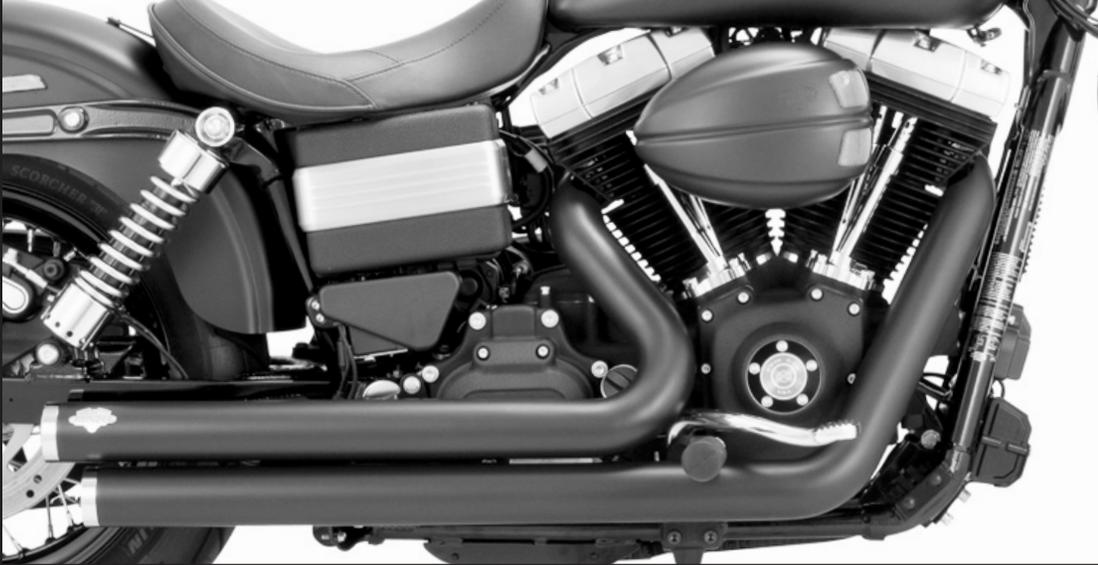




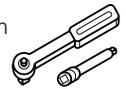
MORE POWER : LESS NOISE



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.

TOOLS  
REQUIRED

-  Flat blade screwdriver
-  #3 Phillips Head
-  5/16" Nutdriver
-  1/2, 7/8, 14mm, 22mm  
Combination  
Wrenches
-  3/16" & 1/4"  
Allen wrenches
-  Snapping pliers
-  3/8" Ratchet &  
extensions
-  1/2", 19mm Sockets
-  7/16, 9/16 Deep  
Sockets

READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

STOCK EXHAUST  
SYSTEM  
REMOVAL

1. Remove seat to gain access to rear oxygen sensor connector. Unplug sensor and feed end of wire through frame to free it from motorcycle. **NOTE:** Pay attention to wire routing for re-installation.
2. For **2006 to 2011 models** remove two bolts holding rectifier onto front of frame (near front tire). Open plastic cover to gain access to front oxygen sensor connector. Unplug sensor from harness and feed end of wire through to free it from motorcycle. For **2012 to 2014 models** the connector is located under the rectifier at the front of the motorcycle.
3. Loosen heat shield clamps on both the front and the rear head pipes.
4. If equipped, remove front head pipe clamp carriage bolt.
5. Remove the bolt that attaches mufflers to the frame mounting bar.
6. Remove two cylinder exhaust port flange nuts from each head pipe, located at the cylinder head.
7. Remove the complete exhaust system and set aside (Assistance may be required).
8. Remove left bolt below the transmission cover. Position bracket 506-P over mounting location to determine which bolts to remove (Figure 1). Install removed bolt in the top hole left vacant by the new bracket.
9. Carefully remove the flanges and circlips from the stock exhaust system using snapping pliers. **NOTE:** Replace bent or damaged circlips.
10. Remove stock oxygen sensors.
11. Remove stock exhaust gaskets and replace them with the supplied exhaust gaskets. **NOTE:** Replacement gaskets, HD Screaming Eagle #17048-98 or equivalent.

