



## SOFTAIL Longshot Exhaust System

Part #17811

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.

### REMOVING THE STOCK EXHAUST SYSTEM

1. On FLSTC, FLSTF, FLSTN and FXSTS loosen the right hand floor board mounting bolts to gain clearance for exhaust removal and installation.
2. Loosen the heatshield clamps on both front and rear exhaust pipes.
3. Loosen the crossover pipe clamp, located between the front and rear head pipe. (Not necessary on 2000 models).
4. Remove the two mounting nuts from each head pipe, located at the cylinder head.
5. Remove the bolts that attach the mufflers to the frame.
6. Remove the entire exhaust system and set it aside.
7. On pre 2000 models remove the lower mounting bar.
8. FLSTN, FLSTF and FXSTD models have an upper mounting bar that must be removed in addition to the lower bar. On pre 2000 models go to step #9, on 2000 year models go to step #10.
9. Park the motorcycle on its side stand. Remove the right side 1/4"-20 bolt which holds the lower fender in place. The fender will flex out of the way allowing the removal of the right passenger foot peg bolt. Position a floor jack under the right hand frame tube of the motorcycle below the swing arm pivot bolt. Raise the jack just enough to take the weight off the pivot bolt and remove the bolt and stock mounting bar. Set the mounting bar aside. Replace the pivot bolt and torque it between 120 -150 ft. lbs. Reinstall the passenger foot peg using the 1/2"-20 x 3" bolt and an 1 5/8" long spacer (supplied).
10. Using a #50 Torx driver, remove the three mounting bolts, and set the mounting bar aside. (Two of the bolts are visible, the third is accessed by removing the right hand passenger foot peg.) Replace the foot peg using the 3/8"-16 x 2 1/2" bolt and an 3/4" long spacer (supplied)
11. The bolts and spacers used in the above steps may also be used on all softail models to space the right rear foot peg away from the exhaust system if you so desire.
12. Carefully remove the flanges and circlips from the stock exhaust system using snapping pliers.

**NOTE: If circlips look bent or twisted replace them with new circlips.**

### INSTALLING YOUR NEW VANCE & HINES EXHAUST SYSTEM

1. Vance and Hines recommends you replace your exhaust gaskets with Screamin' Eagle gaskets, part number 17048-98.
2. Install the circlips and flanges from the stock system on to both of the new head pipes.
3. Unscrew all of the hose clamps (supplied) until they are completely loose. Mark the top edge of all three heat shields with the location of the mounting clips that are welded to the backside. Position

- the front heat shield over the head pipe and feed the tail end of the hose clamps into the clips. Be sure that each hose clamp is engaged with both clips. Give the screw three to four turns, leaving heat shield loose on the head pipe. Repeat this step with the rear heat shield. **Note:** The screw end of the hose clamp should be accessible, but not visible when pipe is mounted on the bike.
4. Install the front head pipe using the stock nuts, do not tighten at this time.
  5. Install the rear head pipe using the stock nuts, do not tighten at this time.
  6. Install the mounting bracket (stamped 304) to the frame, by aligning the two 3/8" holes in bracket with the two holes in the frame below the right rear footrest, using the two 3/8"-16 x 3/4" flange head bolts (supplied), do not tighten at this time (Refer to fig.1).
  7. Install one muffler clamp over the front (notched end) of each muffler.
  8. Slip one muffler onto the rear head pipe. Slide one dog bone shaped nut plate under the bracket that is welded to the backside of the muffler and attach the muffler to the mounting bracket using two of the 5/16" flange head bolts (supplied), but leave them loose at this time.
  9. Repeat step #9 with the front muffler.
  10. Adjust the heat shields and mufflers so they are flush where the the two parts meet each other (Refer to figure 2).
  11. Align the mufflers so they are parallel when viewing from the right side of the bike, and tighten the 5/16" flange bolts on the back side of both mufflers.
  12. Tighten the two 3/8" bolts that attach the mounting bracket to the frame.
  13. Tighten the two nuts on both the front and rear head pipe flanges.
  14. Tighten the two muffler clamps.
  15. Rotate the hose clamps on both heat shields so they are accessible with a screw driver and tighten them.
  16. Retighten floor board mounting bolts on models so equipped.
  17. **Be sure to tighten all hardware before starting your motorcycle.**

