PLUG AND PLAY TRAILER WIRING FOR HARLEY DAVIDSON

PARTS INCLUDED

1. Trailer wiring isolation relay
2. H-D trailer sub harness
3. Inline fuse and Y wire assembly with heat shrink covered butt connectors
4. Hardware kit containing
   - 6 black nylon 8" wire ties
   - 1 ¼" ring terminal
   - 1 dielectric grease pack
   - 2 1" X 2" adhesive backed hook strap
   - 2 1" X 2" adhesive backed loop strap
5. Alcohol pad
6. 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 ATTENTION NOTES 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

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

TOOLS SUGGESTED

Set of hex wrenches, Combination Wrenches, Side Cutter, Electrical Tape, a set of Screw Drivers, and a Test Light or Multi Meter

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

NOTE: Installation shown on touring model, other models may vary for relay placement

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.

STEP 2

Remove the seat and any other panels to access the battery. 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 3  Unplug the 8-pin rear fender lighting connector (black) found under the seat. (The rear 8-pin wire will usually route through the rear fender and go to the taillight.)

**ATTENTION!** Plug the new Sub Harness in **before any other components on the bike.** (i.e. run-turn-brake module).

STEP 4  Take the new sub harness and connect the proper plugs between the 8-pin connector. **PIC 1**

**ATTENTION!** Kuryakyn recommends the use of dielectric grease on electrical connections

STEP 5  Take the 4-pin connector and route it under the frame rail and bring it out under the side cover of the bike. This connection will be used to supply the power to the trailer. **PIC 2**

STEP 6  Under the side cover, plug the Trailer Isolation Relay to the sub-harness. **PIC 2**

**Trailer Isolation Wiring Harness**

STEP 7  Take the long red positive, red with a black stripe and the long black ground wire in the black sheathing and route them to the battery. Be cautious of where you route the wires, avoid moving parts or extreme heat. **PIC 2**

STEP 8  Take the red power wire and connect it to one end of the Y wire attached to the fuse holder with the one of the provided butt connectors (slide the wire into one end of the butt connect and crimp). Take the other end of the butt connector and slide it over the Y wire and crimp.). Take the red wire with black stripe and connect it to the other end of the Y wire with a butt connector as above.

**WARNING:**  When this next wire is connected to the battery, the Red wire with the Black stripe will have power at the other end of it. Make sure it is capped off as in Step 10 before attaching this wire to the battery!

Attach the single red wire from the other end of the fuse holder to the positive side of the battery. **PIC 3**

STEP 9  Connect the long black ground wire to the negative on the battery using the supplied ¼” ring terminal (you will need to crimp this to the black wire). **PIC 4**

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STEP 10 With the two (four pin) plugs connected in PIC 2, use a test light to check for proper function. Turn the key on and test both signals. (Yellow is left and Green is right turn) Brake lights (Blue) and Run light. (Brown). The red wire with a black stripe is a power wire that can be used for keyless entry power or interior lighting on the trailer.

WARNING: If this wire is not going to be used, cap it off using electrical tape or a piece of heat shrink over the installed butt connector, as it will have power to it all the time, even when the key is off, as it is hooked directly to the battery!

The white wire is ground. PIC 5

STEP 11 Tie up any excess wire length with the provided cable ties. Locate an area on the bike that you will be able to mount the trailer isolation relay box. Take the provided 1” x 2” Hook Strap and the 1’ x 2” Loop Strap and place one on the back of the trailer isolation relay and the other on the bike in a good and safe area that is out of harms way.

STEP 12 Wire up any style connector needed for your trailer application.

STEP 13 When you are satisfied with the wiring, re-install the saddlebag if needed, replace the seat, and secure it in the same order that it was removed in step 2 of the sub harness installation instructions.

WARNING! ENSURE PROPER TRAILER WIRING HARNESS AND RELAY OPERATION BEFORE RIDING THE MOTORCYCLE. VISIBILITY IS A MAJOR CONCERN FOR MOTORCYCLISTS. TRAILER WIRING HARNESS AND RELAY MALFUNCTION COULD RESULT IN DEATH OR SERIOUS INJURY.

ATTENTION! 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.

Ride On!