





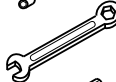
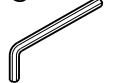

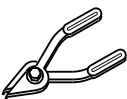
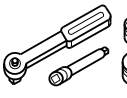
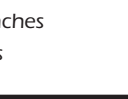
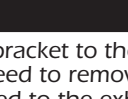
MORE POWER : LESS NOISE



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. 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
-  7/16", 1/2", 9/16", 7/8" or 22mm Combination Wrenches
-  3/16" & 5/16" Allen Wrenches
-  T45 & T50 Torx Wrenches
-  Snapping Pliers
-  3/8" Drive Ratchet
-  Extensions
-  1/2" & 9/16" Sockets

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 16925. However this kit does contain all necessary hardware to install the right side passenger footpeg on '86-'06 model softails (see page 4 and the packing list).

1. Under the oil tank on the right hand side, locate the rear O2 sensor connector. Unplug sensor and feed the end of wire through the frame freeing it from motorcycle. NOTE: Pay attention to wire routing for re-installation.
2. Open the plastic cover above the rectifier on front of the frame to gain access to the front O2 sensor connector. Unplug sensor from harness. Remove cable tie holding wire to frame and feed the end of the wire through freeing it from motorcycle.
3. On FLSTC, FLSTF, FLSTN and FLSTSC models, loosen the right hand floor board mounting bolts to gain clearance for exhaust removal and installation.
4. Loosen the heat shield clamps on both front and rear exhaust pipes.
5. Remove the two mounting nuts from each head pipe, located at the cylinder head.

6. Remove the nuts attaching the exhaust mount bracket to the frame.
7. On FLSTN, FLSTF and FXSTD models, you will need to remove the right side passenger footpeg and hanger, as this is attached to the exhaust mount bracket. Replace the passenger foot peg assembly using the 3/8" x 2 1/2" Allen bolt (supplied).
8. If equipped, unbolt the carriage bolt and clamp attached to the bracket under the right side transmission cover.
9. Remove the entire exhaust system and set it aside.
10. If equipped, remove the bracket from under the right side transmission cover.
11. Using a 7/8" or 22mm wrench, carefully remove the O2 sensors from the stock head pipes and save for re-use with the new system.
12. Remove the two lower mounting studs from the frame.
13. Carefully remove exhaust port flanges and circlips from the stock exhaust system using snapping pliers. NOTE: Replace bent or damaged circlips. Check exhaust port gasket condition. Recommended replacement exhaust port gaskets, Harley part number: 17048-98 or 65324-83B.

