



# Sportster Straightshots HS Slip-on Exhaust system Part #16819

Congratulations, you have purchased the finest exhaust system available for your motorcycle. Your VANCE & HINES exhaust system is designed and crafted for maximum performance, a perfect fit, a great sound and unbeatable style! Please follow the installation instructions below and if you have any questions, feel free to call our technical help line (562) 926-5291.

**Attention Installer:** (if other than owner): Please forward this instruction sheet to the purchaser of this product. These instructions contain valuable information necessary to the end user.



## STOCK EXHAUST SYSTEM REMOVAL

1. Loosen the heat shield clamps on both the front and rear exhaust pipes. This allows easier access to the head pipe mounting nuts.
2. Loosen, but do not remove, the two head pipe mounting nuts from each flange located at the cylinder head.
3. Remove the clamp bolt which mounts the rear head pipe to the belt drive cover bracket.
4. Loosen the clamp holding the mufflers onto the head pipes.

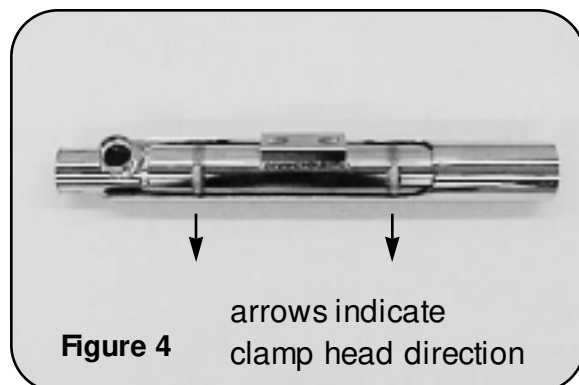
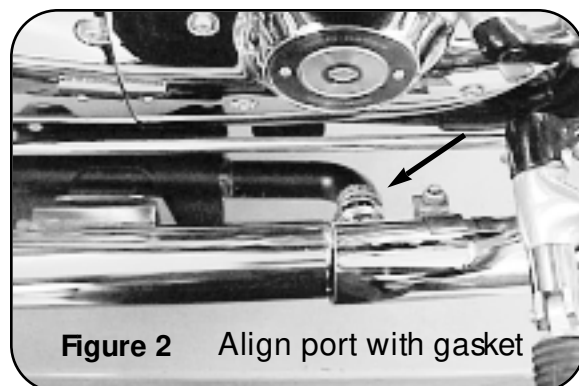
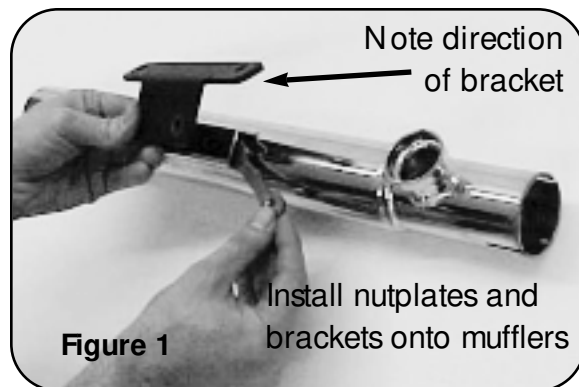
## Tools required for installation:

- 1/2" combination wrench
- 3/8" drive ratchet and 9" extension
- 9/16" and 1/2" sockets
- 5/16" Nutdriver/ flat blade screwdriver

5. Remove the two bolts from each muffler which attach the mufflers to the mounting bar.
6. Remove the mufflers by sliding them off the head pipes.
7. Remove the clamp from the nose of each muffler (these will be re-used when installing the new mufflers).
8. Remove the gaskets from the crossover ports on the stock mufflers. Inspect the gaskets and replace if damaged or worn (H-D part #65927-00).
9. Install crossover gaskets **onto mounting bar** on motorcycle.

### VANCE & HINES EXHAUST SYSTEM INSTALLATION

1. Remove mufflers and heat shields from protective packaging.
2. Slide the nut plate inside the bracket that is welded to the backside of each muffler body and attach the muffler bodies to the mounting brackets (stamped 379-P) using four 5/16" x 5/8" flange head bolts (supplied). Leave them loose at this time (Figure 1).
3. Slide stock exhaust clamp onto nose of each muffler.
4. Slide mufflers onto head pipes and align crossover port with gasket on mounting bar (Figure 2). Press into place on gasket.
5. Attach the muffler brackets to the stock mounting bar using four 5/16" x 3/4" hex head bolts, washers, and nuts (supplied). Leave them loose at this time (Figure 3).
6. Tighten cylinder port exhaust flange nuts on front and rear cylinders.
7. Install and tighten the clamp bolt which mounts the rear head pipe to the belt drive cover bracket.
8. Align muffler and bracket so they sit level. Tighten the muffler mounting bolts and the bracket mounting bolts.
9. Tighten the clamp holding the muffler onto the head pipe.
10. Align head pipe heat shields and tighten all of the hose clamps.
11. Slide hose clamps into clips inside muffler heat shields. Note direction of clamp screw heads (Figure 4).
12. Slide heat shields onto muffler bodies so that muffler body is recessed 1" inside heat shield and rotate so that bottom edge of heat shield sits at the 6 o'clock position (Figure 5). Tighten hose clamps.
13. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.



