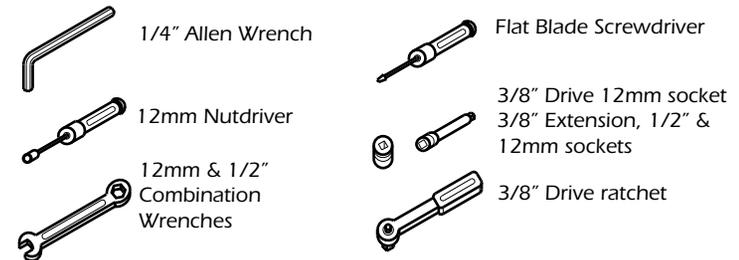




Congratulations, you have purchased the finest exhaust system for your motorcycle on the market. Your Vance & Hines exhaust system is designed and crafted for maximum performance, a perfect fit, a great sound and unbeatable style. Please follow the installation instructions below and if you have any 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**



READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

**STOCK EXHAUST
SYSTEM REMOVAL**

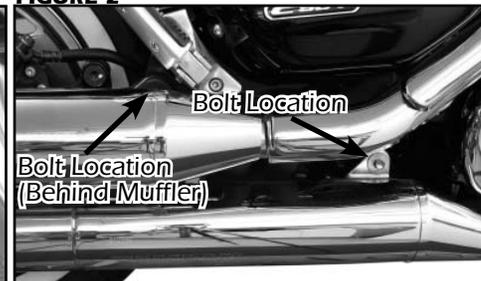
1. If your motorcycle is equipped with saddlebags remove them before continuing with this installation.
2. On the left side of the motorcycle, remove the 12mm bolt attaching the muffler chamber to the chassis (Figure 1).
3. On the right side of the motorcycle, remove the two 12mm bolts and nuts (Figure 2).
4. Remove the 12mm dome nuts and the 12mm dome cap bolt from the stock exhaust system flanges. Be sure to support the stock exhaust when removing these as the system will drop when the nuts and bolts are removed. NOTE: Assistance may be required and is highly recommended.
5. Carefully remove the stock exhaust system as one unit from the motorcycle.
6. Remove the 2 stock rubber grommets as shown in figure 3.
7. 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



Left Bolt Location

FIGURE 2



Bolt Location
(Behind Muffler)

