

**HARLEY-DAVIDSON® TOURING MODEL
PROPIPE BLACK
INSTALLATION INSTRUCTIONS
PART# 47557**




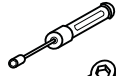



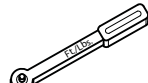
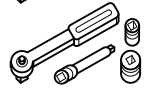
MORE POWER : LESS NOISE



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.

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
-  1/4" & 5/16" Nutdriver
-  1/2", 9/16" & 7/8" or 22mm Combination wrenches
-  3/16" & 5/16" Allen wrench
-  Snapping pliers
-  FT/LB Torque Wrench
-  3/8" Ratchet & extension, 1/2" & 9/16" sockets, 15mm deep socket.

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 ('99-06), ignore all instructions which reference them. **For 99-06 models, you will need to purchase an O2 sensor block off kit P/N 16925**
- Remove both left and right saddlebags and set them aside.
 - Loosen the bolt from the pinch clamp on the front end of each muffler.
 - Remove the two 5/16" bolts that mount the muffler to the saddlebag supports. Repeat this step on the opposite muffler.
 - Remove the stock mufflers with sliding hangers and set them aside. Two 5/16" bolts and one hanger will be re-used. NOTE: It may be necessary to use a penetrating lubricant to loosen the muffler from the head pipe.
 - Find and unplug the O2 sensor wires from the wiring harness and remove cable tie holding front wire to frame. Feed the end of the wires through the frame so they are free from the motorcycle. NOTE: Pay attention to wire routing for re-installation.
 - Remove the right hand floor board and passenger floor board (or foot peg).
 - Loosen the heat shield clamps on both front and rear exhaust pipes.
 - Loosen the rear head pipe clamp located behind the rear cylinder. Remove the section of head pipe connecting the left side muffler.
 - Remove the nut and carriage bolt holding the front head pipe to the bracket on the transmission housing

- Remove the two flange mounting nuts from each head pipe, located at the cylinder head. Carefully remove the head pipes and set them aside.
- If equipped, 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.
- Remove the OEM bracket on the transmission housing by removing oil dip stick cover and loosening the transmission cover to allow access to capscrews. After bracket removal, re-tighten the transmission cover to factory specifications and re-install the dipstick cover. (Figure 1)
- Install new bracket onto transmission housing and torque bolts to 13-16 ft/lb (Figure 2). NOTE: On 99-06 models use bracket stamped 615-P, (wide, supplied), on 07-08 models use bracket stamped 592-P, (narrow, supplied). NOTE: See page 4 for further detail
- If equipped with rear pipe support bracket, installation does not require removal of bracket. If removal is desired first remove the two starter mounting bolts, remove the bracket then re-install the bolts and torque to 13-16 ft/lb. (Figure 3)
- Carefully remove the exhaust port flanges and circlips from the stock exhaust system using snapping pliers. NOTE: If circlips look bent or twisted, replace them.
- Inspect the exhaust gaskets to be sure they are in good shape. If you have any doubts as to their condition, replace them. Recommended Harley-Davidson replacement gaskets #17048-98 or #65324-83A.

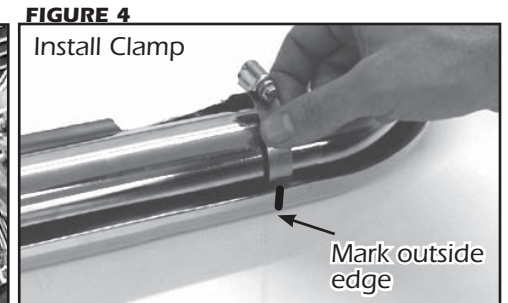
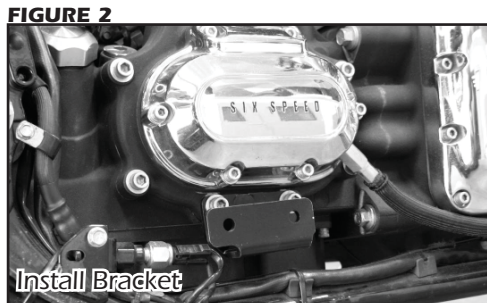
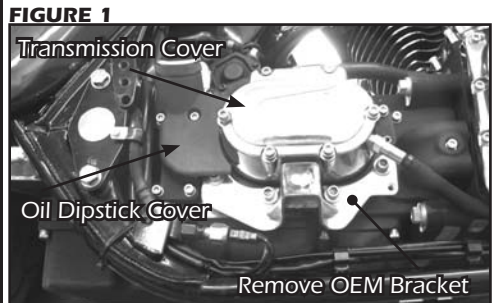


