

# INSTALLATION INSTRUCTIONS

## DRAG SPECIALTIES PYTHON STAGGERED DUALS FOR DYNA P/N 1800-1472

### 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 2012 Dyna models. Review these 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 Phillips head  
Snap ring pliers  
5/16" nut driver  
1/2"- 14mm combination wrenches  
3/8" ratchet and extensions  
1/2" socket  
7/16" and 9/16" deep sockets  
3/16" and 1/4" Allen wrenches

### PROCEDURE:

Please read all instructions before beginning installation.

### REMOVAL OF STOCK EXHAUST SYSTEM:

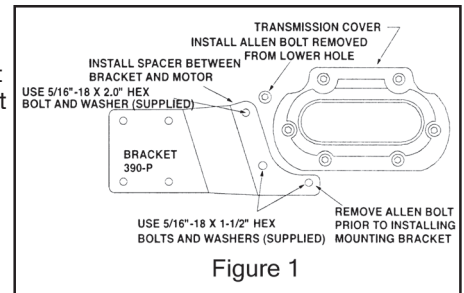
1. Remove seat to gain access to rear oxygen sensor connector. Unplug the sensor and feed the end of the wire through the frame so that it is free from the motorcycle.

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

2. Remove the two bolts holding rectifier onto the front of the frame (near the front tire). Open the plastic cover to gain access to the front oxygen sensor connector. Unplug the sensor from the harness. Remove the cable tie holding the wire to the frame and feed the end of the wire through so that it is free from the motorcycle.
3. Loosen the heat shield clamps on both the front and rear headpipes.
4. Remove the front headpipe clamp bolt.
5. Remove the bolt that attaches the rear headpipe clamp to the mounting bar.
6. Remove the two cylinder exhaust port flange nuts from each headpipe, located at the cylinder head.
7. Remove the complete exhaust system and set it aside. Assistance may be required.



8. Remove the stock mounting bar and the studs in the transmission cover.
9. Remove the left bolt below the transmission cover.
10. Position mounting bracket 390-P over the mounting location to determine which bolts to remove (**Figure 1**). Install this bolt in the top hole left vacant by the new bracket.
11. Carefully remove the flanges and circlips from the stock exhaust system using snap ring pliers.



**NOTE:** Replace bent or damaged circlips.

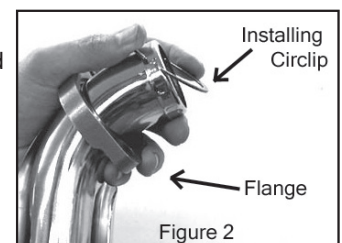
12. Remove stock exhaust gaskets and replace them with the supplied exhaust gaskets.

**NOTE:** For replacement gaskets use Drag Specialties PART #DS-173220 or equivalent.

13. Remove the stock oxygen sensors using the 14mm wrench; set them aside as they will be reused on the new system.

### INSTALLATION OF PYTHON STAGGERED DUALS

1. Locate the 5/16" x 2.0" hex bolt (supplied) and insert this bolt with a 5/16" washer (supplied) into the top hole in mounting bracket 390-P before the bracket is attached to the transmission. Insert the 11/16" spacer between the bracket and transmission on the 5/16" x 2.0" hex bolt. The two remaining 5/16" x 1.5" hex bolts and 5/16" flat washer combinations (supplied) attach the bracket to the transmission (**Figure 1**).
2. Remove the headpipes from their protective packaging and install circlips and flanges from the stock system onto both of the new headpipes (**Figure 2**).



**DRAG**  
Specialties

3501 Kennedy Rd, PO Box 5222, Janesville, WI 53547-5222  
P/N 1800-1472

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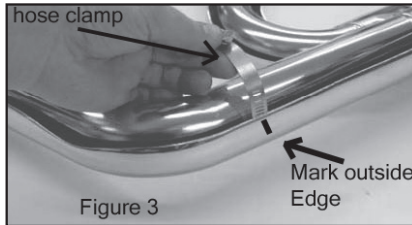
### INSTALLATION OF PYTHON STAGGERED DUALS (CONT)

3. Apply a small amount of anti-seize compound to the threads of the O<sub>2</sub> sensors and install them into the new headpipes.

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

4. Remove the heat shields from their protective packaging. Place each heat shield on a non-abrasive surface such as a blanket or carpet.

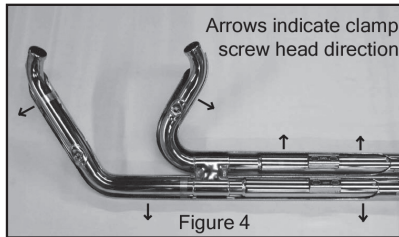
Using a felt pen, lightly mark the outside edge of each heat shield to show the location of hose clamp mounting clips (**Figure 3**).



5. Lay the header into the heat shields tail end first.

6. Loosely install the hose clamps by feeding the tail end of the clamp into the heat shield clips (**Figure 3**). Use the #20 hose clamps for the headpipe areas and #28 hose clamps for the muffler areas. Take note of the screw head direction (**Figure 4**).

7. The screw head should be accessible when the system is installed on the motorcycle for adjustment purposes.

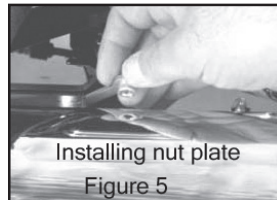


**NOTE:** Do not tighten at this time.

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

**NOTE:** Do not tighten at this time.

9. Slide the nut plates inside the brackets that are welded to the backside of each muffler body (**Figure 5**). While holding the nut plates in place, attach the muffler bodies to mounting bracket 390-P using four 5/16" x 5/8" flange head bolts (supplied). Leave them loose at this time.



**NOTE:** The muffler body brackets should align with the edges of mounting bracket 390-P.

10. Tighten the exhaust port flange nuts.  
11. Tighten flange bolts securing the muffler bodies to mounting bracket 390-P.  
12. Adjust the heat shields to get the best alignment and tighten all the hose clamps.  
13. Feed the wire for the front O<sub>2</sub> sensor (Gray) through the frame and into the plastic holder on the frame. Plug the sensor into the stock wiring connector. Snap plastic holder closed to hold the connector in place.

14. Put the toothed edge of the wiring holder into the slot in the frame. Reinstall rectifier so that it fits under the tooth of the wiring holder, keeping it in place in the frame. Tighten both bolts.

15. Feed the connector for the rear O<sub>2</sub> sensor (black) through the frame and into the under seat compartment. Plug the sensor into the stock wiring connector.

16. Reinstall the seat.

17. Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.

18. After installation and before starting the motorcycle, completely clean the pipes and mufflers with warm, soapy water and a clean, soft cloth that will not leave a residue.

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

#### HANDY HINTS:

- When installing a new set of chrome pipes, make sure your hands are clean and free of oil. After installation, thoroughly clean the pipes with warm, soapy water and a soft cloth. Dry with a clean towel to remove any residue (chrome wax/polish, glass cleaner, alcohol, ammonia, etc.) before starting the motorcycle.
- Avoid long periods of idling as this can cause discoloration.
- Make sure there are no exhaust leaks at the junction of the exhaust pipes and cylinder head. We recommend replacing the gaskets if they are worn.

#### QUIET BAFFLE:

Quiet baffle PART #V21869 is available for this system. The quiet baffle will lower the sound level by two to three decibels on average. Contact your dealer to order.

#### 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 the motorcycle, be sure all hardware is tight.

