

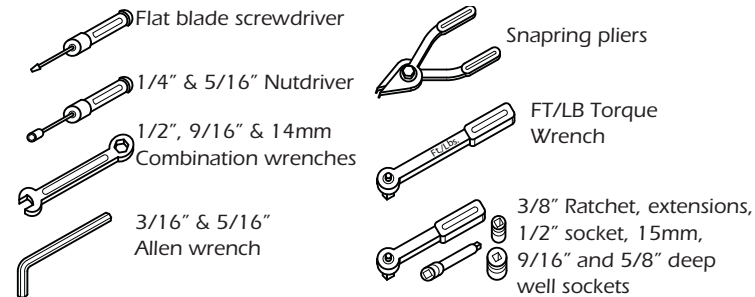
## HARLEY-DAVIDSON® TOURING MODEL PROPIPE BLACK INSTALLATION INSTRUCTIONS PART# 47561



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



### READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

#### STOCK EXHAUST SYSTEM REMOVAL

1. Remove both left and right saddlebags and set them aside.
2. Remove the right side panel to gain access to the O2 connections.
3. Loosen the bolt from the pinch clamp on the front end of each muffler.
4. Remove the two 5/16" bolts that mount the muffler to the saddlebag supports. Repeat this step on the opposite muffler.
5. 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.
6. Unplug the O2 sensor wires (Grey and Black connectors under the right side panel) from the wiring harness and remove cable ties 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.
7. Remove the right hand floor board.
8. Remove right passenger floor board or foot peg if so equipped.
9. Loosen the heat shield clamps on both front and rear exhaust pipes.
10. Remove the nut and carriage bolt holding the front head pipe to the bracket on the transmission housing
11. Remove the two flange mounting nuts from each head pipe, located at the cylinder head. Carefully remove the head pipes and set them aside.
12. Using a 14mm wrench, carefully remove the O2 sensors from the stock head pipes and save for re-use with the new system.
13. 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.
14. Remove the stock bracket on the transmission housing and install the new bracket (stamped 591-P)(supplied) and torque bolts to 13-16 ft. lbs. (Figure 1). NOTE: Check clearance between bracket 591-P and OEM wiring harness and adjust if necessary
15. 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 #65324-83B.

