

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**

-  4, 5, 6 & 8mm Allen Wrenches
-  5/16" Nutdriver
-  1/2", 10, 12, & 17mm Combination wrenches
-  Flat blade screwdriver
-  3/8" Ratchet, Extensions, 1/2" and 12mm sockets

READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

**STOCK EXHAUST
SYSTEM REMOVAL**

1. Cover the frame tube in front of the front exhaust header and any other vulnerable areas with duct tape or any suitable material to protect frame during exhaust removal and installation.
2. Loosen and remove the two bolts holding the rear brake pedal assembly. (Figure 1)
3. Leaving hydraulic and electrical connections in place, carefully lower the brake pedal assembly out of the way.
4. Loosen the clamp that holds the muffler body to the pipe collector.
5. Remove the three fasteners holding the muffler body and bracket to the motorcycle chassis. (Figure 2)
6. Carefully remove the muffler body with attached lower muffler body bracket as an assembly and set to the side (may require assistance).
7. Remove the upper muffler body bracket fasteners and upper muffler body bracket from the motorcycle chassis. Note: Brake reservoir is attached to upper muffler bracket. Carefully remove the brake reservoir from bracket and place to the side, keeping hydraulics connected. Keep brake reservoir fasteners for re-use. (Figure 3)
8. Remove the fasteners securing the front and rear exhaust header pipe flange to the cylinder heads. NOTE: It may be necessary to loosen the heat shield clamps to access the nuts on the front cylinder.
9. Carefully remove exhaust header pipes from the motorcycle (may require assistance).
10. Check the stock exhaust gaskets to be sure they are in good shape. If you have any doubts as to their condition, replace them.

FIGURE 1



FIGURE 2

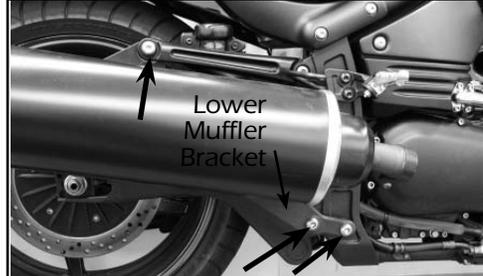


FIGURE 3

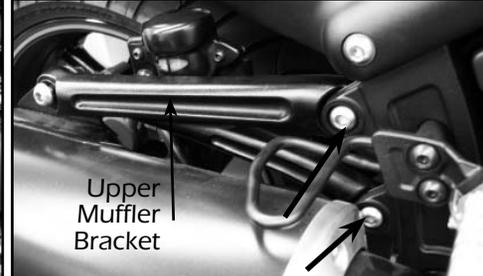


FIGURE 4

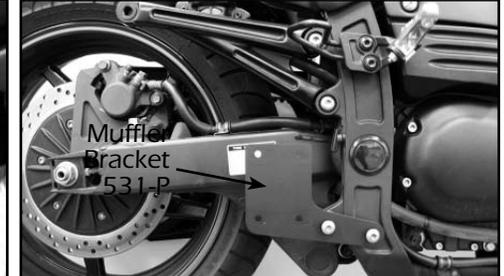


FIGURE 5

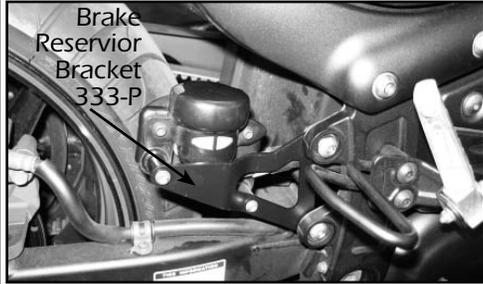


FIGURE 6

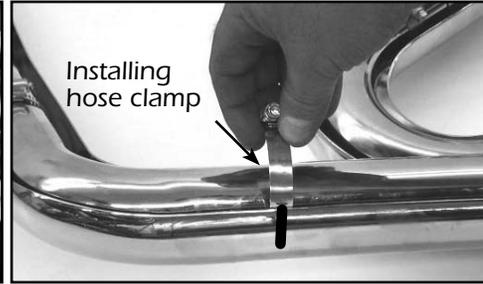


FIGURE 7

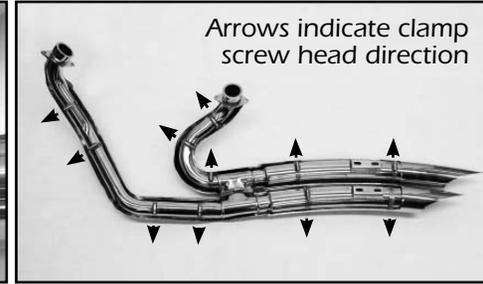
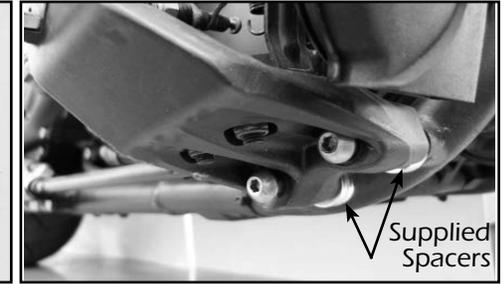


