

## INSTALLATION INSTRUCTIONS

ECE 3-1/4" FLAT STYLE AMBER L.E.D. TURN SIGNAL INSERTS, AMBER LENS

5470

### THANK YOU FOR CHOOSING KURYAKYN!

Protect yourself and others from possible injury and property damage or loss. Pay close attention to all instructions, warnings, cautions, and notices regarding the installation, 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.

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

**NOTICE** THIS INDICATION ALERTS YOU TO THE FACT THAT IGNORING THE CONTENTS DESCRIBED HEREIN MAY NEGATIVELY AFFECT PRODUCT PERFORMANCE AND FUNCTIONALITY OR DAMAGE THE PRODUCT ITSELF OR THE PRODUCT TO WHICH IT IS BEING ATTACHED.

### ENSURE THAT THE FOLLOWING PARTS HAVE BEEN INCLUDED IN THE KIT:

- 2 ECE 3-1/4" Flat Style L.E.D. Turn Signal Inserts
- 1 Load Equalizer with Scotch Lock Wire Connectors
- 1 Dielectric Grease Pack

### YOU WILL ALSO NEED:

#2 Phillips head Screwdriver

**NOTICE** THESE INSTALLATION INSTRUCTIONS CONTAIN IMPORTANT INFORMATION. ENSURE THE END USER RECEIVES THIS COPY AND IS AWARE OF ITS IMPORTANCE FOR FUTURE USE.

**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 motorcycle cool.

**STEP 2** Remove the two screws securing the existing lens; discard the lens save the screws for re-use.

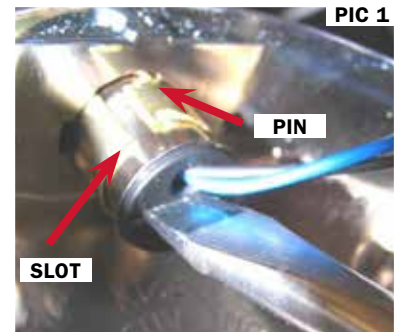
**STEP 3** Remove and discard the existing bulb; press the bulb inward then rotate it counterclockwise; pull the bulb straight out.

**NOTICE** DIELECTRIC GREASE INHIBITS MOISTURE AND PREVENTS CORROSION. KURYAKYN RECOMMENDS THE USE OF THE INCLUDED DIELECTRIC GREASE ON ALL ELECTRICAL CONNECTIONS.

**STEP 4** Apply some of the included Dielectric Grease to the end of the new LED Insert connector. Refer to PIC 1. Align the pins and slots; use a flat blade screwdriver to carefully push the Insert connector into the socket, then rotate it clockwise.

**STEP 5** Refer to PIC 2. Secure the Insert to the fixture with the stock screws. DO NOT OVER-TIGHTEN THE SCREWS; over-tightening may cause lens breakage

**STEP 6** Repeat for the other side.



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

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### VERIFYING CORRECT OPERATION OF THE INSERTS:

CAN bus electrical systems are found on all '11-later Softails, '12-later Dynas, '14-later Sportsters, and '14-later Touring and Tri-Glide models. CAN bus motorcycles can also be identified by the hazard (4-ways) button located on the brake-side (right) hand controls as shown in PICs 3 and 4. Refer to the procedure below for CAN bus system bikes, for all other models refer to the procedures on PAGE 3.

### CAN BUS SYSTEM MODELS:

**IMPORTANT** Load equalizers are not necessary on CAN bus systems when LED Turn Signal Inserts are installed.

**STEP 7** Start the bike and check for proper turn signal operation. If the turn signals flash rapidly on Can bus system bikes, you will need to synchronize the turn signal system. Follow the procedure below to synchronize:

Turn the ignition ON,

Turn on the 4-way flashers for at least 20 seconds; shut the 4-way flashers off,

Turn the ignition OFF,

Turn the ignition back ON; check for proper turn signal operation,

You may need to repeat the procedure if the signals still flash rapidly.

