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
- #3 Phillips Head
- 5/16” Nutdriver
- 3/16” Allen wrench
- T45 & T50 Torx wrenches
- Snapring pliers
- 3/8” Ratchet, extensions
- 1/2”, 9/16”, Deep Socket
- 3/4” Deep Socket, 19mm
- 1/2”, 9/16”, 3/4”, 7/8” or 22mm & 14mm Combination wrenches
- 3/8” Ratchet, extensions
- 1/2”, 9/16”, Deep Socket
- 3/4” Deep Socket, 19mm

**READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION**

**O2 SENSOR EQUIPPED MODELS (2007-PRESENT)**

1. Rear O2 Sensor: Locate the O2 sensor connector. Unplug the connector from the main harness and feed the wire through the frame to free it from the motorcycle. Pay attention to wire routing for re-installation. NOTE: For 2007 to 2011 Models the connector is located under the oil tank, on the right side. For 2012 & Later Models the connector is located under the seat. Remove both the seat and battery for access.

2. Front O2 sensor: Locate the O2 sensor connector at the front of the motorcycle. Unplug connector from the harness and free the sensor lead from the motorcycle. NOTE: For 2007 to 2011 Models, open the plastic cover above the rectifier to gain access to the sensor plug. Cut the cable ties holding the sensor wire to frame.

3. On models with floor boards, loosen the right hand floor board mounting bolts to gain clearance for exhaust removal and installation.

4. On FLSTF, FXS and FLSTN and FXSTD, you will need to remove the right side passenger foot peg and hanger, as this is attached to the exhaust mount bracket. Leave the foot peg and hanger off.

5. Unbolt the carriage bolt and clamp attached to the bracket located under the right side transmission cover.

6. Loosen the heat shield clamps on both front and rear exhaust pipes.

7. Remove the two mounting nuts from each head pipe.

8. Remove the nuts attaching the exhaust mounting bracket to the frame.

9. Remove the exhaust system and set it aside. Assistance may be required.

10. Carefully remove the O2 sensors from the stock head pipes.

11. Remove the stock mounting bars, brackets and/or studs.
   a. PRE 2000 Models: Remove the lower mounting bar. Remove the right side 1/4” bolt which holds the lower fender in place to allow removal of the right passenger foot peg. Place the motorcycle on its side stand and loosen the swing arm pivot bolt nut. Position a floor jack under the right hand frame tube just below the swing arm pivot bolt. Using assistance, carefully raise the jack just enough to take the weight off the swing arm bolt and remove the swing arm pivot bolt and the stock upper mounting bar. Replace the swing arm pivot bolt and torque to 135 FT/LB. Reinstall the right passenger foot peg using the 1/2”x3” capscrew with the 1 3/8” spacer and 1/4” bolt to secure fender.
   b. 2000 & Later Models: Remove the two lower mounting studs from the frame (Figure 1). Reinstall the foot peg using the 3/8”x2 1/2” capscrew with the 3/4” spacer.

12. Carefully remove exhaust port flanges and circlips from the stock exhaust system using snapring pliers. NOTE: Replace bent or damaged circlips.

13. Replace the exhaust gaskets with the supplied gaskets.
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 warm soapy water and a soft cloth. Dry with a clean towel to remove any residue (chrome wax / polish, glass cleaner, alcohol, ammonia, etc...) before starting the motorcycle. Do NOT use anything abrasive to clean pipes.

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

FUELPACK

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.

QUIET BAFLE

Quiet baffle P/N 21869 is available for this system. The quiet baffle will lower the sound level by 2-3db on average. Contact your local dealer to order.

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.
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.

**Packing List**

- Nut plate x 2
- #20 Hose clamps x 3
- #28 Hose clamps x 4
- 3/8” x 2-1/2” Allen bolt x 1
- 3/8” x 3/4” Flange bolts x 2
- 5/16” x 5/8” Flange bolts x 4
- Exhaust Gaskets x 2
- 3/8” x 3.00in Socket Head Cap Screw x 1
- 1/2 x 2.00in Socket Head Cap Screw x 1
- 1/2 x 3.00in Socket Head Cap Screw x 1
- 18-22mm O2 adaptor x 2
- Nylon Cable Tie x 1
- 1/2-20 x 3in Socket Head Cap Screw x 1
- 18 x 1.5 x 10mm Plug x 2
- 18 x 24mm OD Copper Washer x 2
- Nylon Cable Tie x 1

**Parts Not Shown:**

- 330-P Bracket x 1
- D815FC Head pipe x 1
- D462HP Front heat shield x 1
- D463HP-S Rear heat shield x 1
- D101ST-P 1.75 x 0.75in Spacer x 1
- D110ST-P 1.75 x 1.66in Spacer x 1
- A285HW 1/2 x 3.00in Socket Head Cap Screw x 1
- A6445T 18-22mm O2 adaptor x 2
- A288HW Nylon Cable Tie x 1
- A285HW 1/2-20 x 3in Socket Head Cap Screw x 1
- A121HW 18 x 1.5 x 10mm Plug x 2
- A213HW 18 x 24mm OD Copper Washer x 2
- A288HW Nylon Cable Tie x 1
GET THE MOST OUT OF YOUR RIDING EXPERIENCE...
AN AFTERMARKET EXHAUST SYSTEM IS ONLY YOUR FIRST STEP, NOW YOU NEED FUEL MANAGEMENT.

THE NEXT GENERATION OF FUEL MANAGEMENT IS HERE

The Fuelpak FP3 will revolutionize fuel management for all new Harley-Davidson models now using the HDLAN (CAN Bus) system. Connecting wirelessly by Bluetooth to iPhone or Android Smartphones, Fuelpak FP3 uses Flash technology to recalibrate engine parameters and mapping for Vance & Hines exhaust systems downloaded from the expansive library of calibrations developed by Vance & Hines.

- Smartphone App User Interface (iOS and Android)
- Recalibrates ECM by Flash Tuning
- Autotune Feature for Added Tuning Precision
- Displays Live Sensor Data
- App Links Direct to Customer Service Site

FITMENT NOTES:

- FUELPAK FP3 IS COMPATIBLE WITH CAN BUS MODELS ONLY (TOURING, SOFTAIL, DYNA & SPORTSTER)
- FUELPAK FP3 IS NOT COMPATIBLE WITH V-ROD MODELS.
- MAPS ARE CURRENTLY AVAILABLE FOR: SPORTSTER, DYNA, SOFTAIL, TOURING AND TRIKE MODELS.
- MAPS FOR 110CI CVO MODELS COMING SOON.

EMISSIONS NOTICE:
FUELPAK IS INTENDED FOR RACING USE ONLY, AND IS NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON POLLUTION-CONTROLLED VEHICLES.