



# INSTALLATION

## REAR LIGHTING KIT for FLHX/FLTRX 5415

### PARTS INCLUDED

- 1 L.E.D. Turn Signal Bar Filler Panel
- 1 Pair of Two-Circuit L.E.D. Turn Signal Inserts
- 1 Curved License Plate Mount
- 1 Hardware Kit Containing:
  - 1 Pulsating Brake Light Controller
  - 1 3-Pin Accessory Harness for Pulsating Brake Light Controller
  - 1 Self-Regulating Load Equalizer
  - 4 4" Cable Ties
  - 2 Dielectric Grease Packs
  - 4 1/4"-20 X 7/16" Flat Socket Cap Screws
  - 2 Adhesive Foam Blocks
  - 2 Alcohol Pads
- 1 Installation Instructions

Please read and understand entire instructions before starting installation.

### THANK YOU FOR CHOOSING KÜRYAKYN!

**IN ORDER TO PROTECT YOU AND OTHERS FROM POSSIBLE INJURY AND/OR PROPERTY DAMAGE OR LOSS, PLEASE PAY CLOSE ATTENTION TO ALL INSTRUCTIONS, WARNINGS, CAUTIONS AND NOTICES REGARDING THE USE AND CARE OF THIS PRODUCT.**

#### WARNING

**THIS INDICATION ALERTS YOU TO THE FACT THAT IGNORING THE CONTENTS DESCRIBED HEREIN CAN RESULT IN POTENTIAL DEATH OR SERIOUS INJURY.**

#### NOTICE

**This indication alerts you to the fact that ignoring the contents described herein may negatively affect product performance and functionality.**

#### NOTICE

**IF INSTALLING THIS PRODUCT FOR ANOTHER PARTY, PLEASE MAKE SURE THEY RECEIVE THIS COPY OF THE INSTALLATION INSTRUCTIONS SO THEY ARE AWARE OF THE IMPORTANT INFORMATION CONTAINED IN THEM.**

### TOOLS SUGGESTED

Set of Hex Wrenches, Set of Combination Wrenches

**STRICTLY OBSERVE THE FOLLOWING GUIDELINES IN ORDER TO USE THE PRODUCT PROPERLY AND AVOID POTENTIALLY DANGEROUS ACCIDENTS.**

#### STEP 1

Read and understand all steps in the instructions before starting the installation. Park the motorcycle on a hard, level surface and turn off the ignition. Let cool.

#### WARNING

**YOU WILL BE WORKING AROUND THE ENGINE AND EXHAUST SYSTEM DURING INSTALLATION. ENSURE THAT THE ENGINE AND EXHAUST SYSTEM HAVE FULLY COOLED TO PREVENT INJURY.**

### CUSTOMER SERVICE

877.370.3604 (toll free)

### INSTALLATION QUESTIONS

techsupport@kuryakyn.com  
or call 715.247.2983

### LIMITED WARRANTY

Kuryakyn warrants that any Kuryakyn products sold hereunder, shall be free of defects in materials and workmanship for a period of one (1) year from the date of purchase by the consumer excepting the following provisions:

- Kuryakyn shall have no obligation in the event the customer is unable to provide a receipt showing the date the customer purchased the product(s).
- The product must be properly installed, maintained and operated under normal conditions.
- Kuryakyn makes no warranty, expressed or implied, with respect to any gold plated products.
- Kuryakyn shall not be liable for any consequential and incidental damages, including labor and paint, resulting from failure of a Kuryakyn product, failure to deliver, delay in delivery, delivery in nonconforming condition, or for any breach of contract or duty between Kuryakyn and a customer.

• Kuryakyn products are often intended for use in specific applications. Kuryakyn makes no warranty if a Kuryakyn product is used in applications other than intended.

• Kuryakyn electrical products are warranted for one (1) year from the date of purchase by the consumer. L.E.D.'S contained in components of Kuryakyn products will be warranted for defects in materials and workmanship for 3 years from the date of purchase where as all other components shall be warranted for one(1) year. This includes, but is not limited to; control modules, wiring, chrome & other components.

• Kuryakyn makes no warranty of any kind in regard to other manufacturer's products distributed by Kuryakyn. Kuryakyn will pass on all warranties made by the manufacturer and where possible, will expedite the claim on behalf of the customer, but ultimately, responsibility for disposition of the warranty claim lies with the manufacturer.

