



## FAT BOY 4 COMPLETE EXHAUST SYSTEM

MODEL: Yamaha Raptor 350 '04-07

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.
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 (3) 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.
6. Tighten header pipe. 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 Filter, Outerwear) with air box lid removed.
8. Carburetor jetting must be changed, see below for additional recommendations
9. Optional Parts: Bolt-On Turndown and Bolt in Spark Arrestor are also available. Call DRI or see website-Fat Boy 4 section for details.
10. Additional Performance and Jetting Recommendations;

*For the best performance using your NEW Fat Boy 4 it is recommended to use a Pro Flow Air Cleaner Flange system with either a K&N or Uni air filter. The kits are made*



*by Pro Design and are sold through Duncan Racing. The K&N filter makes the best power and it is recommended to run air box with the lid removed.*

Jetting Recommendations:

The following jetting guidelines are a Raptor 350 with the following type set-ups.

Sea Level                      Temperature between 60° and 90°

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Stock Engine

Pro Flow Air Cleaner Kit with K&N Air Filter.      Air Box Lid Removed.

Stock Carburetor Settings:

Pilot #25

Needle stock #2 Clip (In Temperatures below 50° try #3 clip)

Main Jet: #155 to #160

\*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 best results when adjusting jetting on your machine, it is recommended that valves are properly set, spark plug is fresh, and air filter is serviced properly.

For more information contact:

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Check our Website for additional Raptor 350 Performance items.

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