## RE-JETTING INSTRUCTIONS

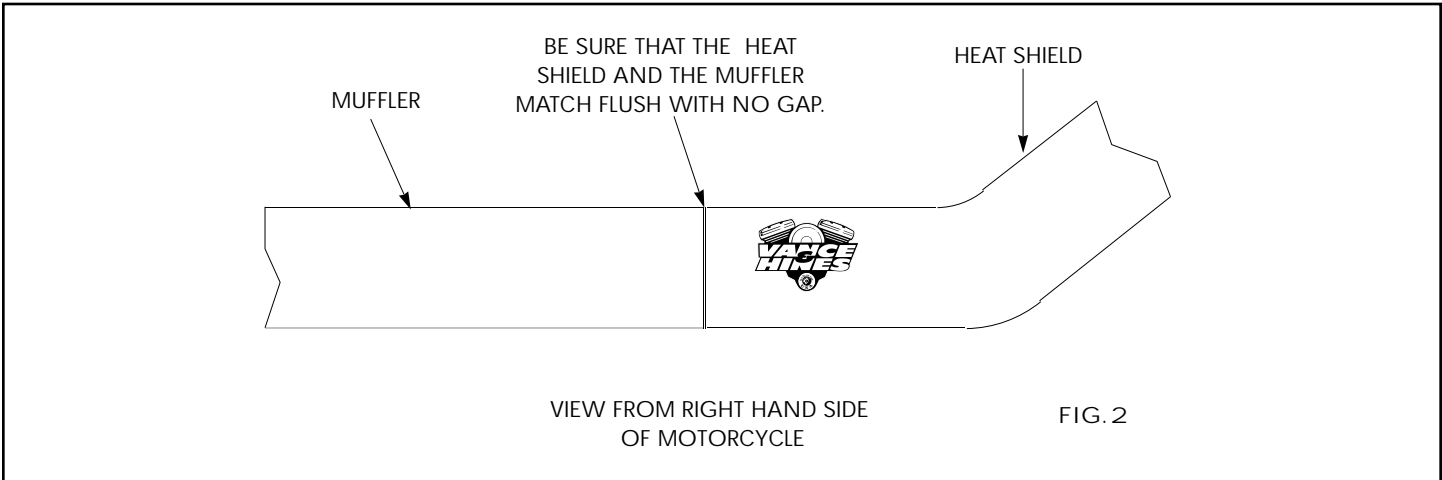
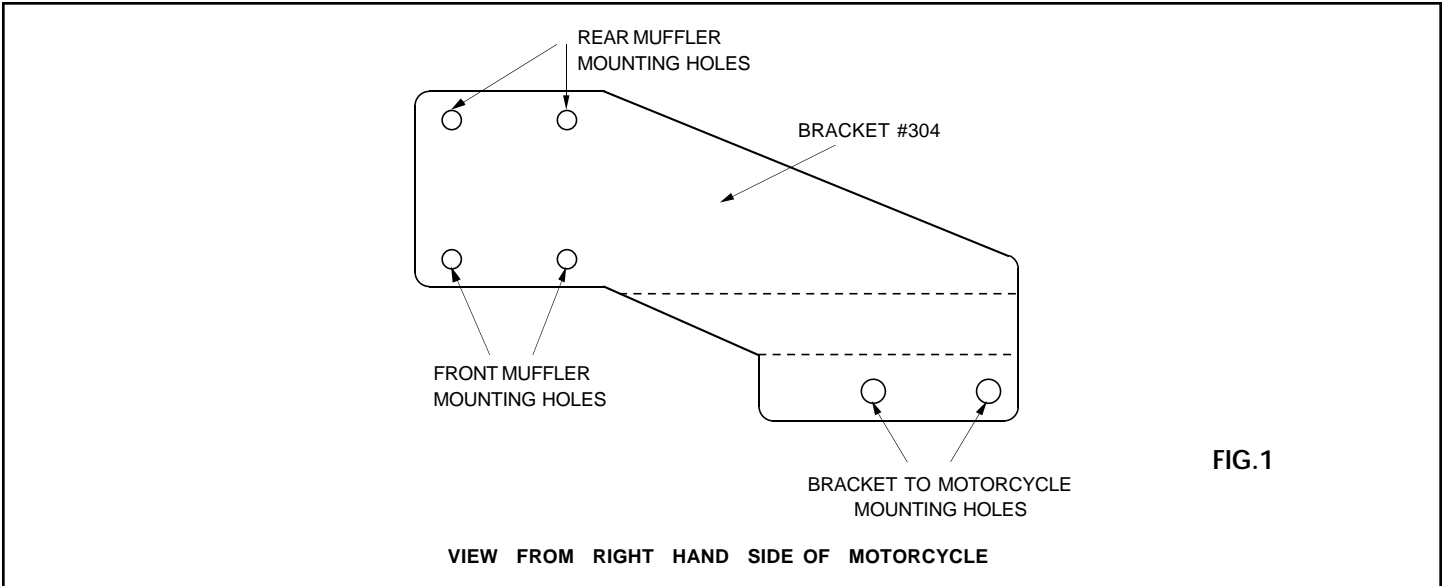
Re-jetting the carburetors will result in realizing the "full" potential of this performance exhaust system. Vance & Hines offers jet kits for most applications. For fuel injected models, we recommend the use of Vance & Hines Fuelpak part number 61001.

