



Custom Dynamics® Road Glide® Shark Demon™ . LED Headlight Installation Instructions

We thank you for purchasing the Custom Dynamics® Road Glide® Shark Demon™ LED Headlight. Our products utilize the latest technology and highest quality components to ensure you the most reliable service. We offer one of the best warranty programs in the industry and we back our products with excellent customer support. If you have questions before or during installation of this product please call Custom Dynamics® at 1(800) 382-1388.

Part Numbers: SD-RG-WW (Patent Pending)

Package Contents:

- Shark Demon™ LED Headlight (2)
- RG-HL-Y Wiring Adapter (1)
- Weatherstripping
- RG-HL-BRACKET
 - Left Mounting Bracket
 - Right Mounting Bracket
 - Mounting Plate
 - Face Plate
- Hardware Kit
 - 1/4-20x 3/4" Socket head (2)
 - M6-1.0 x 7mm Socket head (9)
 - M6-1.0 x 13mm Hex Head (8)
 - Flat washers (8)
 - Split lock washers (11)
- Instructions (1)

Fits: 2015-2023 Harley-Davidson® Road Glide (FLTRX), Road Glide Special (FLTRXS), 2022-2023 Road Glide ST (FLTRXST) & CVO™ Road Glide Limited (FLTRKSE), 2020-2023 Road Glide Limited (FLTRK), 2018-2022 CVO™ Road Glide (FLTRXSE), 2016-2019 Road Glide Ultra (FLTRU), 2020-2022 CVO™ Road Glide Ultra (FLTRUSE) and 2023 Road Glide 3 (FLRTR).



ATTENTION

Please read all Information below before Installation

Warning: Disconnect the negative battery cable from battery; refer to owner's manual. Failure to do so may result in electrical shock, injury or fire. Secure negative battery cable away from positive side of battery and all other positive voltage sources on vehicle.

Safety First: Make sure the bike is parked on a level surface and bike's mechanical components are cool to the touch.

Note: Complies with SAE and DOT Standards for High and Low Beam Motorcycle Headlamp.

Note: Some technical knowledge may be needed for this installation. Consult your vehicle detailed service manual for instructions on removing the front fairing and for electrical wiring information. If the steps contained within are beyond your skillset, do not attempt installation, contact a qualified mechanic or dealership to assist you.

Cleaning: Take special care in cleaning the finish. Never use abrasive polishes or cleaners as these can scratch the finish.



Installation:

1. Remove the 4 windshield bolts and windshield. Set aside in a safe location.



2. Remove the vent by pulling straight up on the vent. The vent is held in with clips and will pop off. Set aside in a safe location.



Questions? Call us at: 1 (800) 382-1388 M-TH 8:30AM-5:30PM / FR 9:30AM-5:30PM EST

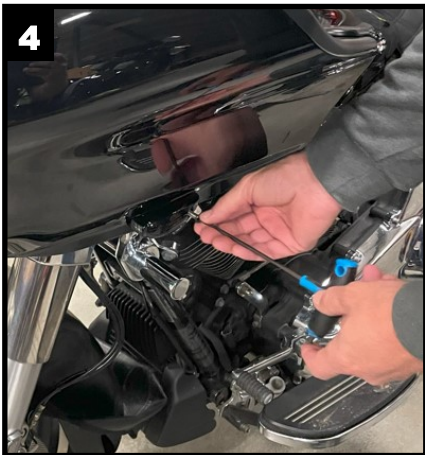
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Installation (Continued):

3. Locate and disconnect the left and right side turn signal harness four pin JAE connectors. See Figure 3.



4. Remove the socket head bolts from the outside of each turn signal housing with a 3/16" Allen wrench. See Figure 4.



5. Remove both left and right lower T-25 torx bolts from the bottom of each fairing chin spoiler. See Figure 5.



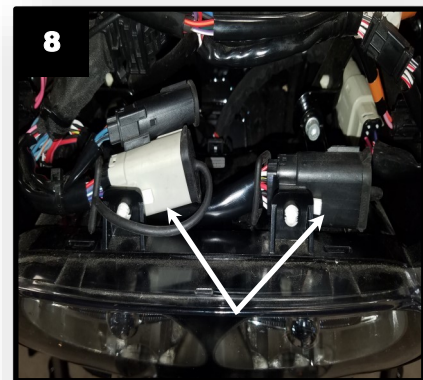
6. The speaker grills are held in by clips. Remove both left and right speaker grills on the inner fairing by pushing outwards from the inside of the speaker grill. See Figure 6.