FIGURE 5

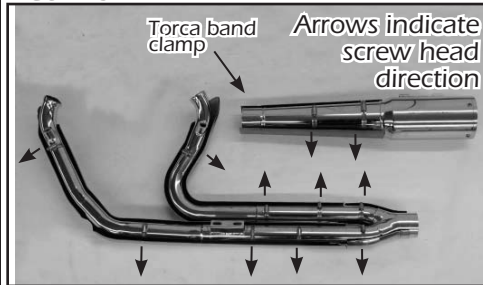


FIGURE 6

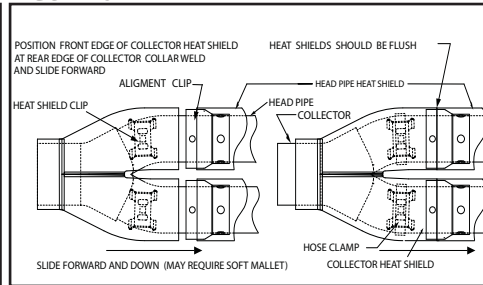


FIGURE 7

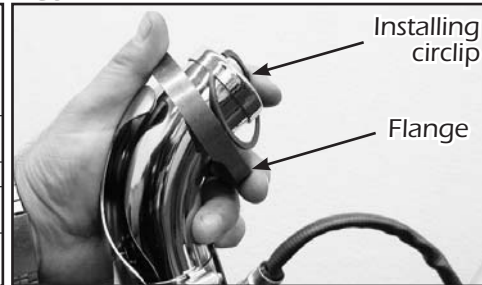
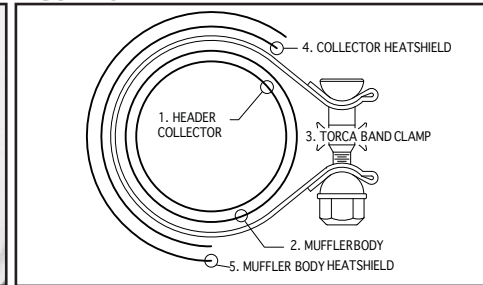


FIGURE 8



VANCE & HINES EXHAUST SYSTEM INSTALLATION

Note: Black Ceramic exhaust systems require special care during installation. Applying low tack tape (painters or equivalent) to edges or areas where movement or scratching can occur during installation can be very helpful.

- Remove head pipes and heat shields from protective packaging. Place each heat shield on a non-abrasive surface such as a blanket or carpet large enough to fully protect heat shields. Using a pencil, lightly mark the outside edge of each heat shield to show location of mounting clips that hose clamps will loop. (Figure 2).
- Lay head pipes into their respective heat shields. Use care when installing the #24 and #20 hose clamps to avoid damaging the coating; install by carefully feeding through the tail end of clamps. Install # 24 hose clamps on the four heat shield clips located closest to the collector end of the heat shield. The #20 hose clamps are inserted into the three other heat shield clips. (Figure 2). Take note of clamp screw head direction (Figure 3). Screw head must be accessible when system is installed on motorcycle for adjustment purposes. NOTE: To avoid excessive movement of heat shield during installation, only finger tighten at this time.
- Apply a small amount of anti-seize compound to the threads of the oxygen sensors and install them into the new head pipe
- Install exhaust port flanges and circlips (from stock system) onto head pipes (Figure 7). NOTE: Use care when installing flanges, using a low tack tape (blue painters or equivalent) if necessary to protect the edges of the heat shields from damage
- Using stock flange nuts, carefully install head pipes into exhaust ports, starting with the rear cylinder. Assistance may be required. NOTE: Do not tighten at this time.
- Slide the nut plate (supplied) into the bracket that is welded to the back side of the head pipe assembly. Loosely install two 5/16" flange head bolts (supplied) through 591-P bracket into nut plate.
- Install Torca band clamp with bolt facing down (supplied) onto end of muffler body (Figure 3 and 7).
- Install collector heat shield onto header by sliding it on from the rear (Figure 5). NOTE: Do not force collector heat shield directly onto header from the side, damage to collector heat shield will result. Attach collector heat shield with two #24 hose clamps (supplied). NOTE: Finger tighten at this time.
- Holding the muffler Body (D730RC) in a vertical position (large end down) slip the muffler body heat shield (stamped D734HC) onto the muffler body (stamped D730RC) from front to back and secure with a #44 hose clamp in the front and a #56 hose clamp in the rear. (Figure 3) NOTE: Use care when installing heat shield