FIGURE 1

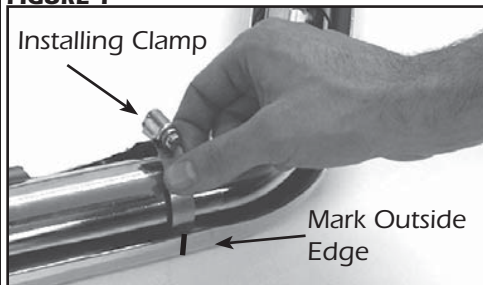


FIGURE 2

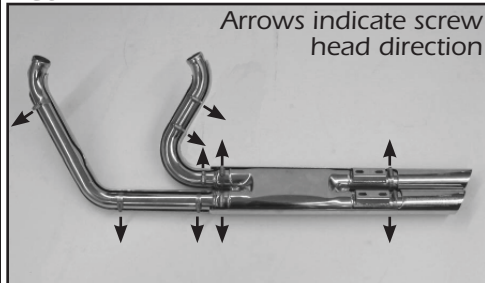


FIGURE 3

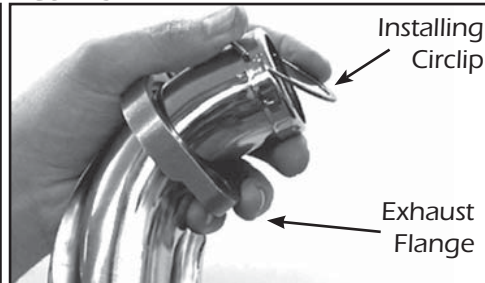
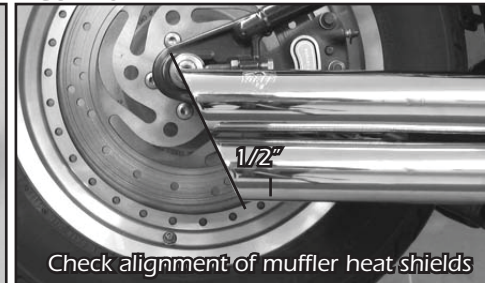


FIGURE 4



FIGURE 8



VANCE & HINES EXHAUST SYSTEM INSTALLATION

1. Remove header and heat shields from protective packaging. Place each heat 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 mounting clips that hose clamps will loop through (Figure 1).
2. Apply a small amount of anti-seize compound to the threads of the O2 sensors and install them into the header assembly. NOTE: Be careful not to get anti-seize on the sensor tip, it may affect sensor function.
3. Install heat shields onto the header assembly.
4. Install each hose clamp by feeding tail end of clamps into heat shield clips. Take note of clamp screw head direction (Figure 1 & 2). Screw head must be accessible when system is installed on motorcycle for adjustment purposes. Use #20 hose clamps on head pipes and #28 hose clamps on mufflers.
5. Slide muffler heat shields onto the muffler bodies. The heat shield with the logo stamp should be on top. When installing the muffler heat shields take care not to scratch the head pipe heat shields. NOTE: Do not tighten hose clamps until system is installed on the motorcycle. Additionally the front hose clamp on the top muffler heat shield is very close to the transmission and may need to be rotated down to clear.
6. Install exhaust port flanges and circlips (from stock system) onto head pipes (Figure 3).
7. Attach mounting bracket 64907-02 (supplied) using four 5/16"x5/8" flange bolts and two nut plates (supplied). Slide nut plates inside brackets that are welded to the back of each muffler (Figure 4). Leave them loose at this time.
8. Install complete assembly into exhaust ports (rear port first). Use stock flange nuts, do not tighten at this time. Install two 3/8"x3/4" flange bolts (supplied) attaching exhaust bracket to motorcycle right side lower frame rail. (If equipped, plastic plugs or threaded studs must be removed).
9. Tighten exhaust port flange nuts and mounting bracket bolts.
10. Align the ends of the the muffler heat shields so they match up when viewed from the top and right hand side of the motorcycle (Figure 5). NOTE: The muffler heat shields should extend beyond the muffler bodies by 1/2" when measured at the bottom edge.
11. Tighten all of the hose clamps on the head pipe and muffler body heat shields while making sure they all remain level and aligned.
12. Tighten the floor board mounting bolts on models so equipped.
13. Plug the O2 sensor wires back into the wiring harness and route wires away from hot areas of the motorcycle.
14. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
15. All hardware must be properly tightened before starting motorcycle.

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



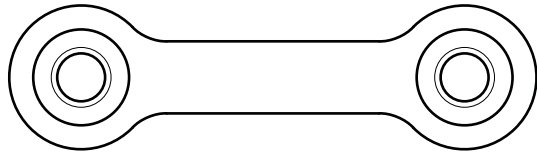
FUEL MANAGEMENT:

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.

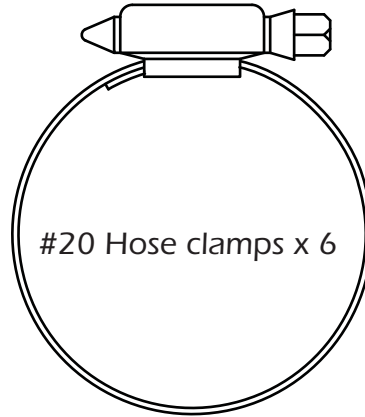
PLEASE NOTE: Every effort is made for Vance & Hines Exhaust Systems to provide improved cornering clearance. However, due to design and space limitations on some motorcycle models, ground and cornering clearance may not be improved and in some cases may be reduced. Be sure to follow proper installation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



