

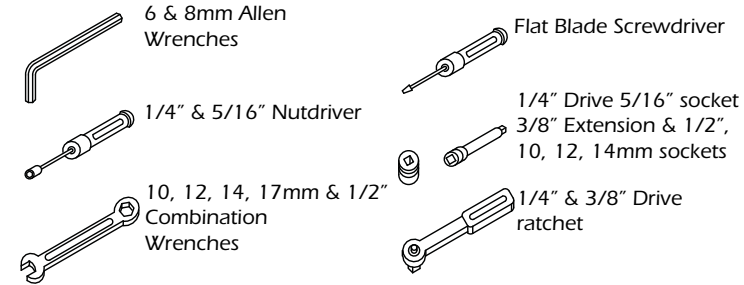
MORE POWER : LESS NOISE



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.

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**

NOTE: These instructions are written for late model motorcycles equipped with O2 sensors. If you are installing these pipes on a bike which is not equipped with O2 sensors, ignore all instructions which reference them. Additionally you will need to purchase an O2 sensor block off kit P/N 16926.

1. Remove right side saddlebag, if equipped.
2. Cover the frame tube in front of the exhaust and the right cover with a suitable material to protect frame and cover during exhaust removal.
3. Remove the bolt the holds right hand side cover, leave it loose and unplug rear O2 sensor.
4. Unplug front O2 sensor.
5. Loosen right side floorboard assembly held in place by two bolts (Figure 1).
6. Remove exhaust port allen nuts.
7. Remove Allen bolts securing rear muffler to exhaust system mounting bracket.
8. Remove complete exhaust system. Begin by lifting muffler out of

mounting bracket locating hole (assistance may be required).

9. Check condition of stock exhaust gaskets. Replace if damaged or worn.
10. Using a 14mm wrench, carefully remove the O2 sensors from the exhaust system.
11. Remove two bolts attaching stock exhaust mounting bracket to frame.
12. Remove hose clamp securing rear brake hose to exhaust mounting bracket.
13. Remove brake hose banjo bolt from rear caliper. NOTE: have paper towels or rags ready to catch brake fluid that drains out.
14. Slide hose out of loop in bracket.
15. Check condition of sealing washers on banjo bolt and replace if damaged or worn.
16. Reconnect brake hose to caliper (without bracket) and torque banjo bolt to 25 lbs. ft.
- 17. Brake system must be bled or brake will not operate correctly. Refill reservoir after bleeding.**

FIGURE 1

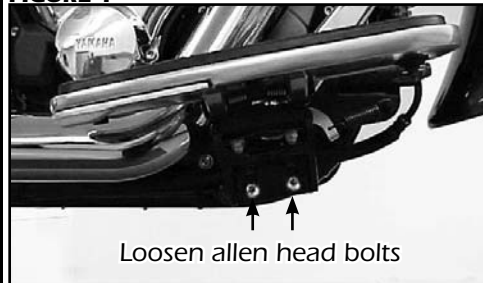


FIGURE 2



FIGURE 3



FIGURE 4

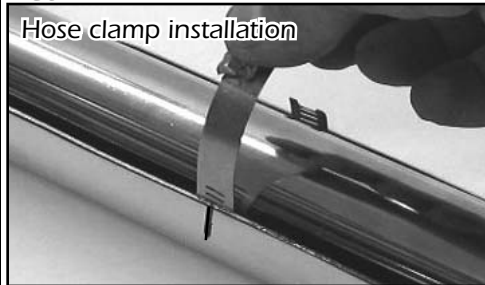


FIGURE 5

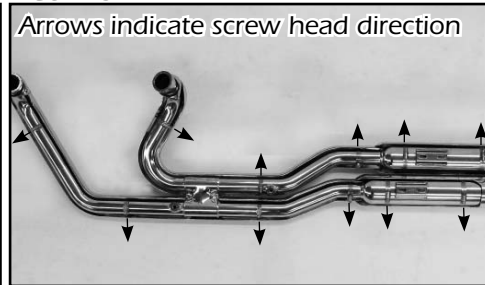
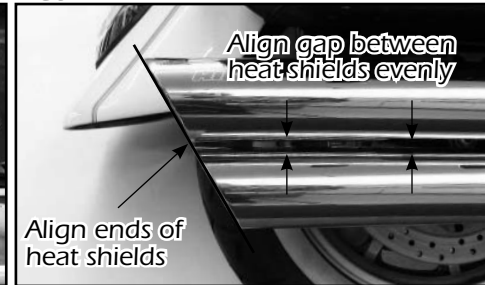