FIGURE 1

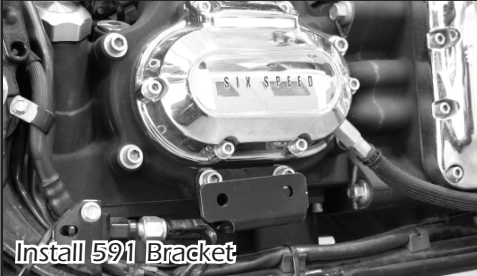


FIGURE 2

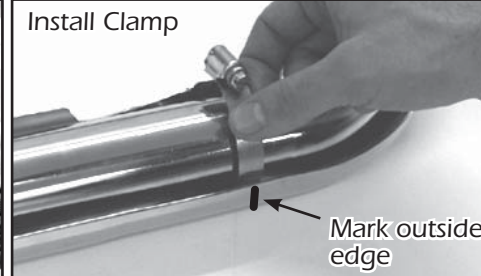


FIGURE 3

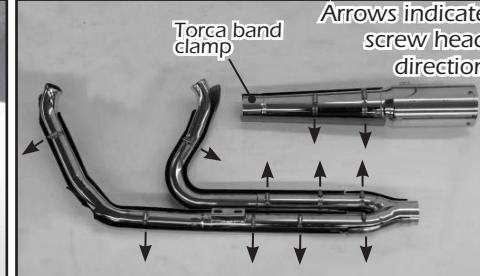


FIGURE 4



FIGURE 5

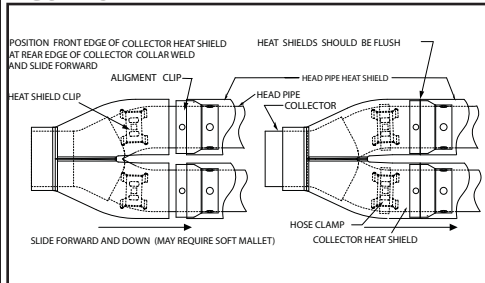


FIGURE 6

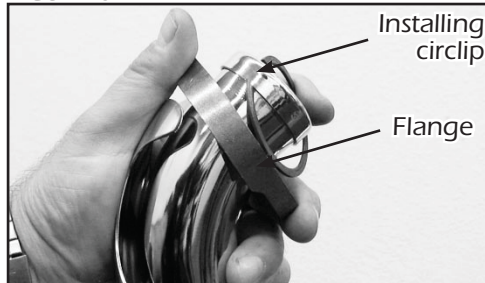


FIGURE 7

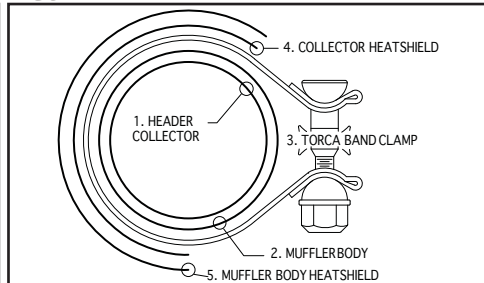


FIGURE 8



**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.**

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 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).
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.
3. Apply a small amount of anti-seize compound to the threads of the oxygen sensors and install them into the new head pipe (Grey connector into front head pipe, Black connector into the rear head pipe). **NOTE:** Be careful not to get anti-seize on sensor tip, it may affect sensor function.
4. Install exhaust port flanges and circlips (from stock system) onto head pipes (Figure 6). **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
5. 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.
6. 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.
7. Install Torca band clamp with bolt facing down (supplied) onto end of muffler body (Figure 3 and 7).
8. 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.
9. 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).

10. 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.
11. Tighten the exhaust port flange nuts, nut plate bolts, Torca band clamp and 5/16" flange head bolts at the bracket.
12. Tighten hose clamps securing header heat shields and collector heat shield making sure that they are flush. (Figure 5)
13. 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.
14. 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.
15. Remove the left 3/8" capscrew from the floor board support (Figure 8). Insert the 3/8" capscrew just removed through the second, outer large hole in the spacer marked 593-P (supplied) and re-install the 3/8" capscrew with spacer captured in the original location on the floor board support. **NOTE:** Make sure the other, middle large hole on the spacer aligns with the floor board mounting hole. You may use the 3/8"-16 x 1 1/2 bolt (supplied) to temporarily hold spacer alignment while tightening the 3/8" capscrew.
16. Install a 3/8" lock washer (supplied) on both of the 3/8"-16 bolts (supplied). Using these bolts re-install the floor board using a 3/8"-16 x 3" bolt with TWO spacing washers (supplied) on the forward mount and the 3/8"-16 x 1 1/2" bolt with ONE spacing washer (supplied) on the rear mount. **NOTE:** Spacing washers are located between the floor board supports and floor board mount plate. On CVO Models, a 3/8"-16 x 1-1/2" socket head cap screw (not supplied) should be used from the inside on the forward mount rather than the 3/8"-16 x 3" provided bolt.
17. 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.
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, 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.**
21. 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

1. When installing a new set of black pipes, make sure your hands are clean and free of oil. After installation, thoroughly clean pipes with a soft cloth and warm water to remove 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](http://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 BAFFLE

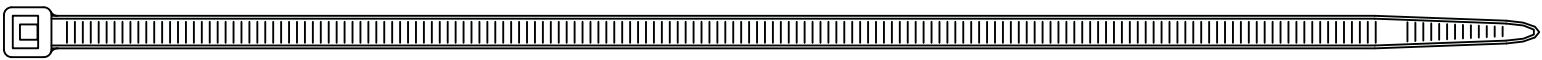
Quiet baffle P/N 21904 is available for this system. The quiet baffle will lower the sound level by 2-3db on average. Contact your local dealer to order.

