



**INFORMER FUEL/BATTERY GAUGE 8303**

**FITS: '88-UP H-D LEFT SIDE TANK MOUNTED GAS GAUGES. THIS GAUGE IS DESIGNED TO MATCH KÜRYAKYN P/N 8309, FLUSH MOUNT GAS CAP**

**FEATURES:**

- Includes L.E.D. battery gauge with amber and flashing red "low" and "overcharge" L.E.D. warnings.
- L.E.D. Gas gauge with amber/red "low/reserve" warning.
- Automatic daylight visibility control for hi-bright day readability and lowered brightness night lighting.
- All displays are directed back 30 degrees for optimal "eyes on the road" readability.

<b>PART#</b>	<b>INCLUDED</b>
608303	1 L.E.D. Fuel and Battery Gauge
908303	1 Hardware/Wiring Kit Including:
608303FW	1 2001 and Up 4 Wire Adapter
608303F	1 2001 and Up Banana Jack 4 Wire Adapter
408303T	1 2 Pin Black Amp Connector
408303F	1 4 Pin Green Amp Connector
200836	2 6-32 Stainless Steel Hex Nut
200837	2 #6 External Tooth Lock Washer
308303	1 Installation Instruction

**TOOLS SUGGESTED**

Needle Nose Pliers, 5/16" Socket and Combination Wrench, Diagonal Cutter, Factory Service Manual for reference, Soldering Iron, Electrical Tape

**WARNING**

READ AND UNDERSTAND ALL THE INSTRUCTIONS BEFORE PROCEEDING. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN DAMAGE TO THE MOTORCYCLE AND/OR INJURY OR DEATH TO THE RIDER OR INSTALLER. KÜRYAKYN RECOMMENDS THIS INSTALLATION BE PERFORMED BY AN EXPERIENCED MECHANIC. IF YOU ARE NOT COMPLETELY CONFIDENT IN YOUR MECHANICAL SKILLS, HAVE THIS GAUGE INSTALLED BY A PROFESSIONAL, EXPERIENCED HARLEY-DAVIDSON® MECHANIC.

**NOTE** During this installation we recommend you cover the tank with a soft cloth to prevent scratches.

**PROCEDURE FOR '88 -'00 MODELS**

**STEP 1** Disconnect the negative battery lead.

**STEP 2** The stock fuel gauge wires run through a tube welded in place inside the gas tank. The wires from the gauge exit the bottom of the fuel tank through this tube opening. The wires are held in place with a small clip and lead to an "Amp" connection plug. Gently open this clip and disconnect the plug - this will provide more free play in the wires easing removal of the gauge. Carefully pull upward on the original fuel gauge, lifting it from the tank. **DO NOT TWIST** the gauge – however, you may rock it slightly side to side.

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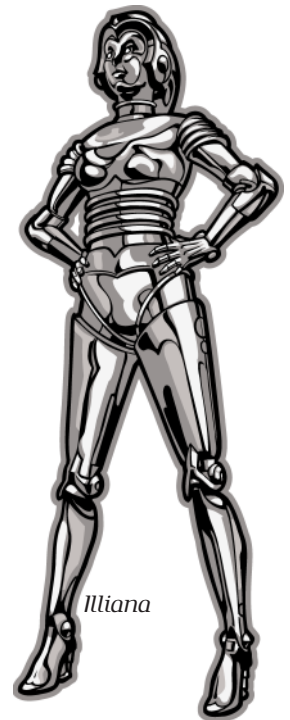
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**WARRANTY**  
Küryakyn™ warrants that any Küryakyn product sold hereunder, if properly installed, maintained and operated under normal conditions, shall be free from any defects in materials and workmanship for a period of one (1) year from the date the Küryakyn products are sold to the customer.

**CONSEQUENTIAL DAMAGES:**  
Küryakyn shall not be liable for any consequential or incidental damages.

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**STEP 3** Unscrew the nut holding the pink OR yellow/white stripe wire connected to the terminal marked "S" from the stock fuel gauge. READ and remove the warning tag on the "S" terminal of the Informer fuel gauge. SECURE ONLY THE PINK OR YELLOW/WHITE STRIPE WIRE TO THE "S" TERMINAL OF THE INFORMER WITH THE 6-32 NUT AND LOCK WASHER.

**WARNING**

CONNECTING ANY OTHER WIRE TO THIS "S" TERMINAL MAY CAUSE A FUEL TANK EXPLOSION RESULTING IN SERIOUS INJURY OR DEATH.

