HARLEY-DAVIDSON® TOURING MODEL
PROPIPE CHROME
INSTALLATION INSTRUCTIONS
PART# 17557

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
- 5/32", 3/16" & 5/16" Allen wrench
- Snapring 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**

1. Remove both left and right saddlebags and set them aside.
2. Loosen the bolt from the pinch clamp on the front end of each muffler.
3. Remove the two 5/16" bolts that mount the muffler to the saddlebag supports. Repeat this step on the opposite muffler.
4. 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.
5. 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.
6. Remove the right hand floor board and passenger floor board (or foot peg).
7. Loosen the heat shield clamps on both front and rear exhaust pipes.
8. Loosen the rear head pipe clamp located behind the rear cylinder. Remove the section of head pipe connecting the left side muffler.
9. Remove the nut and carriage bolt holding the front head pipe to the bracket on the transmission housing
10. Remove the two flange mounting nuts from each head pipe, located at the cylinder head. Carefully remove the head pipes and set them aside.
11. 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.
12. 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)
13. 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
14. 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)
15. Carefully remove the exhaust port flanges and circlips from the stock exhaust system using snapring pliers. NOTE: If circlips look bent or twisted, replace them.
16. 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 1

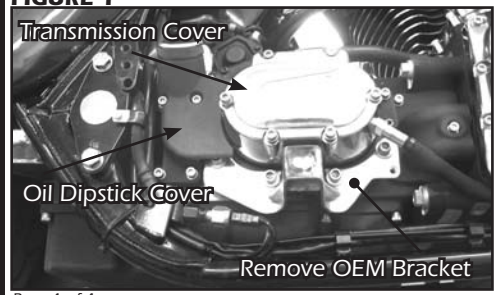


FIGURE 2

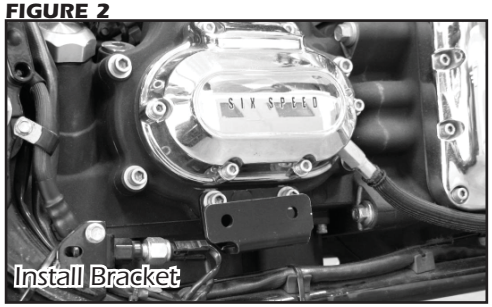


FIGURE 3

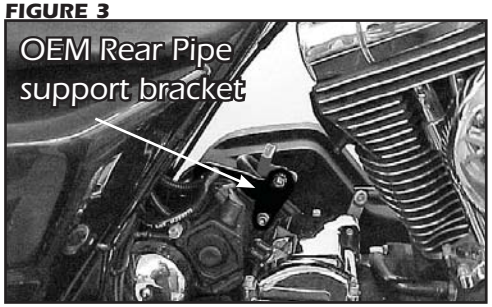
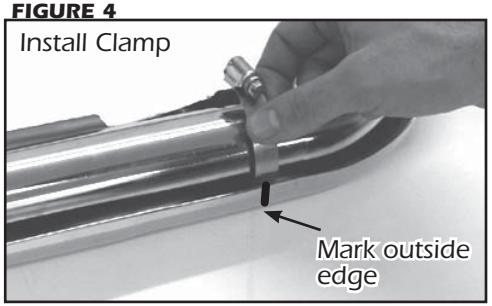


FIGURE 4



MORE POWER : LESS NOISE

FIGURE 5

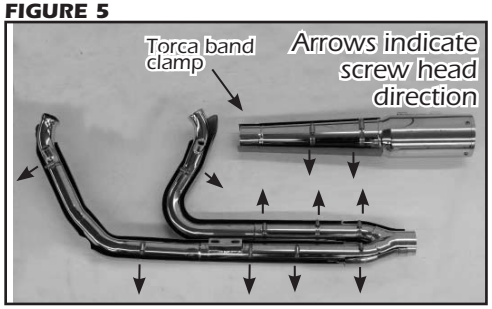


FIGURE 6

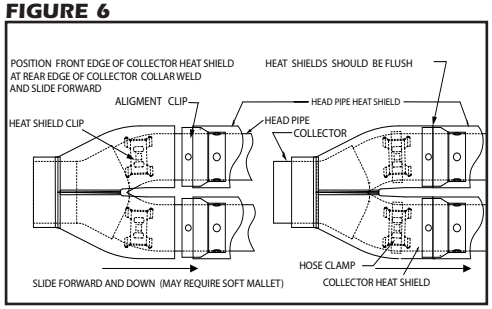


FIGURE 7

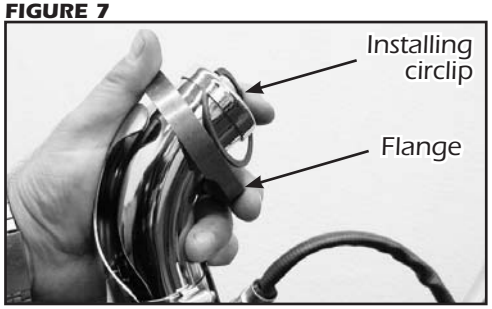
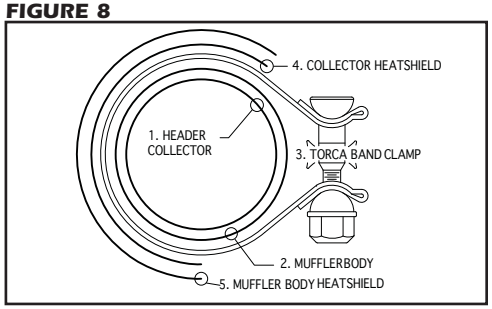


