

SAMSON

MOTORCYCLE PRODUCTS, INC.

INSTALLATION INSTRUCTIONS

LEGEND SERIES HELLRAISERS FOR 1986-2009 HARLEY SOFTAILS Model S2-961

WARNING PLEASE READ BEFORE INSTALLATION!

- Read all instructions thoroughly and confirm that all listed components are available for installation.
- Adding a free flowing exhaust systems may require rejetting of the carburetor. Lean carburetor settings are a major factor causing exhaust discoloration and potential engine damage.
- Samson® exhaust systems are designed to fit and work with OEM frames and motors.
- ***After installation thoroughly clean the new exhaust system before starting the motor.***

REMOVAL PROCEDURE:

- Remove all existing heat shields. Remove the clamp on the crossover pipe, if so equipped.
- Remove the four flange nuts securing the exhaust to the cylinder heads.
- Remove the bolts holding the front and rear pipes to the exhaust mounting bracket.
- Remove the two bolts holding the mounting bracket to the frame. The mounting bracket is not needed to install this set of Samson® pipes.
- To remove the flanges from old exhaust pipes remove the snap ring from the exhaust and slide the flange off the pipe. (Note: the snap rings may be lodged in the groove in the flange. Carefully pry the snap ring from the flange.)
- Remove the exhaust gaskets from the cylinder head ports.
- Your pipes, removable baffles, and heat shields will arrive assembled. In order to remove the baffle you will need to remove the heat shields.

**CAUTION: WITH SOME EXHAUST DESIGNS
GROUND CLEARANCE MAY BE REDUCED!**

TOOLS REQUIRED:

- 1/2" Combination wrench
- 5/16" Combination wrench
- 9/16" Combination wrench
- 1/2" Combination wrench
- Ratchet, 6" extension and 1/2" swivel socket

PARTS LIST:

Qty.	Description
2 ea	3/8"-16 x 3/4" Hex head bolts
2 ea	3/8" Flat washers
2 ea	5/16 -18 X 1/2" hex bolt
2 ea	5/16" Flat washers
1 ea	SP06-85 Mounting Bracket
2 ea	1/4-20 Allen head bolts *
2 ea	SP04-29 Removable baffle *
5 ea	# 24 Hose clamps *

* Installed in head pipe assembly

INSTALLATION PROCEDURE:

NOTE: Do not tighten connections when first installing the system. To ensure proper fit and alignment, all bolts and brackets are tightened at the end of the installation.

- Install the mounting bracket on the frame using the 3/8" x 3/4" hex head bolts, and 3/8" washers. The slots in the bracket will be facing the rear of the bike. Loosely install the 5/16x18" x 1/2" hex bolts in the upper and lower slots of the mounting bracket using the 5/16" flat washer on the back side of the bracket.
- Install the flange and snap ring on the front and rear head pipes.
- Loosely attach the front pipe to the front cylinder using the two stock 1/2" flange nuts, while sliding the head of the hex bolt attached to the bottom slot of the mounting bracket into the channel bracket at the rear of the pipe.
- Install the rear pipe using the same procedure.
- Tighten each bolt a little at a time starting at the flanges, work toward the back and check the alignment often. Tightening each bolt a little at a time going back and forth, front to rear, to insure a proper fit.
- Reinstall O2 Sensors in the front and rear head pipes. If you do not wish to operate this system with the factory O2 Sensors you will need to consult your local dealer for tuning options as operation without these Sensors can result in engine damage. The Sensor thread size is 18mm x 1.5 pitch.

CHECK ALL MOUNTING POINTS AFTER 100 MILES!!