

INSTALLATION INSTRUCTIONS

BIG GUN™ SHORT CUT

FOR 1986 - PRESENT HARLEY SOFTTAILS

Model S-176



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.)
- Do not remove the exhaust gaskets unless you intend to replace them. We recommend replacement with Genuine James thick gaskets. Samson® part # A-144.

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

INSTALLATION PROCEDURE:

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

- Install the flange and snap rings on the front and rear exhaust pipes.
- Position the rear pipe and loosely attach it to the rear cylinder using two 1/2" flange nuts.
- Using one 3/8" X 1-3/4" hex head bolt and one 3/8" washer, insert through the bottom mounting tabs, place one 1" chrome spacer between the mounting tab and the frame. Loosely thread the bolts into the frame mounting holes.
- Install the front pipe using the same procedure.
- Mount two 5/16" X 3/4" carriage bolts, two 5/16" washers and two 5/16" Nylock nuts on the 4" chrome strap bracket.
- Slide the head of the carriage bolts in the channel brackets on the rear side of both the front and rear pipes.
- Tighten each bolt a little at a time starting with the strap bracket and work toward the front of the pipe. Check pipe alignment as you go.

TOOLS REQUIRED:

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

PARTS LIST:

Qty.	Description
1	2-1/4" Front exhaust pipe
1	2-1/4" Rear exhaust pipe
1	4" Chrome strap brackets
2	1" Chrome spacers
2	5/16" X 3/4" Carriage bolts
2	5/16" Chrome washer
2	5/16" Nylock nuts
2	3/8" X 1-3/4" Hex head bolts
2	3/8" Flat washer

REMEMBER TO CLEAN THE PIPES BEFORE STARTING THE BIKE!