FIGURE 8



VANCE & HINES EXHAUST SYSTEM INSTALLATION

1. Remove head pipes 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 4).
2. Lay head pipes into their respective heat shields. 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 by feeding through the tail end of clamps (Figure 4). Take note of clamp screw head direction (Figure 5). Screw head must be accessible when system is installed on motorcycle for adjustment purposes. NOTE: Do not tighten at this time.
3. Apply a small amount of anti-seize compound to the threads of the oxygen sensors and install them into the new head pipe. NOTE: Be careful not to get anti-seize on sensor tip, it may affect sensor function.
4. Install collector heat shield onto header by sliding it on from the rear (Figure 6). 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: Do not tighten at this time.
5. Install exhaust port flanges and circlips (from stock system) onto head pipes. (Figure 7)
6. 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.
7. 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)
8. Install Torca band clamp with bolt facing down (supplied) onto end of collector and under collector heat shield (Figure 8).
9. Install muffler assembly onto collector of header assembly, underneath collector heat shield (Figure 8). Attach muffler assembly to OEM sliding hanger with 5/16" OEM bolts removed earlier.
10. Slip the muffler body heat shield (stamped D734HC) from front to back onto the muffler body (stamped D730RC) and secure with a #44 hose clamp in the front and a #56 hose clamp in the rear. (Figure 5) NOTE: 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. Do not tighten the hose clamps at this time.
11. Tighten the exhaust port flange nuts, nut plate bolts, Torca band clamp and sliding hanger bolts.
12. Tighten hose clamps securing header heat shields and collector heat shield making sure that they are flush. (Figure 6)
13. Tighten muffler body heat shield, leaving about 1/16" even gap at the rear between heat shield and tapered section of muffler body. NOTE: Make sure top edge of heat shield is aligned with the vertical centerline of muffler body to maintain acceptable clearances.
14. Following OEM routing, plug oxygen sensors into their respective wiring connector. Use nylon cable tie (supplied) to secure front oxygen sensor.
15. Using two 1" x 3/16" large washers (supplied) on each of the two 1/2" x 1 1/4" allen bolts (supplied), re-install the right hand floor board with washers sandwiched between frame and floorboard.
16. Re-install passenger floor board. NOTE: Passenger floor boards can be installed in three positions. Install both passenger floor boards at the middle or upper position.
17. Re-install both saddle bags.
18. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
19 Be sure to tighten all hardware before starting your motorcycle.
20. After installation and before starting motorcycle, remove protective tape and 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.**

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.
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.

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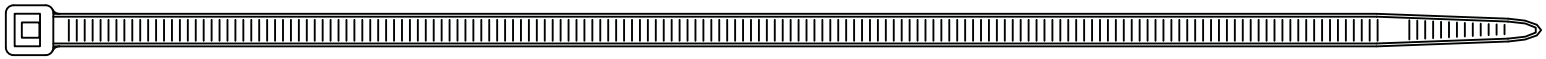
MORE POWER : LESS NOISE

