



Softail Big Shots Exhaust System Part #17903

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.

STOCK EXHAUST SYSTEM REMOVAL

1. If equipped, loosen the floor boards to gain clearance for exhaust removal and installation.
2. Loosen heat shield clamps on both the front and rear head pipes.
3. If equipped, loosen crossover pipe clamp, located between front and rear head pipes.
4. Remove two cylinder exhaust port flange nuts from each head pipe, located at the cylinder head.
5. Remove the bolts that attach mufflers to the frame.
6. Remove the complete exhaust system and set aside. Assistance may be required.
7. On pre 2000 models remove lower mounting bar.
8. On models equipped with upper mounting bar attached at swing arm pivot bolt, go to step 9. If upper mounting bar is attached with two torx bolts (not swing arm bolt) skip to step 10.
9. Remove right side 1/4"-20 bolt which holds lower fender in place. The fender will flex outwards allowing removal of right passenger foot peg bolt. Park the motorcycle on its side stand. Position a floor jack under right hand frame tube of the motorcycle below swing arm pivot bolt. Raise jack just enough to take the weight off swing arm pivot bolt. Remove swing arm pivot bolt and stock upper mounting bar. Replace swing arm pivot bolt and torque to 120 -150 ft. lbs. Reinstall passenger foot peg using 1/2"-20 x 3" bolt and 1 5/8" long spacer (supplied). Now install 1/4"-20 fender bolt.
10. Using a T50 torx driver, remove the three mounting bolts and mounting bar. (Two of the bolts are visible, the third is accessed by removing right hand passenger foot peg. Reinstall right foot peg using 3/8"-16x2-1/2" bolt and 3/4" long spacer (supplied). Now install 1/4"-20 fender bolt.
11. Carefully remove the cylinder exhaust port flanges and circlips from the stock exhaust system using snapping pliers. **NOTE: Replace bent or damaged circlips. Check exhaust port gasket condition.** (Recommended replacement exhaust port gaskets, Harley part number:17048-98.)

VANCE & HINES EXHAUST SYSTEM INSTALLATION

1. Attach mounting bracket 302 (supplied) using two 3/8"-16x3/4" flange bolts (supplied). (Figure 1)
2. Remove head pipes and heat shields from protective packaging. **Note:** Removal of end cap may be required. Place each heat shield on a non-abrasive surface such as a blanket or carpet. Slide each head pipe into their respective heat shields tail end first engaging end caps and heat shield mounting clips. (Figure 2)

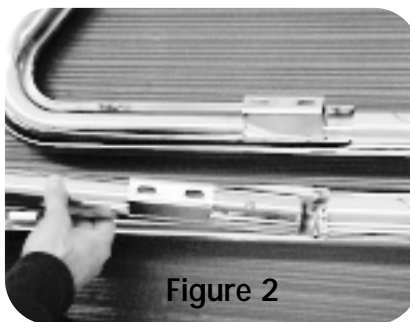
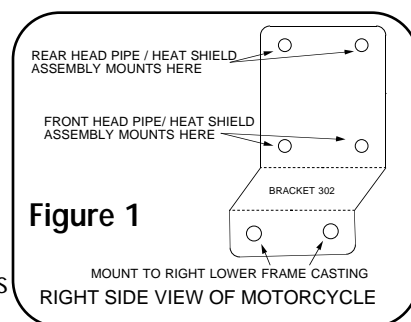


Figure 2

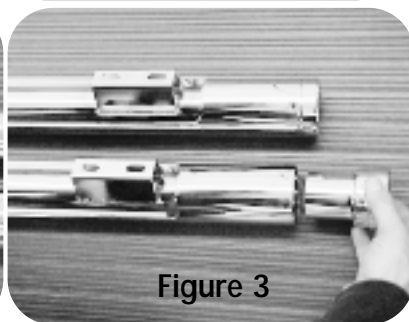


Figure 3

3. Install end caps (if removal was necessary) into tail end of each heat shield engaging head pipe and heat shield. Align mounting hole with end cap hole. Install and tighten 1/4"-20 button head screws. **Note:** Removable thread locking compound is recommended. (Figure 3)