FIGURE 6



FIGURE 7



VANCE & HINES EXHAUST SYSTEM INSTALLATION

- Carefully feed bracket (stamped 512-P) between chassis and gearbox cover. Attach brake hose clamp to mounting bracket using one 6x16mm flange bolt and nylon lock nut (supplied) to tab located on top of bracket (Figure 2).
- Install mounting bracket using two 10x30mm allen bolts and lock nuts (supplied) (Figure 3). NOTE: Do not tighten yet.
- Remove exhaust system and heat shields from protective packaging. Place exhaust 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 hose clamps will loop through (Figure 4).
- Carefully lay heat shields onto header assembly and loosely install the hose clamps #20 (supplied) on head pipe heat shields by feeding the tail end of the clamp into the heat shield clips (Figure 4). Take note of screw head direction (Figure 5), for adjustment purposes they must be accessible when system is installed. NOTE: Do not tighten the clamps at this time.
- Apply a small amount of anti-seize compound to the threads of the stock O2 sensors and install them into the header assembly. NOTE: Be careful not to overtighten or get anti-seize compound on the sensor tip as this could damage or affect the sensor function.
- Using stock allen nuts, carefully install system into exhaust ports starting with the rear cylinder first. (Assistance may be required). Note: Do not tighten yet.
- Slide nut plates (supplied) inside each bracket welded to backside of mufflers (Figure 6).
- Attach mufflers to mounting bracket (512-P) using 5/16" flange bolts (supplied) engaging nut plates. Note: Do not tighten yet.
- Remove the muffler heat shields from their protective packaging. Place them on a non-abrasive surface such as a blanket or carpet.
- Place the #44 hose clamps (supplied) into the muffler heat shields and slide muffler heat shields onto the muffler bodies taking care not to scratch the head pipe heat shields. NOTE: The heat shield with the logo stamp should be on top.
- Align the ends of the muffler heat shields so they match up when viewed from the top and right hand side of the motorcycle (Figure 7). NOTE: The muffler heat shields should extend beyond the muffler bodies by 1/2" when measured at the bottom edge.
- Tighten the hose clamps on the muffler body heat shields while making sure they all remain level and aligned.
- Tighten 5/16" flange bolts securing mufflers to mounting bracket, while making sure that gap between mufflers is even.
- Tighten 30mm allen bolts securing bracket to frame.
- Tighten exhaust port flange nuts securing head pipes to cylinder heads.
- Align the front and rear head pipe heat shields and tighten the hose clamps, making sure that the desired alignment is not changed.
- Insert the rear O2 sensor plug into the extension (Supplied) plug extension into harness and tuck harness into same route position. And reinstall the cover. Plug in front O2 sensor.
- Tighten right side floorboard. Some models require spacers to provide adequate clearance to exhaust pipe. If necessary, install 3/8" x 1" spacers (supplied) and 10 x 25mm button head allen bolts (supplied) to space out floorboard.
- Reinstall right side saddlebag, if equipped.
- Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
- 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.
- All hardware must be properly tightened before starting motorcycle.**

EXHAUST CARE - HELPFUL HINTS TO AVOID DISCOLORATION OF EXHAUST SYSTEM

- 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.
- Avoid long periods of idling as this can cause discoloration.
- Intake leaks can cause the engine to run lean and overheat, this could lead to discoloration.
- 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



