

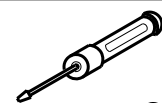
# HARLEY-DAVIDSON® DYNA STRAIGHTSHOT HS SLIP-ON INSTALLATION INSTRUCTIONS PART# 16823



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.

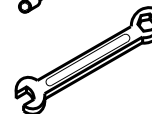
## TOOLS REQUIRED



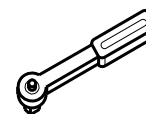
Flat Blade  
Screwdriver



5/16  
Nut Driver



1/2"  
Combination  
Wrench



3/8" Ratchet



1/2" Standard  
9/16" Deep  
Sockets

## READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

### STOCK EXHAUST SYSTEM REMOVAL

1. Before removing the stock exhaust system note orientation particularly of the support bar between the two muffler bodies (Figure 1) and the muffler clamps. If necessary, using tape or another easily removable means, note the orientation on the stock support to ease re-installation.
2. Remove the four 1/2" lock nuts that hold the support bar to the stock mufflers and remove the stock support bar and bolts (set the nuts, bolts and support bar aside as they will be used later).
3. Using the 9/16" deep socket, loosen the clamps holding the mufflers onto the head pipes and remove the mufflers from the head pipes.  
NOTE: May require assistance and the use of penetrating oil.
4. Remove the stock exhaust clamps from the nose of each muffler and set them aside for re-use with new the system.

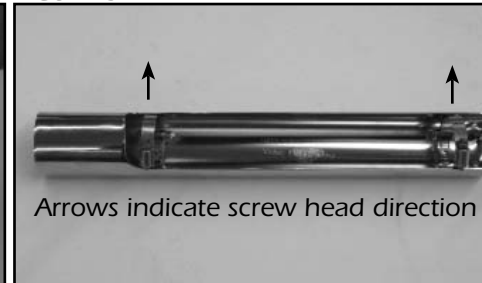
**FIGURE 1**



**FIGURE 2**



**FIGURE 3**



**FIGURE 4**



## VANCE & HINES EXHAUST SYSTEM INSTALLATION

1. Remove the muffler assemblies and heat shields from their protective packaging. Place each heat shield on a non-abrasive surface such as a towel, blanket or carpet.
2. Carefully lay the muffler assembly into the heat shield and loosely install the hose clamps (supplied) by feeding the tail end of the clamp into the heat shield clips (Figure 2). Note the direction of the clamp screw heads, they must be accessible for adjustment when system is installed (Figure 3).
3. Adjust the heat shield so that the muffler body is recessed 1 9/16" (Figure 4) and tighten the heat shield clamps. NOTE: The rolled over edge of the new heat shield will slide UNDER the stock heat shield.
4. Slip a stock muffler clamp over the nose of a muffler assembly and slip the assembly onto the lower (Front) head pipe until the heat shield slides under the stock heat shield by approximate 1/8". The clamp must be oriented such that the nut is accessible from underneath after installation. Tighten the clamp enough to hold the muffler in place allowing for adjustment later.
5. Repeat installation for the upper muffler assembly with the exception of the clamp which must be oriented such that the nut is accessible from the top after installation.
6. Insert the stock 5/16" carriage bolts into the slots in the bracket welded to the muffler body.
7. Install the stock muffler support bar onto the 5/16" bolts and secure it with the stock 1/2" lock nuts but do not tighten fully at this time to allow for muffler alignment. NOTE: Make sure that the support bar is correctly oriented and that the bar ends sit flat against both mufflers; rotate the mufflers if necessary (See Stock System Picture - Figure 1).
8. Check to see that the muffler assemblies did not slip out of place during the installation of the support bar (the heat shield of both assemblies should be approximately 1/8" UNDER the stock heat shields), adjust if necessary.
9. Align the mufflers, viewing from the rear of the motorcycle, the mufflers should appear aligned with each other vertically and from the side they should appear parallel with each other and the stock heat shields.
10. Holding the correct alignment, tighten the muffler clamps and support bar locking nuts. NOTE: May require assistance at this time to visually check alignment while you tighten the hardware.
11. Loosen the heat shield clamps and rotate the heat shields so that the bottom edge sits at approximately the 6 o'clock position and the muffler bodies are recessed in the heat shields an equal amount. NOTE: The rolled over edge goes UNDER the stock heat shield, it may be necessary to loosen the stock clamp nearest the edge to facilitate this installation.
12. Be sure to verify that all hardware has been tightened before starting your motorcycle.

## 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. Follow owners manual instructions regarding use of the choke (starter enricher). If left on longer than recommended, discoloration may be accelerated.
3. Avoid long periods of idling as this can cause discoloration.
4. Intake leaks can cause the engine to run lean and overheat, this could lead to discoloration.
5. 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 FOR FUEL INJECTED MODELS:**  
Take the guess work out of fuel injection with the new Fuelpak Fuel Management System, P/N 61005. Contact your local dealer or call (562) 921-7461 to order. Visit [vanceandhines.com](http://vanceandhines.com) for more information.

### QUIET BAFFLE



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.

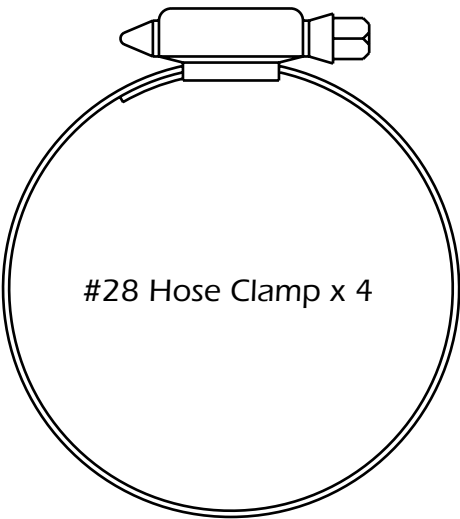
**RE-JETTING FOR CARBURETED MODELS:**  
Re-jetting the carburetors will result in realizing the "full" potential of this performance exhaust system. Vance & Hines offers Jet Kits for most applications, call (562) 921-7461 for more information.

**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



| PARTS NOT SHOWN: |                     |     |
|------------------|---------------------|-----|
| D708RC           | Muffler Assembly    | x 2 |
| D708HC           | Muffler Heat Shield | x 2 |

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.

# GEAR



## Big Radius

|     |       |
|-----|-------|
| SM  | 24024 |
| MD  | 24025 |
| LG  | 24026 |
| XL  | 24027 |
| XXL | 24028 |

## Sideshots Vertical

|     |       |
|-----|-------|
| SM  | 24029 |
| MD  | 24030 |
| LG  | 24031 |
| XL  | 24032 |
| XXL | 24033 |

## V-Rod

|     |       |
|-----|-------|
| SM  | 24034 |
| MD  | 24035 |
| LG  | 24036 |
| XL  | 24037 |
| XXL | 24038 |

## Sideshots Cubed

|     |       |
|-----|-------|
| SM  | 24039 |
| MD  | 24040 |
| LG  | 24041 |
| XL  | 24042 |
| XXL | 24043 |

**GET YOUR LIMITED EDITION VANCE & HINES T-SHIRT. ALL T-SHIRTS ARE BLACK, HIGH QUALITY, 100% COTTON AND MADE IN THE U.S.A. CALL TO ORDER: (562) 921-7461**