



INSTALLATION

UNIVERSAL RUN-TURN-BRAKE CONTROLLER 4710

FITS: MOST MOTORCYCLES WITH 12V ELECTRICAL SYSTEMS EQUIPPED WITH A RUN-BRAKE TAILLIGHT AND SINGLE FILAMENT REAR TURN SIGNAL ASSEMBLIES. (NOT FOR USE ON MOTORCYCLES WITH MORE THAN ONE TAILLIGHT, I.E. GOLD WINGS)

| PART # | INCLUDED |
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| 604710 | 1 Run-Turn-Brake Controller Assembly Including: 1 Run-Turn-Brake Controller 4 Scotch Lock Male Spade Connector 3 Scotch Lock Female Spade Connector |
| 604710LE | 1 Load Equalizer |
| 904710 | 1 H/W Kit Including: 1 T-Tap Female Quick Slide Connector 3 Scotch Lock Male Spade Connector 3 Scotch Lock Female Spade Connector 6 4" Black Nylon Cable Tie |
| 304710 | 1 Dielectric grease 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 converts the rear single circuit turn signals so they function as running lights, brake lights, and turn signals, it is Mandatory that the rear turn signals illuminate Red. Amber rear running lights and brake lights are not legal.
- 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.
- Apply dielectric grease to all electrical connections.

PROCEDURE

Every motorcycle will be slightly different. The procedure for removing seats, side panels or other components and the locations of wiring harnesses are found in the appropriate service manual for the model in question.

STEP 1 Remove the seat and side covers as needed to locate the wiring harness feeding the taillight and rear turn signals. Using a test light or the wiring diagram found in the factory service manual; identify the wires with the following functions:

- Left turn power
- Right turn power
- Taillight "run" power
- Taillight "brake" power

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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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STEP 2 Disconnect the negative terminal of the battery.

STEP 3 Select the location along the wiring harness to install the Run-Turn-Brake Control Module. Be sure to allow room to crimp the connectors and stow the module. If using L.E.D. or other "low-draw" type turn signals, it will also be necessary to locate a place in the general area of the module to stow the Load Equalizer.

NOTE The Load Equalizer generates heat and should be secured to a frame tube or similar structure (as a heat sink) away from the Module or other electronic components.

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!

STEP 4 Using a side cutter, cut the following wires on the motorcycle's wiring harness:

- Left turn power
- Right turn power
- Brake light power

Strip about 1/4" of insulation from the end of each wire. Crimp the appropriate Scotch Lock Spade connectors onto the end of each wire coming from the front of the motorcycle that will allow them to connect to the "Input" side of the Module. Crimp the appropriate Scotch Lock Spade Connectors onto the end of each wire coming from the rear of the motorcycle that will allow them to connect to the "Output" side of the Module. These connectors make it easy to connect the module or return the bike to its stock configuration should you ever decide to remove the Module.

NOTE The following is the color code function of the wires in the module:

- Black-Ground
- Blue-Run
- Red-Brake
- Brown-Right Turn
- Violet-Left Turn

STEP 5 The Module's wires are labeled for easy identification. Connect the Module's "Input" wires to the appropriate wires coming from the front of the motorcycle; left turn input to left turn power, right turn input to right turn power, and brake input to brake power. Connect the Module's "Output" wires to the appropriate wires coming from the rear of the motorcycle; left turn output to left turn power, right turn output to right turn power, and brake output to brake light power.

STEP 6 Install the T-Tap Female Quick Slide Connector on the taillight "run" power wire and connect the blue input power wire from the module to it.

STEP 7 Connect the module's input and output black ground wires directly to a solid chassis ground. Do not connect them to the motorcycle's ground wires or to the negative battery terminal.

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STEP 8 Reconnect the negative battery terminal and start the bike. Verify operation of all lights. 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. Küryakyn LED conversions and LED Silver Bullets include a load equalizer, for other types of custom lights, we recommend purchase of Küryakyn P/N 4810, sold separately.

STEP 9 This Run-Turn Brake Module provides an optional "Flashing Brake" feature in which the taillight and turn signals flash rapidly 5 or 6 times before remaining brightly lit each time the brakes are applied. To disable the flash feature, turn the ignition off then remove the "Flash" tab from the end of the module. The tab can be reinstalled to enable the "flash brake" feature, just make sure the ignition is in the "off" position.

STEP 10 Carefully tuck the Module and associated wiring safely away and secure with the supplied 4" black nylon cable ties. Protect the Module from direct heat sources such as oil tanks or exhaust systems. If using the Load Equalizer, tuck it away and, if possible, attach it to a frame tube or similar structure. As stated earlier, load equalizers generate heat and must not be in contact with sensitive electronic components or any other component that could be damaged by heat.

STEP 11 Replace seat and any other side covers or body panels removed in STEP 1.

Ride On!