HARLEY-DAVIDSON® SOFTAIL BIG SHOTS STAGGERED INSTALLATION INSTRUCTIONS PART# 17959



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.



READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

O2 SENSOR EQUIPPED MODELS (2007-2009)

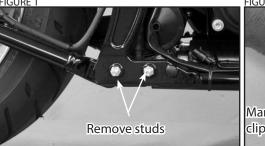
- Rear O2 Sensor: Locate the O2 sensor connector. Unplug the connector from the main harness 1. and feed the wire through the frame to free it from the motorcycle. Pay attention to wire routing for re-installation. NOTE: For 2007 to 2009 Models the connector is located under the oil tank, on the right side.
- 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 2009 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. Additional reinstallation instructions to follow.
- 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.

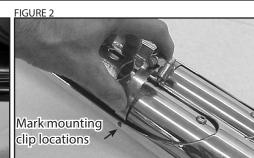
- 8. Remove the nuts attaching the exhaust mounting bracket to the frame.
- 9. Remove the exhaust system and set it aside. Assistance may be required.
- 10. Carefully remove the O2 sensors from the stock head pipes.
- 11. Remove the stock mounting bars, brackets and/or studs.
 - a. PRE 2000 Models: Remove 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 torgue to 135 FT/LB. Reinstall the right passenger foot peg using the $1/2^{"}x3^{"}$ capscrew with the $1.5/8^{"}$ spacer and $1/4^{"}$ bolt to secure fender.

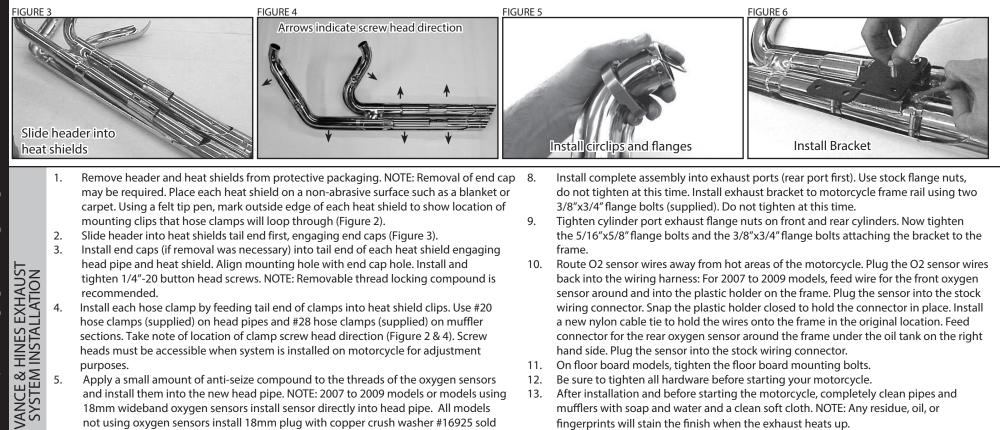
b. 2000 & Later Models: Remove the two lower mounting studs from the frame (Figure 1). Reinstall the foot peg using the $3/8''x^2 1/2''$ capscrew with the 3/4'' spacer.

- 12. Carefully remove exhaust port flanges and circlips from the stock exhaust system using snapring pliers. NOTE: Replace bent or damaged circlips.
- Replace the exhaust gaskets with the supplied gaskets. 13. Note: Replacement gaskets VH#22899 or HD#17048-98 or equivalent.









- and install them into the new head pipe. NOTE: 2007 to 2009 models or models using 13. 18mm wideband oxygen sensors install sensor directly into head pipe. All models mufflers with soap and water and a clean soft cloth. NOTE: Any residue, oil, or not using oxygen sensors install 18mm plug with copper crush washer #16925 sold fingerprints will stain the finish when the exhaust heats up. separately.
- Install circlips and flanges from stock system onto both new head pipes (Figure 5). 6.
- Attach mounting bracket (Stamped 330-P) using four 5/16"x5/8" flange bolts and two 7. nut plates (supplied). Slide nut plates inside brackets that are welded to the backside of each muffler (Figure 6). Leave them loose at this time. Use this procedure for both upper and lower muffler mounting positions.
 - 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 warm soapy water and a soft cloth. Dry with 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.