**STEP 4** Remove the heat shrink from the "G" and "I" terminals of the Informer fuel gauge. Unscrew the nuts holding the two black wires to the "G" terminal and the orange wire from the "I" terminal of the stock gauge and remove the wires.

**HINT** Removing the bulb holder can simplify removal of the "G" terminal.

**STEP 5** Assemble the two black ground wires to the "G" terminal of the Informer fuel gauge with the provided 6-32 nut and lock washer.

**STEP 6** Assemble the orange wire to the "I" terminal of the Informer fuel gauge with the provided 6-32 nut and lock washer.

**STEP 7** Make sure all nuts are tightened securely.

**STEP 8** Carefully push the wires into the fuel gauge mounting hole so they don't interfere with the insertion of the new gauge housing. Reconnect the plug disconnected in Step 2.

**STEP 9** Align the new gauge with the key slots in the tank and carefully press the new gauge housing all the way into the tank-mounting hole until it is flush to the top surface.

**STEP 10** Re-connect the battery and turn on the ignition to test the new gauge.

## PROCEDURE FOR '01-UP MODELS

**STEP 1** Disconnect the battery negative lead.

**STEP 2** Disconnect the Amp style plug connector from the gas gauge wires found beneath the fuel tank. The fuel gauge side of the Amp connector must be removed to allow the wires from the stock gauge to be pulled through the wire passage in the fuel tank. This plug may either be cut off, or the pins may be removed from the plug body (Consult your service manual in the electrical section - "Amp Multi-lock Electrical Connectors") **WHATEVER YOU DO, DO NOT** cut the wires on the main wiring harness side of this plug! Remove the stock gas gauge by pulling it straight up, you may rock it gently from side to side, but **DO NOT TWIST!** Disconnect any plug connections under the gauge. Remove the stock gauge and carefully pull the wiring up through the passage in the tank.

**STEP 3** Harley-Davidson has used two different wiring configurations for the fuel gauges found on 2001-later models. For our purposes, we'll refer to them as "3-wire" (PIC.1) and "Banana Jack 4-wire" (PIC.2). The "3-wire" has three equal length wires; yellow, orange, and black. The "Banana Jack 4-wire" has two long wires, orange and black; and two short wires, yellow and black.

PIC.1



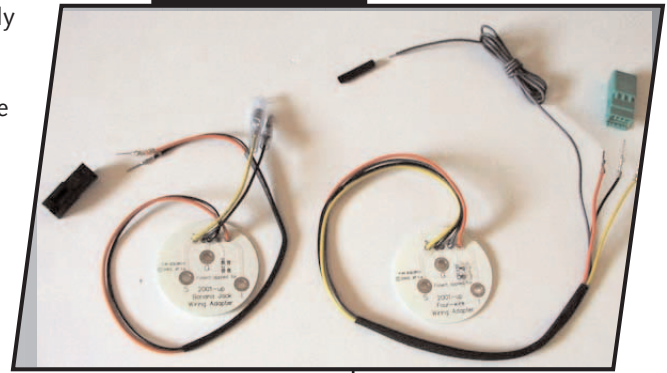
PIC.2



We have included two printed circuit board wiring adapters necessary to install the Informer on 2001-later H-D models. **PIC.3** The adapter labeled "2001-up 4-wire Wiring Adapter" will be used for bikes originally equipped with a "3-wire" gauge; the fourth wire is needed to allow installation on '04-later fuel injected models. The adapter labeled "2001-up Banana Jack Wiring Adapter" will be used for bikes originally equipped with a "Banana Jack 4-wire" gauge.

Remove the 6-32 nut and warning label from the "S" terminal and the soft plastic stud protectors from the "T" and "G" terminals on the bottom side of the Informer. Set the appropriate adapter in place; it will rest on the three 6-32 nuts already in place on the studs. Secure the adapter with three 6-32 nuts and star washers supplied.

**PIC.3**



**FIG.1**

**KURYAKYN INFORMER WIRING COLORS (4 wire)**

KURYAKYN	CONNECTOR TYPE	HARLEY-DAVIDSON
Yellow	Amp. Connector	Yellow
Orange	Amp. Connector	Orange
Black	Amp. Connector	Black or Grey
Gray	Solder/Splice	Yellow/White (Under Speedometer)

