



Installation Instructions

Kodlin 3-1 Rear Fender Strut Indicators K68489 and K68490

Experience with soldering electric cables is necessary to install this product. We recommend working with a certified motorcycle shop.

1. Secure the motorcycle, turn the ignition off, disconnect the battery or remove the main fuse. Deactivate the alarm system or make sure that the key fob is close to the bike. Prior to disconnecting the electricity, the ignition needs to be turned on. Check your manual for details.
2. We recommend testing the functionality of the module prior to installation.
3. Remove the seat
4. Disconnect the connectors of both rear indicators and tail / LP lamp (see figure 1) making sure there are no zip ties holding wires to facilitate fender removal.

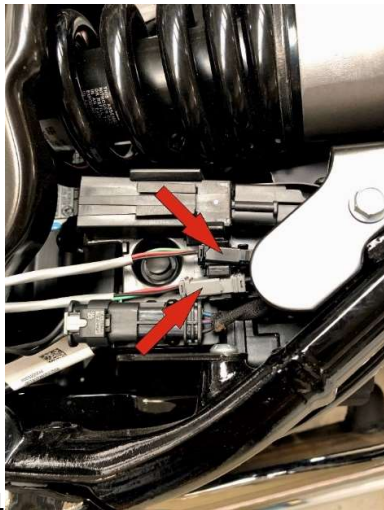


Fig. 1

5. Remove the four fender strut bolts and remove the rear fender (see figure 2)

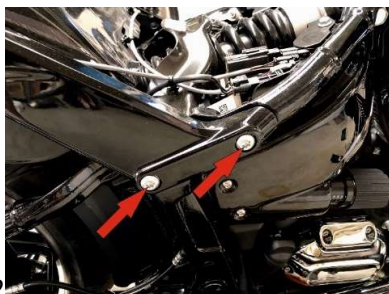


Fig. 2

6. Remove the fender struts. (see figure 3 / 4)



Fig. 3



Fig. 4

7. Cut the stock indicator wires approx. 8-10cm / 3-4" next to the stock indicators.
8. Remove the stock indicators.
9. Install the Kodlin indicators with "Blue Loctite[®]" or similar medium strength thread locker. (see figure 5)



Fig. 5

10. Trim the end of the bike and the Kodlin indicators wires to the right length. Solder and insulate the wires.

Cable Connection:

Black – Ground (-)

Red – Brake Light (+)

Yellow – Running Light (+)

Brown – Turn (+)

Tip:

The black(right) and grey(left) 4 pin connectors under the seat already have 4 wires populated on the main harness side of connector. Pin1= running(Blue), pin 2= turn signal(Blue/Violet left TS, Blue/Brown right TS), pin 3=brake(Blue/Red), pin 4=ground(black). We suggest using these wires for running 3-1 LED's. On some models this will mean running 1-2 more wires from connector down to 3-1 LED wires since the OEM turn signals may not be wired for additional circuits. Detailed diagram on last page.

11. Install the fender struts to the rear fender using medium strength thread locker.
12. Install the rear fender and fender struts to the frame using medium strength thread locker.
13. Reconnect the two indicator connectors (reverse item 4).

14. Reconnect battery or power by reversing the steps in item 1.
15. Test all lights for proper function.

Tip:

The flashing speed may change when replacing the original indicators. For bikes with a BCM turning on your emergency flashers for 5-10 minutes should allow your BCM to adjust for the new load. If that is not the case the installation of a load equalizer will solve that problem. (we like the 27 Ohm Paaschburg and Wunderlich / Hightsider brand part number 207-020)

16. Install seat.

Note:

It is the installer's responsibility to ensure that all the fasteners are tightened before operation of the motorcycle (we recommend following the Mfg.'s torque specs). Kodlin will not provide warranty coverage on products or components lost due to improper installation or lack of maintenance. Periodic inspection and maintenance are required.

Tip:

On all models that only have stock turn signals functioning as run/turn/brake lights you must have your BCM taillight configuration set to "Dedicated taillight" This is typically done at Harley dealership or shop with that capability. This will stop brake signal voltage from going to pin 2 and causing an amber LED brake light. Brake signal will now only go through pin 3 for proper red LED brake light.

For European models:

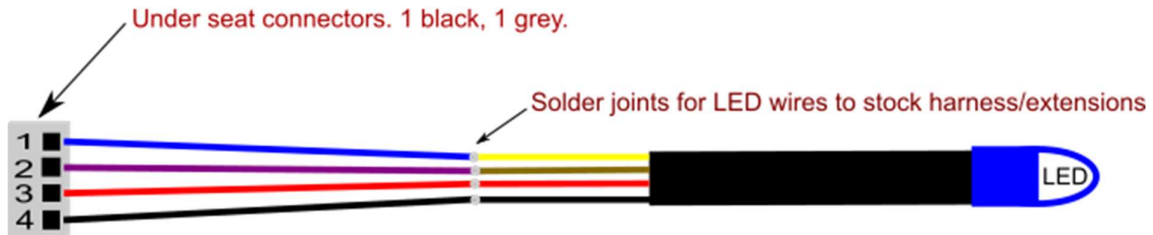
These 3-1 rear indicators are ECE approved for installation on the rear of the motorcycle when mounted on the fender struts as highlighted in these instructions. That means no registration or carriage of documentation is necessary.

Typical Milwaukee 8 Softail Rear Turn Signal Other models may vary!



Pin position 1, Blue=Running light(open on some models)
 Pin Position 2, Violet=Turn Signal
 Pin Position 3,Open
 Pin position 4, Black=Ground

Kodlin Neowise 3-1 Rear LED Indicator



Pin position 1, Blue=Running light to LED yellow wire
 Pin Position 2, Violet=Turn Signal to LED brown wire
 Pin Position 3, Blue/Red=Brake light to LED red wire
 Pin position 4, Black=Ground to LED black wire
 Wire extensions may be needed to fill pin position 1 and 3
 depending on your model of bike.

LED Wire Colors
 Yellow=Running Lights
 Brown= Turn Signal
 Red=Brake
 Black= Ground

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