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THE SCIENTISTS OF LIGHTING

1998-2013 Harley-Davidson Pre-Rushmore Style Road Glide

Dual DOT LP6 Headlight Kit

(44-8327 (White), 44-8328 (Amber))



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These are comprehensive warranties; other than the exclusions below – you're covered. If your LED or HID bulb burns out, you're covered. Additionally, cutting off our connector or changing your lenses does not automatically void your warranty.

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KIT CONTENTS

QTY	COMPONENT
1	Main Mounting Bracket
1	Backing Plate
1	Left DOT LP6 Mount – Clutch Side (C)
1	Right DOT LP6 Mount – Throttle Side (T)
1	Front Cover / Tin
1	Front Cut Template
1	Z-Mount Bracket
1	Hardware Kit



TOOLS REQUIRED

7/16" Socket (T-handle preferred) | 7/16" Small/Slim Wrench | Blue thread locker or equivalent | Trim/upholstery removal tool (optional)

BEFORE YOU BEGIN

CUTTING REQUIRED: This recessed installation requires marking and cutting the fairing. Protect the finish, verify the template position before cutting, wear appropriate eye protection, and keep wiring/components clear of the cutting area. The instructions state that the DOT LP6 kit replaces the complete factory headlight assembly.

NOTE: This kit is designed for Model Years 1998-2013 that utilize the Factory HD Fairing. If you have purchased an aftermarket fairing, please ensure that the headlight molded area matches the factory shape. This bracket kit fits snugly inside the Factory HD Fairing, so exercise caution when selecting your fairing. This kit is a TIGHT fit!

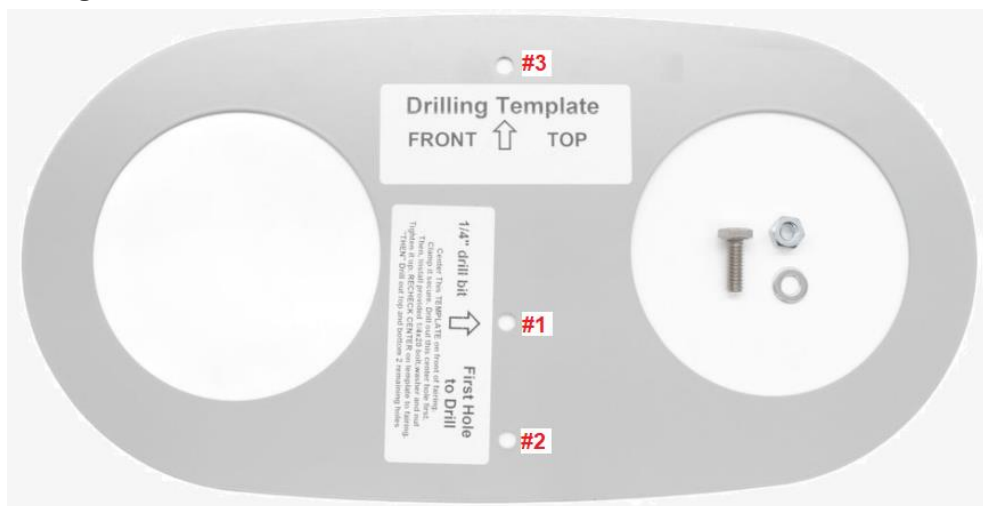
STEP 1 | REMOVE FACTORY LIGHT ASSEMBLY

Remove the factory fairing, headlight, and OEM mounting bracket.

STEP 2 | PREPARE FOR THE CUTTING OF OEM FAIRING

After removing the fairing, prepare a work area to set your fairing on. It needs to be facing you. We recommend a blanket or towel to prevent scratching the fairing on any surface. Remove any adhesive that is stuck to your fairing. The kit will be attached to your fairing, and no plates or other objects may be left behind.

With your fairing sitting on a bench, front-facing you, locate and install the cutting template within the fairing.



STEP 3 | CUT TEMPLATE INSTALLATION

Install the metal template inside the front fairing. Center it both top to bottom and left to right. Please note that it will only move slightly. We recommend checking the left and right upper sides to ensure they are equal before clamping it to the fairing.

Using the large holes and a basic C-Clamp, make sure the template is secure. Prior to drilling, double-check the center and then drill out hole #1 using a 1/4" Bit.

IMPORTANT STEP AFTER YOU DRILL! The first hole is shown. Insert a 1/4x20 hex bolt, washer, and nut, then tighten it snugly. Recheck that the template is straight, and then drill holes 2 and 3.

STEP 4 | INSTALL MAIN BRACKET & HARDWARE

Now that you have drilled all 3 holes in your fairing, your done with the template. This template is no longer needed with this project. Insert this panel from the front side of your fairing into the holes you just drilled. NOTE: Install the two studs on the bracket into the lower holes of your fairing, labeled #1 and #2 on the previous page.



STEP 5 | INSTALL REAR SUPPORT BRACKET

Rotate your fairing to the backside and install the rear panel, ensuring it aligns with the two lower studs. As seen in the picture below, the rear support bracket comes with the same exact 3 mounting holes, which match the front plate. Insert this panel on the rear of the fairing creating a “SANDWICH” that captures the front bracket, fairing, and rear plate. From the hardware bag, grab 2 Nylock 1/4x20 nuts and 2 1/4” washers. Place the panel below from the back side of your fairing and align the two lower studs through the back panel. Install a washer on each stud, followed by the Nylock nuts. With a 7/16 socket or wrench, snug these up.

