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THE SCIENTISTS OF LIGHTING

**22+ Harley-Davidson Low Rider ST, Cut-In DOT LP6  
Headlight Kit**

**(44-8321 (White), 44-8322 (Amber))**



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# LIMITED LIFETIME WARRANTY

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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.

**Exclusions:** Installation errors, abuse, misuse, or crash damage. You must be the original owner of the product and can supply proof of purchase.

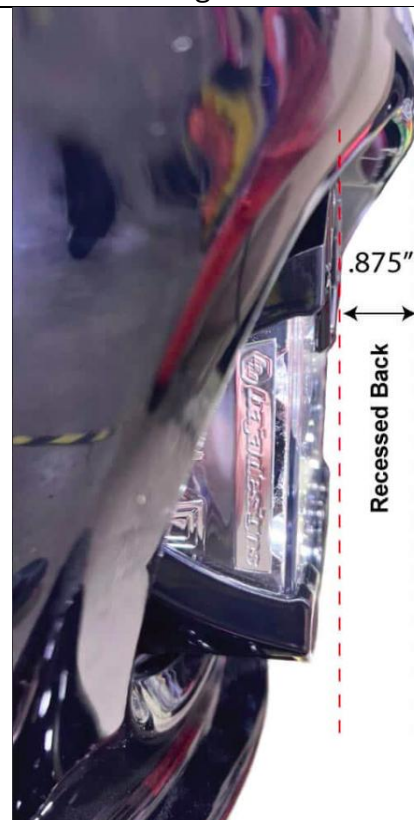
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## KIT CONTENTS

| QTY | COMPONENT                                                               |
|-----|-------------------------------------------------------------------------|
| 1   | Main mounting bracket – Single DOT LP6                                  |
| 2   | 7/8 in. tall x 5/16 in. bushing spacers                                 |
| 2   | 5/16-18 socket-head bolts                                               |
| 2   | 5/16 in. zinc washers                                                   |
| 2   | 1/4-20 x 5/8 in. socket-head bolts                                      |
| 2   | 1/4 in. washers                                                         |
| 4   | 1/4-20 x 5/8 in. black stainless button-head bolts for DOT LP6 mounting |



## TOOLS REQUIRED

1/4 in. Allen wrench (T-handle preferred) | 5/16 Socket | 1/4 in. Wrench/Socket | Blue threadlocker or equivalent | Trim/upholstery removal tool (optional)

## IMPORTANT

**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.

#### **STEP 1 | REMOVE FAIRING AND FACTORY LIGHT**

Remove the fairing and existing headlight using the motorcycle manufacturer's procedure. Disconnect the light and place the fairing and factory light on a protected surface.

#### **STEP 2 | IDENTIFY UPPER MOUNTING HARDWARE**

Locate the supplied 1/4-20 socket-head bolts and washers for the upper bracket mounting points.

#### **STEP 3 | INSERT THE BRACKET**

Tilt the bracket and feed the upper-left ear and tabs into the factory mounting area.

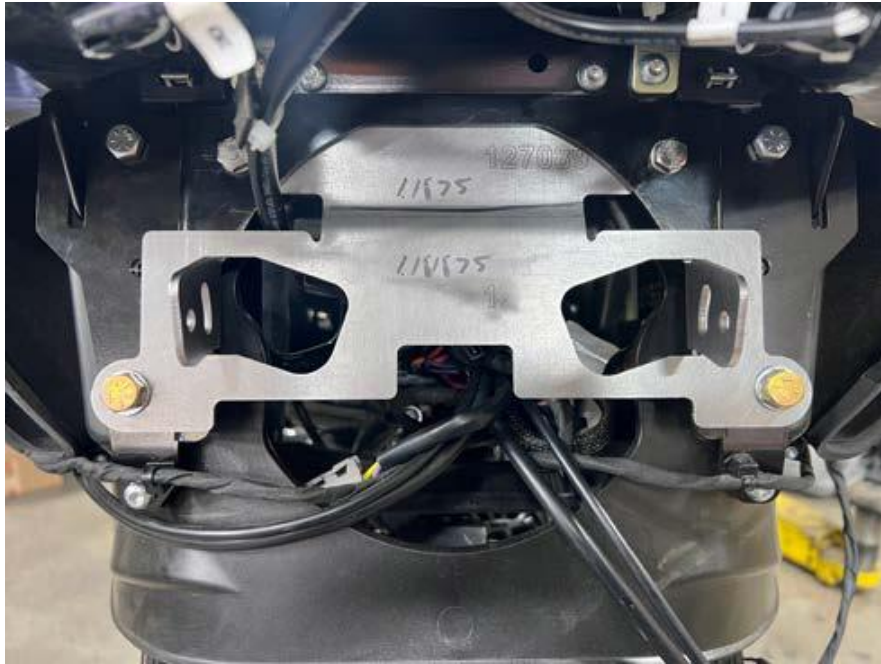
#### **STEP 4 | ROTATE BRACKET INTO POSITION**

