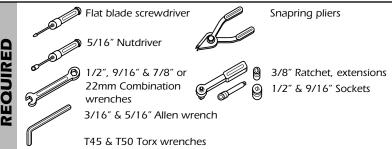
# HARLEY-DAVIDSON® SOFTAIL BIG SHOTS LONG INSTALLATION INSTRUCTIONS PART# 17923





Congratulations, you have purchased the finest exhaust system for your motorcycle on the market. 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, please call our technical support line at (562) 926-5291.

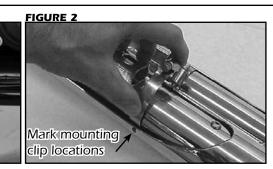
Attention installer (if other than owner), please forward this instruction sheet to the owner of this product. These instructions contain valuable information to the end user.



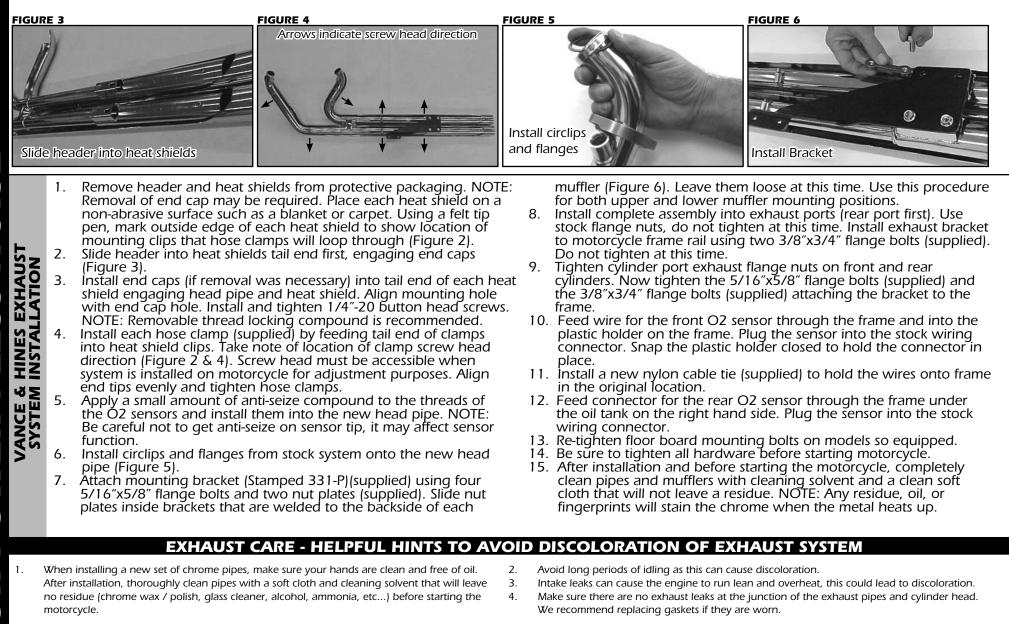
### READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

- **NOTE:** These instructions are written for late model motorcycles equipped with O2 sensors. If you are installing these pipes on a bike which is not equipped with O2 sensors, ignore all instructions which reference them. Additionally you will need to purchase an O2 sensor block off kit P/N 16925. However this kit does contain all necessary hardware to install the right side passenger footpeg on '86-'06 model softails (see packing list).
- 1. Under the oil tank on the right hand side, locate the rear O2 sensor connector. Unplug sensor and feed the end of wire through the frame freeing it from motorcycle. NOTE: Pay attention to wire routing for reinstallation.
- 2. Open the plastic cover above the rectifier on front of the frame to gain access to the front O2 sensor connector. Unplug sensor from harness. Remove cable tie holding wire to frame and feed the end of the wire through freeing it from motorcycle.
- 3. On FLSTC, FLSTF, FLSTN and FLSTSC models, loosen the right hand floor board mounting bolts to gain clearance for exhaust removal and installation. 4.
- Loosen the heat shield clamps on both front and rear exhaust pipes.





- Remove the two mounting nuts from each head pipe, located at the cylinder 5. head.
- If equipped, unbolt the carriage bolt and clamp attached to the bracket under 6. the right side transmission cover.
- 7. Remove the nuts attaching the exhaust mount bracket to the frame.
- 8. On FLSTD and FLSTF models, you will need to remove the right side passenger footpeg and hanger, as this is attached to the exhaust mount bracket. Replace the passenger foot peg assembly using the 3/8" x 2 1/2" Allen bolt (supplied).
- 9. Remove the entire exhaust system and set it aside.
- 10. If equipped, remove the bracket from under the right side transmission cover.
- 11. Using a 7/8" or 22mm wrench, carefully remove the O2 sensors from the stock head pipes and save for re-use with the new system.
- 12. Remove the two lower mounting studs from the frame (Figure 1).
- Carefully remove exhaust port flanges and circlips from the stock exhaust 13. system using snapring pliers. NOTE: Replace bent or damaged circlips. Check exhaust port gasket condition. Recommended replacement exhaust port gaskets, Harley part number: 17048-98 or 65324-83A.