NOTE: If your fairing has any obstructions, such as bumps or molded extrusions that interfere with the rear support plate, these must be sanded or ground down. We have designed this panel with clearance areas to accommodate larger items, but fairing shapes may vary. Use a Dremel tool or a sanding disc to ensure the area is mostly flat so it properly accepts the rear support panel.



STEP 6 | INSTALLING Z-MOUNT BRACKET / SUPPORTT

Locate the Z-bracket for installation. This bracket comes with its own 1/4x20 stud and alignment pin. Insert this Z-bracket through the front panel and ensure the alignment pin is set into the very top hole of the Main Bracket. See Image #6



There is a small alignment pin that must fit into the powder-coated hole located just above hole #3. If, for any reason, the alignment pin does not insert with a small amount of hand pressure, please clear out some of the paint around the pin and try re-inserting it.

After you have made sure the alignment pin is in the hole and the plates are flush, install a washer and a nylock nut and tighten it snugly.



STEP 7 | INSTALL DUAL HEADLIGHT BRACKETS

Now your ready to install both DOT LP6 Lights and locate the Left and Right Light Mounts as shown below. NOTE: The centers DOT LP6 mounting tabs only use one bolt. This is due to the tight fit of the road glide and clearance of the dual DOT LP6. "Only 3 are needed".



Using the hardware provided in the DOT LP6 Hardware bag with each light, install 3x bolts for the light. The inner hardware will be staggered for clearance. At this time, only snug the bolt as these need to be adjusted once installed in the fairing/bike. DO NOT FINAL TIGHTEN YET.



STEP 8 | INSTALL LIGHTS INTO FAIRING & MAIN BRACKET

Now you are ready to insert both sets of lights through the entire assembly. Using the provided hardware, install one 1/4" washer on each stud and secure it with the Nylock 1/4x20 nuts provided (Green Circles). Make sure to tighten all these components securely, as this will be the last opportunity to access these nuts.

The image below shows how the entire system is assembled with the fairing on the bench.



STEP 9 | INSTALL LIGHTS INTO FAIRING & MAIN BRACKET

Before lifting your fairing, be sure to reach inside your bike and locate the mounting hooks. It's critical that the factory steel mounting hooks go through the rear bracket.

Lift and position your fairing with the lighting kit on your bike. Ensure that the hooks come through and rest on the flat surface. If the hooks aren't fully engaging, check for any objects that may be blocking them. We have observed that cables, amplifier cords, and other wires are sometimes zip-tied in the way. Please re-route these and clear the path.

Next, align your fairing so it is approximately 90% of the way it will be set. We recommend not tightening all the bolts of your fairing just yet.

Illustration of factory
hanger hooks



STEP 10 | INSTALL DUAL HEADLIGHT BRACKETS

We suggest you set the final angle of your DOT LP6 lights at 87 Degrees. Note: This is at the final ride height.

Due to the very tight fit on this bike, the final adjustment process can be quite challenging and time-consuming. Here are two options for installing the lights:

OPTION 1:

Do not fully torque the center bolt on your light. Use Blue Loctite, but leave the center bolt snug without fully tightening it. Your goal is to loosen the two outer bolts slightly so that you can adjust the DOT LP6 light up and down with some ease. If it's too easy to move, you may not have tightened the center bolt enough, and it could come loose. Adjust the center bolt so that it feels somewhat difficult to rotate the light by hand, but still possible. This will prepare you for the next steps. With this installation method, you will be able to access the outer 7/16 bolts with a wrench.

OPTION 2:

Follow the same steps as in Option 1, but once you are satisfied with the light's position, remove the fairing again and take the lights out of their brackets. Then, fully torque the center bolt for peace of mind. Our technicians typically use Blue Loctite on the center bolts (due to the use of a single bolt) and perform the installation following Option 1 without any reported issues.

Before the final assembly of your fairing, ensure you plug in the harness and zip tie any excess wires or relays. Leave a small amount of loose wire loom accessible so that you can easily reach in and service the lights if needed.

STEP 10 | INSTALL FRONT TRIM / BEAUTY PLATE

Locate the hardware for this front shield (1x black button head / 1x black washer). The button head is a 1/4"x20x5/8" black oxide coated stainless bolt with a black coated stainless washer. Locate the front shield as shown in image below. Remove the red liner on the 3M brand adhesive. Install the front trim bottom edge first, then tilt up and over the lights. We have made this tin so that it wedges at the bottom of your fairing and uses one center-mounted bolt to hold snug. The adhesive is mostly used to keep vibration, remove noise, or movement at high speeds.



FINAL CHECK

- All mounting hardware is installed and secure.
- Headlight pivots/aims correctly and does not have side-to-side play.
- Harness is secured away from sharp edges, heat, and moving parts.
- Steering moves lock-to-lock without pulling or pinching wiring.
- Battery is reconnected according to the motorcycle manufacturer's procedure.
- Headlight operation and aim are verified before riding.

Tie all wires away from sharp, hot, and/or rotating components.

Re-torque all the fasteners after 100 miles.

Your install is now complete! Thank you for choosing Baja Designs.