### ABOUT OUR CATALOG

For purchasing Kuryakyn® products, you can receive a complete catalog free of charge.

Send the Proof-of-Purchase below with your address to: Kuryakyn, P.O. Box 339, Somerset, WI 54025.

Please indicate either Accessories Catalog for Harley-Davidson® or GL & Metric Cruisers.

Be sure to ask your local dealer about other Kuryakyn® products, the motorcycle parts and accessories designed for riders by riders.

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**NOTICE**

**Avoid damage to the motorcycle. Protect painted surfaces with a soft cloth or blanket.**

**STEP 2** On the inside of the rear fender, remove the two bolts that secure the taillight bar. Be sure you have a towel or rag to cover the rear fender (painted surface). Set the bolts aside for reinstallation of the light bar.

**STEP 3** Gently push the rubber grommet out of the fender from the back. Leave it attach to the wire harness, you will eventually route the filler panel light in this grommet. PIC 1

**STEP 4** On the backside of the new filler panel, loosen the two outer fasteners clips. PIC 2 Rotate these clips to the center of the light. Leave a little tension on the clips so they do not rotate around while installing the panel to the light bar. These clips are used to secure the filler panel to the light bar.

**STEP 5** While holding the light bar, take the new turn signal filler panel and route the wires down the back side of the light bar and through the grommet hole in the fender. Place the filler panel on top of the light bar and gently slide it towards the front side of the bar (or away from the fender). Make sure the panel is spaced evenly on the light bar. With masking tape, make marks necessary to aid alignment of the new filler panel. Make sure the corners of the filler panel will not hit the fender when the turn signal bar is reinstalled to the rear fender

**STEP 6** Clean the light bar with the supplied alcohol pad.

**NOTICE**

**Ensure the area of installation is free of grease, oil, dirt or other debris including wax/polish products and bugs to ensure proper adhesion. Küryakyn WILL NOT issue a warranty on any parts lost due to improper installation.**

**STEP 7** Once you have your marks you need for the final installation, remove the filler panel. Rub the tape backing on the backside of the filler panel with your fingernail.

**NOTICE**

**The adhesive will not bond correctly if applied at temperatures less than 50°F. Do not attempt this installation in temperatures less than 50°F.**

**STEP 8** Remove the backing and line up marks made in STEP 5. Make sure the corners of the filler panel will not contact the fender when the turn signal bar is fully tightened. When positioned, press firmly down on the panel for one full minute. Full bonding will happen in 24 hours.

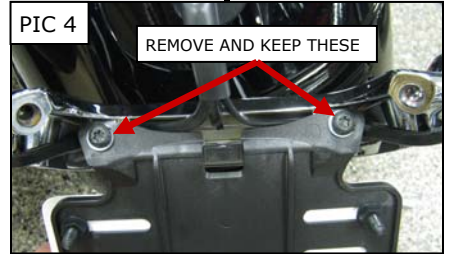
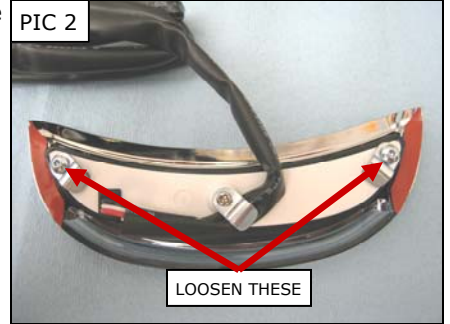
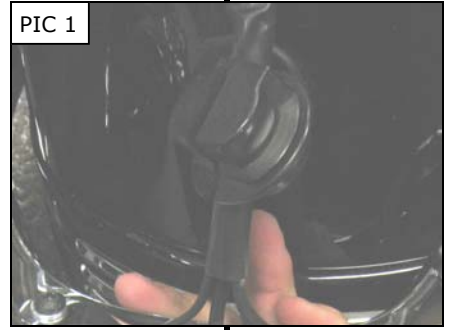
**STEP 9** On the new turn signal filler bar, slide the fastener clips over to lock the filler bar to the taillight bar. PIC 3 Tighten the two button head cap screws that secure the fastener clips.

**STEP 10** Identify the two screws (PIC 4) that secure the stock license plate bracket and remove them. Set them aside, you will reuse this hardware with the new bracket. Set the stock bracket aside, it will not be reused.

