

# INSTALLATION INSTRUCTIONS

## DRAG SPECIALTIES PYTHON STAGGERED DUALS P/N 1800-0469

**ATTENTION INSTALLER** (if other than owner): Please forward this Instruction Sheet to the purchaser of this product. These instructions contain valuable information necessary to the end user.

**INTRODUCTION:** These instructions describe the procedure for properly installing the Python Staggered Dual exhaust on the 2007 Softail models.

Review instructions carefully before beginning, as they contain important information. Please retain for future reference.

Particularly important information is distinguished in these instructions by the following notations:

**NOTE: A NOTE:** provides key information to make procedures easier or clearer.

**CAUTION: A CAUTION:** Indicates special procedures that must be followed to avoid damage to the motorcycle and/or accessories.

**WARNING!: A WARNING!:** Indicates special procedures that must be followed to avoid injury to a motorcycle operator or person inspecting or repairing the motorcycle.

### TOOLS REQUIRED:

Flat Blade Screwdriver	3/16" Allen Wrench
5/16" Nut Driver	5/16" Allen Wrench
1/2", 9/16", & 7/8"	T45 Torx Wrench
Combination Wrenches	T50 Torx Wrench
1/2" & 9/16" Sockets	Snap ring pliers
w/ ratchet and extension	

### PROCEDURE:

**CAUTION:** Disconnect the battery negative cable before attempting any work on the motorcycle.

1. Under the oil tank on the right-hand side, locate the rear oxygen sensor connector. Unplug sensor and feed the end of wire through the frame, freeing it from motorcycle.

**NOTE:** Pay attention to wire routing for reinstallation.

2. Open the plastic cover above the rectifier on front of the frame to gain access to the front oxygen sensor connector. Unplug sensor from harness. Remove cable tie holding wire to frame and feed the end of the wire through, freeing it from motorcycle.

3. On FLSTC, FLSTF, FLSTN and FLSTSC models, loosen the right-hand floorboard mounting bolts to gain clearance for exhaust removal and installation.

4. Loosen the heat shield clamps on both front and rear exhaust pipes.

5. Remove the two mounting nuts from each headpipe, located at the cylinder head.

6. Remove the nuts attaching the exhaust mount bracket to the frame.

7. On FLSTN and FLSTF models, you will need to remove the right-side passenger foot peg and hanger, as this is attached to the exhaust mount bracket. Replace the passenger foot peg assembly using the 3/8" x 2 1/2" Allen bolt (supplied).



8. Remove the entire exhaust system and set it aside.

9. Remove the two lower mounting studs from the frame (**Figure 1**).



FIGURE 1

10. Carefully remove exhaust port flanges and circlips from the stock exhaust system using snap ring pliers.

**NOTE:** Replace bent or damaged circlips. Check exhaust port gasket condition. (Recommended replacement exhaust port gasket are Drag Specialties part number DS-173220).

1. Remove header 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 2**).

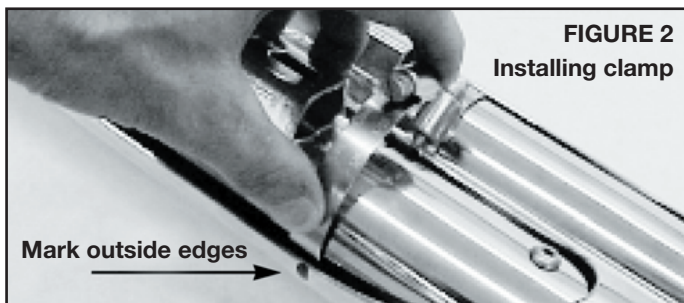


FIGURE 2  
Installing clamp

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P/N 1800-0469

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2. Slide header into heat shields tail end first (**Figure 3**).



FIGURE 3

3. Install each hose clamp by feeding tail end of clamps into heat shield clips. Use #20 hose clamps (supplied) on headpipes and #28 hose clamps (supplied) on muffler sections. Take note of location of clamp screw head direction (**Figure 2 & Figure 4**). Screw head must be accessible when system is installed on motorcycle for adjustment purposes. Align end tips evenly and tighten hose clamps.