Fuelpak FP4 #66047	
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Oujet baffle P/N 21869 is available for this system. The quiet baffle will lower the sound lével 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.

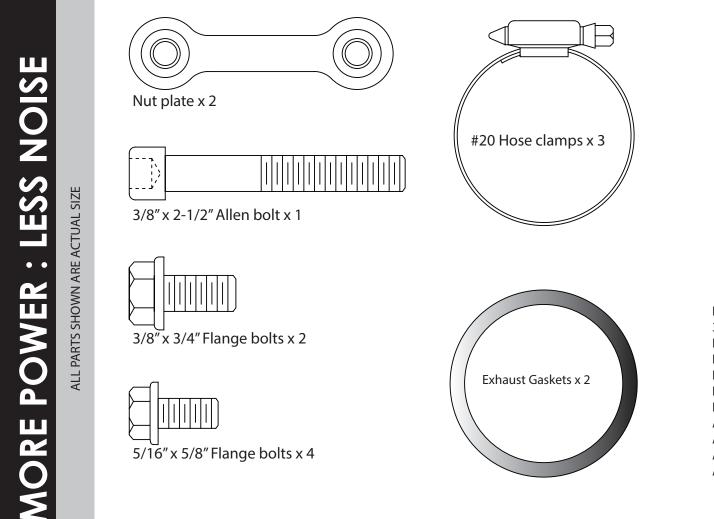
VANCE & HINES OPTIONAL ACCESSORIES

FUELPAK

HARLEY-DAVIDSON[®] SOFTAIL BIG SHOTS STAGGERED INSTALLATION INSTRUCTIONS PART# 17959



PACKING LIST



#28 Hose clamps x4

PARTS NOT SHOWN: 330-P Bracket x1 D815FC Head pipe x1 D460FC Front heat shield x1 D461FC Rear heat shield x1 D101ST-P 1zs.75 x 0.75in Spacer x1 D110ST-P 1.75 x 1.66in Spacer x1 A285HW 1/2 x 3.00in Socket Head Cap Screw x1 A288HW Nylon Cable Tie x1 A285HW 1/2-20 x 3in Socket Head Cap Screw x1 A288HW Nylon Cable Tie 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



Connect. Tune. Ride.

From the team that brought you The Fuelpak FP3, the best-selling ECU tuner in the world for Harley-Davidson motorcycles, the Vance & Hines FP4 is the most intuitive tuning tool on the market, giving you the power to control your motorcycle's tune and offers the best-in-industry support from our FP4 technicians, all from your smartphone.

- Download and Flash Maps
- Live Data Viewing
- Autotune Feature for Map Customization

Visit vanceandhines.com to learn more about FP4.

Qualified Manufacturer Declared 49-state Federal Emissions Compliant Part.

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Emissions Notice:

In California, in order to meet Air Resources Board emissions requirements, certain aftermarket part applications have been identified as replacements, and others have received ARB Executive Orders. All other emissions related aftermarket parts are for competition use only. A list of replacement parts and EO parts, and corresponding fitment is provided at vanceandhines.com/California.

Warranty:

All Vance & Hines products are warranted against defects in material and workmanship for a period of 90 days. This warranty does not cover discoloration or rust. This warranty shall be limited to the repair or replacement of the product, which may be proven defective under normal use. Vance & Hines will not warranty any system that has been abused, misused, improperly installed or modified.

Dealers or distributors are not authorized to make dispositions binding upon Vance & Hines. Vance & Hines will not be responsible for any labor charges incurred in removing or replacing any system under warranty. A return authorization number and a copy of the original purchase invoice must accompany all returns. Parts returned without a return authorization may be refused.

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