



Snapring pliers

3/8" Ratchet &

1/2", 19mm Sockets

extensions

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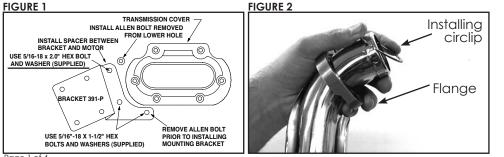


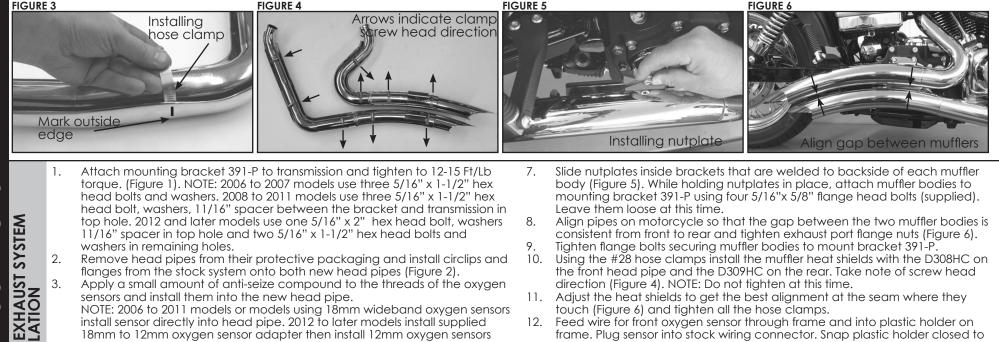
7/16 & 9/16 Deep Sockets

READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

- 1. Remove seat to gain access to rear oxygen sensor connector. Unplug sensor and feed end of wire through frame so that it is free from motorcycle. NOTE: Pay attention to wire routing for re-installation.
- 2. 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 ahrness and feed end of wire through to free it from motocycle. For 2012 to later models the connector is located under the rectifier at the front of the motorcycle.
- 3. Loosen heat shield clamps on both the front and rear head pipes.
- 4. Remove front head pipe clamp bolt.
- 5. Remove the bolt that attaches rear head pipe clamp to mounting bar.
- 6. Remove two cylinder exhaust port flange nuts from each head pipe, located at the cylinder head.

- 7. Remove the complete exhaust system and set aside. Assistance may be reauired.
- 8. Remove stock mounting bar and the studs in the transmission cover.
- 9. Remove left bolt below the transmission cover. Position mounting bracket 391-P over mounting location to determine which bolts to remove (Figure 1). Install this bolt in the top hole left vacant by the new bracket.
- 10. Carefully remove the flanges and circlips from the stock exhaust system using snapring pliers. NOTE: Replace bent or damaged circlips.
- 11. Remove stock exhaust gaskets and replace them with the supplied exhaust gaskets. NOTE: Replacement gaskets HD Screaming Eagle #17048-98 or equivalent
- 12. Remove stock oxygen sensors and set them aside for they will be re-used on new system.





- 12. Feed wire for front oxygen sensor through frame and into plastic holder on frame. Plug sensor into stock wiring connector. Snap plastic holder closed to (Grey connector into front head pipe, Black connector into rear head pipe.) hold connector in place.
 - 13. 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.
 - 14. Feed connector for rear oxygen sensor through frame and into undersegt compartment. Plug sensor into stock wiring connector.
 - 15. Re-install seat.
 - 16. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
 - Be sure to tighten all hardware before starting your motorcycle. 17.
 - 18. After installation and *before* starting motorcycle, completely clean pipes and mufflers with warm soapy water 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

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

adjustment purposes. NOTE: Do not tighten at this time.

Avoid long periods of idling as this can cause discoloration.

mounting clips (Figure 3).

- 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



this time.

FUEL MANAGEMENT:

18mm to 12mm oxygen sensor adapter then install 12mm oxygen sensors

Remove heat shields from their protective packaging. Place each heat

Lay head pipes (D418FC & D419FC) into head pipe heat shields (D400HC

& D403HC) respectively. Make sure alignment clip on head pipe fits inside

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

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

heat shield. Loosely install #20 hose clamps by feeding tail end of clamp

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

Take the guess work out of fuel injection with Fuelpak Fuel Management. Fuelpak is intended for racing or offhighway 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.

4.

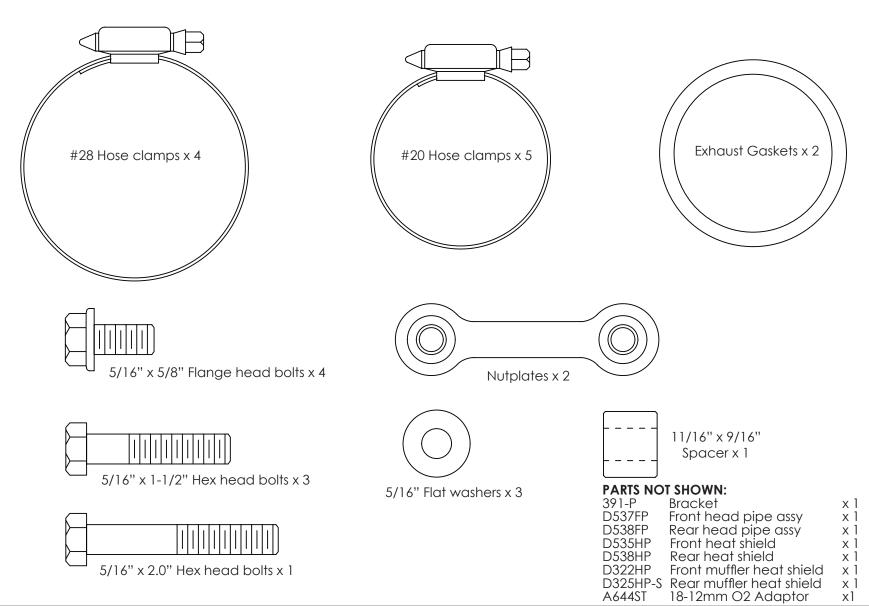
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6.





ALL PARTS SHOWN ARE ACTUAL SIZE



PACKING LIST

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.

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.