

CONGRATULATIONS! You have purchased the finest exhaust system available for your motorcycle. Your VANCE & HINES exhaust system is designed for today's rider, a rider who needs maximum performance, great styling and a perfect fitting system. Please follow the installation instructions below and if you have any questions, feel free to call our technical help line (562) 926-5291. Attention Installer: (if other than owner): Please forward this instruction sheet to the purchaser of this product. These instructions contain valuable information necessary to the end user.



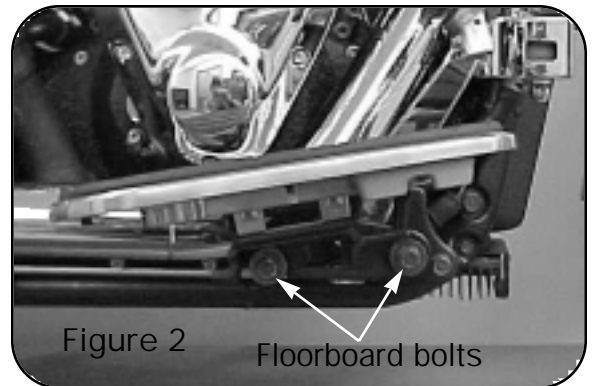
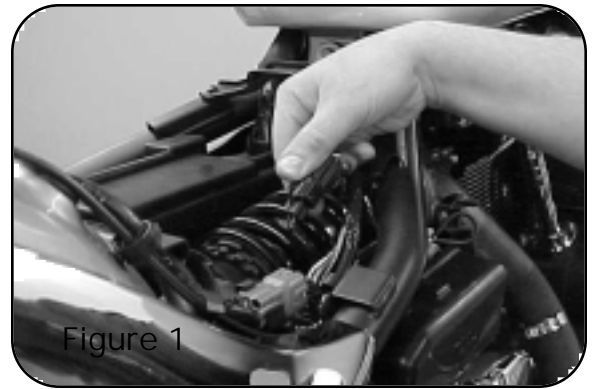
STOCK EXHAUST SYSTEM REMOVAL

1. Remove right side frame cover.
2. If motorcycle is oxygen sensor equipped, remove passenger seat. Remove two bolts securing operator seat and set seat aside. Locate and unplug oxygen sensor connector from wiring harness (Figure 1). (Note wire routing for reassembly).
3. Remove right side floorboard assembly held in place by two bolts (Figure 2).
4. Remove right side saddlebag, if equipped.
5. Remove exhaust port flange nuts.
6. Remove flange bolts securing both mufflers to exhaust system mounting bracket.
7. Remove complete exhaust system. Start by removing front head pipe from exhaust port

Tools required for installations

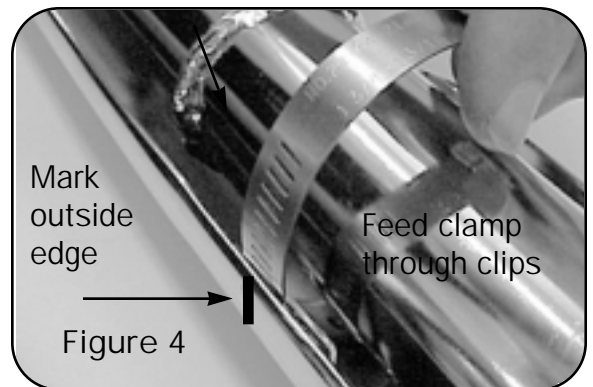
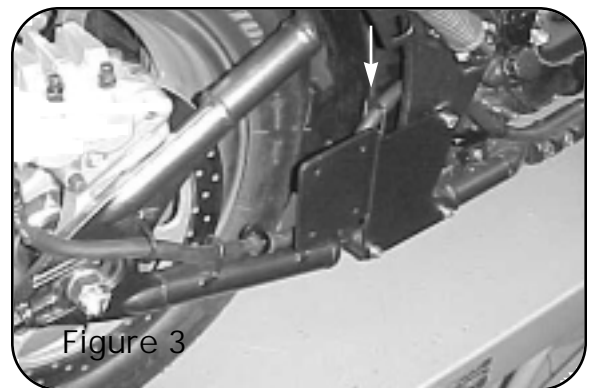
6mm Allen wrench
8, 10, 12, & 14mm sockets
3/8" Ratchet & Extensions
19mm & 22mm Wrench
9/16 Wrench
Brake bleeder & fluid

- (assistance may be required).
8. Check condition of stock exhaust gaskets. Replace if damaged or worn.
 9. Remove plastic hose clamp securing rear brake hose to swingarm. Save for re-use.
 10. Remove brake hose banjo bolt from rear caliper.
 11. Slide hose out of loops in swingarm.
 12. Remove three bolts holding stock exhaust mounting bracket and slide bracket off end of brake hose.
 13. Slide brake hose through loop on new bracket (stamped 357-P) and install to the original mounting bracket location, using three 8mm x 16mm Allen bolts (supplied) (Figure 3).
 14. Check condition of sealing washers on banjo bolt and replace if damaged or worn.
 15. Slide brake hose through loops on swingarm and reconnect brake hose to caliper.
 16. Reinstall plastic clip onto swingarm.
 17. Brake system must be bled or brake will not operate correctly.

