









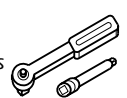
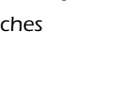

MORE POWER : LESS NOISE



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
-  5/16" Nutdriver
-  13mm, 7/16" & 1/2" Combination wrenches
-  5,6 & 8mm Allen wrenches
-  T25 Torx wrench
-  Snapping pliers
-  3/8" Ratchet, Extensions
-  1/2" & 12mm Sockets
-  13 & 15mm Deep sockets

READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

**STOCK EXHAUST
SYSTEM REMOVAL**

1. Remove lower collector heat shield.
2. Loosen muffler clamps with 15mm socket.
3. Remove bolt attaching muffler to lower mounting bar.
4. Remove bolt attaching muffler to passenger footpeg.
5. Remove bolts attaching upper muffler to lower muffler.
6. Remove mufflers one at a time.
7. Loosen nose slip clamp of collector section using 13mm socket.
8. Remove right side footpeg for easy removal of system.
9. Remove collector section.
10. Remove stock mounting bar. Save bolts or nuts depending on year and model for re-use.
11. Remove front sprocket cover (on left side of bike) to gain access to rear cylinder flange nut. NOTE: It may be

- necessary to loosen the left footpeg in order to remove the cover.
12. Loosen the head pipe heat shields. Remove the exhaust port flange nuts at both cylinders and remove both head pipes.
 13. Remove exhaust flanges and circlips for re-use.

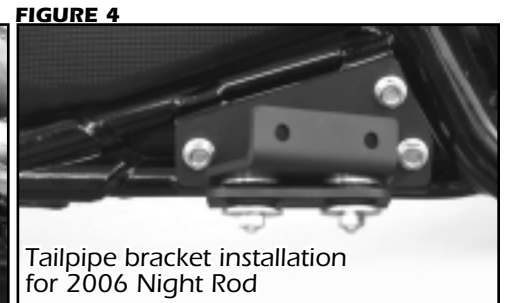
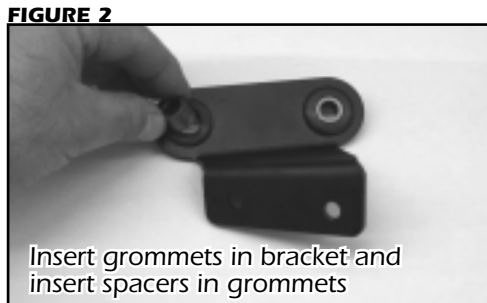
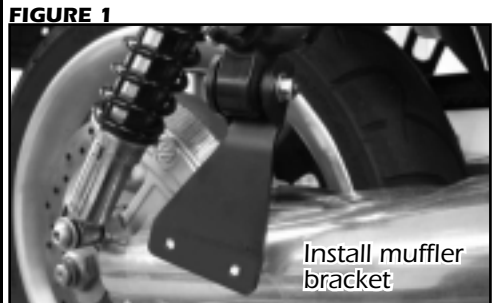