**STEP 11** Take the new Back Plate (PIC 5) and secure it to the light bar with the screws that were removed in Step 3.

**STEP 12** Take the wire from the new turn signal filler panel and route it next to the other wire that goes through rubber grommet. Press the rubber grommet back in to place from the outside of the fender. You may have to wiggle the grommet into the hole by grabbing it on the inside of the fender. PIC 6

**STEP 13** Let the wire rest on the floor; reinstall the stock rear taillight bar with the hardware that was removed in Step 2. Tighten securely.



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**STEP 14** As shown in PIC 7, place the 1/2" Bumper Pads between the new Back Plate and the rear fender. Clean with an ammonia based cleaner such as window cleaner and dry the rear fender where the Bumper Pad will be installed. Peel the adhesive tape backing from the Bumper Pads, stack one on top of the other and stick to the fender over the plastic plug.

**NOTE:** The bumper pads are provided to avoid excess vibration to the plate mount. The bumper pads may fit tightly when stacked and put in place behind the plate mount.

**STEP 15** Once you have the Back Plate secured you can install the license plate by gently molding your license plate to the same bend as the back plate. PIC 8 Install the license plate frame over your plate by getting all four supplied fasteners (1/4"-20 X 7/16" flat socket cap screws) started first, then tightening them. This will work better than tightening up one at a time.

**NOTE:** Due to the varying sizes of license plates, modification of the plate may be necessary to make it fit. If the plate fits loosely in the frame, adhesive foam strips can be installed between the Back Plate and the license plate to help stop vibration and avoid damage to the new frame or license plate.

**NOTICE**

It is the installer's responsibility to ensure that all of the fasteners (including pre-assembled) are tightened before operation of the motorcycle. Kuryakyn will not provide warranty coverage on products or components lost due to improper installation or lack of maintenance. Periodic inspection and maintenance are required on all fasteners.

**STEP 16** Remove the stock lens by grasping it firmly and pulling away from the chrome housing while twisting. If the lens is difficult to remove, turn the lens until you see a small "pry slot". PIC 9 Insert a flat tip screwdriver in the slot and twist gently until the lens pops out. Remove the bulb from the light socket by pushing it inward gently and twisting it counter clockwise.

**NOTICE**

Kuryakyn recommends the use of dielectric grease on electrical connections.

**STEP 17** Notice the position of the pins on the connector and install as shown in PIC 10. Apply dielectric grease and push it in gently and turn clockwise. Using a screwdriver in the slot on the connector may ease installation. PIC 11

**STEP 18** Install the lens assembly by pushing it into the light housing until it snaps into place.

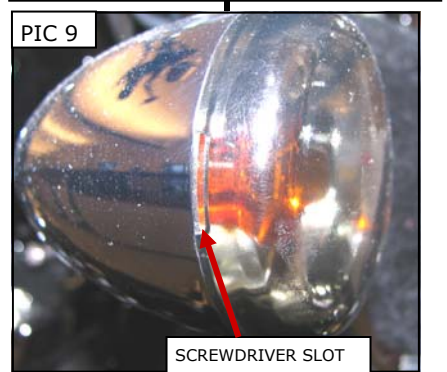
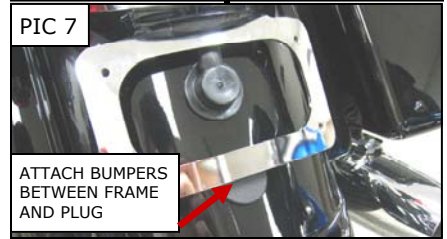
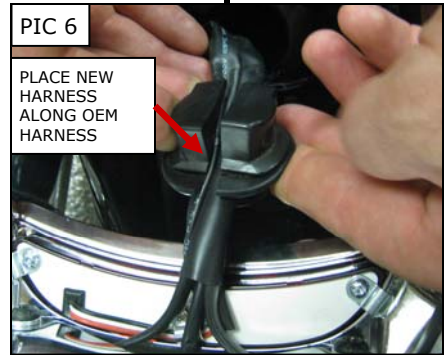
**STEP 19** Remove the left side saddlebag and side cover to gain room to route the wire.

**STEP 20** Route the wire from the signal filler panel along the OEM rear wire harness that runs from the bottom of the fender up to the side cover. Use the provided cable ties to secure the wires together.