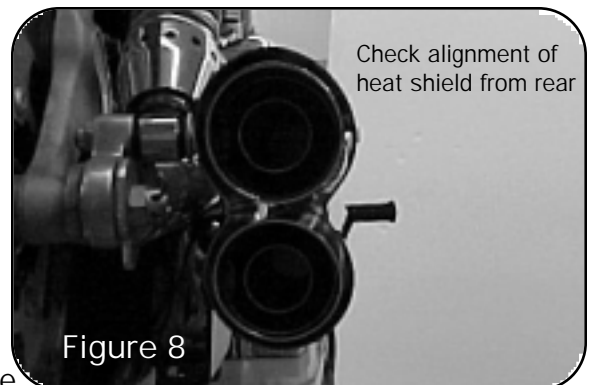
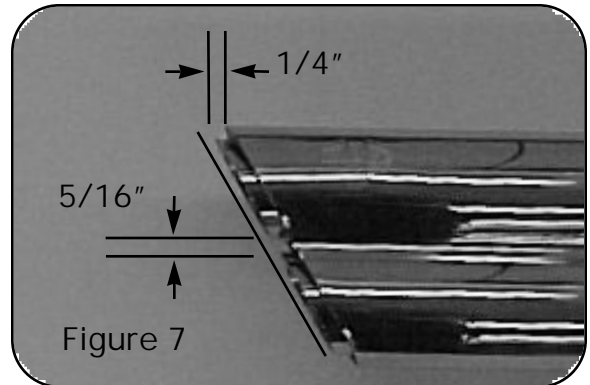
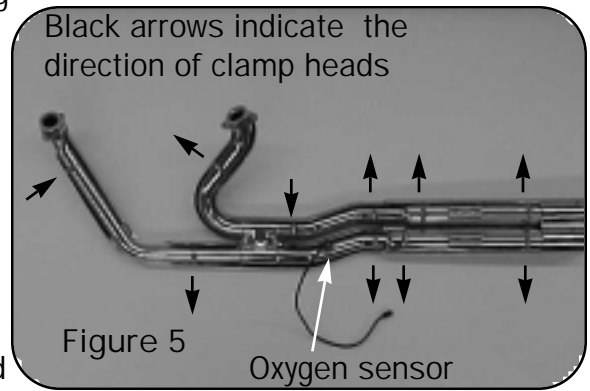


VANCE & HINES EXHAUST SYSTEM INSTALLATION

1. 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).
2. If motorcycle is oxygen sensor equipped, unscrew the sensor from the stock exhaust system and install it into the Vance & Hines exhaust system. Note: Use caution when handling. Do not touch sensor tip area.
3. If motorcycle is not oxygen sensor equipped, install 18mm plug and washer (supplied) into the oxygen sensor boss.
4. Carefully slide heat shields into headers.
5. Loosely install each hose clamp by feeding tail end of clamp into heat shield clip (Figure 4). Take note of clamp screw head direction (Figure 5). Screw head should be accessible when system is installed on motorcycle for adjustment purposes.
6. Using stock flange nuts, carefully install system into exhaust ports starting with the rear port first. (Assistance may be required). **Note:** Do not tighten yet.
7. Slide dog bone shaped nut plate (supplied) inside each bracket welded to backside of mufflers (figure 6).
8. Attach mufflers to mounting bracket (357-P) using 5/16" flange bolts (supplied) engaging dog bone nut plate. Note: Do not tighten yet.
9. Tighten exhaust port flange nuts securing head pipes to cylinder heads.



10. Tighten 5/16" flange bolts securing mufflers to mounting bracket.
11. Slide muffler heat shield (K342HC) on from the rear and loosely install four #36 hose clamps. Note position and direction of screw heads (Figure 5).
12. Make sure the rear of the muffler extends 1/4" beyond the end of the heat shield (Figure 7).
13. Tighten clamps on head pipe heat shields.
14. Tighten hose clamps on muffler heat shield. Check that heat shield is centered on the muffler bodies when viewed from the rear (Figure 8).
15. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
16. 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.
17. **All hardware must be properly tightened before starting motorcycle.**