*Note: Diagnostic Trouble Codes (DTC) may be triggered during initial start-up when using LED Turn Signal Inserts. Follow the procedure below to check and clear DTCs.*

### CLEARING DIAGNOSTIC TROUBLE CODES (DTCs)—CAN BUS MODELS

*Note: Before clearing any codes, confirm that the LED Turn Signal Inserts illuminate and flash correctly.*

*Refer to PICs 5, 6 and 7. To enter diagnostic mode, press and hold the trip odometer reset switch located on the left handlebar control, while turning the IGN ON.*



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Release the trip odometer reset switch when "DIAG" appears on the odometer display.

Press and release the trip odometer reset switch until "BCM" is displayed on the odometer display.

"BCM Y" = Yes DTC set. "BCM N" = No DTC set.

If "BCM Y" is displayed, press and hold the trip odometer reset switch.

If any DTC's (diagnostic trouble codes) are stored in the module, the odometer will display the DTC. Quickly pressing and releasing the trip odometer reset switch will cycle through the stored DTCs.

When all the DTCs have been cycled the odometer will display "END". Continue to quickly press and release the trip odometer reset switch to cycle through the DTCs again.

*Note: The only DTCs you will be clearing are as follows:*

- b2141 Left front turn signal output open*
- b2146 Right front turn signal output open*
- b2151 Left rear turn signal output open*
- b2156 Right rear turn signal output open*

*To clear the DTCs listed above, press and hold the trip odometer reset switch while the DTC is displayed until "CLEAR" appears on odometer display.*

Press and release the trip odometer reset switch again to continue to the next module. Repeat for any other code listed above.

Turn the IGN OFF to exit the diagnostic mode. Wait for any security lights to flash and repeat the procedure to ensure that the DTCs have been cleared.

### VERIFYING CORRECT OPERATION OF THE INSERTS (ALL OTHER MODELS):

#### STEP 8

Start the bike and check for proper turn signal operation. If the turn signals illuminate, but do not flash; flash normally several times then flash rapidly; or, if the security system warning light remains lit; then the included Load Equalizer will need to be installed. Follow the procedures be-low:

If the bike is equipped with a Kuryakyn Run-Turn-Brake Controller, plug the Load Equalizer into an unused 3-pin connector on the module.

CLUTH-SIDE (LEFT) PIC 5



TRIP ODOMETER RESET SWITCH ON TOURING MODELS



TRIP ODOMETER RESET SWITCH ON SOFTTAILS, SPORTSTER AMD DYNA

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If there is an existing load equalizer connected and no additional 3-pin connectors available:

Cut the 3-pin connector off of the included Load Equalizer,

Use the included Scotch Locks to splice the wires to the like-colored wires on the Load Equalizer already in place. Refer to PIC 8 on PAGE 4.

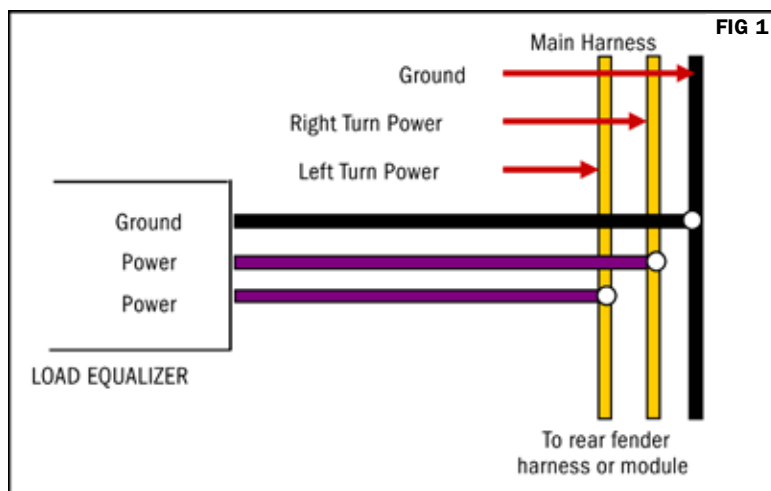
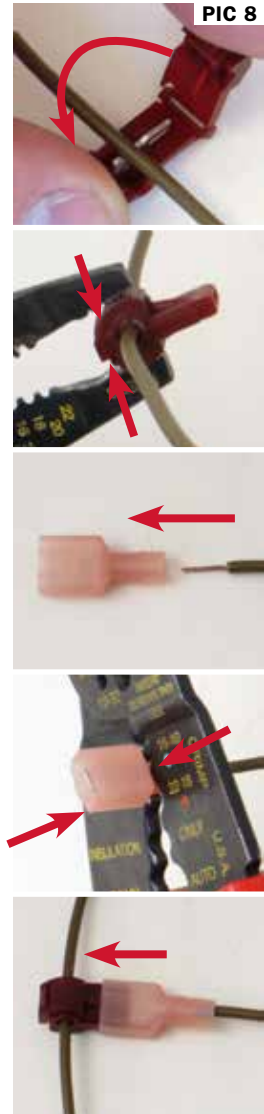
If the bike is not equipped with a Kuryakyn controller of any sort:

Use a test light or wiring schematic to locate the left and right turn signal power wires and a ground wire. Typically the easiest access is beneath the seat or behind a side cover. Refer to FIG 1 and PIC 8. Cut the 3-pin connector off of the included Load Equalizer and use the included Scotch Locks to connect one violet wire from the Load Equalizer to the bike's right turn power wire. Connect the other violet wire from the Load Equalizer to the bike's left turn power wire. Connect the black wire from the Load Equalizer to the ground wire. Test for the proper function of the turn signals.

*Note: If you do not wish to splice into the bike's wiring, Kuryakyn offers plug-in Load Equalizer Adapters (P/N 4837, or P/N 5499, sold separately) that fit most '96-later H-D models. These adapters connect to the stock wiring harness under the seat or behind the side cover (ensure that these are being connected upstream from any other multi-function controller) and provide connectors that will accept the Load Equalizer.*

*Upgrade reliability and convenience with the Self-Regulating Load Equalizer (P/N 5498, sold separately). It is compatible with all H-D Factory Security Systems and won't overheat, even when subjected to 4-way flashers, non-stop security system flashing while trailering, or when stuck at never ending red traffic lights.*

*For use with Kuryakyn Run-Turn-Brake Controllers and Load Equalizer Adapters on H-D models equipped with factory security. Not required for '11-'13 H-D Softail & '12-'13 H-D Dyna models.*



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**WARNING**

AFTER INSTALLING THE SEAT, PULL UP ON IT TO ENSURE IT IS LOCKED INTO PLACE. A LOOSE SEAT CAN SHIFT AND CAUSE LOSS OF CONTROL RESULTING IN SERIOUS INJURY OR DEATH.

**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.

**NOTICE**

DO NOT SECURE THE LOAD EQUALIZER TO THE CONTROL MODULE! EXCESS HEAT FROM THE LOAD EQUALIZER COULD DAMAGE THE CONTROL MODULE.

SECURE ALL WIRING 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.

IT IS THE END USER'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.

### LIMITED WARRANTY

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

1. 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).
2. The product must be properly installed, maintained & operated under normal conditions.
3. Kuryakyn shall not be liable for any consequential & incidental damages, including labor & 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 & a customer.
4. 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.
5. 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 & workmanship for 3 years from the date of purchase whereas all other components shall be warranted for one (1) year.
6. All warranty claims must be directed to the place of purchase. Merchandise sold through internet auction sites or any other unauthorized reseller shall not carry a Kuryakyn warranty. If unsure, please contact the place of purchase to verify they are an authorized Kuryakyn reseller.

### RETURN POLICY

Merchandise determined to be defective may be returned up to one year from the date of purchase. Returns must be processed through original seller. Returned merchandise for any other reason other than warranty claims must be in like new condition & subject to a 20% restocking fee. All returns are subject to inspection for determination of full or partial credit. Any returned part that shows evidence of being used or installed contrary to manufacturer's instructions, &/or subjected to improper handling, packaging or return shipping by the customer, will not be eligible for exchange, refund or warranty consideration. All returned electrical items will be inspected & tested. If electrical item is deemed functional, no credit will be issued & item will be returned. All sales are final on discontinued or closeout merchandise.

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