

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**

-  5, 6 & 8mm Allen Wrenches
-  5/16" Nutdriver
-  1/2", 12, 14, & 22mm Combination wrenches
-  Flat blade screwdriver
-  3/8" Ratchet, Extensions, 1/2", 10, 12, 14, & 17mm sockets

READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

**STOCK EXHAUST
SYSTEM REMOVAL**

1. Cover the frame tube in front of the exhaust with duct tape or any suitable material to protect frame from scratching during exhaust removal.
2. Loosen and remove the two bolts on the rear brake pedal assembly with 12mm socket and carefully lower it out of the way.
3. Loosen the clamp that holds the muffler body to the collector with a 6mm allen.
4. Remove the three allen cap screws holding bracket/muffler bodies to frame with 8mm allen, and remove/slide mufflers off.
5. Remove plastic side covers to access O2 sensor plug. Note cable routing for reinstallation. Unplug sensor at harness connector. Carefully disconnect black cable tie and put aside for use later (Figure 1).
6. Remove the flange nuts holding the exhaust headers to the cylinder heads with a 12mm socket. Save these for re-use. NOTE: It may be necessary to loosen the heat shield clamps to access the nuts on the front cylinder. Carefully remove the header from the motorcycle (may require assistance).
7. Using a 22mm wrench, carefully remove the O2 sensor from the exhaust and put aside for reuse later.
8. Remove two cap screws holding brake master cylinder to brake pedal assembly. NOTE: Put cap screws aside for reuse during installation.
9. Check the stock exhaust gaskets to be sure they are in good condition. If you have any doubts as to their condition, replace them.

FIGURE 1



Remove plastic covers

FIGURE 2



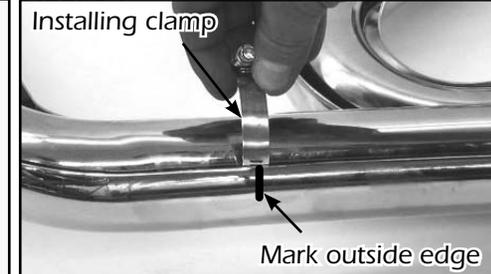
Install 716-P bracket

FIGURE 3



Aligning clip spacer

FIGURE 4-



Installing clamp

Mark outside edge

FIGURE 5

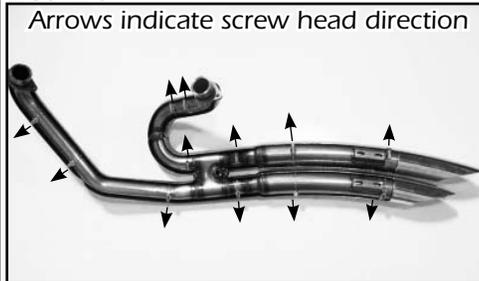


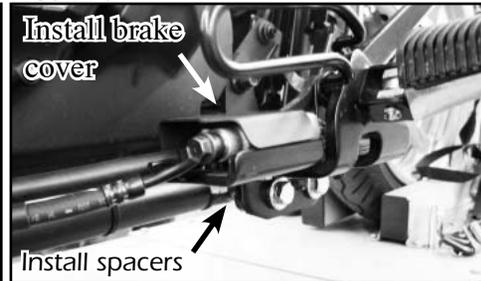
FIGURE 6



FIGURE 7



FIGURE 8



VANCE & HINES EXHAUST SYSTEM INSTALLATION

1. Install mounting bracket 716-P to frame by using two 10mm x 35mm flange head bolts (A292HW) for bottom holes of bracket and one 10mm x 20mm (A291HW) flange head bolt (supplied) for top hole (Figure 2).
2. Remove head pipe assembly and head pipe 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 4).
3. Lay head pipes into their respective heat shields.
4. Place upper rear cylinder heat shield over the retaining lip of lower rear cylinder heat shield aligning clip. (Figure 3).
5. Install #20 hose clamps by feeding tail end of clamps into heat shield clips (Figure 4). Take note of clamp screw head direction (Figure 5). Screw head must be accessible when system is installed on motorcycle for adjustment purposes. Be sure screw head on lower rear cylinder heat shield is rotated to clear side cover to prevent scratching.
6. Apply a small amount of anti-seize compound to the threads of the O2 sensor and install it into the new head pipe. NOTE: Be careful not to get anti-seize on O2 sensor tip, it may affect sensor function.
7. Using stock flange nuts, carefully install head pipe assembly into exhaust ports, starting with the rear cylinder. Assistance may be required. NOTE: Do not tighten at this time.
8. Slide the two nut plates (supplied) into the brackets that are welded to the back side of the mufflers (Figure 6). Loosely install four 5/16" x 5/8" flange head bolts (supplied).
9. Tighten the exhaust port flange nuts. Using #36 hose clamps (supplied), install the muffler body heat shields onto muffler bodies. Take note of clamp screw head direction (Figure 5).
10. Place muffler body heat shields over the front and rear header heat shields so that both header heat shield ends are just covered by the muffler heat shields. Align the front edge of the muffler heat shields so that they are flush with each other. Finger tighten the 5/16" flange head bracket bolts for muffler alignment after the muffler heat shields are installed.
11. Tighten all hose clamps securing heat shields. NOTE: Align rear cylinder heat shields evenly then tighten. (Figure 7)
12. Align muffler bodies so that the vertical gap between the mufflers is the same from front to back and tighten the 5/16" flange head muffler body bracket bolts.
13. Insert the rear O2 sensor plug into the extension #Y100EX (Supplied). Plug extension into harness and tuck harness into original routing position. Reinstall the cover. Use stock and supplied black cable ties to attach O2 wires and extensions to bike.
14. Install brake master cylinder cover onto brake pedal assembly using stock cap screws. (Figure 8).
15. Re-install the rear brake pedal assembly with two supplied spacers (A575ST-P), two washers (A106HW), and two supplied 10mm x 120 mm hex cap screws (A490HW). Install the spacers (one per fastener) between the rear brake pedal assembly and frame for proper clearance (Figure 8).
16. Check for adequate clearance between all exhaust system components and motorcycle.
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

