



# INSTALLATION



## REAR RUN-TURN-BRAKE CONTROLLER 4859

**DIRECT PLUG-IN FOR: '96-UP SOFTAILS, '97-UP TOURING MODELS (DRESSERS, ROAD KINGS, ROAD GLIDES, ETC.), '97-UP DYNAS, AND '99-'03 SPORTSTERS.**

**INSTALLATION ON '04-UP SPORTSTERS REQUIRES 6-PIN TO 8-PIN ADAPTER, P/N 4831 (SOLD SEPARATELY).**

**INSTALLATION ON '91-'95 SOFTAILS, '91-'96 TOURING MODELS (DRESSERS AND ROAD KINGS), '91-'96 DYNAS, AND '91-'98 SPORTSTERS REQUIRES 8-PIN HARDWIRE ADAPTER, P/N 4832 (SOLD SEPARATELY).**

PART #	INCLUDED
604859	1 Run-Turn-Brake Controller Including: 1 "FLASH" Tab 1 Load Equalizer 1 Dielectric grease
304859	1 Installation Instructions

*Please read and understand entire instructions before starting installation.*

### THANK YOU FOR CHOOSING KÜRYAKYN!

#### IMPORTANT INFORMATION: PLEASE READ BEFORE BEGINNING INSTALLATION

- This module is designed to work on motorcycles with rear wiring in stock-like configuration. If the motorcycle is already equipped with an H-D accessory control module or other aftermarket control module, it must be removed before installing the Kuryakyn Run-Turn-Brake Controller.
- The Kuryakyn Run-Turn-Brake Controller is compatible with stock single circuit turn signals as well as custom single circuit lights. If the stock turn signals have been replaced with stock-style two-circuit lights or custom two-circuit lights, do not install the Kuryakyn Run-Turn-Brake Controller until the motorcycle is once again equipped with single circuit lights and the motorcycle's wiring has been return to its stock configuration.
- Any existing load equalizers should be removed prior to installation of the Kuryakyn Run-Turn-Brake Controller. If for some reason they are still needed after installation of the Run-Turn-Brake Controller, they can be reinstalled as directed in STEP 5c. There should NEVER be a load equalizer installed between the Run-Turn-Brake Control Module and the rear lights!
- This plug-in module adds a "Run", "Turn", and "Brake" function to existing single circuit OEM, halogen Silver Bullet, or single circuit LED rear turn signals. To comply with State or Federal regulations, the turn signals must be equipped with red lenses or red LEDs.
- It is possible that when installed on motorcycles equipped with H-D security systems, the security system warning light may stay illuminated. This is a "false alarm" only – alarm operation will be unaffected. If this warning light proves bothersome to you, it may be eliminated with the addition of the Alarm Compatible Load Equalizer, P/N 4857, sold separately.

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#### 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. Components of Kuryakyn products containing L.E.D.s will be warranted for defects in materials and workmanship for 3 years from the date of purchase.
- 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

You'll find all our innovations for H-D, GL and Metric Cruisers in our annual catalogs. Order online today—select the "CATALOGS" icon. Each Kuryakyn™ product comes with a Proof-of-Purchase good for a complimentary catalog. Details in packaging.

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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**WARNING! ALWAYS INSTALL THE LOAD EQUALIZER UPSTREAM OF ANY EXISTING AFTERMARKET MULTIFUNCTION CONTROL MODULES. DO NOT INSTALL A LOAD EQUALIZER BETWEEN A MODULE AND THE TURN SIGNALS AS THIS WILL OVERLOAD THE MODULE. OVERLOADING WILL DAMAGE THE MODULE AND CREATE A FIRE HAZARD!**

**WARNING! LOAD EQUALIZERS GENERATE HEAT WHEN IN USE. AVOID USING THE TURN SIGNALS FOR AN EXTENDED PERIOD OF TIME, OTHERWISE THE LOAD EQUALIZER WILL OVERHEAT. NEVER OPERATE THE FOUR-WAY FLASHERS UNLESS YOU FIRST REMOVE THE LOAD EQUALIZER. OVERHEATING WILL DAMAGE THE LOAD EQUALIZER, CAUSING LOSS OF TURN SIGNAL OPERATION AND CREATES A FIRE HAZARD!**

## **PROCEDURE**

**STEP 1** Remove the seat and disconnect the negative battery cable from the battery. Refer to the security system section of your owner's manual for special precautions and procedures relating to the temporary disconnection of the battery. (If applicable)

**STEP 2** Unplug the 8-pin rear fender lighting connector (black) found either under the seat or in the left side electrical box. This connection will have plugs just like the Run-Turn-Brake Controller.

**STEP 3** Apply dielectric grease to the 8-pin connectors on the Run-Turn-Brake Controller and plug it into the motorcycles wiring harness.

**STEP 4** Re-connect the negative battery cable.

**STEP 5** Start the motorcycle and test the function of the Run-Turn-Brake Controller as follows:

- A)** Verify the tail lamp and turn signals are illuminated at "run" brightness.
- B)** Apply a brake; the tail lamp and turn signals will flash briefly then stay brightly lit as long as you continue to apply the brakes. If you wish to disable the "flash brake" feature, turn off the motorcycle and remove the flash tab from the controller with ignition in the "off" position. The tab can be reinstalled to enable the "flash brake" feature, just make sure the ignition is in the "off" position.
- C)** Test the operation of both turn signals with and without the brakes applied. If the turn signals flash unusually fast or operate erratically, turn off the motorcycle and plug the provided load equalizer into an empty 3-pin connector on the Run-Turn-Brake Controller. Start the bike and retest. If the turn signals still flash erratically, it will be necessary to add a second load equalizer. Kuryakyn LED conversions and LED Silver Bullets include a load equalizer, for other types of custom lights, we recommend purchase of Kuryakyn P/N 4810, sold separately.

Recent versions of the Run-Turn-Brake Controller are equipped with two 3-pin pigtails for connection of load equalizers. Additionally, recent versions of the 4810 load equalizer are also equipped with 3-pin connectors. If both components are so equipped, plug the second load equalizer into the second connector on the Run-Turn-Brake Controller. If the controller or load equalizer is not equipped with the white 3-pin connector, it will be necessary to splice the second controller onto the load equalizer provided with the Run-Turn-Brake-Controller. Piggyback the second load equalizer onto the first by splicing violet-to violet, violet-to-violet, and black-to-black.

**NOTE** It is normal for the load equalizer to get warm when the turn signals are operating. Never operate the 4-way "Hazard Lights" without first unplugging the load equalizer. Failure to remove the load equalizer will cause it to overheat and could possibly damage the motorcycle.

**STEP 6** Stow the Run-Turn-Brake Controller in the empty space under the seat or in the electrical box. If possible, fasten the load equalizer to a frame tube as the frame will help to dissipate heat. If that is not possible, tuck the load equalizer into an area where it will not contact any heat sensitive components.

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**REAR RUN-TURN-BRAKE CONTROLLER**

**INSTALLATION**

**STEP 7** Replace the seat and side cover if removed.

**NOTE** Illuminating the rear turn signals through the use of the Run-Turn-Brake Controller adds additional load to the motorcycle's "running light" circuit. It is uncommon, but occasionally the installation of the Run-Turn-Brake Controller overloads the "running light" circuit and causes a blown fuse. This situation can easily be rectified by interchanging the positions of the orange and blue wires in the stock connector on the input side of the Run-Turn-Brake Controller. Exchanging these two wires transfers the electrical load required to light the taillights and turn signals from the "running light" circuit to the "accessory" circuit of the motorcycle.

*Ride On!*

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