

INSTALLATION INSTRUCTIONS

DRAG SPECIALTIES PYTHON VENOM RADIUS P/N 1800-1202/1203

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 Venom Radius Exhaust on 06-10 Dyna 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:

- Snap ring pliers
- Flat blade screwdriver
- 5/16" Nut driver
- 3/8" Ratchet & extensions
- 7/16", 1/2" & 9/16" sockets
- 1/2", 9/16" & 7/8" Combination wrenches
- 3/16" & 1/4" Allen wrenches

PROCEDURE:

STOCK EXHAUST SYSTEM REMOVAL

1. Remove seat to gain access to rear oxygen sensor connector. Unplug sensor and feed end of wire through frame so that it is free from motorcycle.

NOTE: Pay attention to wire routing for re-installation.

2. Remove two bolts holding rectifier onto front of frame (near front tire). Open plastic cover to gain access to front oxygen sensor connector. Unplug sensor from harness. Remove cable tie holding wire to frame and feed end of wire through so that it is free from motorcycle.
3. Loosen heat shield clamps on both the front and rear headpipes.
4. Remove two cylinder exhaust port flange nuts from each headpipe, located at the cylinder head.
5. Remove front headpipe clamp bolt.
6. Remove the bolt that attaches mufflers to the frame mounting bar.
7. Remove the complete exhaust system and set aside. Assistance may be required.
8. Remove stock mounting bar and the studs in the transmission cover. Save both bolts, one will be re-used.
9. Position mounting bracket 583-P over mounting location to determine which bolts to remove (**FIGURE 1**). Remove left

- bolt below the transmission cover (**FIGURE 1, POSITION 4**). Install this bolt in the top hole left vacant by the new bracket.
10. Carefully remove the flanges and circlips from the stock exhaust system using snap ring pliers.

NOTE: Replace bent or damaged circlips. Check condition of stock exhaust gaskets. Replace if worn or damaged. (Recommended replacement exhaust port gaskets, OEM PART #65324-83B or equivalent).

11. Remove stock oxygen sensors from header, they will be re-used on new system.

PYTHON EXHAUST SYSTEM INSTALLATION

1. Position Vance and Hines mounting bracket 583-P over mounting holes #2, #3 and #4 and attach using required hardware for your model year bike. (**FIGURE 1**).

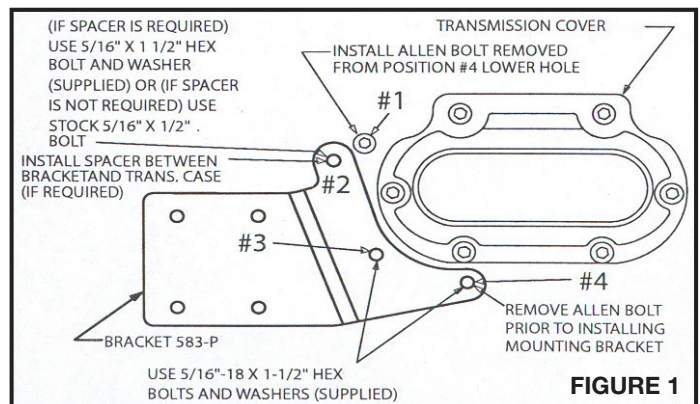


FIGURE 1



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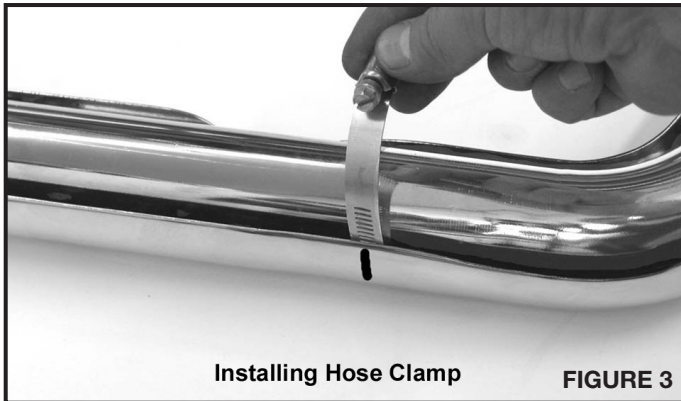
NOTE: The 11/16" spacer and longer bolt is only required if the stock mounting bracket had a boss built in position #2 (08 and later).

2. Remove headpipes and heat shields from protective packaging. Place each heat shield on a non-abrasive surface such as a blanket or carpet. Using a pencil, lightly mark outside edge of each heat shield to show location of hose clamp mounting clips.

NOTE: Pencil marks will wash off if care is taken not to harm coating.

3. Lay headpipes into heat shields and loosely install hose clamps by feeding tail end of clamp into heat shield clips (**FIGURE 3**). Take note of screw head direction (**FIGURE 4**). Screw head should be accessible when system is installed on motorcycle for adjustment purposes. Use #20 hose clamps for headpipe areas and #28 hose clamps for muffler areas.

NOTE: Do not tighten at this time.



Installing Hose Clamp

FIGURE 3

Hose Clamp heads face up on upper pipe

FIGURE 4



Hose Clamp heads face down on lower pipe

4. Install circlips and flanges from the stock system onto both new headpipes (**FIGURE 2**).
5. Apply a small amount of anti-seize compound to the threads of the oxygen sensors and install them into the new headpipes.

NOTE: Be careful not to get anti-seize on sensor tip, it may affect sensor function.

FIGURE 2



Installing Circlip

6. Using stock flange nuts, carefully install headpipes into exhaust ports, starting with the rear cylinder. Assistance may be required.

NOTE: Do not tighten at this time.

7. Slide nut plate inside bracket that is welded to backside of muffler bodies (**FIGURE 5**). While holding nutplates in place, attach muffler bodies to mounting bracket 583-P using four 5/16" x 5/8" flange-head bolts (supplied). Leave them loose at this time.

NOTE: Muffler body brackets should align with top edge of mounting bracket 583-P.



FIGURE 5

Installing Nut Plate

8. Tighten cylinder port exhaust flange nuts on front and rear cylinders while making sure pipes are parallel (**FIGURE 6**).

FIGURE 6



Align gap between mufflers

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P/N 1800-1202/1203

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9. Tighten the flange-head bracket bolts securing both mufflers to bracket 583-P.
10. Align and tighten all heat shield clamps.
11. Feed wire for front oxygen sensor through frame and into plastic cover on frame. Snap plastic cover closed to hold connector in place.
12. Put toothed edge of wiring holder into slot in frame. Re-install rectifier so that it fits under tooth of wiring holder, keeping it in place in frame. Tighten both bolts.
13. Install a new cable tie to hold wires onto frame in original location.
14. Feed connector for rear oxygen sensor through frame and into under the seat compartment. Plug sensor into stock wiring connector.
15. Re-install seat.
16. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
17. After installation and before starting your motorcycle, completely clean pipes and heat shields with warm soapy water and a clean soft cloth. Dry with a clean towel.

NOTE: Any residue, oil, or fingerprints will stain the coating. Do NOT use anything abrasive to clean the pipes as it may remove the finish.

18. Be sure to tighten all hardware before starting your motorcycle.

EXHAUST SYSTEM CARE AND HELPFUL HINTS:

1. When installing a new set of exhaust 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 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.

PLEASE NOTE: Every effort is made for Python 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.

WARNING! Before operating motorcycle, be sure all hardware is tight.