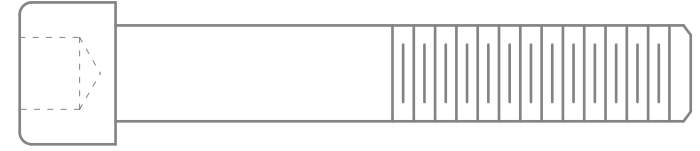
PACKING LIST



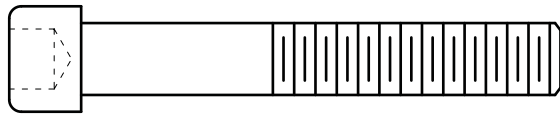
Nut plate x 2



#20 Hose clamps x 6



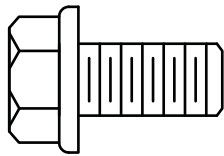
1/2" x 3" Allen bolt x 1 (for '86-'99 models only)



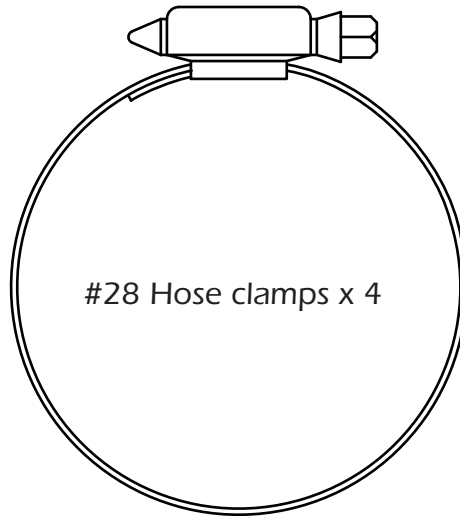
3/8" x 2-1/2" Allen bolt x 1



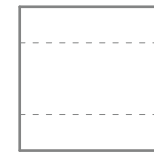
1/2" Spacer x 1 (for '86-'99 models only)



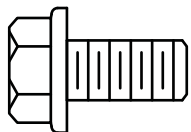
3/8" x 3/4" Flange bolts x 2



#28 Hose clamps x 4



3/8" Spacer x 1 (for '00-'06 models only)



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



Nylon cable tie x 1

PARTS NOT SHOWN:

64907-02	Mounting Bracket	x1
D440FC	Header Assembly	x1
D440HC	Front Heatshield	x1
D441HC	Rear Heatshield	x1
D442HC	Front Muffler Heatshield	x1
D443HC	Rear Muffler Heatshield	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.



SPECIAL INSTRUCTIONS TO INSTALL THE RIGHT HAND FOOT PEG ON EARLY MODEL SOFTAIL'S:

If the muffler mounting bar is attached to the swing arm (86-99).

1. Remove the right side 1/4"-20 bolt that holds lower fender in place. This will allow the fender to flex outward enough to allow removal of the right passenger peg bolt.
2. With the motorcycle parked on it's side stand, position a floor jack under right hand frame tube of the motorcycle below the swing arm pivot bolt. Carefully raise the jack just enough to take the weight off of the swing arm pivot bolt. Remove the swing arm pivot bolt and stock upper mounting bar, replace swing arm pivot bolt and torque to 120 Ft/Lbs. Re-install passenger foot peg using the 1/2"-20 x 3" bolt and 1 5/8 long spacer (supplied), Re-install the 1/4"-20 fender bolt.

If the muffler mounting bar is attached with three (3) Torx bolts (00-06).

1. Two of the bolts are visible the third also attaches the passenger foot peg and is accessed by removing the foot peg from it's mount. Using a T50 Torx driver bit, remove the three mounting bolts and mounting bar. After the mounting bar is removed, re-install the passenger foot peg using the 3/8"-16 x 2-1/2" allen bolt and 3/4" long spacer (supplied).

MORE POWER : LESS NOISE

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VANCEANDHINES.COM