7. Once the speaker grills are removed, locate and remove the T-27 torx bolts in each corner of the speaker housing. Once the bolts are removed the outer fairing will be separated from the inner fairing. Set the fairing aside in a safe location to prevent damage. See Figure 7.



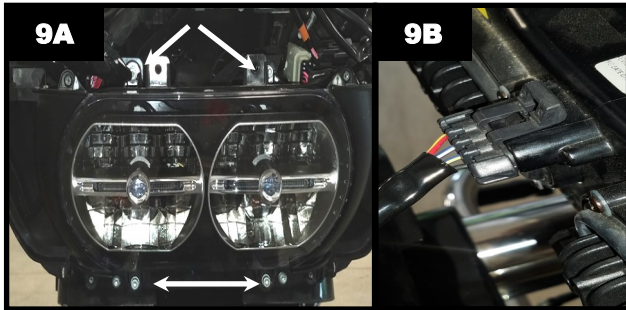
8. Locate the two data plugs that are on the top front of the factory headlamp and press them away from their mounting tabs. See Figure 8.



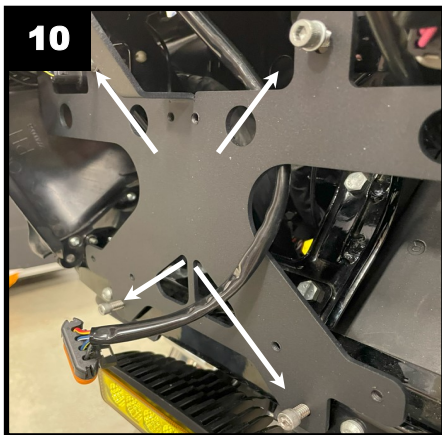
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Installation (Continued):

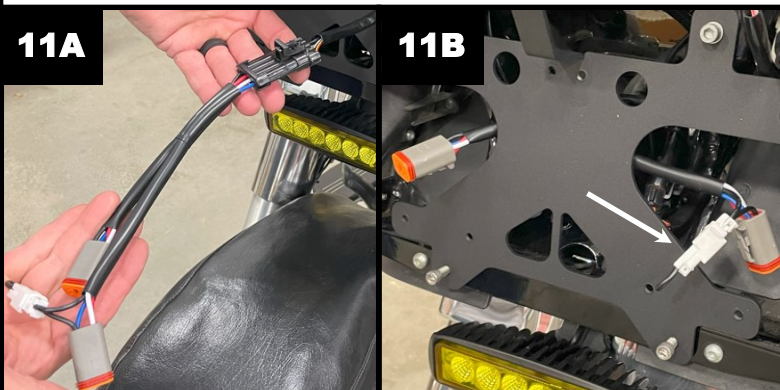
9. Locate the four socket head bolts that secure the factory headlamp to the mounting plate (9A). Remove four bolts with a 3/16" Allen wrench and unplug headlight (9B).



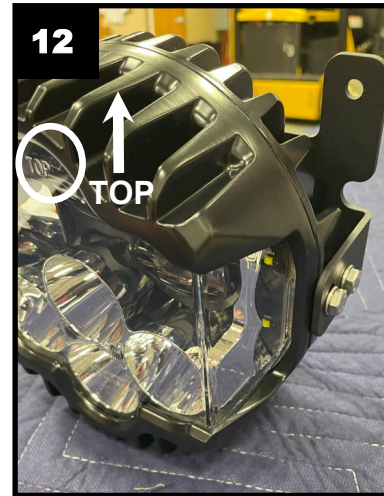
10. Use two of the factory socket head Allen bolts from step 9 at the top of the Mounting Plate. Install the two 1/4-20x 3/4" socket head Allen bolts from the supplied Hardware Kit at the bottom of the Mounting Plate. See Figure 10. **Note:** Tighten the top two socket head Allen bolts until snug, leave the bottom two 1/4-20x 3/4" socket head Allen bolts loose.