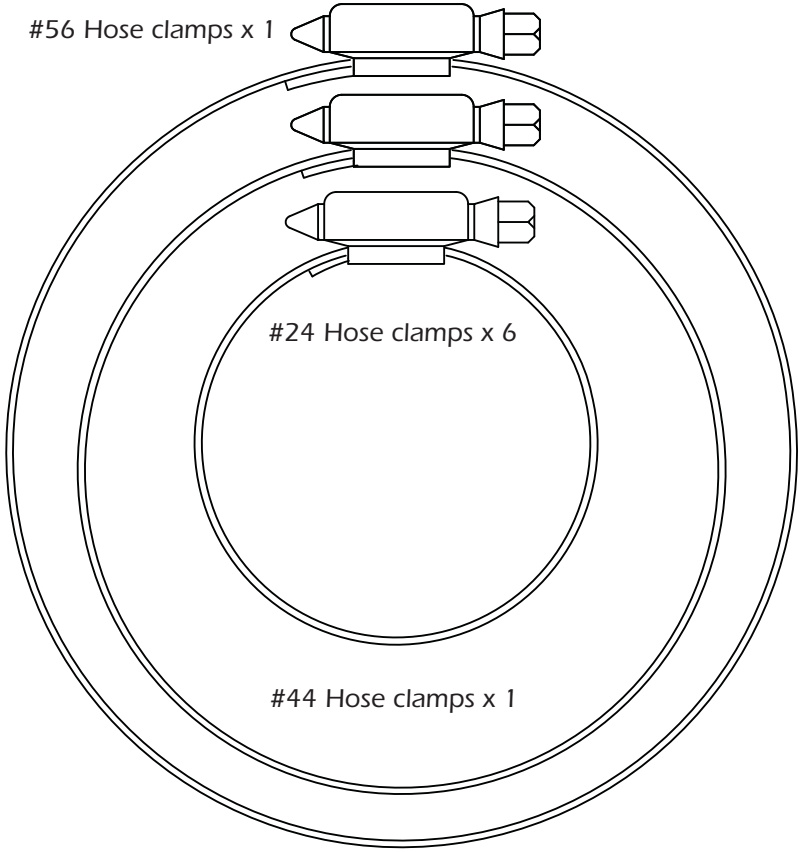
ALL PARTS SHOWN ARE ACTUAL SIZE

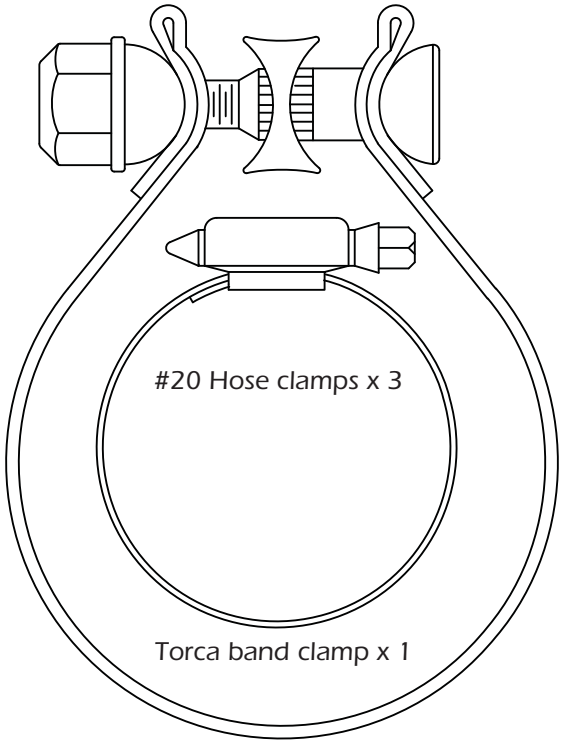
PACKING LIST

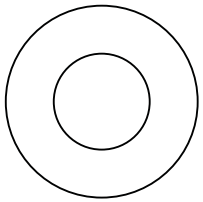


Nylon cable tie x 2

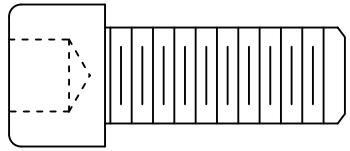
#56 Hose clamps x 1



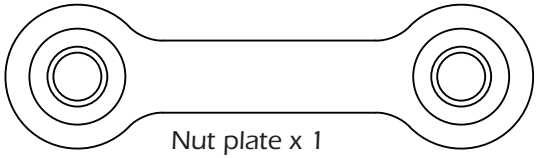




1" x 3/16 x 1/2" Flat Washer x 4

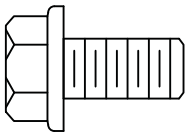


1/2" x 1 1/4" Allen Head Bolt x 2



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
D730RC	Muffler body	x1
D600HC	Front heat shield	x1
D601HC	Rear heat shield	x1
A200HC	Collector heat shield	x1
D734HC	Muffler body heat shield	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.

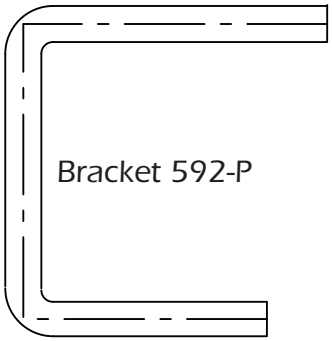
GET THE MOST OUT OF YOUR RIDING EXPERIENCE...

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

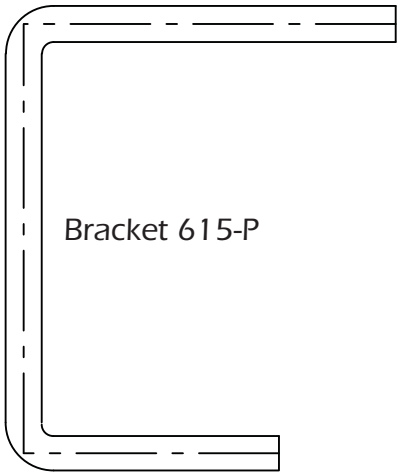
NOW YOU NEED FUELPAK.

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