FIGURE 5

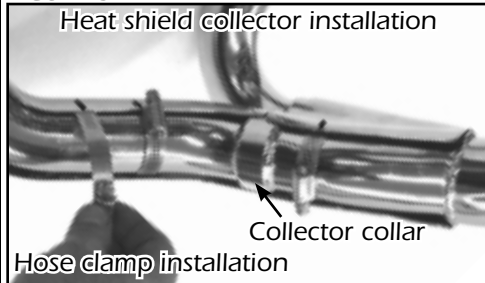


FIGURE 6

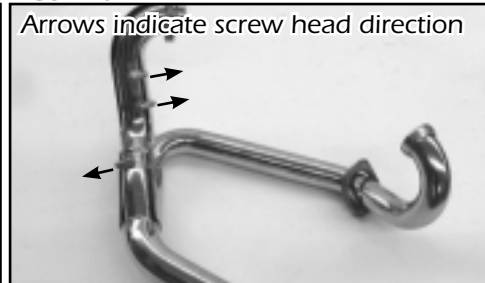


FIGURE 7

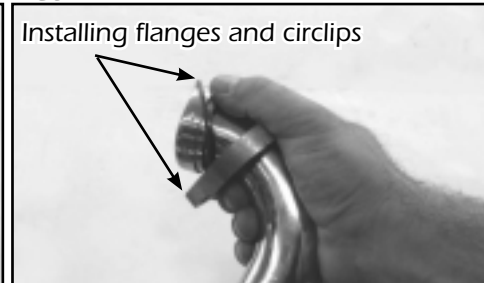
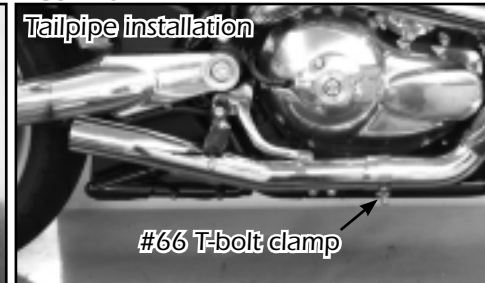


FIGURE 8



VANCE & HINES EXHAUST SYSTEM INSTALLATION

1. Attach mounting bracket 409-P to passenger footpeg using 8mm x 55mm allen bolt and nut (supplied)(Figure 1).
2. **Tailpipe bracket installation.** (Please go to the step that refers to your motorcycle's model and year)
 - 2006-2007 Street Rod:**
 - a. Install rubber grommets (supplied) into large holes in bracket 410-P.
 - b. Insert spacers (supplied) into grommets (Figure 2).
 - c. Using large washers (supplied) on both sides of bracket, install to stock mounting bar location using two stock allen bolts (Figure 3). NOTE: It is recommended to use medium strength locking agent on these bolts.
 - 2006 Night Rod:**
 - a. Install rubber grommets (supplied) into large holes in bracket 434-P.
 - b. Insert spacers (supplied) into grommets (Figure 2).
 - c. Using large washers (supplied) on both sides of bracket, attach to bracket 433-P using two M8x35mm allen bolts and two M8 SS lock nuts (supplied)(Figure 4).
 - d. Install bracket 434-P to stock mounting studs on frame using stock flange nuts (Figure 4).
 - 2007 Night Rod:**
 - a. Install rubber grommets (supplied) into large holes in bracket 432-P.

- b. Insert spacers (supplied) into grommets (Figure 2).
 - c. Using large washers (supplied) on both sides of bracket, attach bracket 432-P to frame using two M8x35mm allen bolts (supplied).
3. 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 mounting clips that hose clamps will loop through (Figure 5).
4. Install front heat shield and collector heat shield using #20 hose clamps (supplied) by feeding tail end of clamps into heat shield clips (Figure 5). Note direction of clamp screw heads (Figure 6). Screw head must be accessible when system is installed on motorcycle for adjustment purposes. Do not tighten at this time.
5. Install exhaust port flanges and circlips (from stock system) onto head pipes (Figure 7).
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. Slide #66 T-bolt clamp (supplied) onto front of tailpipe. Install tailpipe onto header (Figure 8). NOTE: Orient the clamp so that you can access the nut after installation. Do not tighten at this time.

Instructions continue on page 3.

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 a soft cloth and cleaning solvent that will leave no 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 the new Fuelpak Fuel Management System, P/N 61005. Contact your local dealer or call (562) 921-7461 to order. Visit vanceandhines.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.

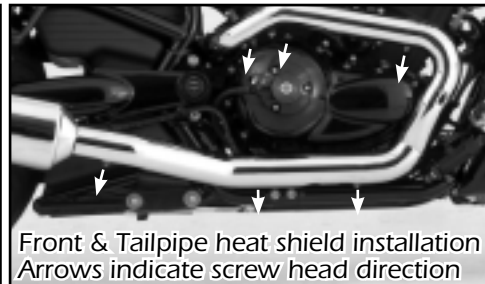
PLEASE NOTE: Every effort is made for Vance & Hines Exhaust Systems to provide improved cornering clearance. However, due to design and space limitations on some motorcycle models, ground and cornering clearance may not be improved and in some cases may be reduced. Be sure to follow proper installation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

