

NX76 Engine Set-up and Tuning Instructions

The NX76 is one of the most powerful model engines on the market today. Please take your time and follow these instructions carefully. Following these instructions will greatly increase performance in reliability.

Engine Break-in Procedures

The NX76 engine comes pre-set from the factory for the break-in process. You may need to adjust the idle screw slightly to keep it idling smoothly during this process.

Start breaking in your engine by idling a minimum of 7 tanks of fuel through the engine. It's important to allow the engine to cool down completely between each tank.

After you have idled 7 tanks you can now start to drive the truck around easily. Slowly start to lean the engine out. Lean the main needle adjustment $1/4^{\text{th}}$ of a turn each tank for 2-3 tanks. Drive around in a circle smoothly rolling the throttle on and off. Try to avoid revving the engine up too high. Do this for 2-3 tanks of fuel. Let the engine cool down completely between each tank.

At this time your engine is broken-in and ready for final tuning. These settings will vary depending on the location of where your running the truck at, and which type and brand of fuel your using. Engine temp should remain around 240-250F. Make sure you take the temp at the glow plug. The top of the head will be much cooler and not give an accurate temp reading for the engine. Here are settings that we end up using after the engines completely broken-in with 20% nitro fuel. Your settings may be different but these should be close.

Main Needle, $3\frac{1}{2}$ turns out

Bottom Needle, $2\frac{1}{2}$ turns in from flush.

Idle Screw, Adjust to keep engine idling smoothly.

Helpful Tips

Here are tips to help you tune your engine. Use these tips as a reference to help you fine-tune your engine. When making adjustments to the carburetor use small $1/8^{\text{th}}$ turns at a time. Remember that the leaner you run the engine, the more power it will produce up to a certain point; then it will overheat and cause permanent damage to the internal parts of the engine. The overall life of the engine will also vary depending on how hot and hard you run it. If performance is what your looking for then you can decide to run the engine towards the higher end of the temp scale. To increase the overall life of the engine run it on the lower side of the temp scale.

*** When the engine is new the pull starter may be hard to pull. To make it easier to pull, loosen the glow plug slightly and start the engine. Once the engine has started re-tighten the glow plug. Once the engine is broken-in you will not longer need to do this.**

<i>Description</i>	<i>Problem</i>	<i>Solution</i>
Engine Stalls	Idle set too low	Turn the idle screw to the right.
	Bad glow plug	Replace glow plug
Engine losses power	Engine over heating	Richen the main needle
Can't start engine	Old fuel left in tank	Pour out and replace fuel
	Glow Heater not charged	Charge glow heater overnight
	Idle set too low	Hold $1/4$ throttle and start engine. Adjust idle screw.
Irregular Idling	Bottom mixture too lean	Richen up the bottom end $1/4^{\text{th}}$ of a turn.