

# 2001-2005 Yamaha Raptor 660R

## Exhaust Installation

- ❑ Remove the stock exhaust system
- ❑ Install the Sparks head pipe.
- ❑ The head pipe should be centered between the engine cases and frame.
- ❑ Tighten the exhaust stud nuts up to 11 ft/lbs
- ❑ Slide the rear section onto the head pipe
- ❑ Replace the stock bolts into the rear section and tighten
- ❑ If there are any clearance issues, simply loosen the exhaust stud nuts slightly and rotate the head pipe until everything clears properly.

## Jetting recommendations

- ❑ We recommend the use of the Dynojet jet kit.
- ❑ We do recommend the addition of 27.5 Mikuni pilots in both carburetors.
- ❑ These recommendations are with the Sparks Exhaust, the Air box lid off, at sea level only. If you're using this kit to tune for another manufacturer's performance products, please contact that manufacturer for additional jetting recommendations.

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	Main jet	Needle jet / clip position	Pilot (slow jet)	Fuel screw (from closed)
<b>Raptor 660</b>	DJ 148/150	Dynojet / 4th	27.5	2 +/- .5

## Air filter installation & maintenance

- ❑ Remove all of the stock air filter and its components.
- ❑ Thoroughly clean the air box and air boot. Dirt is your motors number 1 enemy.
- ❑ Follow the installation instructions from Pro Design.
- ❑ Oil your clean air filter with a good pour on type oil, we recommend Twin Air filter oil.
- ❑ Pour a liberal amount of oil all over foam and massage the oil into filter and squeeze out any extra oil.
- ❑ Install the filter, tighten the clamp, and you are ready to go.
- ❑ It is important to clean and oil the filter whenever it gets dirty.
- ❑ To clean it, we recommend using filter cleaner like Twin Air. Other options would be kerosene or mineral spirits and then a good degreaser like Simple Green, 409, even a good dishwashing soap.
- ❑ The goal is to get all of the old oil and dirt out of the filter. Rinse well and dry before re-applying the oil.
- ❑ DO NOT use gasoline to clean your filter. It can significantly shorten the life of the foam and loosen the glue.

## Exhaust muffler maintenance

- ❑ Be sure to re-pack muffler every 25-30 hours for optimal performance and noise control.
- ❑ **Warning:** running this exhaust with very little or no packing can damage your muffler and void any warranty!