FIGURE 8



VANCE & HINES EXHAUST SYSTEM INSTALLATION

1. Install muffler mounting bracket 531-P to frame by using two 10mm x 25mm Button head bolts. (Figure 4).
2. Install brake reservoir to bracket 333-P, and bracket/reservoir assembly to frame using previously removed bracket fasteners and supplied button head bolts, M10 and M6 lock nuts. (Figure 5)
3. Remove head pipe assembly and head pipe heat shields from protective packaging. Place 1-2 layers of masking tape over black coated crossover cover (fastened between front and rear header pipes) for protection during installation. 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.
4. Lay head pipes into their respective heat shields.
5. Install #20 hose clamps by feeding tail end of clamps into heat shield clips (Figure 6). Take note of clamp screw head direction. Screw head must be accessible when system is installed on motorcycle for adjustment purposes. See Figure 6 and 7.
6. Using #36 hose clamps (supplied), and following the same procedures as steps 3, 4 & 5, install the muffler body heat shields onto muffler bodies.
7. Starting with the rear cylinder, carefully install both head pipe assemblies into exhaust ports. Assistance may be required. Use the stock fasteners to secure the front and rear exhaust header pipe flanges to the cylinder heads. NOTE: Do not tighten at this time.
8. Slide two nut plates (supplied) flat side towards the bike into the brackets that are welded to the back side of the mufflers. Install two 5/16" x 5/8" flange head bolts (supplied) on each muffler body bracket.
9. Tighten the exhaust port flange fasteners and the 5/16" flange head bracket bolts.
10. Tighten all hose clamps securing heat shields.
11. Install two supplied spacers between rear brake pedal assembly and frame. Re-install brake pedal assembly using OEM bolts. (Figure 8)
12. Tighten the rear brake pedal assembly mounting bolts to factory specifications.
13. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
14. Be sure to tighten all hardware before starting your motorcycle.
15. After installation and before starting your motorcycle, completely clean pipes and mufflers with warm soapy water and a clean soft cloth. Dry with a clean towel. NOTE: any residue, oil, or fingerprints will stain the chrome or black coating when the metal heats up. Do NOT use anything abrasive to clean the pipes as it may damage or remove the finish.

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 soapy water that will leave no residue 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



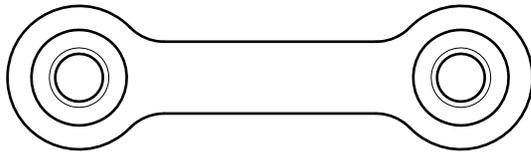
FUEL MANAGEMENT:
Take the guess work out of fuel injection with Fuelpak Fuel Management. Contact your local dealer or call (562) 921-0071 to order. Visit fuelpakfi.com for more information. Fuelpak is intended for racing or off-highway use only, and is not legal for sale or use in California on pollution-controlled 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.

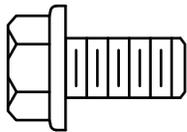
PACKING LIST

MORE POWER : LESS NOISE

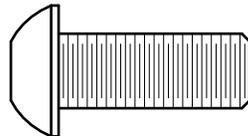
ALL PARTS SHOWN ARE ACTUAL SIZE



Nut plate x2



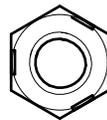
5/16 x 5/8 Flange Bolt x4



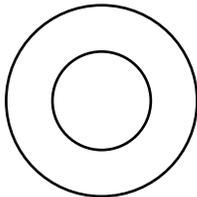
10mm-1.25 x 25mm x2



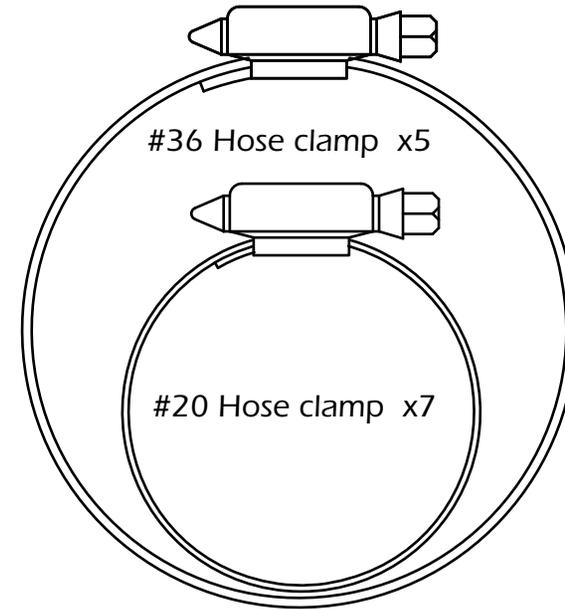
M6-1.0 Nylock Hex Nut x2



M10-1.25 Metal Lock Nut x2



1/2x 1 x 3/16 Spacer x4



#36 Hose clamp x5

#20 Hose clamp x7

PARTS NOT SHOWN:

Y340FC	Header	x1
Y340HC	Front Heat Shield	x1
Y336HC	Rear Heat Shield	x1
Y337HC	Front Muffler Heat Shield	x1
Y338HC	Rear Muffler Heat Shield	x1
531-P	Bracket, Muffler	x1
333-P	Bracket, Brake Reservoir	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.



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