



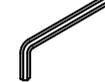
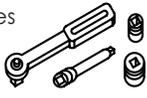
MORE POWER : LESS NOISE



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 and #3 Phillips Head
-  5/16" Nutdriver
-  Snapping pliers
-  1/2", 7/8", 14mm, 22mm Combination wrenches
-  3/16" & 1/4" Allen and T45 Torx wrenches
-  3/8" Ratchet & extensions  
19mm, 1/2" & 3/4" Socket  
7/16 & 9/16 Deep Sockets

**READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION**

**STOCK EXHAUST SYSTEM REMOVAL**

1. NOTE: Passenger foot pegs MUST be removed to install system.
2. 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.
3. 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.
4. Loosen heat shield clamps on both the front and the rear head pipes.
5. If equipped, remove front head pipe clamp carriage bolt.
6. Remove the bolt that attaches mufflers to the frame mounting bar.
7. Remove two cylinder exhaust port flange nuts from each head pipe, located at the cylinder head.
8. Remove the complete exhaust system and set aside (Assistance may be required).
9. 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.
10. Remove passenger foot peg mounting bracket. NOTE: Passenger foot pegs MUST be removed to install system.
11. Carefully remove the flanges and circlips from the stock exhaust system using snapping pliers. NOTE: Replace bent or damaged circlips.
12. Remove stock oxygen sensors.
13. Examine stock exhaust gaskets and replace them if they are worn or damaged. NOTE: Replacement Gasket HD #65324-83B.

FIGURE 1

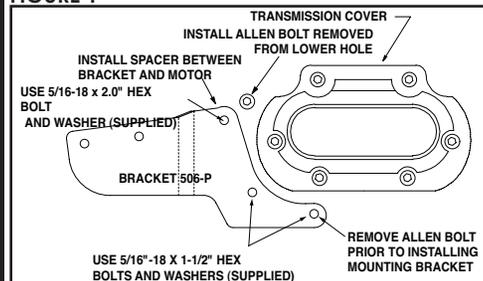


FIGURE 2

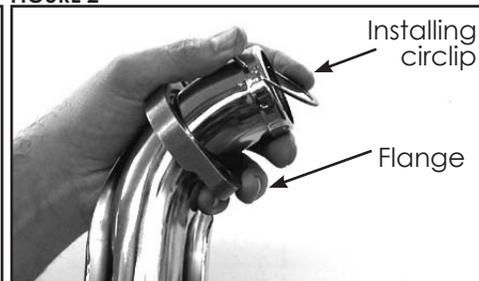


FIGURE 3

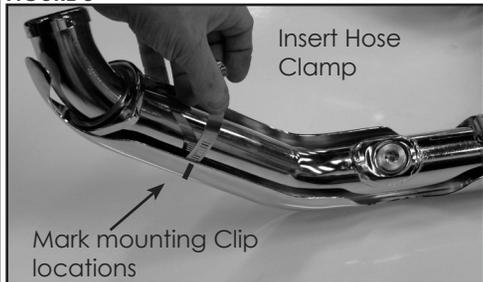


FIGURE 4

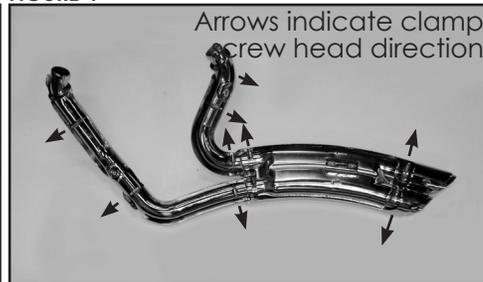


FIGURE 5



1. Attach mounting bracket 506-P to transmission and tighten to 12-15ft/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 1/12" hex head bolts, washers, and 11/16" spacer between the bracket and transmission in top hole. **2012 to 2014 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 and heat shields from protective packaging. Place each heat shield on a non-abrasive surface such as a blanket or carpet. Using a felt tip pen, mark outside edge of each heat shield to show location of hose clamp mounting clips. (Figure 3).
3. Lay header assembly into head pipe heat shields respectively. Loosely install #20 hose clamps by feeding the tail end of the clamp into heat shield clips. (Figure 3). 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.
4. 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.
5. Install exhaust port flanges and circlips (from stock system) onto head pipes (Figure 2).
6. 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.
7. Use the nut plate and the 5/16" x 5/8" flange head bolts to attach the header assembly to the bracket.
8. Tighten exhaust port flange nuts first then tighten 5/16" x 5/8" flange bolts.
9. Install muffler heat shields on the header assembly (V&H stamped logo on top, no logo on bottom) using the #36 hose clamp in rear location and #28 hose clamp in forward position. Adjust muffler heat shields for a 1/4" gap between the heat shields and exhaust tip (Figure 5) and tighten all hose clamps.
10. Feed wire for front oxygen sensor through frame and into plastic holder on frame. Plug sensor into stock harness.
11. 2006 to 2011 models 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.
12. Feed connector for rear oxygen sensor through frame and into under seat compartment. Plug sensor into stock harness.
13. Re-install seat.
14. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
15. Be sure to tighten all hardware before starting your motorcycle.
16. After installation and before starting motorcycle, completely clean pipes and mufflers with clean warm soapy water and clean soft cloth. Dry with clean towel to remove any residue. NOTE: Any residue, oil, or fingerprints will stain the chrome when the metal heats up.

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

1. When installing a new set of chrome 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 (chrome wax / polish, glass cleaner, alcohol, ammonia, etc...) before starting the motorcycle.
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.

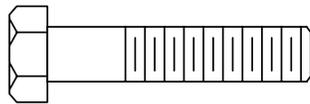
PLEASE NOTE: Every effort is made for Vance & Hines Exhaust Systems to provide improved cornering clearance. However, due to design and space limitations on some motorcycle models, ground and cornering clearance may not be improved and in some cases may be reduced. Be sure to follow proper installation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



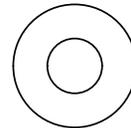
PACKING LIST

MORE POWER : LESS NOISE

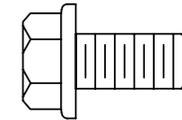
ALL PARTS SHOWN ARE ACTUAL SIZE



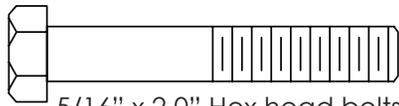
5/16" x 1-1/2" Hex head bolts x 3



5/16" Flat washers x 3



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



5/16" x 2.0" Hex head bolts x 1



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



**PARTS NOT SHOWN:**

506-P	Bracket	x 1
D372FC	Header assy	x 1
D372HC	Front heat shield	x 1
D373HC	Rear heat shield	x 1
D644HC	Front muffler heat shield	x 1
D645HC	Rear muffler heat shield	x 1
A213HW	18mm Plug	x 2
A644ST	18-12mm O2 Adaptor	x 2
A121HW	18mm Washer	x 2

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.

### 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.

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