Slide the upper portion of the bracket behind the factory mount. Insert the left side first, then rotate the bracket counterclockwise until the right side slides behind the mount. Align the threaded bracket points with the factory holes.



#### **STEP 5 | CONFIRM MOUNTING ORIENTATION**

The source reference photo may show hex-head hardware; use the supplied socket-head hardware for this kit.



#### **STEP 6 | START UPPER BOLTS**

Align the two upper holes and loosely install the two 1/4-20 socket-head bolts and washers. Do not tighten yet!

#### **STEP 7 | INSTALL LOWER SPACERS**

Place one 7/8 in. bushing spacer behind the bracket at each lower mounting hole.

#### **STEP 8 | START LOWER BOLTS**

Install the supplied 5/16 socket-head bolts and washers through the lower bracket mounting holes and spacers.

#### **STEP 9 | CHECK BRACKET ALIGNMENT**

Before tightening, verify the bracket is seated correctly, is not binding, and appears straight.

#### **STEP 10 | TIGHTEN BRACKET HARDWARE**

Once alignment is confirmed, snug all four bracket mounting bolts securely and evenly.

#### **STEP 11 | USE SUPPLIED LP6 BUTTON-HEAD BOLTS**

Do not use the standard hex bolts and washers supplied with the DOT LP6 for the light-to-bracket attachment in this recessed configuration. Use the four supplied black stainless button-head fasteners without washers to maximize fairing clearance.



#### STEP 12 | INSTALL AND PRELIMINARILY AIM THE LP6

Install all four button-head bolts. Set light angle of approximately 86.5 degrees when measured with a digital angle finder. If an angle finder is unavailable, position the motorcycle at normal rider height on level ground and begin with the beam tilted slightly downward. Final headlight aim must be verified before riding.

# FAIRING CUT-IN PROCEDURE

## STEP 13 | PREPARE FAIRING AND CUTTING TEMPLATE

Place the fairing upside down on a clean, padded surface. Position the supplied metal cutting template on the back side of the fairing and use the three retained factory headlight screws to secure and center the template.



## STEP 14 | TRACE AND CUT THE FAIRING

Apply painter tape around the work area. Trace the template with a fine-tip marker, remove the template, and carefully cut to the traced opening. Use an appropriate fine cutting tool. Deburr and smooth the cut edge using a sanding roll, file, or folded sandpaper.



## STEP 15 | CLEAN AND PROTECT THE FAIRING

Remove cutting debris and inspect the opening. Smooth any sharp or irregular edges before handling or reinstalling the fairing.

## STEP 16 | REINSTALL FAIRING AND VERIFY BOLT CLEARANCE

Reinstall the fairing and confirm the opening passes cleanly around the DOT LP6 and front light fasteners. The button-head hardware is intended to provide additional clearance. If required, carefully relieve only the minimum material necessary around the bolt-clearance area.



## FINAL CHECK

- Bracket is seated straight, and all four bracket fasteners are secure.
- DOT LP6 is secured with the four supplied black button-head fasteners.
- Fairing opening is smooth, clean, and does not contact the light or mounting hardware.
- Wiring is secure and clear of steering, heat, sharp edges, and moving parts.
- Fairing and factory hardware are fully reinstalled.
- Headlight operation and final beam 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.**