# Custom Dynamics® Low Rider ST Saddlebag LED Lights Installation Instructions

## Part Numbers

CD-LRST-SB-S, CD-LRST-SB-R

## Package Contents

Custom Dynamics® LRST Saddlebag LED Lights (2)
LRST Adapter Harness (2)
JAE Male Connectors (2)
Grommets (2)
Drill Template (1)
4" Cable Ties (10)
Cable Tie Holders (6)
Instructions (1)



## Fitment

2022-2026 Harley-Davidson® Low Rider ST (FXLRST), and 2022 Low Rider El Diablo (FXRST).

## Suggested Tools

| | |
|---|---|
| Safety Glasses | Drill |
| Side Cutters | 1/8" Drill Bit |
| Denatured Alcohol (Optional) | 9/16" Drill Bit |
| Adhesive Promoter (Optional) | |

## Installation

**⚠ Warning**

Rider and passenger safety depend upon the correct installation of this kit. Use the appropriate service manual procedures. If the procedure is not within your capabilities or you do not have the correct tools, have a qualified technician perform the installation. Improper installation of this kit could result in death or serious injury.

1. Remove all necessary parts to disconnect the negative battery cable from the battery.
2. Locate the left and right turn signal connectors under the seat on the right side and disconnect. Shown in **Figure 1**.
3. Plug the supplied LRST Adapter Harnesses in the left and right turn signal connectors in-line. Shown in **Figure 2.**

**Note**

If you have a Run/Brake/Turn module such as our CD-STP or GEN-SMART-TPU installed, the LRST Adapter Harnesses MUST be installed *before* the module. For achieving brake strobe on the Bag Lights, please refer to **Page 4.**
Left turn signal: **Grey** connector on motorcycle and **violet** color heat shrink on LRST Adapter Harness.
Right turn signal: **Black** connector on motorcycle and **brown** color heat shrink LRST Adapter Harness. Shown in **Figure 2.**

4. Use supplied Drill Template to mark and drill hole for LRST Saddlebag LED Lights wiring to go through. **Figures 3 and 4** show the correct alignment and orientation of the **left** side saddlebag and **Figures 5 and 6** show the correct alignment and orientation of the **right** side saddlebag.
5. Remove both saddlebags from the motorcycle and drill a small 1/8" pilot hole at the mark made with Drill Template, then drill hole to final size to 9/16".
6. Clean the area for placement of the LRST Saddlebag LED Lights with denatured alcohol, allow 1-2 minutes to dry.

**Questions? Email: Info@CustomDynamics.com or Call us at: 1(919)554-0949 M-TH 8:30AM-5:30PM, F 9:30AM-5:30PM EST**

## Installation Instructions Continued - 2

7. Remove the protective red film from the back and install the LRST Saddlebag LED Lights, feeding the wiring through the hole then place onto the saddlebags and press into place to ensure both sides are even and in the center on both saddlebags. Shown in **Figure 7.**

**Notice**

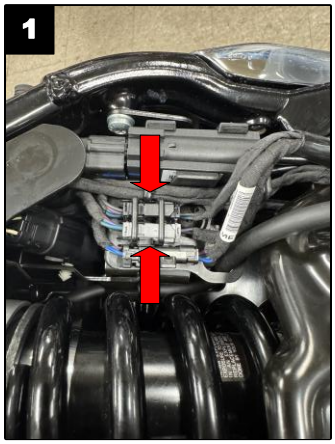
**DO NOT** apply too much pressure in the center of the Saddlebag LED Light. This can cause the lens to crack and **WILL NOT** be covered under warranty.

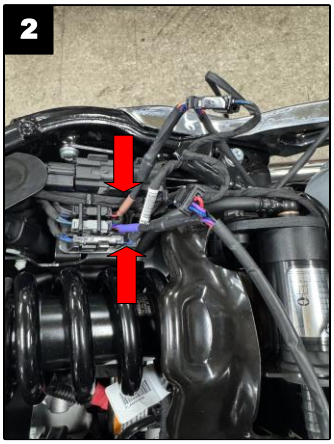
8. Select 2 locations for the supplied Cable Tie Holders on the inside of the saddlebag. Clean area with denatured alcohol, allow 1-2 minutes to dry. Remove paper backing on the Cable Tie Holders and press into place. Shown in **Figure 8.**
9. Route wires from the LRST Saddlebag LED Lights to each Cable Tie Holder location and secure with supplied Cable Ties to prevent wires from becoming cut, frayed or pinched. Shown in **Figure 8.**
10. Drill a small 1/8" pilot hole and the final size to 9/16" for the supplied Grommet to be installed and feed wiring through Grommet. Shown in **Figure 9.**
11. Install the supplied JAE Connectors onto the pre-pinned wires on the LRST Saddlebag LED Lights by pushing the pins into the connector ports shown in **Figure 10.**

**Note** JAE Connector Pinning

Click the box on the right for specific instructions on how to pin a JAE Connector.

12. Select location for the last supplied Cable Tie Holder to be placed on the outside of the saddlebag close to the Grommet. Clean area with denatured alcohol, allow 1-2 minutes to dry. Remove paper backing on the Cable Tie Holders and press into place. Shown in **Figure 11.**
13. Reinstall the saddlebags. Connect the black 4-pin JAE connector from the LRST Saddlebag LED Lights to the LRST Adapter Harness. Violet heat shrink is the left side and the brown heat shrink is the right side. Route the wires from each side saddlebag under the fender strut and secure LRST Adapter Harness wires with supplied Cable Ties from being cut, frayed or pinched. Shown in **Figures 12 and 13.**
14. Reconnect the negative battery cable to the battery and reinstall all necessary parts.
15. Test the new Custom Dynamics® Low Rider ST Saddlebag LED Lights for proper operation.















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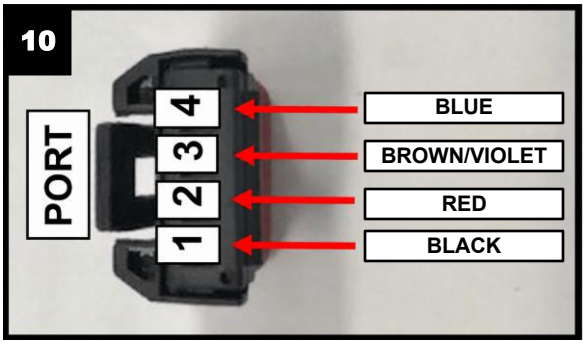
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**Tech Tip**

If certain **Run/Brake/Turn** functions are not desired, leave the corresponding wire terminal unpinned in the connector. **Blue wire:** Run, **Red wire:** Brake, **Brown/Violet wire:** Turn.

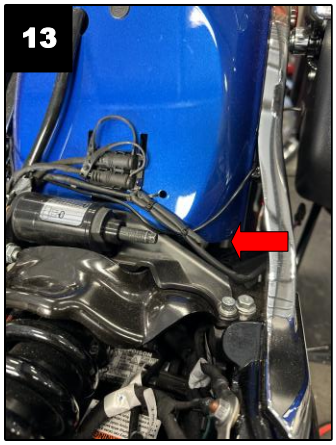
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**CD-LRST-SB: Brake Strobe Modification with CD-STP.**

This modification will allow the LRST Bag Lights to strobe when used with our CD-STP-18ST or CD-STP-25ST (**sold separately**).

The Red brake wire in each LRST Adapter Harness must be cut and connected to the brake output wire of the CD-STP module.