FIGURE 1

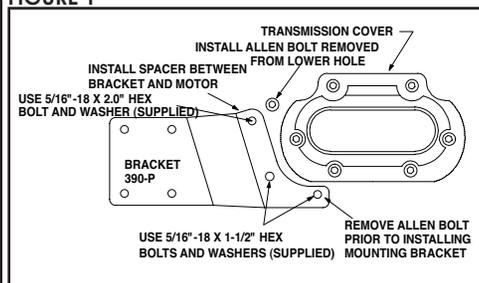


FIGURE 2

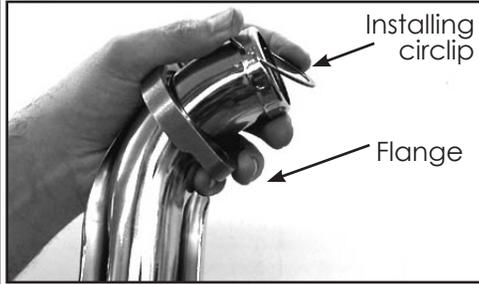


FIGURE 3



FIGURE 4

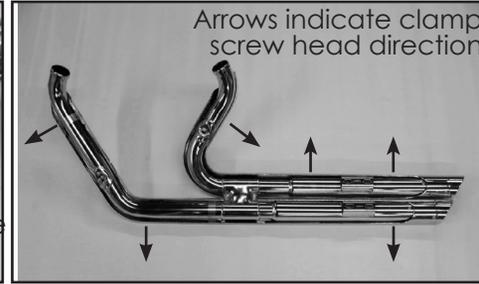


FIGURE 5



1. Attach mounting bracket 390-P to transmission and tighten to 12-15 Ft/Lb torque. (Figure 1). NOTE: 2006 to 2007 models use three 5/16" x 1-1/2" hex head bolts and washers. 2008 to 2011 models use three 5/16" x 1-1/2" hex head bolt, washers, 11/16" spacer between the bracket and transmission in top hole. 2012 and later models use one 5/16" x 2" hex head bolt, washers 11/16" spacer in top hole and two 5/16" x 1-1/2" hex head bolts and washers in remaining holes.
2. Remove head pipes from their protective packaging and install circlips and flanges from the stock system onto both new head pipes (Figure 2).
3. Apply a small amount of anti-seize compound to the threads of the oxygen sensors and install them into the new head pipe.  
NOTE: **2006 to 2011 models** or models using 18mm wideband oxygen sensors install sensor directly into head pipe. **2012 to 2014 models** install supplied 18mm to 12mm oxygen sensor adapter then install 12mm oxygen sensors (Grey connector into front head pipe, Black connector into rear head pipe.) All models not using oxygen sensors install 18mm plug with copper crush washer.
4. Remove heat shields from their 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. Using a pencil, lightly mark outside edge of each heat shield to show location of hose clamp mounting clips (Figure 3).
5. Lay header into heat shields tail end first, engaging end caps.
6. 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.
7. Loosely install hose clamps by feeding tail end of clamp into heat shield clips (Figure 3). Use #20 hose clamps for head pipe areas and #28 hose clamps for muffler areas. Take note of screw head direction (Figure 4). Screw head should be accessible when system is installed on motorcycle for adjustment purposes. NOTE: Do not tighten at this time.
8. Using stock flange nuts, carefully install head pipes into exhaust ports, starting with the rear cylinder. Assistance may be required. NOTE: Do not tighten at this time.
9. Slide nutplates inside the brackets that are welded to the backside of each muffler body (Figure 5). While holding nutplates in place, attach muffler bodies to mounting bracket 390-P using four 5/16"x 5/8" flange head bolts (supplied). Leave them loose at this time. NOTE: The muffler body brackets should align with the edges of mount bracket 390-P.
10. Tighten exhaust port flange nuts.
11. Tighten flange bolts securing muffler bodies to mount bracket 390-P.
12. Adjust the heat shields to get the best alignment and tighten all the hose clamps.
13. Feed wire for front O2 sensor through frame and into plastic holder on frame. Plug sensor into stock wiring connector. Snap plastic holder closed to hold connector in place.
14. Put toothed edge of wiring holder into slot in frame. Re-install rectifier so that it fits under tooth of wiring holder, keeping it in place in frame. Tighten both bolts.
15. Feed connector for rear O2 sensor through frame and into underseat compartment. Plug sensor into stock wiring connector.
16. Re-install seat.
17. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
18. Be sure to tighten all hardware before starting your motorcycle.

### EXHAUST CARE - HELPFUL HINTS TO AVOID DISCOLORATION OF EXHAUST SYSTEM

1. When installing a new set of black pipes, make sure your hands are clean and free of oil. After installation, thoroughly clean pipes with warm soapy water and a soft cloth. Dry with clean towel to remove any residue before starting the motorcycle. Do NOT use anything abrasive to clean pipes.
2. Avoid long periods of idling as this can cause discoloration.
3. Intake leaks can cause the engine to run lean and overheat, this could lead to discoloration.
4. Make sure there are no exhaust leaks at the junction of the exhaust pipes and cylinder head. We recommend replacing gaskets if they are worn.