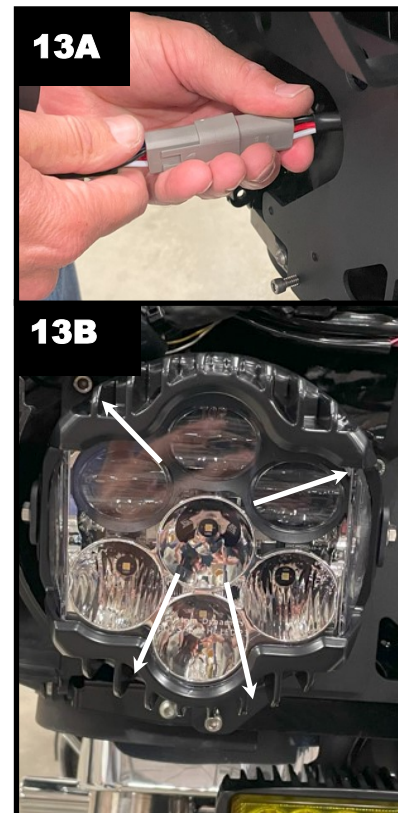
11. Connect the RG-HL-Y Wiring Adapter into the factory headlight connector (11A). Route RG-HL-Y Wiring Adapter behind the Mounting Plate (11B). **Note:** The two pin connector is designed for the Auxiliary Handlebar Mounted On/Off Switch CD P/N: CD-AUX-UNV (Sold Separately) to control the left side lamp separately.



12. Install both Shark Demon™ LED Headlights onto the Left and Right Mounting Brackets with the eight M6-1.0 x 13mm Hex Head, Split lock washers and Flat washers. **Note:** Orient the Shark Demon LED Headlight with the words "Top" at the top when installed on the Mounting Bracket. See Figure 12.



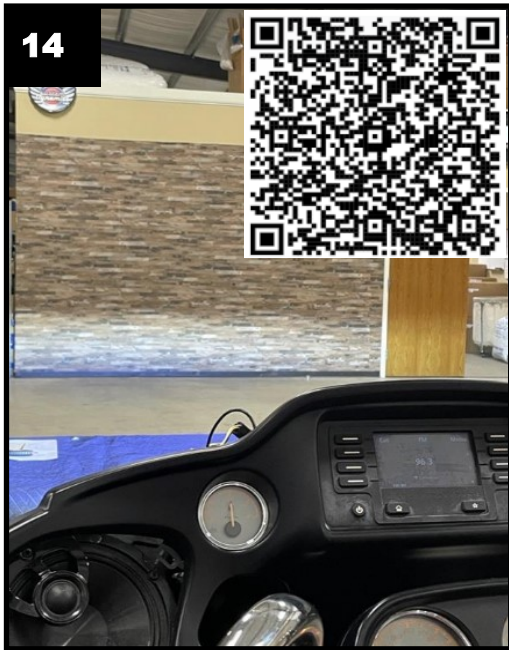
13. Connect the Shark Demon™ LED Headlight assemblies to the RG-HL-Y Wiring Adapter (13A). The connector with the two pin amp jumper should route to the left (clutch side). Mount both Shark Demon™ LED Headlight assemblies onto the Mounting Plate with the eight DM6-1.0 x 7mm Socket head, Split lock washers and Flat washers. (13B).



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Installation (Continued):

14. Reconnect the negative battery cable and test high beam, low beam operation and Auxiliary Handlebar Mounted On/Off Switch if installed. Aim both headlights by pivoting the Shark Demon™ LED Headlight assemblies on the Mounting Brackets. It may be necessary to loosen the eight M6-1.0 x 13mm Hex Head from Step 12. Scan the QR code below for specific instructions on proper measurements for aiming. See Figure 14.



15. Install Weatherstripping by sliding into place at the top of the Faceplate. See Figure 15.



16. Remove both lower 1/4-20x 3/4" socket heads from Step 10 using a 3/16" Allen wrench. Mount the Faceplate using the provided M6-1.0 x 7mm Socket head, Split lock washers and Flat washers. Install and tighten both lower 1/4-20x 3/4" socket heads. See Figure 16.



17. Reinstall the outer fairing using the original hardware from steps 3 through 7.



18. Reinstall speaker grills by applying light pressure. They should snap into place.
19. Reinstall factory vent by snapping into place.
20. Reinstall windshield using original hardware.
21. Test operation of the Shark Demon™ Road Glide® Headlamp for high beam, low beam operation and Auxiliary Handlebar Mounted On/Off Switch if installed.