




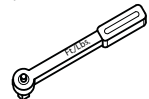
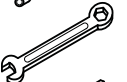
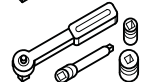
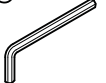
**MORE POWER : LESS NOISE**



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. 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**

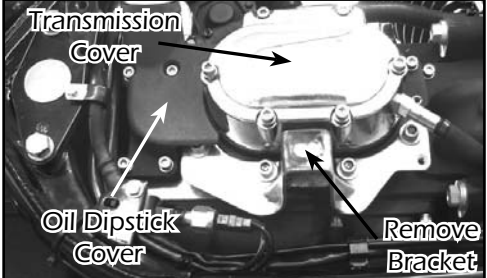
-  Flat blade screwdriver
-  Snapping pliers
-  5/16" Nutdriver
-  Ft/lb Torque Wrench
-  7/16", 1/2" & 9/16" Combination wrenches
-  3/8" Ratchet, Extensions, 7/16", 1/2" & 9/16" sockets
-  3/16", 1/4", 3/8" wrenches

**READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION**

**STOCK EXHAUST  
SYSTEM REMOVAL**

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. Note: On older model Dressers, spread the clamps just enough to remove them.
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 and the sliding hangers and set them aside. Note: It may be necessary to use a penetrating lubricant to loosen the muffler from the head pipe.
5. Remove the right hand floor board.
6. Remove both passenger floor boards.
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 clamp holding the front head pipe to the transmission housing.
10. Remove the two mounting nuts from each head pipe, located at the cylinder head. Carefully remove the head pipes and set them aside.
11. Remove the rear cylinder bracket by removing the two starter mounting bolts. Install new mounting bracket (stamped 353-P), and torque to (13-16) ft. lbs. (Figure 1). Make sure the battery ground cable is secure and properly routed. Install mounting post (from stock system) so the nut is accessible from right side of motorcycle and saddle will support underside of exhaust pipe. Note: Pre 1998 dressers do not come with this mounting post. It can be ordered from your local dealer, Harley part number: 65619-98.
12. 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.
13. Check the stock exhaust gaskets to be sure they are in good shape. If you have any doubts as to their condition, replace them. Recommended replacement exhaust port gaskets, Harley part number: 17048-98 or 65324-83A.
14. Remove bracket on the transmission housing by removing oil dip stick cover and transmission cover (Figure 1). Install new bracket (stamped 500-P) (supplied) replace oil dip stick cover and transmission cover and torque bolts to 13-16 ft. lbs. (Figure 2).

