



Aluminum *Velocity Intake*[™]

VelI-660
Yamaha Raptor 660
all model years

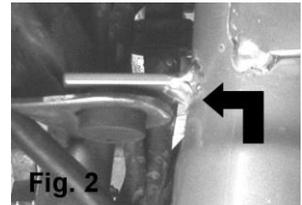
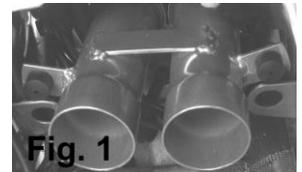
Warning: This intake is intended for performance in DRY RIDING CONDITIONS only!!!

Installation

This *Velocity Intake* is designed to work with the stock or aftermarket Raptor 660r carburetors and completely replaces the stock airbox and intake snorkel. Begin by removing airbox, unplug carb slide vent hoses and 90 degree nipples from the top of the stock intake snorkel. For stock carbs it may be necessary to drill a 3/8 in. hole at the top/middle of the black silicon couplers, use this hole to attach vent hoses and 90 degree nipples. If necessary this will provide a vacuum signal to the carb slide's the same as in stock airbox form.

Note: During installation it is easier to mount the intake one section at a time: silicon couplers / intake / filter.

- 1) Mount the rubber intake boots to the back of the carbs, making sure they are slid on all the way before tightening hose clamps.
- 2) Place the second hose clamps loosely onto the rubber boots. The intake will slide into the rubber boots at an upward angle. See Fig. 1
- 3) Slide the intake tubes into the rubber boots so that the two rubber mounts will clear the mounting tabs on the frame.
- 4) Pull the intake back about 1/4 inch, or so the rubber mounts are just over half way into the mounting tabs on both sides. See Arrow Fig. 2
- 5) Now tighten the second hose clamps around the boot and intake, visually inspect and re-tighten the boot to carb mount at this time.
- 6) Last, you are ready to mount the air filter and pre-filter, make sure to slide filter completely onto the intake before tightening.



Main Jet Recommendations

Carburetor adjustments are absolutely necessary to realize the power potential of your new *Velocity Intake*. The following are recommendations assume you are already using a performance exhaust system, with stage-2 jetting installed. Mikuni jets for a 660r can be purchased at your local bike/atv parts shop for around \$6, and assume use near sea level (below 3000ft). Attempt initial tuning with no needle adjustment.

Note: Tuning is a science requiring patience and experience. While these recommendations should get your performance in the ball park they are just suggestions and may need some tweaking to fit your application.

Dynojet jet kit using Dynojet main jets:
148 Left main jet
150 Right main jet

GYTR and other using Mikuni main jets:
165 Left main jet
170 Right main jet

1/2 turn out on the Left Fuel Mixture Screw may be necessary. Refer to Yamaha service manual or jet kit instructions for proper fuel mixture screw adjustment.

Replacement Filter

K&N Filter: RU- 4710

Outerwears Pre-Filter: 20-1072-01