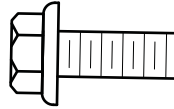
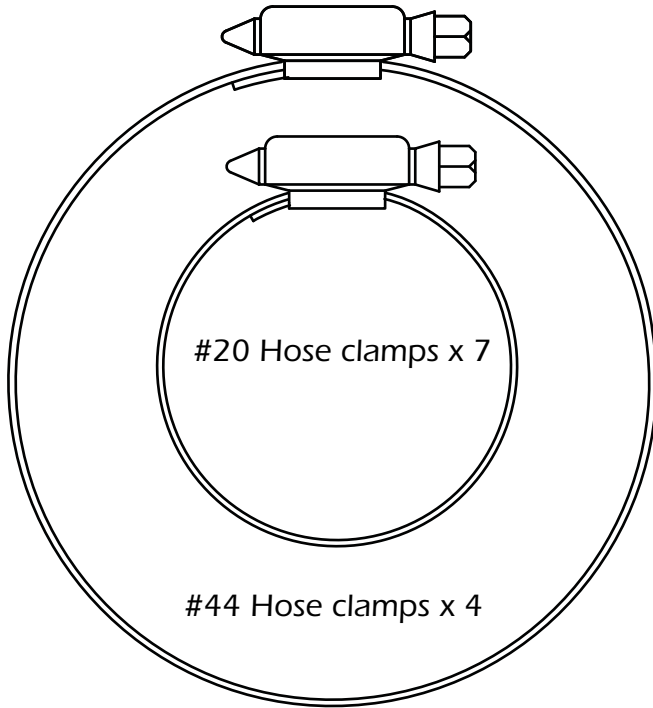
FUEL MANAGEMENT:
Take the guess work out of fuel injection with Fuelpak Fuel Management.
Fuelpak is intended for racing or off-highway use only, and is not legal for sale or use in California on pollution-controlled vehicles.

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.

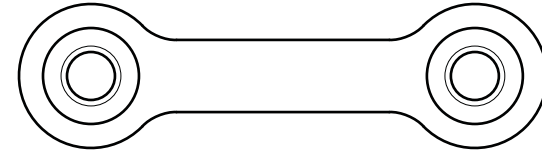
PACKING LIST

MORE POWER : LESS NOISE

ALL PARTS SHOWN ARE ACTUAL SIZE



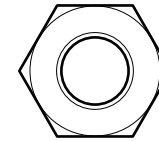
6 x 16mm Flange bolt x 1



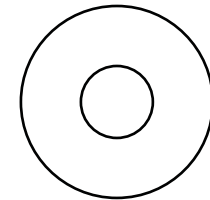
Nut plates x 2



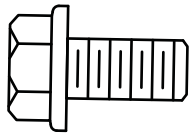
6mm Nylon lock nut x 1



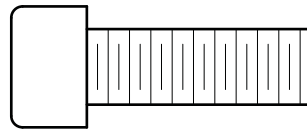
10mm Lock nut x 2



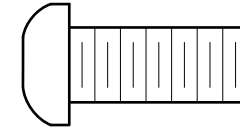
1/2" x 1" Washer x 2



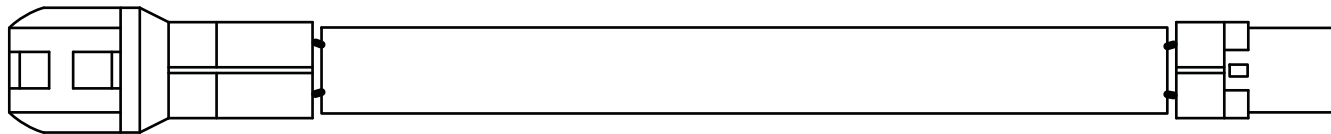
5/16" x 5/8" Flange head bolts x 4



10 x 30mm Allen bolt x 2



10 x 25mm Button head allen bolt x 2



O2 Sensor extension x 1

PARTS NOT SHOWN:

- | | | |
|--------|---------------------------|----|
| 512-P | Bracket | x1 |
| Y315FC | Header | x1 |
| Y315HC | Heat Shield | x1 |
| Y316HC | Heat Shield | x1 |
| D288HC | Front Muffler Heat Shield | x1 |
| S368HC | Rear Muffler 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.

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

Vance & Hines puts everything within reach.