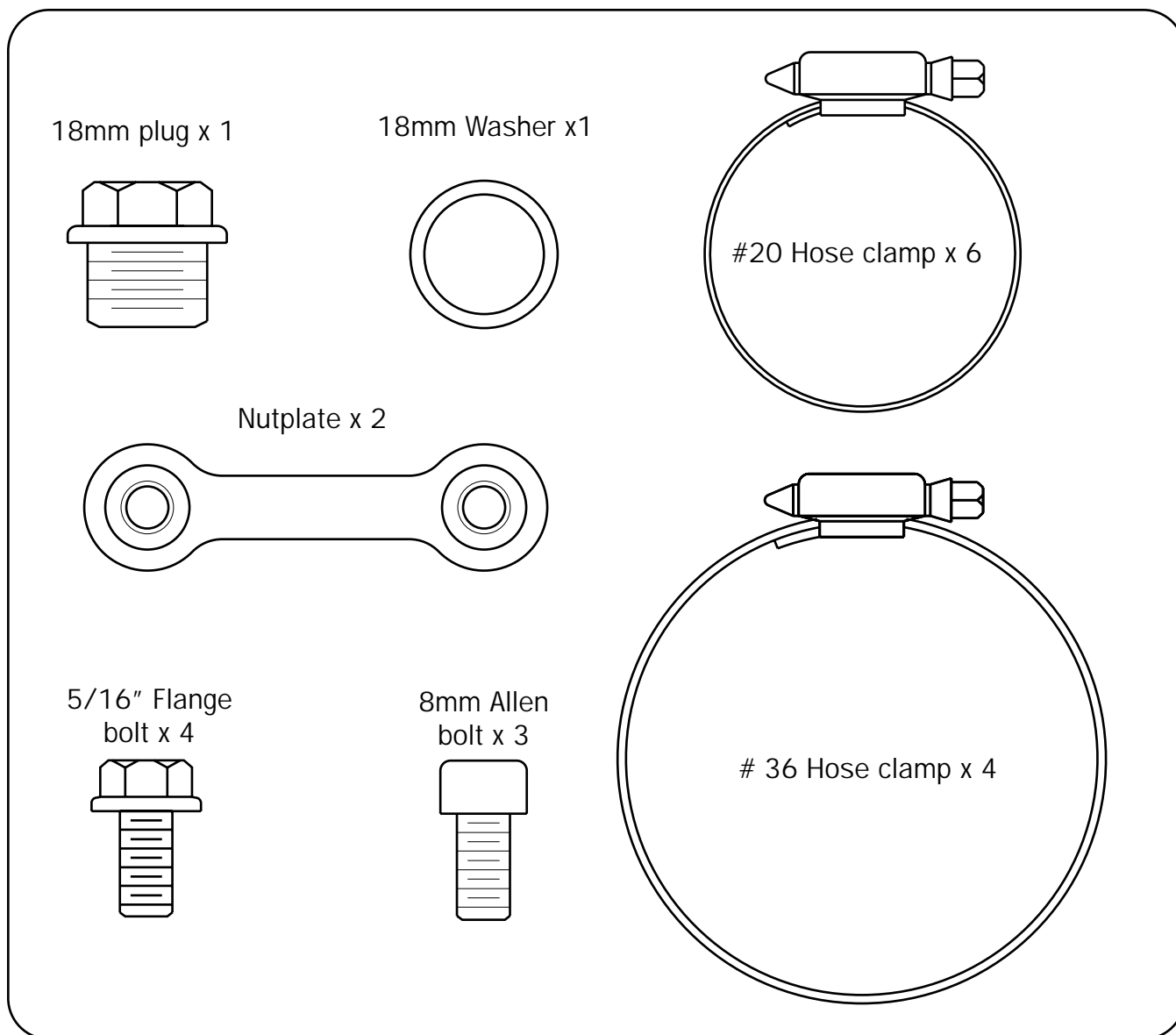


FUEL-INJECTION INSTRUCTIONS

For fuel injected models, Vance & Hines recommends the use of an adjustable fuel management system to ensure maximum exhaust system performance.

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, (center stand, oil filter, oil pan etc.) ground and cornering clearance may not be improved and in some cases may be reduced. Be sure to follow proper installation instructions.

PACKING LIST (All parts actual size)



HELPFUL HINTS TO AVOID DISCOLORATION OF EXHAUST PIPES

1. Follow owner's manual instructions regarding use of the choke (starter enricher). If left on longer than recommended, discoloration may be accelerated.
2. Avoid long periods of idling.
3. Intake leaks can cause engine to run lean and overheat, thus turning the pipes blue.
4. Make sure there are no exhaust leaks at the junction of the exhaust pipe and cylinder head.
5. 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 cleaning solvent that will leave no residue (glass cleaner, alcohol, ammonia, etc.) before starting the motorcycle.

WARNING!

VANCE & HINES DOES NOT WARRANTY ANY CHROME PRODUCTS AGAINST DISCOLORATION.

For information about other Vance and Hines products visit our web site at www.vanceandhines.com