



INSTALLATION INSTRUCTIONS
PLUG and PLAY ISOLATOR and 4 WIRE HARNESS
 for all 2014 FLHTCU, FLHX, FLHXS, FLHTK,
 FLHTCUTG, FLHRSE Touring Models w/KW hitch
 Mfg. p/n 720750 (See pkg. label for Dist. p/n)

ATTENTION INSTALLER (if other than owner):
 Please forward this instruction sheet and the warranty card to the purchaser of this product. These instructions also contain valuable information necessary to the end user.

INTRODUCTION:
 These instructions describe the procedure for properly installing a KHROME WERKS® Isolator module and 4 wire harness on 2014 FLHTCU, FLHX, FLHXS, FLHTK, FLHTCUTG and FLHRSE Touring models equipped with a Khrome Werks Trailer Hitch. For trailers with combined tail lights/turn signals (4 wire system) and a 4 wire flat connection plug. Review instructions carefully before beginning, as they contain important information. Please retain for future reference.

Particularly important information is distinguished in these instructions by the following notations:

NOTE: A NOTE provides key information to make procedures easier or clearer.

CAUTION: A CAUTION indicates special procedures that must be followed to avoid damage to the motorcycle or accessories.

WARNING: A WARNING indicates special procedures that must be followed to avoid injury or death to a motorcycle operator or person inspecting or repairing the motorcycle.

All Models:
CAUTION: This kit will not function with trailers that have separate tail lights/turn signal lights (5 wire system). See NOTE after Bill of Materials.

- TYPICAL TOOLS REQUIRED:**
- 1 . #2 Phillips screwdriver
 - 1 . wire stripper
 - 1 . side cutter
 - 1 . terminal crimper
 - 1 . 10mm combination wrench

PROCEDURE:

1. Remove seat. Wiring harness may be routed to the hitch down either side of the rear fender. One side or the other may allow for the more natural flow of the harness to the hitch depending on the mounting position of the module. Remove appropriate saddle bag.

WARNING: Disconnect battery cables (negative cable first) to prevent short circuits before performing following procedures.

2. Find a suitable place under the seat or side cover for the isolator module. Tie wrap or two way tape in place.

CAUTION: Make sure there is adequate clearance between the seat/side cover and the module. Disconnect the factory plugs under the seat or left side cover leading to the rear lighting.

NOTE: H-D trikes only: Disconnect the 6 pin molex plugs just in front of the Tour-Pak. Position the isolator module behind the seat; repositioning of the factory wiring harness may be required to accommodate the module..

Do not connect to the battery at this time.

3. Connect the two (2) 6 pin Molex plugs located on one end of the module between the factory plugs to the rear lighting. The single red wire from the module needs to be joined to the inline fuse holder wire and then routed to battery positive using the supplied connectors. Determine correct length and crimp the wires together. Better to leave a little long in the event that rerouting is necessary.

4. Connect the plug from the supplied 4 wire wiring harness to the remaining plug on the end of the module. Carefully route the wiring harness along the fender struts to the hitch. Insure that the trailer wiring harness is long enough when plugged into the trailer to allow the tightest turn possible. Secure with tie wraps. See hitch instructions for model specific guidelines.

WARNING: Make sure wiring harness cannot make contact with exhaust, rear wheel, brake rotor, caliper, shocks and drive chain or belt.

5. Reconnect the battery (positive first) and test lights and signals. Install seat and saddlebags.

WARNING: Do not operate motorcycle/trailer with faulty turn signals, stop or tail lamps. Inspect all connections and routing of wires if lamps do not function properly.

Hooking up your trailer:

6. Lubricate ball and connect trailer, close and secure coupler lever with safety pin or lock. Connect safety chains. Connect the 4 wire flat plugs and test lights. Torque all mounting hardware after first usage.

BILL OF MATERIALS			
Ref.#	Mfg. P/N	Description	Qty Per
	7207501	4 wire harness, plug-n-play isolator with 6-pin Molex plugs, inline fuse/fuse holder, wire terminal and butt connector	1

NOTE: Can be used with 5 wire trailers that have separate turn signal lights. Two options are listed below. Both will require rewiring the trailer.

1. *If turn signal lenses are red or can be converted to red (they will act as additional brake lights).* You will need to splice the trailer brake light wires into the turn signal light wires on each side of trailer.
2. *If turn signals cannot be converted.* They must be disconnected. You will need to splice the right trailer brake/run light wire into the right disconnected turn signal light wire that is routed to the tongue on each side of trailer. Repeat for the left side.

With both options the turn signal light wire on each side will now become a brake/turn signal wire. The trailer will now be wired the same as a 4 wire trailer. You can splice a short pigtail with standard 4 wire flat male trailer plug into the trailer harness at the tongue using the pigtail's white wire for ground, brown wire for taillights, yellow wire for left turn/brake and green wire for right turn/brake.