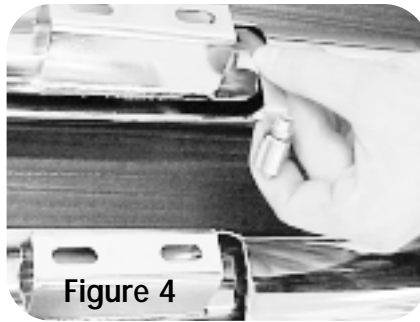


Figure 4



Figure 6

4. Install each hose clamp by feeding tail end of clamps into heat shield clips. Take note of location of clamp screw head. (Figure 4&5) (screw head must be accessible when system is installed on motorcycle for adjustment purposes.) (Figure 5)
5. Install cylinder exhaust port flanges and circlips (from stock system) onto head pipes. (Figure 6)
6. Install the front head pipe/head shield assembly into exhaust port using stock nuts, do not tighten at this time.
7. Slide nut plate inside bracket that is welded to backside of head pipe. While holding nut plate in place attach head pipe to mounting bracket 302 using two 5/16" flange head bolts (supplied). Leave them loose at this time. (Figure 7). Repeat steps six and seven for rear head pipe / heat shield assembly.

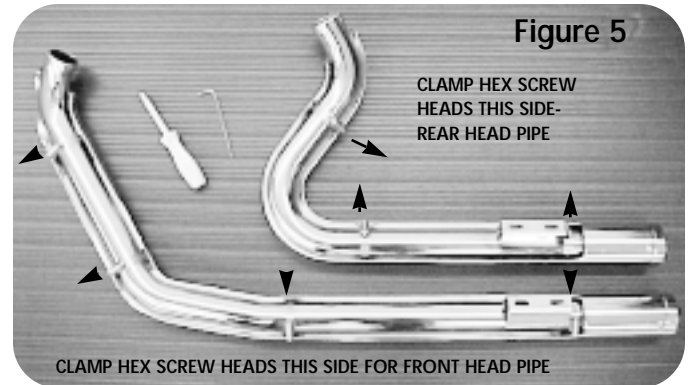


Figure 5

8. Align heat shield/head pipes parallel when viewing from the right side of the motorcycle. Tighten flange bolts on both head pipe brackets. (This will secure position of head pipes before tightening cylinder exhaust port flange nuts.)
9. Tighten cylinder port exhaust flange nuts on front and rear cylinders.
10. Align front and rear heat shields so the end of the pipes line up vertically. Tighten all hose clamps securing heat shields.
11. Tighten the floor board mounting bolts on models so equipped.
12. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
13. **Be sure to tighten all hardware before starting motorcycle.**

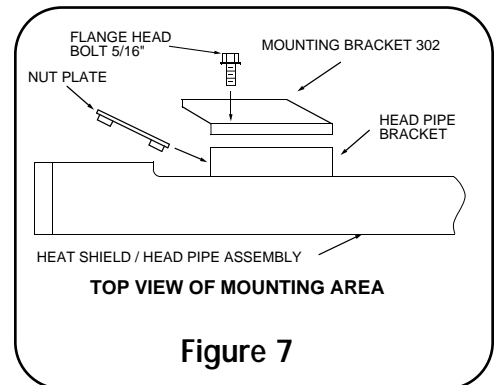


Figure 7

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. For fuel injected models, we recommend the use of Vance & Hines Fuelpak part number 61001.

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.

Option

On fuel injected models this system will work with Vance & Hines Fuelpak part number 61001. Order it today from your dealer or go to vanceandhines.com for more information.



WARNING!

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

For information on other Vance and Hines products visit our web site at www.vanceandhines.com