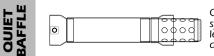
## VANCE & HINES OPTIONAL ACCESSORIES



#### FUEL MANAGEMENT:

Take the guess work out of fuel injection with Fuelpak Fuel Management. Contact your local dealer or call (562) 921-0071 to order. Visit fuelpakfi.com for more information. Fuelpak is intended for racing or off-highway use only, and is

not legal for sale or use in California on pollution-controlled vehicles.



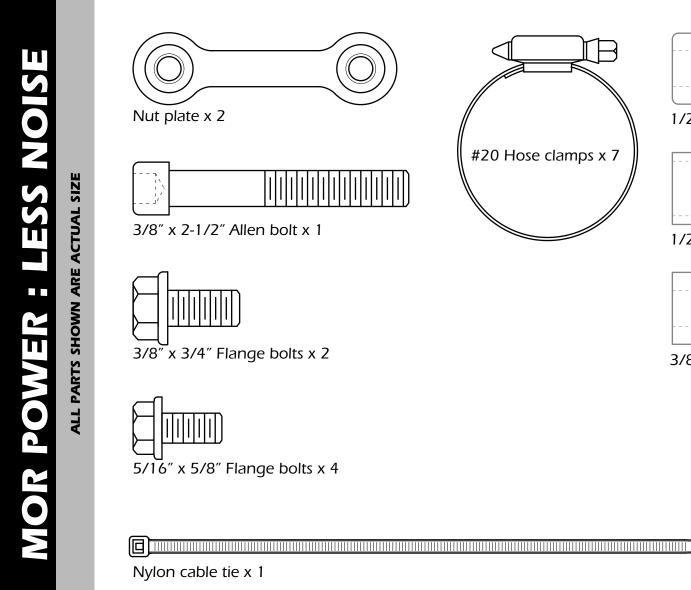
Quiet baffle P/N 21869 is available for this system. The quiet baffle will lower the sound level by 2-3db on average. Contact your local dealer to order.

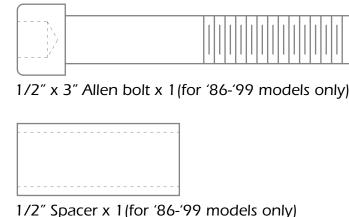
PLEASE NOTE: Every effort is made for Vance & Hines Exhaust Systems to provide improved cornering clearance. However, due to design and space limitations on some motorcycle models, ground and cornering clearance may not be improved and in some cases may be reduced. Be sure to follow proper installation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

#### HARLEY-DAVIDSON<sup>®</sup> SOFTAIL BIG SHOTS LONG INSTALLATION INSTRUCTIONS PART# 17923

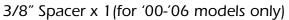


### PACKING LIST









PARTS NOT SHOWN:

331-P Bracket x1 D465FC Head pipe x1 D465HC Front heat shield x1 D466HC Rear heat shield x1

#### WARRANTY

Vance & Hines exhaust systems are warranted against defects in material and workmanship for a period of 90 days from the date of purchase from an authorized dealer. This warranty does not cover discoloration of chrome finishes. This warranty is limited to the repair or replacement of a product proven to be defective from normal use. Vance & Hines exhaust systems are designed to fit and operate on OEM motor and chassis. This warranty does not cover any product subject to abuse, misuse, improper installation or modification.

#### FUEL MANAGEMENT

### GET THE MOST OUT OF YOUR RIDING EXPERIENCE...

AN AFTERMARKET EXHAUST SYSTEM IS ONLY YOUR FIRST STEP, NOW YOU NEED FUEL MANAGEMENT.

# NOW YOU NEED FUELPAK.

Your fuel injected Harley-Davidson® is equipped with an ECU (electronic control unit) that's programmed to deliver fuel to the motor based on an air/fuel ratio for a stock air filter and stock exhaust system. When you install a performance exhaust system, your airflow changes, so you need a fuel management system that adjusts your air/fuel ratio to match the changes. That fuel management system is Fuelpak. Fuelpak adds and takes away fuel, allowing for a more precise range of refinement in your air/fuel ratio. Get the perfect fuel management combination with your Vance & Hines exhaust system, get Fuelpak. For more information visit the tuning center at fuelpakfi.com

NOTICE: Fuelpak is intended for racing or off-highway use only, and is not legal for sale or use in California on pollution-controlled vehicles.