



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**

- Flat blade screwdriver
 - 5/16" Nutdriver
 - 1/2", 8, 10, 12 & 17mm Combination wrenches
 - 6mm & 8mm Allen wrenches
 - Ft/lb. & In/lb. Torque wrenches
 - 3/8" Ratchet & extensions
 - 10mm Socket
- Tools not shown**
Brake bleeder & fluid

READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

**STOCK EXHAUST
SYSTEM REMOVAL**

1. Remove both frame covers. Remove the left cover first to access a bolt that holds the right side cover in place.
2. Remove right side floorboard assembly held in place by two bolts (Figure 1).
3. Remove exhaust port allen nuts.
4. Remove Allen bolts securing rear muffler to exhaust system mounting bracket.
5. Remove complete exhaust system. Begin by lifting muffler out of mounting bracket locating hole (assistance may be required).
6. Check condition of stock exhaust gaskets. Replace if damaged or worn.
7. Remove two bolts attaching stock exhaust mounting bracket to frame.
8. Remove hose clamp securing rear brake hose to exhaust mounting bracket.
9. Remove brake hose banjo bolt from rear caliper. Note: have paper towels or rags ready to catch brake fluid that drains out.
10. Slide hose out of loop in bracket.
11. Check condition of sealing washers on banjo bolt and replace if damaged or worn.
12. Reconnect brake hose to caliper (without bracket) and torque banjo bolt to 25 lbs. ft.
- 13. Brake system must be bled or brake will not operate correctly. Refill reservoir after bleeding.**

FIGURE 1

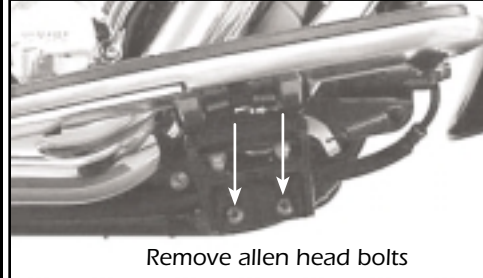


FIGURE 2

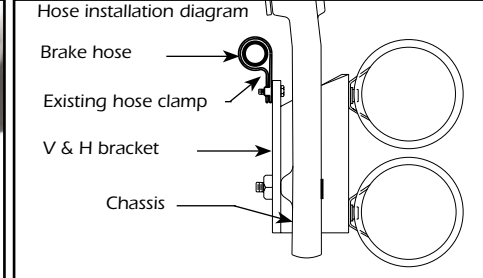


FIGURE 3

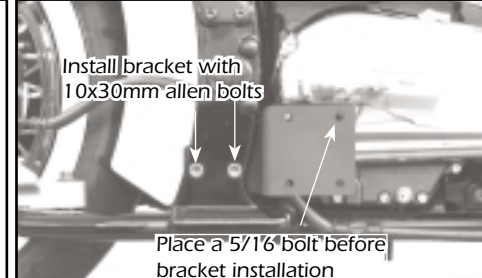


FIGURE 4

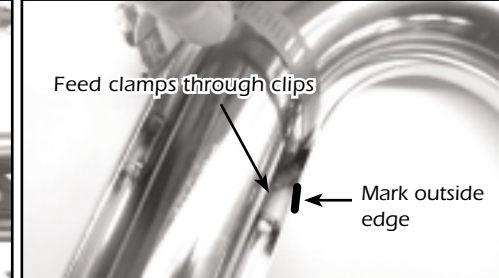


FIGURE 5

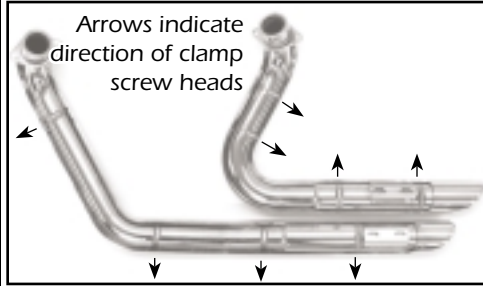


FIGURE 6

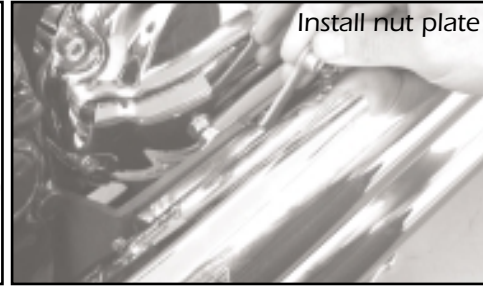
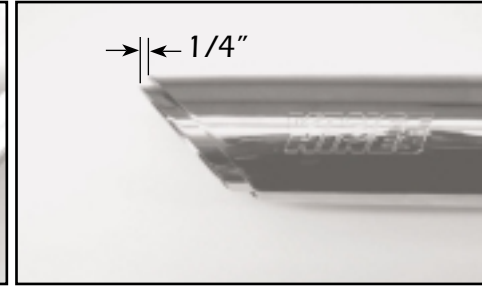


