



## FAT BOY 4 COMPLETE EXHAUST SYSTEM

MODEL: 2008-09 Yamaha Raptor 250

1. Remove stock exhaust system; Retain stock head nuts.
2. Before starting your Fat Boy 4 installation. You must make sure that the cylinder head exhaust gasket is intact and in good condition (usually they stay in the cylinder head). Under normal conditions it is OK to reuse them. If they are missing or in need of replacement they may be purchased from your Yamaha Dealer Part # 3GD-14613-00-00. **DO NOT RUN MACHINE WITHOUT EXHAUST GASKETS.** It also a good idea to make sure that the exhaust studs mounted in cylinder head are in good shape. If there is any doubt of their condition. Replace with new OEM studs part # 90116-08023-00
3. Install Fat Boy 4 header pipe using stock oem head nuts. Do not tighten header at this time. Leave nuts a few turns loose.
4. You are now ready to install the Fat Boy 4 muffler/tail section. The tail section is secured to the Fat Boy 4 muffler at the factory before shipping. *If these (4) 6mm stainless button head allen screws are ever loosened or removed they must be reinstalled with some form of medium strength thread lock (recommended Loctite 242 Blue).*  
Before sliding tail section onto header it is recommended to apply a thin coat of hi-temp silicone to the inside of the tail section (female side) approximately covering about ½" of the initial part of the tail pipe. This will keep exhaust from leaking at the slip-fit joint and make removing pipe in future easier.
5. Install the muffler mount bolt going into sub-frame and tighten securely (factory torque 25 ft lbs).
6. Tighten header pipe (factory torque 13 ft lbs). Make sure to tighten header nuts evenly in a criss-cross pattern.
7. **AIR INDUCTION:** For maximum performance DRI recommends installing a Pro Flow Air Cleaner kit (billet flange, K&N or Foam air filter, Outerwear) with air box lid removed. *\*Is is recommended to remove the stock back fire screen built in to the stock air boot system on air box. This will help enhance air flow, improving performance slightly.*
8. Carburetor jetting must be changed, see below for additional recommendations
9. Additional Performance and Jetting Recommendations;



Jetting Recommendations:

The following guidelines are for Raptor 250's with the following type set-ups.

Sea Level                      Temperature between 60° and 90°

Fat Boy 4 Complete Exhaust System

Stock Engine

Pro Flow Kit with Foam Air Filter    Air Box Lid Removed.

Pilot: # 27.5

Needle stock

Main Jet: #155

\*DRI has included at no charge the necessary jets for the above jetting changes with an extra main jet each way.

The above specs should be an excellent starting point for most installations. Jetting should be checked after install.

Be careful not to run machine too lean-engine damage may result. Too rich power will be lost.

Jetting Notes:

Colder temperature requires richer settings.

Higher elevations cause engine to be low on compression and generally require leaner settings.

Air box lid on requires leaner settings than with lid off.

For more information contact:

Duncan Racing International, Inc.  
10734 Kenney Street Suite A  
Santee, CA 92071  
USA  
(619) 258-6306

Check our Website for additional Raptor 250 Performance items.

[www.duncanracing.com](http://www.duncanracing.com)