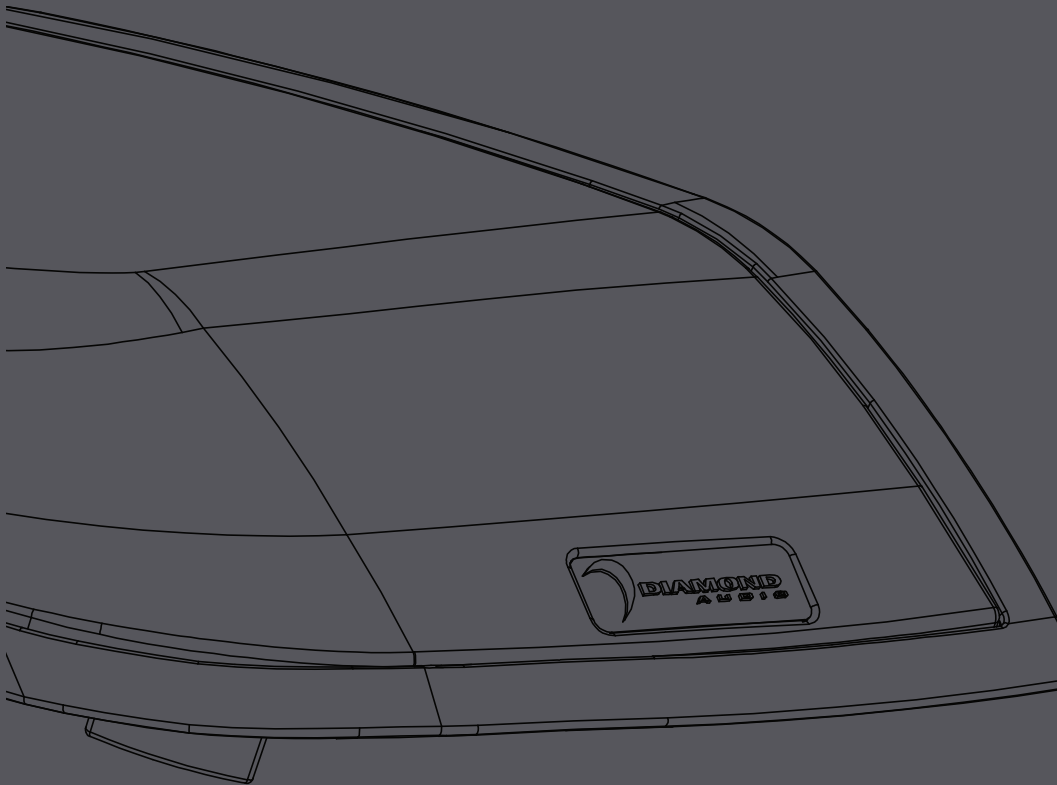




**DIAMOND**  
AUDIO

HXM6941k INSTALLATION  
MANUAL



## ABOUT THE DIAMOND AUDIO EXPERIENCE

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Congratulations, you have just purchased the finest Marine Audio products on the market to date. At Diamond Audio, our products represent the latest advances in acoustic technology in sound reproduction for your power sport/marine applications. Diamond Audio products are designed, developed, and engineered using the latest innovative materials and components to provide the finest sound reproduction possible. Every Diamond Audio product has been Klippel verified and tested to ensure the best sounding and most reliable product on the market, if installed properly, Diamond Audio products will provide many years of the ultimate listening experience.

Please note that prolonged exposure to sound pressure levels in excess of 100dB can cause permanent hearing loss. Using Diamond Audio products can exceed that level so please exercise restraint in its operation in order to preserve your ability to enjoy its high fidelity sound for many years to come.

Diamond Audio recommends our products be professionally installed by an authorized Diamond Audio dealer to achieve the best possible system recommendation and installation. This will ensure a true Diamond Audio listening experience and sound you would expect from Diamond Audio products. In doing this you will extend your warranty from one year to two years.