FIGURE 9



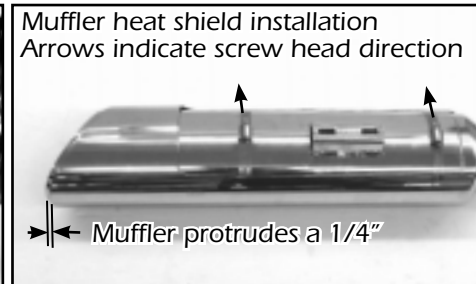
Nut plate installation

FIGURE 10



Front & Tailpipe heat shield installation
Arrows indicate screw head direction

FIGURE 11



Muffler heat shield installation
Arrows indicate screw head direction

Muffler protrudes a 1/4"

VANCE & HINES EXHAUST SYSTEM INSTALLATION

8. Slide nut plate into bracket on back of tailpipe. Loosely install two 5/16" x 5/8" flange bolts (supplied) to attach tailpipe to mounting bracket (Figure 9).
9. Lay muffler body into muffler heat shield and install #64 hose clamps into heat shield clips. Note direction of clamp screw heads (Figure 11). NOTE: Muffler body should protrude from heat shield a 1/4". Make sure the gap between muffler body and heat shield tip looks even all the way around. Tighten both hose clamps.
10. Slide T-bolt clamp onto front of muffler. Install muffler onto tailpipe. Carefully slide muffler inside heat shield. Baffle slides inside tailpipe. NOTE: Orient the clamp so you can access the nut after installation. Do not tighten at this time.
11. Slide nut plate (supplied) into bracket on back of muffler. Loosely install two 5/16" x 5/8" flange bolts (supplied) to attach muffler to mounting bracket.
12. Loosely install tailpipe heat shield onto tailpipe (use #28 hose clamps) and rear heat shield onto rear head pipe (use #20 hose clamps). Note direction of clamp screw heads (Figure 10).
13. Tighten exhaust port flange nuts and mounting bracket bolts.
14. Tighten T-bolt clamps on tail pipe and muffler.
15. Tighten all hose clamps. NOTE: Align heat shields evenly with collector heat shield.
16. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
17. Be sure to tighten all hardware before starting your motorcycle.
18. After installation and before starting motorcycle, completely clean pipes and mufflers with cleaning solvent and a clean, soft cloth that will not leave a 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