- to avoid damaging the muffler body coating. Use a low tack tape (painters tape or equivalent) to protect the transition on the muffler body (D730RC) between tapered section and 4.5" round end section during installation. Finger tighten the hose clamps at this time to prevent the heat shield from excessive movement. (Figure 4).
- Install muffler assembly onto collector of header assembly (Figure 7). Attach muffler assembly to OEM sliding hanger and secure with 5/16" OEM bolts removed earlier.
- Tighten muffler body heat shield and leave about 1/16" even gap on the rear between heat shield and muffler body (Figure 4). Make sure top edge of heat shield is aligned with centerline of muffler body to maintain acceptable clearance.
- Tighten the exhaust port flange nuts, nut plate bolts, Torca band clamp and 5/16" flange head bolts at the bracket.
- Tighten hose clamps securing header heat shields and collector heat shield making sure that they are flush. (Figure 5)
- Route the front (Grey) and rear (Black) O2 sensor wire along OEM path and plug the grey sensor wire into the grey connector and the black sensor connector into the black connector. Secure wires to the frame using supplied nylon cable ties.
- Using two 1" x 3/16" large washers (supplied) on each of the two 1/2" x 1 1/2" allen bolts (supplied), re-install the right hand floor board with washers sandwiched between frame and floorboard.
- Re-install passenger floor board and both saddle bags. NOTE: Passenger floor boards can be installed in three positions. Install both passenger floor boards at the middle or upper position.
- Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
- Be sure to tighten all hardware before starting your motorcycle.
- After installation and before starting motorcycle, completely clean pipes and mufflers with soapy water and a clean soft cloth that will not leave a residue. **NOTE: Any residue, oil, or fingerprints will stain the finish when the metal heats up.**
- After you have taken the vehicle for a test ride (to properly heat cycle the exhaust system) it may be necessary to readjust the heat shields to close the gap between the collector heat shield and the head pipe heat shields.

EXHAUST CARE - HELPFUL HINTS TO AVOID DISCOLORATION OF EXHAUST SYSTEM

- When installing a new set of black pipes, make sure your hands are clean and free of oil. After installation, thoroughly clean pipes using a soft cloth with soap and warm water that will leave no residue (chrome wax / polish, glass cleaner, alcohol, ammonia, etc...) before starting the motorcycle.
- 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

FUELPAK



FUEL MANAGEMENT:
Take the guess work out of fuel injection with Fuelpak Fuel Management.
Fuelpak is intended for racing or off-highway use only, and is not legal for sale or use in California on pollution-controlled vehicles.

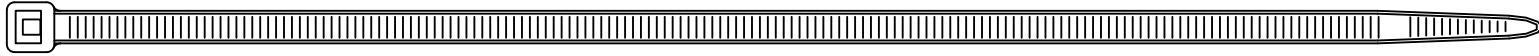
QUIET BAFFLE

Quiet baffle P/N 21903 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.

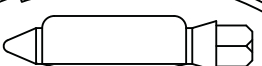
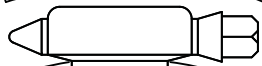
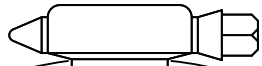