Bolt Location

FIGURE 3



Rubber Grommet
Locations

FIGURE 4



FIGURE 5

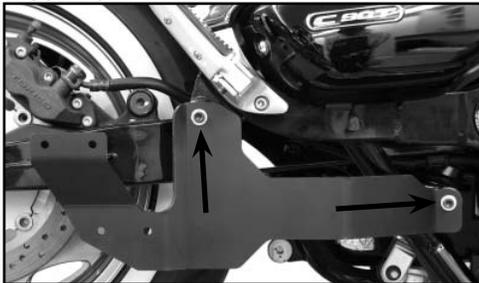


FIGURE 6

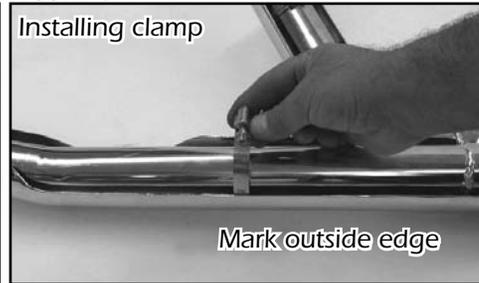


FIGURE 7

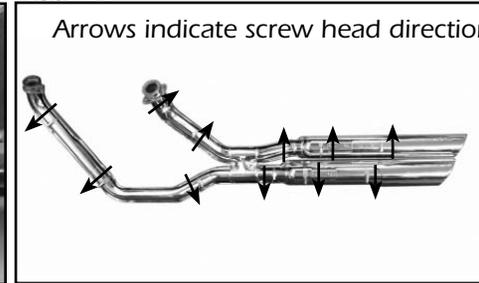


FIGURE 8



VANCE & HINES EXHAUST SYSTEM INSTALLATION

1. Install the black spacers in the rubber grommet holes (figure 4 Each hole will require 2 spacers, 1 in the front, 1 in the back).
2. Install the bracket stamped 513-P, (supplied) to the motorcycle chassis using the 5/16" x 1 3/4" bolts, washers and nuts (supplied)(Figure 5).
3. Remove exhaust system and heat shields from protective packaging and place them on a non-abrasive surface such as a blanket or carpet. Using a non-permanent marker or tape, mark outside edge of each heat shield to show location of mounting clips that the hose clamps will loop through (Figure 6).
4. Carefully lay heat shields onto header assembly and loosely install the #20 hose clamps (supplied) on head pipe heat shields by feeding the tail end of the clamp into the heat shield clips. Take note of screw head direction (Figure 7), for adjustment purposes they must be accessible when system is installed. NOTE: Do not tighten the clamps at this time.
5. Using stock dome nuts, carefully install system into exhaust ports. (Assistance may be required). NOTE: Install but do not tighten the exhaust nuts at this time.
6. Attach exhaust system to bracket using the four 5/16" x 5/8" flange hex bolts (supplied) and two nut plates (supplied). Slide the nut plates into each of the brackets that are welded to the back of the muffer bodies and secure to bracket using the four flange hex bolts. NOTE: Do not fully tighten at this time.
7. Remove the muffer heat shields from their protective packaging. Place them on a non-abrasive surface such as a blanket or carpet.
8. Place the #44 hose clamps (supplied) into the muffer heat shields and slide muffer heat shields onto the muffer bodies taking care not to scratch the head pipe heat shields. NOTE: The heat shield with the logo stamp should be on top.
9. Align the ends of the muffer heat shields so they match up when viewed from the top and right hand side of the motorcycle (Figure 8). NOTE: The muffer heat shields should extend beyond the muffer bodies by 1/2" when measured at the bottom edge.
10. Tighten the hose clamps on the muffer body heat shields while making sure they all remain level and aligned.
11. Tighten the exhaust port dome nuts first, then the 5/16" x 5/8" hex flange bolts on muffer bodies.
12. Align the front and rear head pipe heat shields and tighten the hose clamps, making sure that the desired alignment is not changed.
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 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



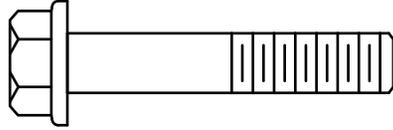
FUEL MANAGEMENT:

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.

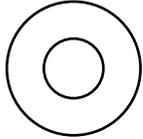
PLEASE NOTE: Every effort is made for Vance & Hines Exhaust Systems to provide improved cornering clearance. However, due to design and space limitations on some motorcycle models, ground and cornering clearance may not be improved and in some cases may be reduced. Be sure to follow proper installation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

PACKING LIST

5/16" x 1 3/4" Bolt x2



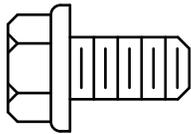
5/16" Washer x4



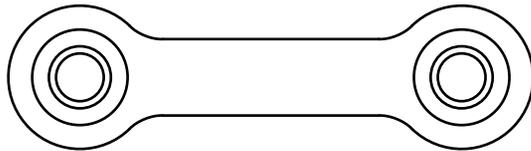
5/16" Nut x2



5/16" x 5/8" Flange bolts x4

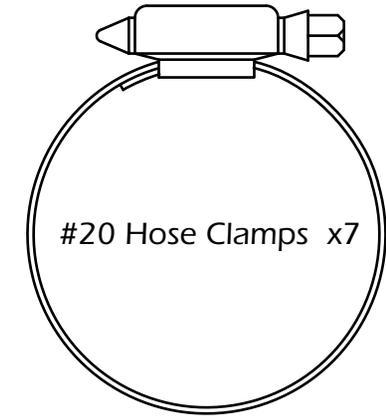
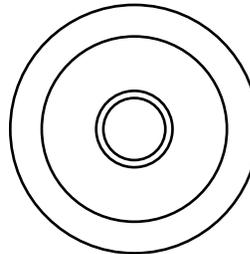


Nut plates x2



#44 Hose Clamps x4

Spacer x4



#20 Hose Clamps x7

PARTS NOT SHOWN:

513-P	Bracket	x1
S380FC	Header	x1
S380HC	Front Heat Shield	x1
S381HC	Rear Heat Shield	x1
D288HC	Front Muffler Heat Shield	x1
S368HC	Rear Muffler Heat Shield	x1

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

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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