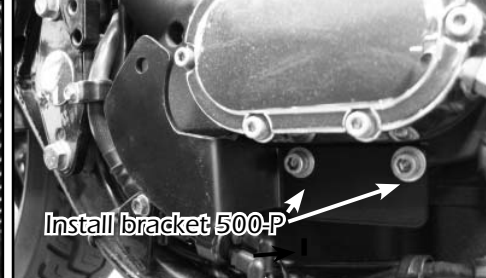
**FIGURE 1**



**FIGURE 2**



**FIGURE 3**



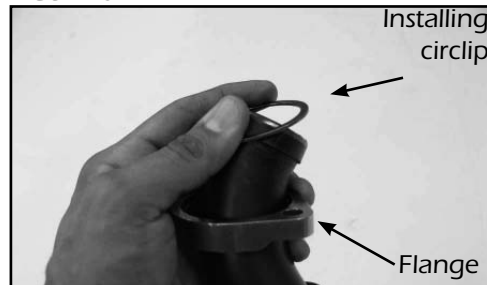
**FIGURE 4**



**FIGURE 5**



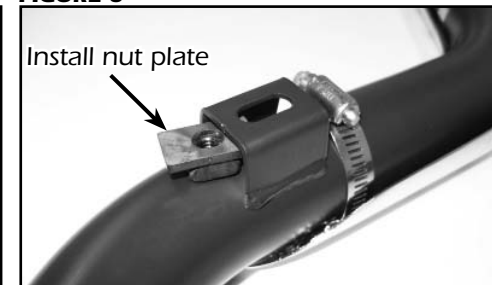
**FIGURE 6**



**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 (supplied) will loop through .
2. On the rear head pipe (R113FP)(supplied) carefully slide the black T-bolt clamp (supplied) up the pipe so it sits on the straight section of pipe closest to the cylinder head. When pipe is installed, clamp nut should hang under head pipe and point towards the engine (Figure 4).
3. Install the chrome heat shields to head pipes and install each hose clamp by feeding tail end of clamps into heat shield clips. Take note of location of clamp screw head direction (Figure 5). Use care to avoid scratching the black finish.
6. Install exhaust port flanges and circlips (from stock system) onto head pipes (Figure 6).
8. Install rear head pipe assembly into exhaust port. Use stock flange nuts, do not tighten at this time.
9. Slide T-bolt clamp (supplied) into position on pipe mounting post attached to bracket (353-P), do not tighten at this time (Figure 7).
10. Using stock hardware, re-install left side muffler. Finger tighten.
11. Install front head pipe assembly into exhaust port, using the stock flange nuts. Do not tighten at this time.
12. Insert single nut plate into bracket on front head pipe (flat side facing away from pipe) and secure to bracket using 5/16" x 5/8 flange bolt (Figure 8 ).NOTE: Do not tighten at this time.
13. Using stock hardware, re-install right side muffler. Finger tighten.
14. Tighten the front and rear exhaust port flange nuts.
15. Tighten 5/16" x 5/8 flange bolt securing front head pipe.
16. Adjust the rear cylinder support bracket (if necessary) and tighten the securing nut. NOTE: This nut is difficult to reach and you may have to determine the mounting post location, remove the pipe and then tighten this nut.
17. Tighten the two muffler clamps.
18. Tighten the hose clamps securing the heat shields.
19. Install the Black heat shields (R113HP - Right, R114HP - Left) to cover muffler clamps on each side using same process as chrome heat shields (Step 3).
20. Reinstall the right hand floor board.
21. Reinstall both passenger floor boards. NOTE: Floorboards can be installed in three positions. Install both floorboards at the same height.
22. Wipe any finger prints or oil off the exhaust system before starting your motorcycle.
23. Be sure to tighten all hardware before starting your motorcycle.

## 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 warm soapy water and a soft cloth. Dry with clean towel to remove any residue 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.

## VANCE & HINES OPTIONAL ACCESSORIES

### FUELPAK



#### FUEL MANAGEMENT:

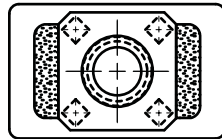
Take the guess work out of fuel injection with Fuelpak Fuel Management. Contact your local dealer or call (562) 921-0071 to order. Visit [fuelpakfi.com](http://fuelpakfi.com) for more information. Fuelpak is intended for racing or off-highway use only, and is not legal for sale or use in California on pollution-controlled vehicles.

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.

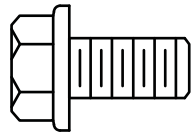
**PACKING LIST**

**MORE POWER : LESS NOISE**

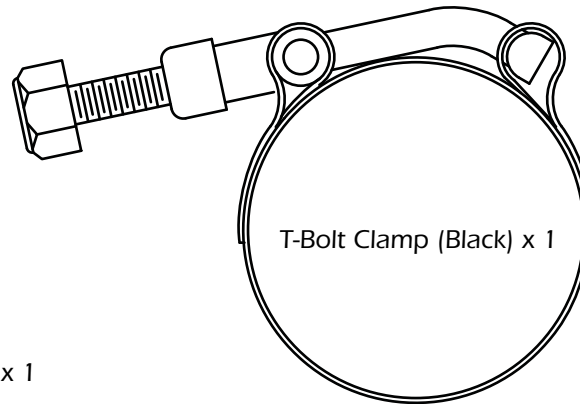
**ALL PARTS SHOWN ARE ACTUAL SIZE**



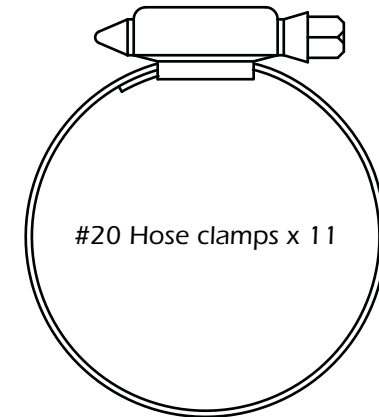
Nut plate x 1



5/16" x 5/8" Flange bolts x 1



T-Bolt Clamp (Black) x 1



#20 Hose clamps x 11

**PARTS NOT SHOWN:**

|        |                                 |    |
|--------|---------------------------------|----|
| 353-P  | Starter Bracket                 | x1 |
| 500-P  | Transmission Bracket            | x1 |
| R112FP | Front head pipe assembly        | x1 |
| R113FP | Rear head pipe assembly         | x1 |
| R110HC | Front cylinder heat shield      | x1 |
| R111HC | Front cylinder heat shield      | x1 |
| R112HC | Rear cylinder heat shield       | x1 |
| R113HP | Right muffler clamp heat shield | x1 |
| R114HP | Left muffler clamp 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 motors 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.**



**MORE POWER : LESS NOISE**

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