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 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.

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.

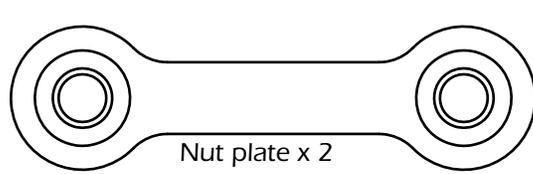
PACKING LIST

MORE POWER : LESS NOISE

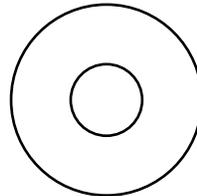
ALL PARTS SHOWN ARE ACTUAL SIZE



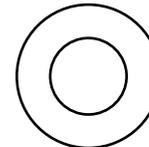
Nylon cable tie x 1



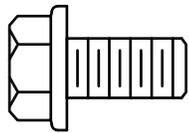
Nut plate x 2



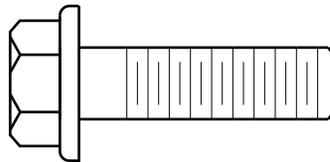
Washer x 2



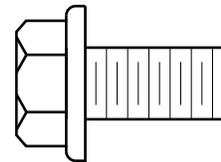
Spacer x 2



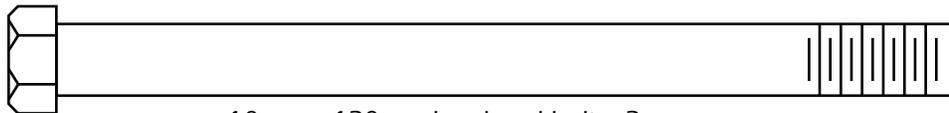
5/16" x 5/8" Flange bolt x 4



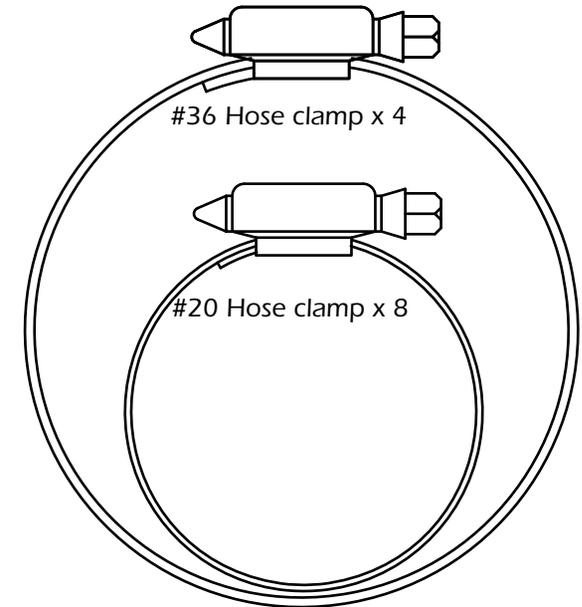
10mm x 35mm flange bolts x 2



10mm x 20mm flange bolt x 1



10mm x 120mm hex head bolt x 2



#36 Hose clamp x 4

#20 Hose clamp x 8

PARTS NOT SHOWN:

716-P	Bracket	x1
Y365FC	Header	x1
Y365HC	Front heat shield	x1
Y366HC	Rear top heat shield	x1
Y367HC	Rear bottom heat shield	x1
Y337HC	Front muffler heat shield	x1
Y338HC	Rear muffler heat shield	x1
A110HP	PC Cover	x1
A115HP	Brake master cylinder cover	x1
Y100EX	Sensor extension	x1
A575ST-P	Floorboard spacer	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 motorcycle 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.



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