Go ahead, Hear the Music

MODEL	TYPE	POWER HANDLING
HXM69F4	6X9" 2-Way Coaxial	150W RMS/300W MAX

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### FEATURES

- Manufactured to IP65 Marine Grade Compliant Specifications
- 1" Titanium Dome Tweeter
- Flush Mount Design
- Shorting Ring Utilized In Motor Structure For Far-Field Performance
- UV-Treated Thermal Molded Waterproof PP Cone with Rubber Surround
- 12dB Bessel Crossover Network
- Super High Energy Neo Motor System
- High Temperature UV-treated Injected Composite Basket
- Integrated Digital RGB LED Lighting
- Aluminum Radiator for Neo Motor System
- DALEDLC Multi-Function Digital RGB LED Lighting Remote Control Available (optional)

# INSTALLATION

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## Contents

- (1) Pair Marine HXM69F4 speakers
- (16) Phillips head stainless screws with teflon washers
- (1) Backbone Harness with LED wiring
- (2) Speaker Grills (2) Mounting Rings (2) Cutting Templates

## Tools Needed

- Drill
- Small Flat Blade Screwdriver
- Jigsaw/Airsaw
- Phillips Screwdriver
- 1/8" Drill Bit
- Torx Drivers
- 5/16" Drill Bit
- Socket Set
- 3/4" Hole Saw
- Masking Tape
- Wire Cutters
- Zip Ties

## Installation Considerations before attempting Install,

1. Be sure to carefully read and understand the instructions before attempting to install these speakers.
2. For safety, disconnect the negative battery terminal from the battery prior to beginning the installation.
3. For easier assembly, we suggest you run all wires prior to mounting speakers in place
4. Use high quality connectors for a reliable installation and to minimize signal or power loss.
5. Think before you drill! Be careful not to cut or drill into gas tanks, fuel lines, brake or hydraulic lines, vacuum lines or electrical wiring when working on any vehicle. If installation in a boat, take care not to cut or drill through the main hull.
6. Never run wires underneath the vehicle. Running the wires inside the vehicle or hull area provides the best protection.
7. Avoid running wires over or through sharp edges. Use rubber or plastic grommets to protect any wires routed through metal, especially the firewall.

# INSTALLATION

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Step 1. Remove saddle bag lids, seat, gas tank and fairing cover from Motorcycle.

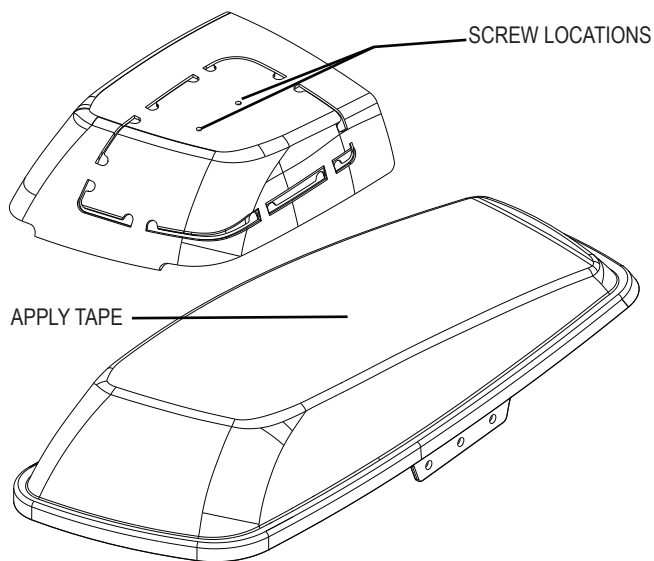
Step 2. Using masking tape, tape over the painted portion of your saddle bag lids.

NOTE: This will prevent any scratching of the factory paint during the installation process.

NOTE: Make sure the template fits snug on all sides and corners of the saddlebag lid before securing.

# INSTALLATION

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Step 3. Apply the template to the saddlebag lid and secure using (2) screws that came with the kit.