**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.

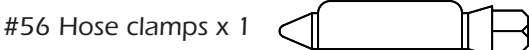


PACKING LIST

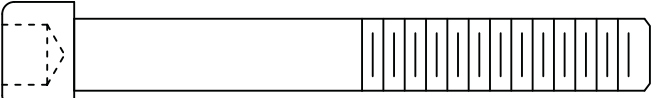
ALL PARTS SHOWN ARE ACTUAL SIZE



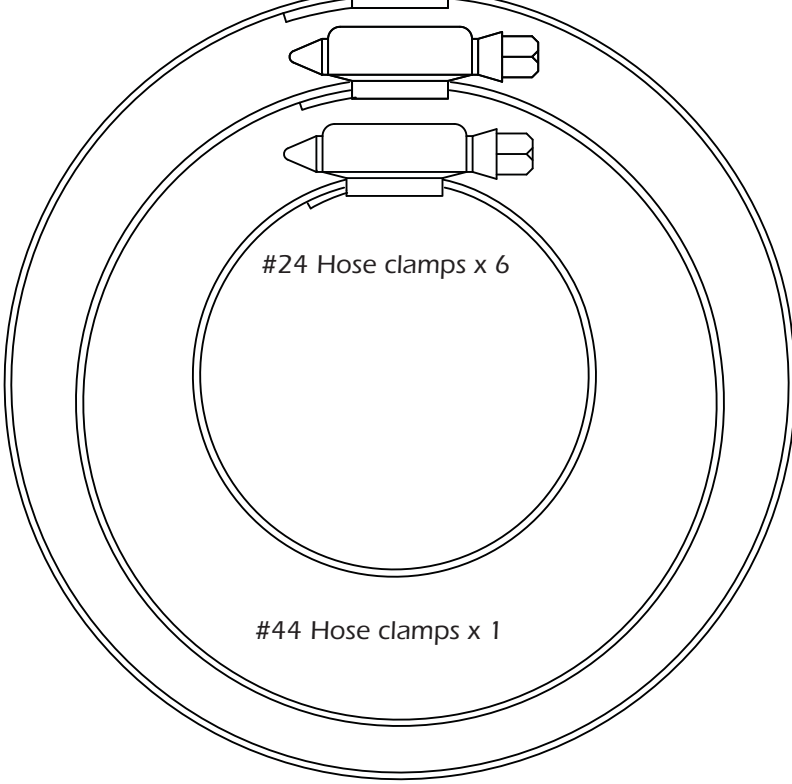
Nylon cable tie x 2



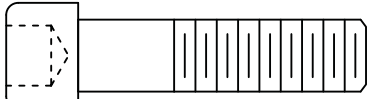
#56 Hose clamps x 1



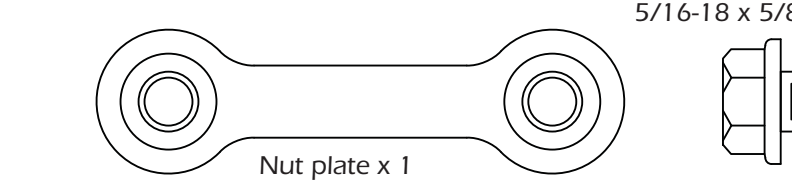
3/8"-16 x 3" Allen Head Bolt x 1



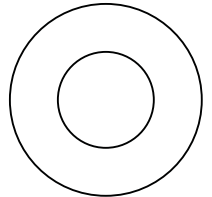
#24 Hose clamps x 6



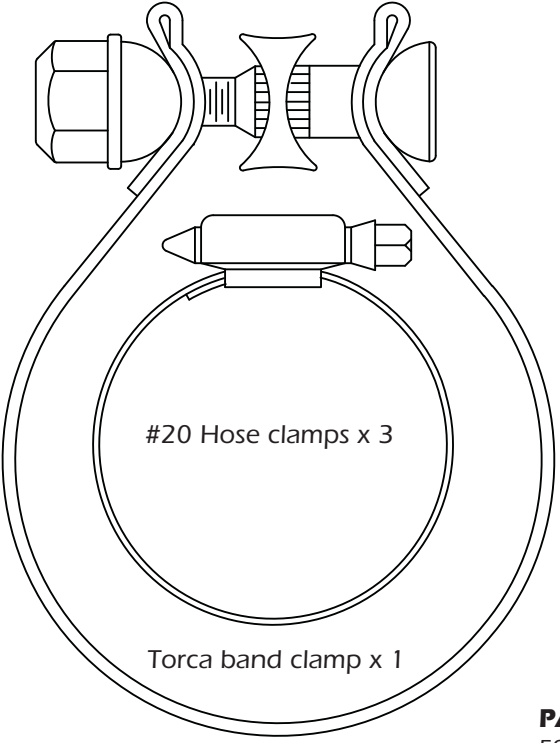
3/8"-16 x 1 1/2" Allen Head Bolt x 1



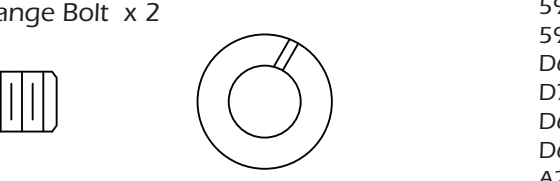
#44 Hose clamps x 1



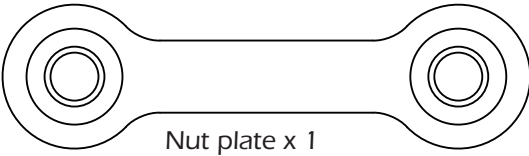
1" x 3/16 x 1/2" Flat Washer x 3




#20 Hose clamps x 3



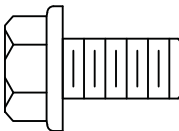
Torca band clamp x 1



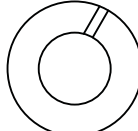
5/16-18 x 5/8" Flange Bolt x 2



Nut plate x 1



3/8" Lock washer x 2



3/8" Lock washer x 2

**PARTS NOT SHOWN:**

591-P	Bracket	x1
593-P	Spacer	x1
D630FC	Header	x1
D732RP	Muffler body	x1
D646HP	Front heat shield	x1
D647HP	Rear heat shield	x1
A205HP	Collector heat shield	x1
D739HP	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.



## 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](http://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.



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