14. After installation and before starting motorcycle, completely clean pipes and mufflers with cleaning solvent and a clean, soft cloth that will not leave a residue.

**Note:** Any residue, oil, or fingerprints will stain the chrome when the metal heats up.

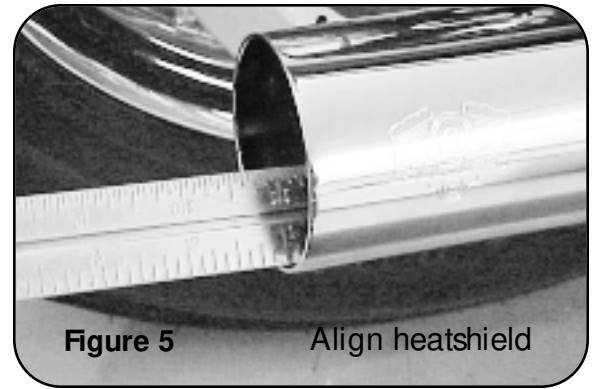
15. **Be sure to tighten all hardware before starting motorcycle.**

#### **RE-JETTING INSTRUCTIONS**

Re-jetting the carburetors will result in realizing the "full" potential of this performance exhaust system. Vance & Hines offers jet kits for most applications.

#### **PLEASE NOTE:**

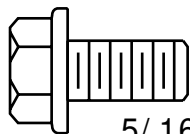
Every effort is made for Vance & Hines Exhaust Systems to provide improved cornering clearance. However, due to design and space limitations on some motorcycle models, ground and cornering clearance may not be improved and in some cases may be reduced. Be sure to follow proper installation instructions.



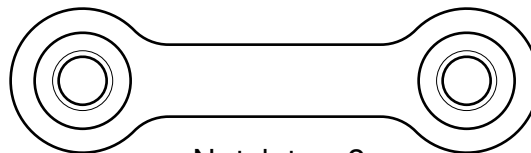
**Figure 5**

Align heatshield

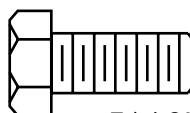
**PACKING LIST (All parts actual size)**



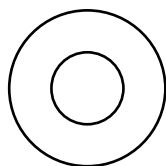
5/16" x 5/8"  
Flange head bolt x 4



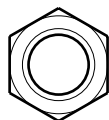
Nutplate x 2



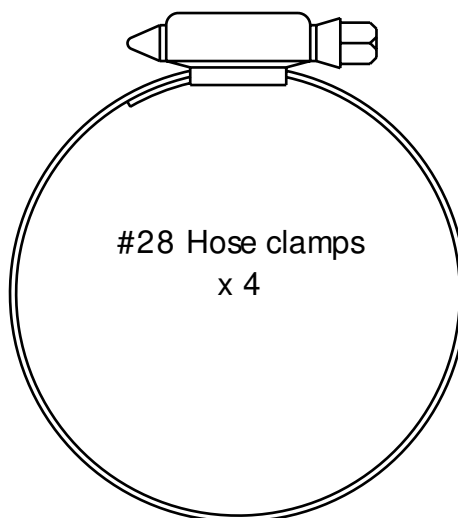
5/16" x 3/4"  
Hex head bolt x 4



5/16" flat washer  
x 8



5/16" lock nut  
x 4



#28 Hose clamps  
x 4

**HELPFUL HINTS TO AVOID DISCOLORATION OF EXHAUST PIPES**

1. Follow owner's manual instructions regarding use of the choke (starter enricher). If left on longer than recommended, discoloration may be accelerated.
2. Avoid long periods of idling.
3. Intake leaks can cause engine to run lean and overheat, thus turning the pipes blue.
4. Make sure there are no exhaust leaks at the junction of the exhaust pipe and cylinder head.
5. When installing a new set of chrome pipes, make sure your hands are clean and free of oil. After installation, thoroughly clean pipes with a cleaning solvent that will leave no residue (glass cleaner, alcohol, ammonia, etc.) before starting the motorcycle.

**WARNING!**

**VANCE & HINES DOES NOT WARRANTY ANY CHROME PRODUCTS AGAINST DISCOLORATION.**

For information on other Vance & Hines products visit our web site at [www.vanceandhines.com](http://www.vanceandhines.com)