NOTE: There is a brake and clutch side specific template for each lid. You can use a 1/8" drill bit to predrill holes before screwing the templates to the lid. Be sure the template is secure and wont move.

Step 4. Once the template is secured, use 5/16" drill bit and drill holes in the template.

NOTE: We suggest drilling at every segment to make sawing easier.

Step 5. Using a jigsaw, follow along the template.

NOTE: DO NOT cut the segments of the template until all of the slots have been cut. This will help maintain accuracy and fitment for the grilles.

NOTE: When cutting, be sure that the saw blade stays in between the edges of the template. Cutting into the template will lead to fitment issues.

Step 6. Next you will attache the speaker, grille and mounting ring to the lid using the supplied screws.

NOTE: It is easiest to place the grill into the hole that has been cut into the lid and place upside down on a bench. Then place the appropriate mounting ring onto the grille, along with the speaker. Secure with the supplied screws.

# INSTALLATION

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Step 7. Run the main harness up the back bone of the bike and into the amplifier under the fairing.

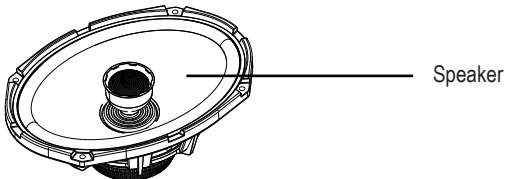
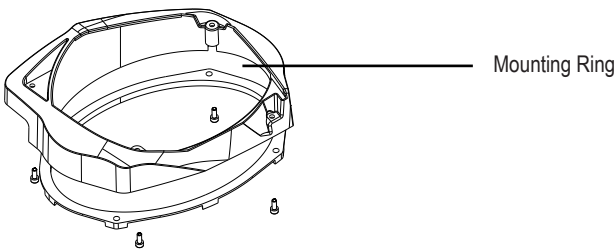
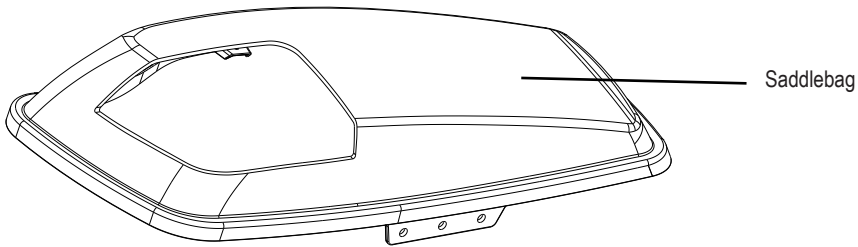
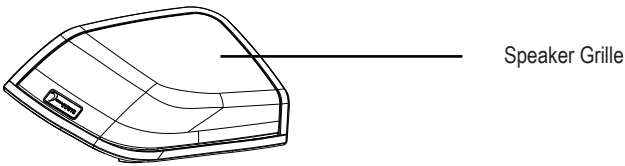
Step 8. Drill a 3/4" hole on the inside of the bag for the saddlebag harness. Once the hole is drilled, insert through the hole and secure the grommet.

Step 9. Place the adhesive backed plastic cable tie mounting tab to the inside of the bag (optional tie mounts)

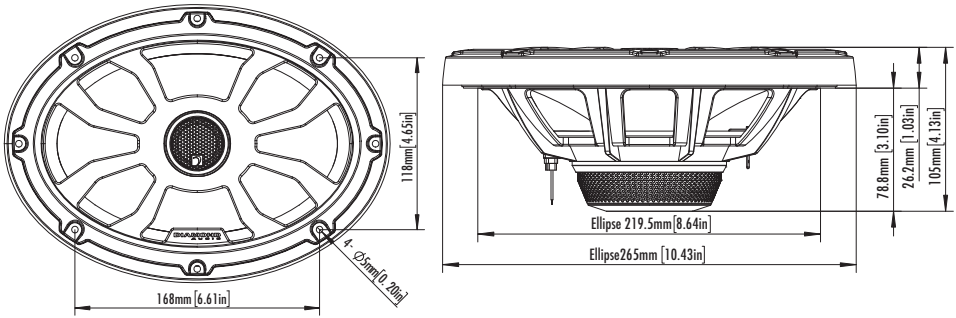
Step 10. Route the wire along the inside of the bag and secure.