FIGURE 7



VANCE & HINES EXHAUST SYSTEM INSTALLATION

- Carefully feed bracket (stamped 385-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: Before installing the bracket. Place one 5/16" flange bolt (supplied) on the upper right corner hole of the bracket.)
 - 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 slide heat shields onto headers.
 - Loosely install each hose clamp by feeding tail end of clamp into heat shield clip (Figure 4). Use #20 hose clamps for head pipe areas and #28 hose clamps for muffler areas. Take note of clamp screw head direction (Figure 5). Screw head should be accessible when system is installed on motorcycle for adjustment purposes. Note: Do not tighten yet.
 - 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 (385-P) using 5/16" flange bolts (supplied) engaging nut plates. Note: Do not tighten yet.
 - Tighten exhaust port flange nuts securing head pipes to cylinder heads.
 - Tighten 5/16" flange bolts securing mufflers to mounting bracket.
 - Be sure the rear of the muffler extends 1/4" beyond the end of the heat shield (Figure 7).
 - Tighten hose clamps on heat shield. Check that heat shield is centered on the muffler bodies when viewed from the rear.
 - Reinstall right side floorboard. Some models require spacers to provide adequate clearance to exhaust pipe. If necessary, install 1/2" x 1" spacers (supplied) and 10 x 25mm button head allen bolts (supplied) to space out floorboard.
 - Reinstall side covers, right side first.
 - 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.
- 17. 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.
- Follow owners manual instructions regarding use of the choke (starter enricher). If left on longer than recommended, discoloration may be accelerated.
- 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

No optional accessories are available at this time.

RE-JETTING FOR CARBURETED MODELS:

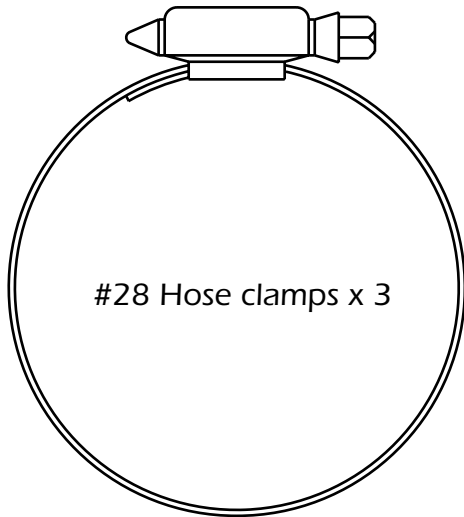
Re-jetting the carburetors will result in realizing the "full" potential of this performance exhaust system. Vance & Hines offers Jet Kits for most applications, call (562) 921-7461 for more information.

PLEASE NOTE:

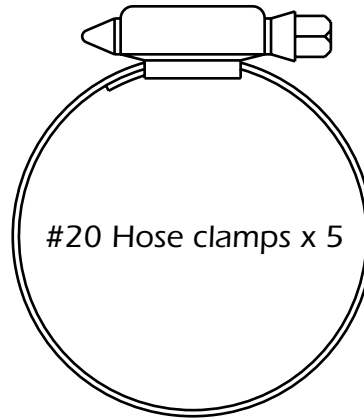
Every effort is made for Vance & Hines Exhaust Systems to provide improved cornering clearance. However, due to design and space limitations on some motorcycle models, ground and cornering clearance may not be improved and in some cases may be reduced. Be sure to follow proper installation instructions.

PACKING LIST

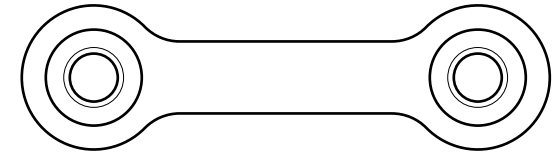
ALL PARTS SHOWN ARE ACTUAL SIZE



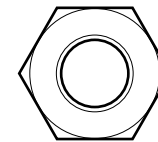
#28 Hose clamps x 3



#20 Hose clamps x 5



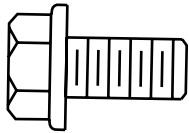
Nut plates x 2



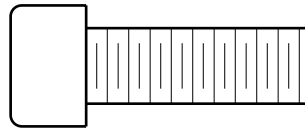
10mm Lock nut x 2



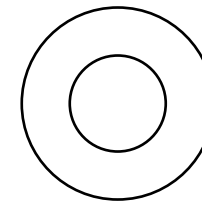
6mm Nylon lock nut x 1



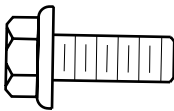
5/16" x 5/8" Flange head bolts x 4



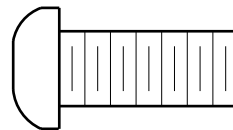
10 x 30mm Allen bolt x 2



1/2" x 1" Washer x 2



6 x 16mm Flange bolt x 1



10 x 25mm Button head allen bolt x 2

PARTS NOT SHOWN:

- 385-P Bracket x 1
- Y270FC Front head pipe x 1
- Y271FC Rear head pipe x 1
- Y270HC Front heat shield x 1
- Y271HC Rear heat shield x 1

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.



Big Radius

SM	24024
MD	24025
LG	24026
XL	24027
XXL	24028

Sideshots Vertical

SM	24029
MD	24030
LG	24031
XL	24032
XXL	24033

V-Rod

SM	24034
MD	24035
LG	24036
XL	24037
XXL	24038

Sideshots Cubed

SM	24039
MD	24040
LG	24041
XL	24042
XXL	24043

GET YOUR LIMITED EDITION VANCE & HINES T-SHIRT. ALL T-SHIRTS ARE BLACK, HIGH QUALITY, 100% COTTON AND MADE IN THE U.S.A. CALL TO ORDER: (562) 921-7461

**13861 ROSECRANS AVENUE / SANTA FE SPRINGS, CA 90670
SALES: (562) 921-7461 / TECHNICAL: (562) 926-5291 / FAX: (562) 802-0110
VANCEANDHINES.COM**