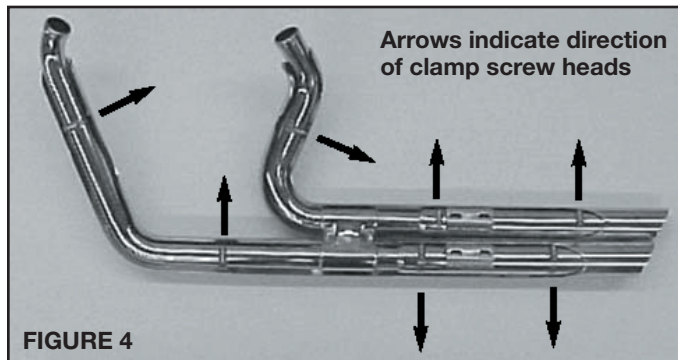


FIGURE 4

4. Apply a small amount of anti-seize compound to threads of the oxygen sensors and install them into the new headpipe.

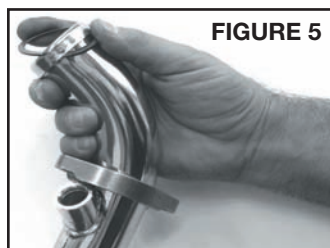


FIGURE 5

- CAUTION:** be careful not to get anti-seize on sensortip, it may affect sensor function.
5. Install circlips and flanges from stock system onto the new headpipe (**Figure 5**).
6. Attach mounting bracket (Stamped 330-P) (supplied) using four  $\frac{5}{16}$ " x  $\frac{5}{8}$ " flange

bolts and two nut plates (supplied). Slide nut plates inside brackets that are welded to the backside of each muffler (**Figure 6**). Leave them loose at this time. Use this procedure for both upper and lower muffler mounting positions.



Installing nut plate  
FIGURE 6

7. Install complete assembly into exhaust ports (rear port first). Use stock flange nuts, do not tighten at this time. Install exhaust bracket to motorcycle frame rail using two  $\frac{3}{8}$ " x  $\frac{3}{4}$ " flange bolts (supplied). Do not tighten at this time.
8. Tighten cylinder port exhaust flange nuts on front and rear cylinders. Now tighten the  $\frac{5}{16}$ " x  $\frac{5}{8}$ " flange bolts (supplied) and the  $\frac{3}{8}$ " x  $\frac{3}{4}$ " flange bolts (supplied) attaching the bracket to the frame.
9. Feed wire for the front oxygen sensor through the frame and into the plastic holder on the frame. Plug the sensor into the stock wiring connector. Snap the plastic holder closed to hold the connector in place.
10. Install a new nylon cable tie (supplied) to hold the wires onto frame in the original location.
11. Feed connector for the rear oxygen sensor through the frame under the oil tank on the right hand side. Plug the sensor into the stock wiring connector.
12. Re-tighten floorboard mounting bolts on models so equipped.
13. Re-install the battery negative cable. Tighten firmly.
14. Be sure to tighten all hardware before starting motorcycle.
15. After installation and before starting the motorcycle, completely clean pipes and mufflers with cleaning solvent and a clean soft cloth that will not leave a residue.

**CAUTION:** Any residue, oil, or fingerprints will stain the chrome when the metal heats up.

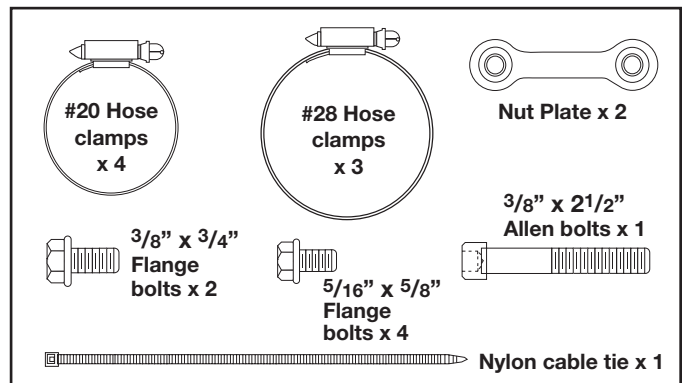
**WARNING!** Before operating motorcycle, be sure all hardware is tight. Every effort is made for Python Exhaust Systems to provide improved clearance. However, due to design and space limitations on some motorcycle models, ground and cornering clearance may not be improved and in some cases may be reduced. Be sure to follow proper installation instructions.

### RE-JETTING INSTRUCTIONS

For fuel-injected models, we recommend the use of an adjustable fuel-management system, which will result in realizing the "full" potential of this performance exhaust system.

### HELPFUL HINTS TO AVOID DISCOLORATION OF EXHAUST PIPES

1. Follow owner's manual instructions regarding use of the choke (starter enrichener). If left on longer than recommended, discoloration may be accelerated.
2. Avoid long periods of idling.
3. Intake leaks can cause the engine to run lean and overheat, thus turning the pipes blue.



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