## 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.

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

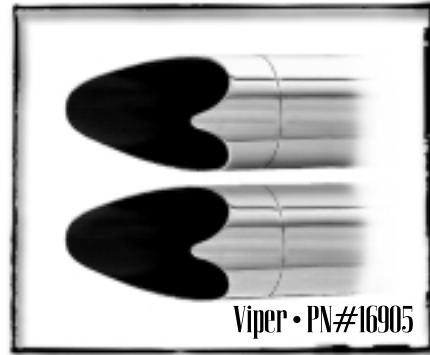
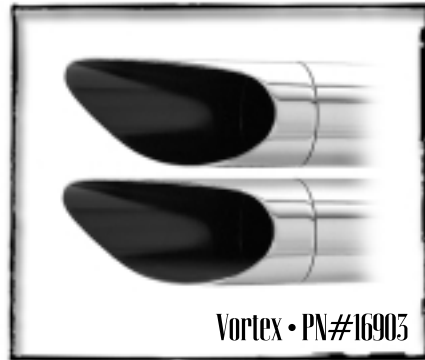
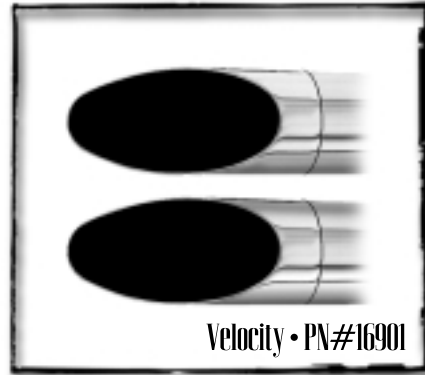
For information on other Vance and Hines products visit our web site at [www.vanceandhines.com](http://www.vanceandhines.com)



**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](http://vanceandhines.com) for more information.

# Customize Your Longshots!



## Optional Hot-Tips



Contact your local Vance & Hines dealer for more information!  
[www.vanceandhines.com](http://www.vanceandhines.com)