**TO COMPLETE THE INSTALLATION WHEN USING THE 2001-UP 4-WIRE ADAPTER**

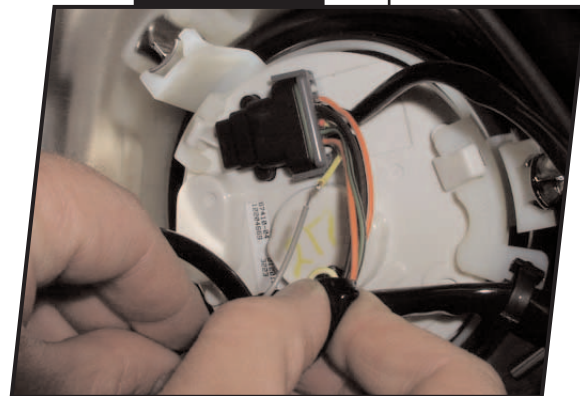
**STEP 1** Route all four wires from the gauge through the tank passage in the same manner the stock wires were run. The gray wire is used only on '04 and up Fuel Injected models, for all other applications the gray wire should be cut off and the end taped tightly to the remaining three wires.

**USE CARE TO ENSURE THIS STEP IS DONE CORRECTLY!**

Assemble the pin connectors into the plug body so when the Amp connector halves are joined, the wires will be oriented as in **FIG.1**. The pin connectors should lightly "click" into place in the plug body when correctly inserted. If the pin does not click into place in the plug body, remove the pin, turn it upside down and try again. Do not force the pins into the body — they should click into position easily. If force is needed, you are inserting the pins the wrong way. Fold the lock tab over the pin connectors to secure them into the plug body. (For additional information on assembling this plug, consult your factory service manual's "Electrical " section under "Amp Multi-color Electrical Connectors".) Plug the two halves of the Amp connector together and replace the wiring into the retaining clip on the underside of the tank.

**STEP 2** This step applies to '04 and up Fuel Injected models only, all other applications should proceed to **STEP 3**. Remove the dash per the service manual to gain access to the speedometer. Carefully slit and peel back the sheathing covering the wires leading to the speedometer. Cut the yellow/white wire at the connector attached to the speedometer leaving about 2" for the splice. See **PIC.4**. Route the gray wire coming from the gauge to the front of the fuel tank tunnel then along the wiring harness to the speedometer wiring. Slip heat shrink tubing onto the gray wire and solder splice the gray wire to the yellow/white wire from the connector. Slide the shrink tubing over the soldered connection and use a heat gun to shrink the shrink tubing over the connection. Tape the unused end of the yellow/white wire and tuck it back into the wire sheath. Tape the sheath.

**PIC.4**



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**STEP 3** Carefully push the wires into the gas gauge mounting hole so they will not interfere with the insertion of the new gauge housing. Align the new gauge with the key slots in the tank and carefully press the new gauge all the way into the mounting hole until it is flush with the top surface. Reconnect the battery and turn the ignition on to test the new gauge for function.

## TO COMPLETE THE INSTALLATION WHEN USING THE 2001-UP BANANA JACK 4-WIRE ADAPTER

**STEP 1** Route the long orange and black wires through the tank passage to be assembled into the amp connector body. It is possible that the bike's wiring harness will contain three wires. In this case, there will be no wire from the Informer's "Banana Jack four wire adapter" that will mate with this third wire in the Amp connector half on the bike.

### USE CARE TO ENSURE THIS STEP IS DONE CORRECTLY!

Assemble the pin connectors into the plug body so when the Amp connector halves are joined, the wires will be oriented as in FIG.2. The pin connectors should lightly "click" into place in the plug body when correctly inserted. If the pin does not click into place in the plug body, remove the pin, turn it upside down and try again. Do not force the pins into the body – they should click into position easily. If force is needed, you are inserting the pins the wrong way. Fold the lock tab over the pin connectors to secure them into the plug body. (For additional information on assembling this plug, consult your factory service manual's "Electrical " section under "Amp Multi-color Electrical Connectors".)

Plug the two halves of the Amp connector together and replace the wiring into the retaining clip on the underside of the tank (if applicable).

**STEP 2** Connect the short yellow and black wires from the Informer Fuel Gauge to their corresponding wires in the fuel gauge mounting hole. Carefully push the wires into the fuel gauge mounting hole so they will not interfere with the insertion of the new gauge housing. Align the new gauge with the key slots in the tank and carefully press the new gauge all the way into the mounting hole until it is flush with the top surface. Reconnect the battery and turn the ignition on to test the new gauge for function.

*Ride On!*

**FIG. 2**

KURYAKYN INFORMER WIRING COLORS  
(Banana Jack 4 wire)

KURYAKYN	CONNECTOR TYPE	HARLEY-DAVIDSON
Yellow	Banana Connector	Yellow
Black (short)	Banana Connector	Black (short)
Orange	Amp. Connector	Orange
Black (long)	Amp. Connector	Black or Grey (long)