

# INSTALLATION INSTRUCTIONS

## SAMSON® 4" longtail system FOR LATE 2010 HARLEY FLH MODELS Model FL-142



### 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:

- Loosen the muffler clamps holding the mufflers to the head pipes.
- Remove the bolts holding the mufflers to the mounting brackets.
- Remove the mufflers by pulling and twisting toward the rear of the bike. Use caution not to damage the head pipes.
- Remove heat shields from header pipes, remove flange nuts at exhaust ports, loosen and remove the clamps located under the transmission cover and behind the rear cylinder. Remove both header pipes.
- Remove snap rings and flanges from both pipes for re-use.
- Remove the rear pipe support bracket located over the transmission. This bracket will not be used with the FL-142.

### 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 stock flanges and snap rings on both pipes.
- Install the rear pipe first by loosely attaching the flange to the exhaust port.
- Using a barrel clamp attach the muffler to the head pipe. Loosely secure the muffler to the bag mounting bracket using the 5/16-18 x 1-1/2" hex head bolts, the 3/4" spacers, and 5/16 lock washers.
- Install the front pipe by loosely attaching the flange at the exhaust port. Secure the front pipe to the stock transmission bracket using the # 32 hose clamp around the pipe and bracket.
- Install the right muffler to the front head pipe, using the same procedure as done on the rear/left pipe.
- Loosely install front and rear heat shields on head pipes using the # 24 hose clamps provided in kit
- Carefully start tightening the exhaust flanges first to insure proper seating of the exhaust. Note that the pipes will move away or towards the engine or primary as the flange nuts are tightened.
- Next start to tighten the pipe to the transmission bracket and then tighten at the bag mounting brackets of both sides. Tighten the muffler clamps. Continue to work from front to back making alignment adjustments as point is made tighter.

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

### TOOLS REQUIRED:

- 1/2" Combination wrench
- 1/4" Allen wrench
- Ratchet, 1/2" and 5/16" socket
- 3/16" Allen wrench
- 1/4" Allen wrench

### PARTS LIST:

Qty.	Description
2	1-7/8" barrel clamps
4	5/16-18 x 1-1/2" hex head bolts
4	5/16 lock washers
4	3/4" spacers
1	# 32 hose clamp
8	# 24 hose clamps

**CHECK ALL MOUNTING POINTS AFTER 100 MILES!!**