

# INSTALLATION INSTRUCTIONS

## DRAG SPECIALTIES PYTHON THROWBACK EXHAUST FOR SOFTAIL P/N 1800-1314

**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 Throwback exhaust system on 86-11 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:

Gloves & safety glasses recommended  
Flat blade screwdriver  
Snap ring pliers  
5/16" Nut driver  
3/8" Ratchet & extensions  
1/2" & 9/16" Sockets  
1/2", 9/16" & 7/8" or 22mm Combination wrenches  
3/16" & 5/16" Allen wrenches  
T45 & T50 Torx wrenches

### PROCEDURE:

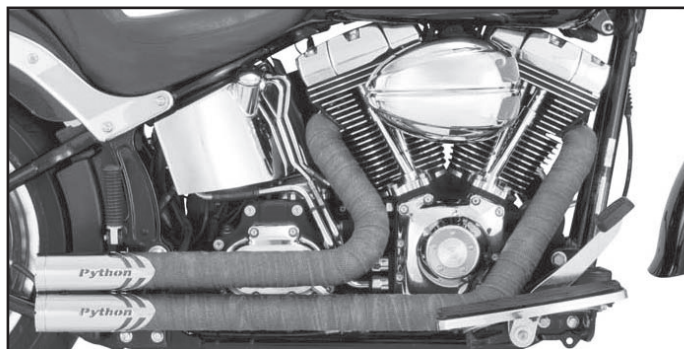
**NOTE:** These instructions are written for late-model motorcycles equipped with O<sub>2</sub> sensors. If you are installing these pipes on a bike which is not equipped with O<sub>2</sub> sensors, ignore all instructions which reference them. Additionally you will need to purchase an O<sub>2</sub> sensor block-off kit PART #1861-0464.

### STOCK EXHAUST SYSTEM REMOVAL

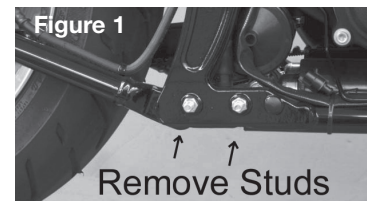
1. Under the oil tank on the right-hand side, locate the rear O<sub>2</sub> sensor connector. Unplug sensor and feed the end of the wire through the frame freeing it from the motorcycle.

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

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



3. On FLSTC, FLSTF, FLSTN and FLSTSC models, loosen the right-hand floor board mounting bolts to gain clearance for exhaust removal and installation. On FLSTF and FXS models; remove the right side footpeg to gain access to the 3rd OE muffler bracket bolt. Replace the OE footpeg bolt with the supplied A101HW bolt.
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. If equipped, unbolt the carriage bolt and clamp attached to the bracket under the right-side transmission cover.
7. Remove the nuts attaching the exhaust mount bracket to the frame.
8. Remove the entire exhaust system and set it aside.
9. If equipped, remove the bracket from under the right-side transmission cover.
10. Using a 7/8" or 22mm wrench, carefully remove the O<sub>2</sub> sensors from the stock headpipes and save for re-use with the new system.
11. Remove the two lower mounting studs from the frame (Figure 1).
12. Carefully remove exhaust port flanges and circlips from the stock exhaust system using snap ring pliers.



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

### SYSTEM INSTALLATION

1. Remove header assemblies from their protective packaging. Place each of the head assemblies on a non-abrasive surface such as a blanket or carpet.
2. Apply a small amount of anti-seize compound to the threads of the O<sub>2</sub> sensors and install them into the headpipes.