PACKING LIST

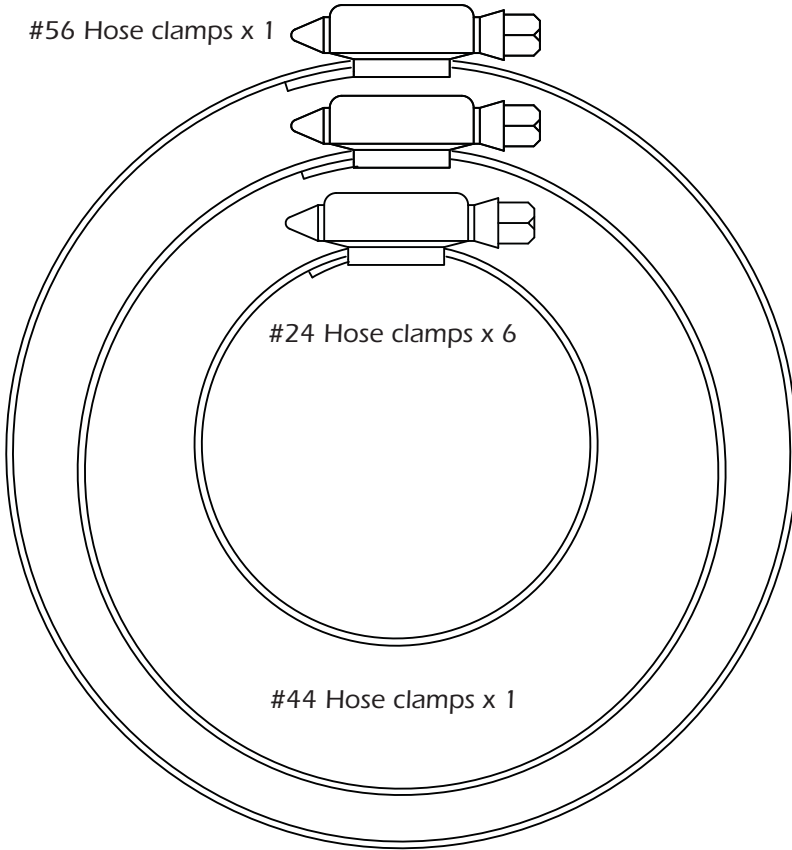


Nylon cable tie x 2

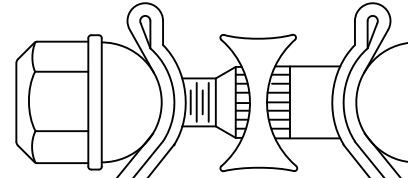
#56 Hose clamps x 1



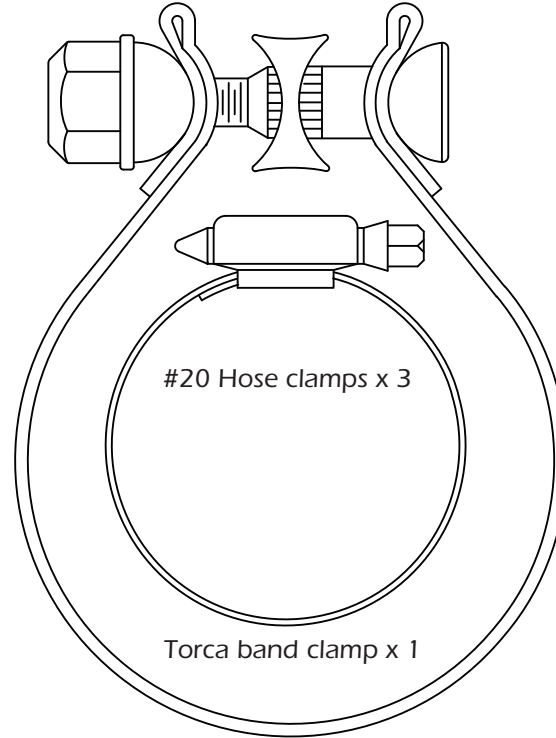
#24 Hose clamps x 6



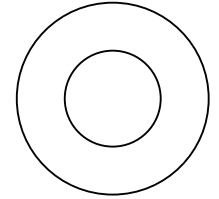
#44 Hose clamps x 1



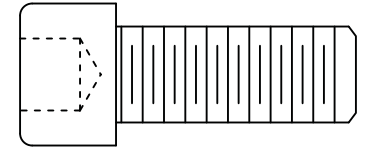
#20 Hose clamps x 3



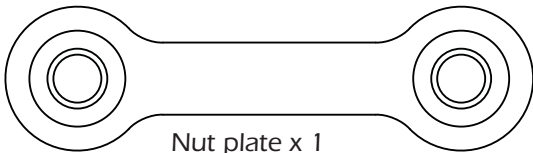
Torca band clamp x 1



1" x 3/16 x 1/2" Flat Washer x 4

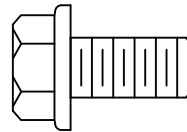


1/2" x 1 1/2" Allen Head Bolt x 2



Nut plate x 1

5/16-18 x 5/8" Flange Bolt x 2



PARTS NOT SHOWN:

- | | | |
|--------|--------------------------|----|
| 592-P | 07-08 Bracket | x1 |
| 615-P | 99-06 Bracket | x1 |
| D600FC | Header | x1 |
| D732RP | Muffler body | x1 |
| D622HP | Front heat shield | x1 |
| D623HP | Rear heat shield | x1 |
| A205HP | Collector heat shield | x1 |
| D739HP | Muffler body heat shield | x1 |

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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.

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FUEL MANAGEMENT

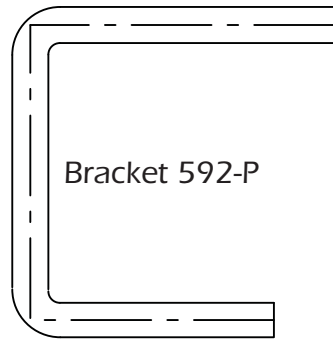
GET THE MOST OUT OF YOUR RIDING EXPERIENCE...

AN AFTERMARKET EXHAUST SYSTEM IS ONLY YOUR FIRST STEP, NOW YOU NEED FUEL MANAGEMENT.

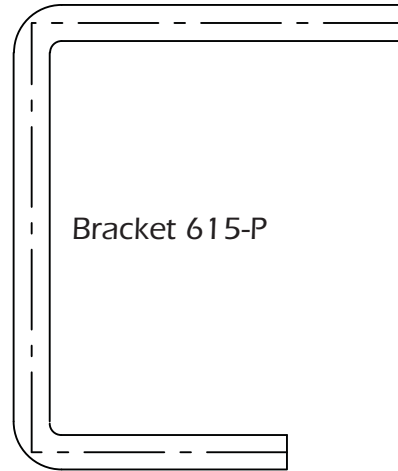
NOW YOU NEED FUELPAK.

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.

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.



Bracket 592-P



Bracket 615-P

Vance & Hines puts everything within reach.