**NOTICE**

Secure all wiring from the newly installed and/or from existing parts, away from any moving parts, pinch points or extreme heat. Kuryakyn WILL NOT issue a warranty on any electrical component that fails due to pinched, crimped, broken, abraded, melted or frayed wires.

**STEP 21** Locate the 6-Pin connector wiring harness for the taillights. This is behind the left (clutch side) side cover. PIC 12



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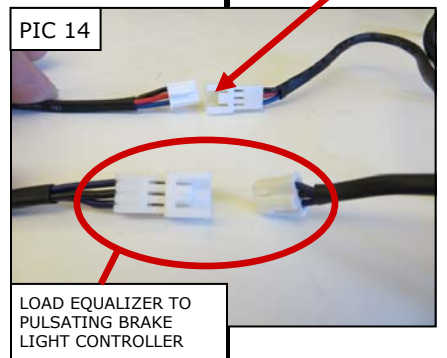
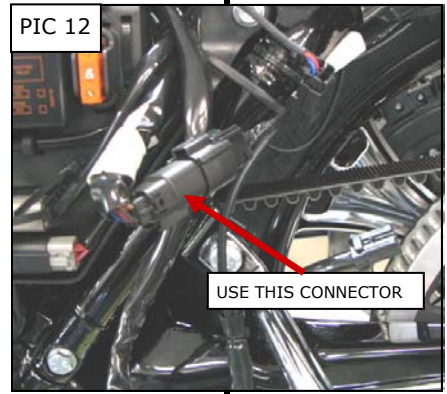


**STEP 22** Unplug the connectors. Place a little of the included dielectric grease on each connector. Locate the Pulsating Brake Light Controller from the hardware kit and plug into both ends of the connectors.

**STEP 23** Locate the 3-Pin Accessory Harness from the hardware kit. Apply a little of the included dielectric grease to the small female connector and connect it to the small male 3-pin connector on the Pulsating Brake Light Controller. PIC 13 and PIC 14

**STEP 24** Place a small amount of dielectric grease on the large male 3-pin connector on the Accessory harness and plug it into the 3-pin female connector from the Turn Signal Bar filler Panel.

**STEP 25** Locate the Self-Regulating Load Equalizer from the hardware kit. Place a small amount of dielectric grease to the male 3-pin connector on it and plug it into one of the small female 3-pin connectors on the Pulsating Brake Light Controller. PIC 14



**NOTE:** This Load equalizer will compensate for front and rear L.E.D. turn signals. All Küryakyn or other load equalizers will need to be removed.

**NOTE:** When using the four-way flashers the load equalizer will turn off. The alarm "key" indicator light on the dash will light. This will not effect the operation of the turn signals and will reset when the four way flashers are turned off and the ignition switch is turned off.

**NOTE:** Abnormally prolonged activation of a turn signal may cause the alarm "key" indicator to light and or cause the turn signal to flash rapidly. Turning the turn signal off and allowing the equalizer to cool will restore normal flashing. The alarm "key" indicator will remain lit, but the motorcycle will function normally, until the ignition is turned off, to reset the load equalizer.

**NOTE:** If, after the load equalizer is installed, the turn signals flash rapidly, you may need to synchronize the load equalizer to the turn signal system. Do this by turning either turn signal on for 5 flashes. Turn that signal off and turn on the other signal for 5 flashes. Turn the motorcycle off. Turn the motorcycle on and verify the signals flash at the correct rate.

**STEP 26** Secure all wiring out of harms way.

**NOTICE** Secure all wiring from the newly installed and/or from existing parts, away from any moving parts, pinch points or extreme heat. Küryakyn WILL NOT issue a warranty on any electrical component that fails due to pinched, crimped, broken, abraded, melted or frayed wires.

**STEP 27** Start the motorcycle and test that all lights operate correctly and that the brake light pulses when the lever is pulled or the pedal is depressed.

**WARNING** ENSURE PROPER LIGHT OPERATION BEFORE RIDING THE MOTORCYCLE. VISIBILITY IS A MAJOR CONCERN FOR MOTORCYCLISTS. A LIGHT MALFUNCTION COULD RESULT IN DEATH OR SERIOUS INJURY.

**STEP 28** Replace the side cover and saddlebag.