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

3. Install exhaust port flanges and circlips (from stock system) onto headpipes (Figure 2).

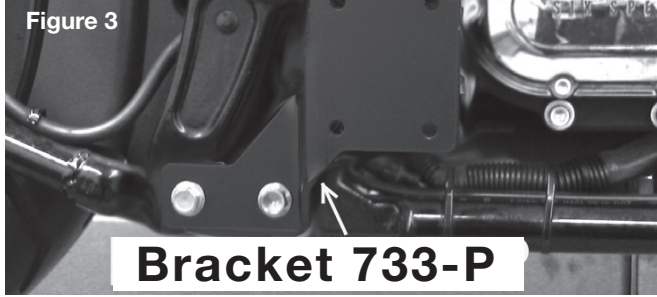


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4. Attach mounting bracket 733-P to the frame using the supplied  $\frac{3}{8}$ " x  $\frac{3}{4}$ " flanged bolts. Leave them loose at this time (Figure 3).

Figure 3



**Bracket 733-P**

**NOTE:** Install rear header P132HC end cap as far forward as possible and tighten. Rear header end cap adjustment screws are not accessible once system is installed on the bike.

5. Install the Front Header assembly into the front exhaust port first. Use stock flange nuts, do not tighten at this time. Using the (supplied)  $\frac{5}{16}$ " x  $\frac{5}{8}$ " flange bolts and nut plate, bolt the header to the muffler bracket. Leave them loose at this time.
6. Install the Rear Header assembly into exhaust port. Use stock flange nut, do not tighten at this time. Using the (supplied)  $\frac{5}{16}$ " x  $\frac{5}{8}$ " flange bolts and nut plate, bolt the header to the muffler bracket. Leave them loose at this time.
7. Tighten exhaust port flange nuts, bracket bolts and bolts mounting pipes to bracket while making sure pipes are parallel.
8. Feed wire for the front O<sub>2</sub> sensor through the frame and into plastic holder on the frame. Plug the sensor into the stock wiring connector in place.
9. Install a new nylon cable tie (supplied) to hold the wires onto the frame in the original location.
10. Feed connector for the rear O<sub>2</sub> sensor through the frame under the oil tank on the right-hand side. Plug the sensor into the stock wiring connector.

11. On FLSTC, FLSTF, FLSTN and FLSTSC models, carefully remove floor board stock mounting bolts and space the floor board assembly away from the frame using two (2)  $\frac{3}{8}$  x 1 x  $\frac{3}{16}$  washers between the frame and floor board assembly on each bolt, replace stock mounting bolt with  $\frac{3}{8}$ -16" x  $\frac{11}{14}$ " flange head bolts (supplied), tighten bolts to secure floor board.
12. Check for adequate clearance of all exhaust system components and motorcycle accessories prone to heat damage.
13. Be sure to tighten all hardware before starting your motorcycle.

**NOTE:** The P132HC end caps can be adjusted to ensure that the end cap alignment is parallel. The two button-head screws retaining each end cap to each of the muffler bodies can be loosened with  $\frac{5}{32}$ " Allen wrench, and the caps can slide forward and back as needed for alignment.

### QUIET BAFFLE

Quiet baffle PART #1861-0072 is available for this system. The quiet baffle will lower the sound level by 2-3db on average. Contact your local dealer to order.

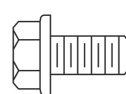
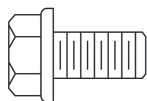
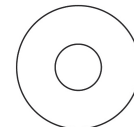
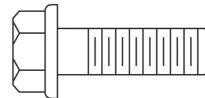
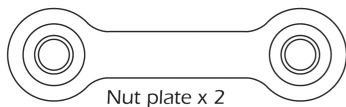
**WARNING!:** The initial startup will need adequate ventilation. It's normal for the heat wrap to smoke during the first few heat cycles.

**WARNING!:** AVOID SKIN CONTACT WITH FIBERGLASS. MAY CAUSE TEMPORARY IRRITATION - PROTECTIVE EYEWEAR & GLOVES RECOMMENDED - AVOID INHALATION (OF LOOSE FIBERS).

**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.

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

### HARDWARE LISTING



#### PARTS NOT SHOWN:

733-P Bracket	x1
P330FC Front head pipe	x1
P331FC Rear head pipe	x1
P132HC Heat Shield	x2
A101HW Bolt	x1

#### REPLACEMENT PARTS:

1861-0622 Header Wrap Kit