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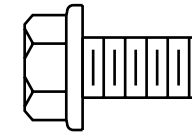
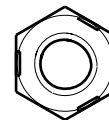
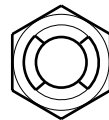
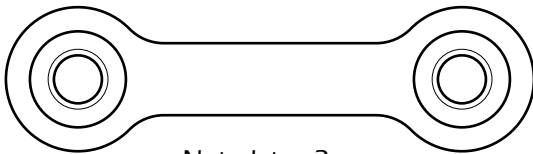
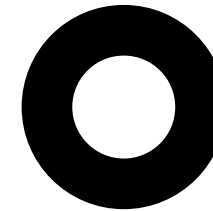
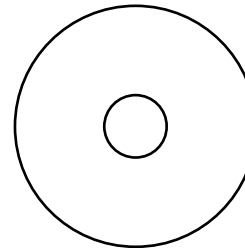
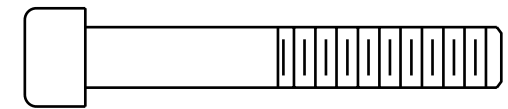
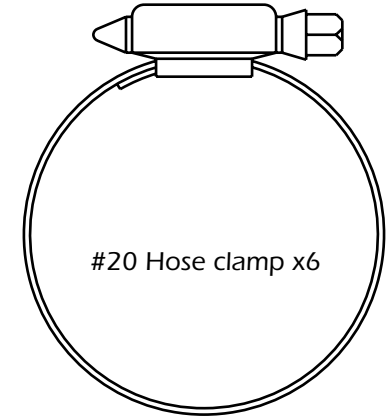
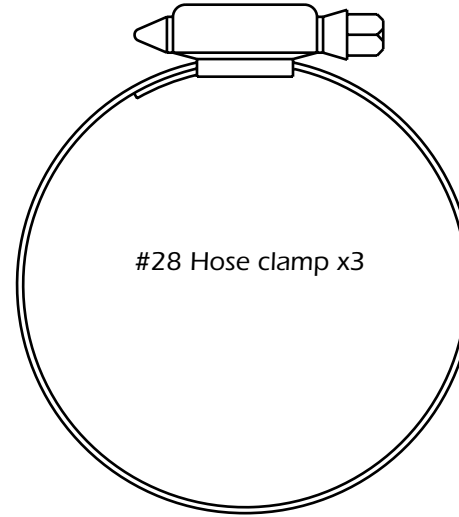
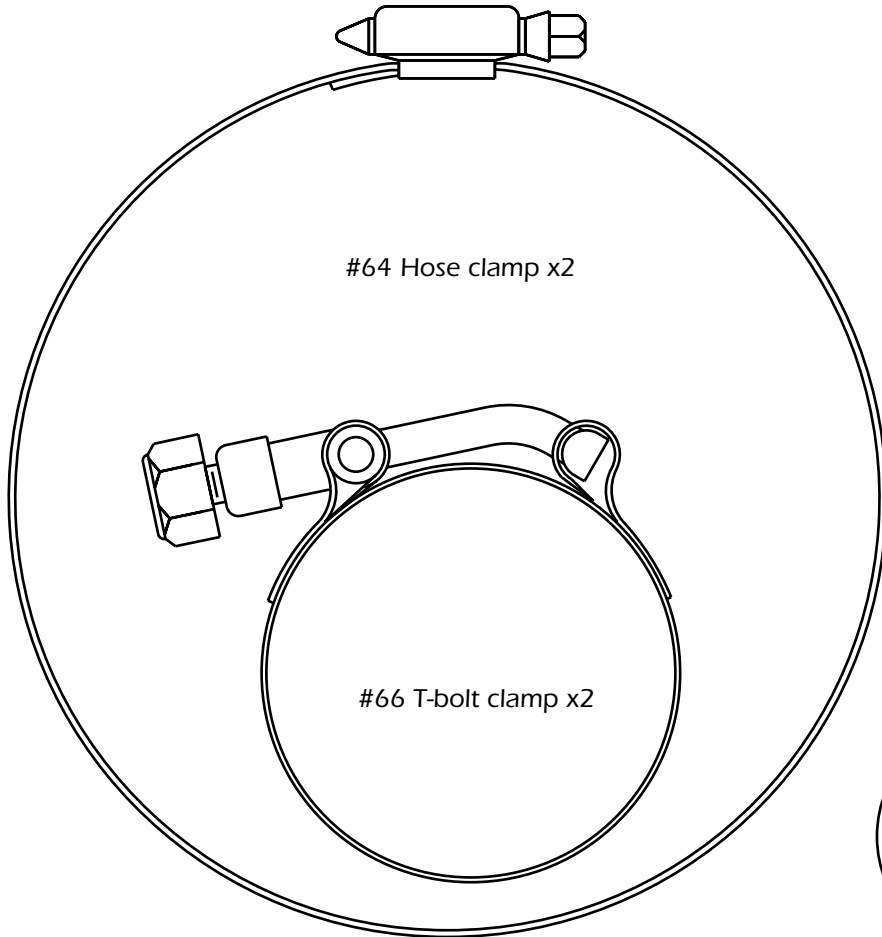
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PACKING LIST

MORE POWER : LESS NOISE

ALL PARTS SHOWN ARE ACTUAL SIZE



PARTS NOT SHOWN:

- 409-P Bracket x 1
- 410-P Bracket x 1
- 432-P Bracket x 1
- 433-P Bracket x 1
- 434-P Bracket x 1
- D445FC Header x1
- D447RC Tailpipe x1
- D449RC Muffler x1
- D445HC Front heat shield x1
- D446HC Rear heat shield x1
- D447HC Tailpipe heat shield x1
- A145HC Muffler heat shield x1
- A140HC Collector 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 vanceandhines.com/fuelpak.

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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