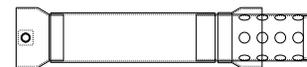
### VANCE & HINES OPTIONAL ACCESSORIES

#### FUELPAK



**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](http://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

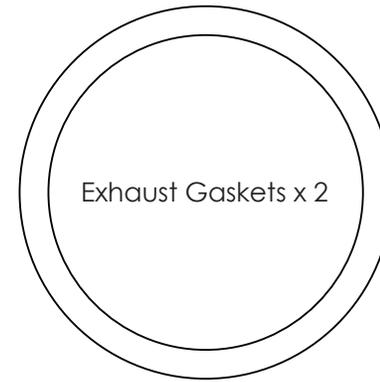
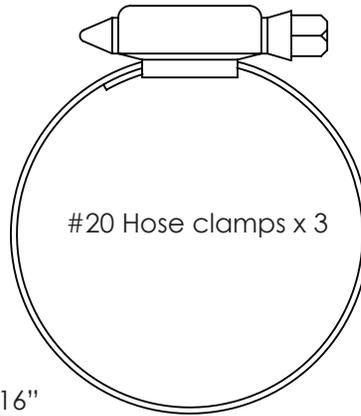
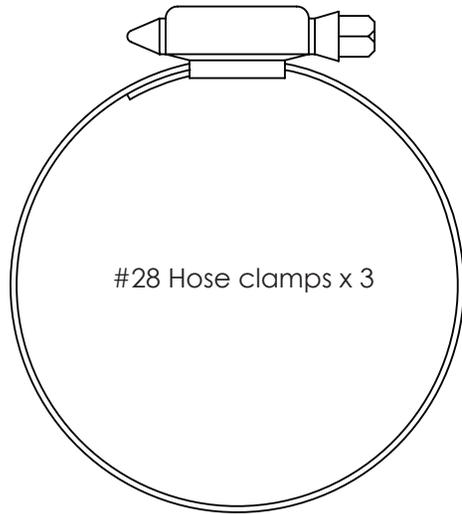


Quiet baffle P/N 21869 is available for this system. The quiet baffle will lower the sound level by 2-3db on average. Contact your local dealer to order.

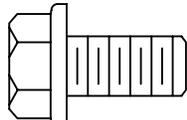
PLEASE NOTE: Every effort is made for Vance & Hines Exhaust Systems to provide improved cornering clearance. However, due to design and space limitations on some motorcycle models, ground and cornering clearance may not be improved and in some cases may be reduced. Be sure to follow proper installation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



### PACKING LIST



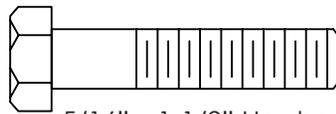
11/16" x 9/16"  
Spacer x 1



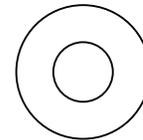
5/16" x 5/8" Flange head bolts x 4



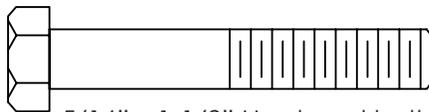
Nutplates x 2



5/16" x 1-1/2" Hex head bolts x 3



5/16" Flat washers x 3



5/16" x 1-1/2" Hex head bolts x 1

**PARTS NOT SHOWN:**  
390-P Bracket x 1  
D397FC Header assy x 1  
D397HP Front heat shield x 1  
D399HP-S Rear heat shield x 1

MORE POWER : LESS NOISE

ALL PARTS SHOWN ARE ACTUAL SIZE

### 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

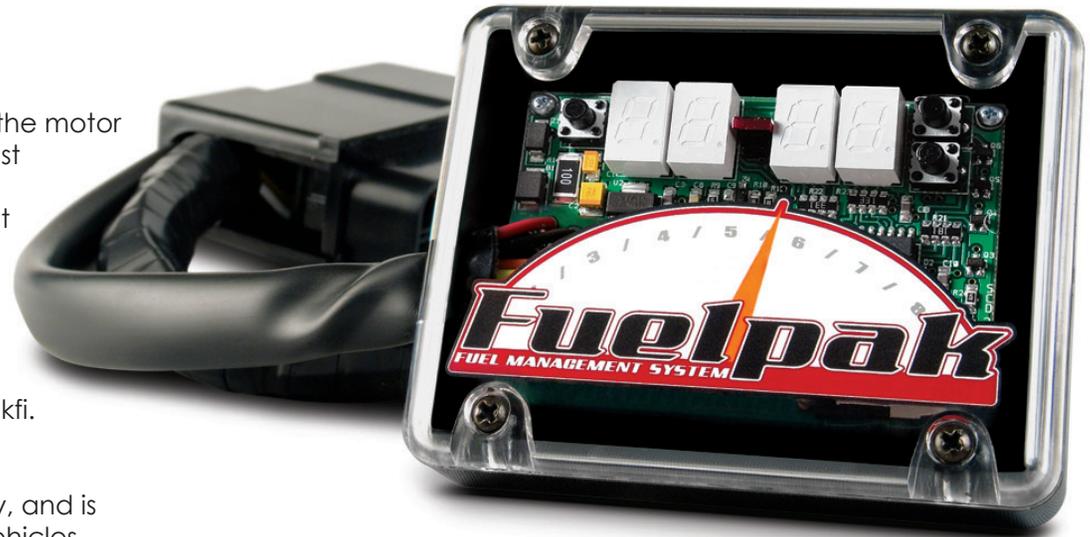
**GET THE MOST OUT OF YOUR RIDING EXPERIENCE...**

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](http://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.



**MORE POWER : LESS NOISE**

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VANCEANDHINES.COM