Step 11. Reattach your saddlebag lid and connect the harness to the speaker.

Step 12. Test the system and reassemble the motorcycle.



# HXM69F4



<b>Model</b>	HXM69F4
<b>Nominal Diameter</b>	6x9"
<b>(mm)</b>	(152x229)
<b>Description</b>	2 Way
<b>Nominal Impedance (Ohms)</b>	4Ω
<b>Frequency Response</b>	60-18kHz
<b>Kapton Voice Coil Diameter (mm)</b>	1.75" (44.7)
<b>Power Handling / Watts (RMS/Peak)</b>	150/300
<b>Fs - Free Air Resonance (Hz)</b>	70
<b>Qts</b>	0.78
<b>Vas - Cu. Ft</b>	0.689
<b>Liter</b>	-19.5
<b>Sensitivity 1W/1M</b>	94dB
<b>Sensitivity (2.83V/1M)</b>	97dB
<b>Xmax - inch (mm)</b>	0.16 -4
<b>Mounting Diameter</b>	8.64"x6.0"
<b>Mounting Depth</b>	3.15"

## Applicable Models:

### 2014+ Harley-Davidson Motorcycles with Factory Saddlebags

This Diamond Audio Lid Kit is designed to work with Diamond Audio HXM, MS, MP Series 6x9" coax speakers.

\* When using HXM694LK you will need the DALED digital LED controller sold separately.

## LIMITED SPEAKER WARRANTY STATEMENT

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Diamond Audio Technologies, (CV & DA HOLDINGS INC.) warrants this product to be free from defects in material and workmanship for a period of one (1) year from the original date of purchase provided it was purchased from an authorized DAT retailer within the United States. Product warranty period starts at date of purchase or one year past manufacture date whichever is first. However, upon purchase, completion of the online registration and installation by an authorized DAT dealer your warranty period will be extended to two (2) years. This warranty extension offer will only be recognized upon completion of the online registration of your product within 30 days of the date of purchase.

THIS WARRANTY IS NOT TRANSFERABLE AND APPLIES ONLY TO THE ORIGINAL PURCHASER OF THIS PRODUCT IN ITS ORIGINAL INSTALLATION. Original purchaser must reside in the United States and be able to provide proof of purchase and installation with the sales receipt and completion of online registration from the authorized DAT retailer that sold and installed the product.

Should a manufacturing defect occur during above said warranty period, DAT will replace or repair the defective product with a product of the same or equivalent value and performance.

Damage or failure caused by any of the following is not covered under this warranty policy: negligence, improper use, abuse, product modification, unauthorized repair attempts, accident, acts of God, misrepresentations by DAT retailers, and improper/inadequate packaging during return shipping.

**Warranty is void if serial numbers have been removed, altered or defaced.**

## HOW TO OBTAIN WARRANTY SERVICE

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In the event a DAT product should require service, you should visit the authorized DAT retailer you purchased the product from and they can expedite your claim. All claims must fall into the guidelines listed above and be accompanied by a copy of the original sales and installation receipt from that authorized DAT retailer.

Product returned for warranty service must be freight-prepaid, properly packaged and clearly marked with the Return Authorization (RA) number issued by DAT. Any product returned to DAT that is improperly packaged, does not have a RA number clearly marked on the package, or never received a RA number may be refused upon delivery. DAT does not assume responsibility for lost or misdirected product.

Repair or replacement under this warranty is the exclusive remedy of the consumer. DAT shall not be liable for any incidental or consequential damages for breach of any expressed or implied warranty on this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights that may vary from state to state.

Customers outside the United States should contact their local sales office to obtain information on pricing, exchange unit availability, instructions, service and warranty/non-warranty replacement or repair.

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### Diamond Audio Technologies

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AUDIO

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