Redcat Getting Started

WARNING – THIS IS NOT A TOY. THIS VEHICLE RUNS ON FLAMABLE NITRO FUEL AND SHOULD NEVER BE OPERATED WITHOUT ADULT SUPERVISION. PRECAUTIONS SHOULD BE TAKEN PRIOR TO RUNNING A FIRE EXTINGUISHER SHOULD BE NEAR BY AND PROPER EXPERIENCE FOR OPERATION IS A MUST.

Congratulations on your purchase of a Redcat Racing R/C Vehicle. This guide will help ensure you have as much fun as possible with your new car or truck, with as little hassle as possible. Please read through this guide thoroughly before attempting to run your new vehicle. It is very important you follow all of these steps, especially the section on breaking in your motor. DO NOT ATTEMPT TO RUN YOUR VEHICLE WITHOUT FIRST BREAKING IN THE MOTOR!

Things you will need before beginning:
- Transmitter (Included with RTR Vehicles)
- 4-AA Alkaline Batteries for Vehicle*
- 8-AA Alkaline Batteries for Transmitter**
- Glow Plug Igniter
- Fuel Bottle
- Nitro Fuel
- 4-Way Wrench
- Mini Screwdriver Set
- Air Filter Oil
- After Run Oil
- Blue Loctite
- Scissors
- Needle Nose Cutter

*Rechargeable batteries can be used in place of the standard alkaline. Using rechargeable batteries will save you a lot of money in the long run and they are recommended.

**On some Redcat transmitters, there is a recharge jack and you can recharge your transmitter batteries directly if you purchase the correct AC adapter.

Important Items For Running Your Model

Tools Needed To Maintain Your Model

Section 1: Preparing the Vehicle

Step 1: The first thing you should do is unpack the box. Get everything together and out of the bag. You will want to get batteries for everything. You will need 12 AA batteries, 8 for the radio and 4 for the vehicle.

If you purchased our Quick Start Kit, you will want to get the glow igniter out and start charging it. You should charge the glow plug igniter for a minimum of 8 hours before use. Install the batteries into the radio. Install the batteries into the Vehicle. While doing this you will also want to install the antenna mast. Feed the antenna wiring through the antenna tube and secure the tube into place before replacing the receiver box cover. When installing the batteries into the vehicle, it is helpful to tape them in place, or use a rubber band to hold them in place. If one should come loose while you are driving the vehicle, you could lose control!

Step 2: Next you will want to set your gear mesh. This is the play between the clutch bell on the motor and the spur gear. To set this you loosen the 4 motor mount screws ( pictured in step 3 ) and slide the motor into the desired position. You want this to be as tight as possible, while still having a little bit of play between the two gears. Experienced R/C drivers can set this by feel, but if you are just starting you can use a trick to get it “just right.” Take a small piece of paper, and cut it into a ½ inch wide by 6 in long strip. With the engine mount screws loose, take this piece of paper and slide it between the spur gear and the clutch bell as shown below.

Push the engine into the clutch bell so that it tight against it and tighten the engine mount screws. When finished, pull the strip of paper out. To make sure your mesh is set properly, keep your finger on the spur gear and wiggle the clutch bell, there should be a little bit of play. If you roll the car on the ground, it should roll freely. If this is not the case, repeat the above steps.

Insert a ½ inch piece of paper between clutchbell and spur gear.

Push motor until two gears sit tightly together. Tighten the engine screws by following step 3 below with blue Loctite.

Remove the paper carefully and you should have very little play between the gears.

Note: The clearance between the clutch bell and the spur gear must be approx. 0.1mm

If the clearance is more than 0.2mm, normal performance of your spur gear may be affected.

Step 3: You should now inspect your vehicle and Loctite all screws that screw into metal. Nitro engines create a lot of vibrations, and any screws going into metal WILL vibrate loose! You can purchase Loctite from any hobby store, automotive store, or even any of the major chain discount stores. You want to use blue Loctite. It is colored based on strength, blue is not that strong, so you will be able to get screws out if need be. Do not use red Loctite! You want to pay extra attention to any of the screws related to the drive-train, such as the motor mount screws. These screws go through the most stress and WILL vibrate loose without Loctite. While you have your motor mount screws out loose, you will want to set the gear mesh. This is described in step 2 above.

4 engine screws. Use blue colored Loctite.

Please note that the bottom screw placement on your vehicle may be slightly different than pictured.

Bottom view of vehicle engine screws.
Locate the grub screws (also known as set screws)
These are located on the center drive shaft on all
Redcat vehicles.
Locate the center drive shafts and you will see a
small screw. You should remove those screws
and use blue loctite.

Not doing this can cause loss of the screw and the
vehicle will not run as these grub screws keep the
drive shafts in place.

Step 4: Some Redcat Racing vehicles are shipped with wheels that are not yet installed. You should install all
four wheels using the supplied wheel wrench. Tighten the wheels by hand. Do not use a torque wrench or
powered tool of any kind. For vehicles where the wheels are installed, make sure the wheel nuts are firmly
tightened by hand.

Step 5: For the final step in this section, you will need to oil your foam air filter. Remove the air filter housing
from the engine. Take the foam air filter out of the housing. There are several methods to oil an air filter, but
this one is easiest, and the least messy: Take a small plastic bag and spray or add a few drops to the bag. Drop
the filter in the bag and rub it around inside the oil. The air filter should be fairly oily but not to where the oil
is concentrated in one spot. If it gets too oily, you can dab it with a paper towel. If you are unsure of how much
oil to use, it is best to have enough oil on the foam air filter to where, by squeezing it with your hand, the oil will
not drip. You can purchase air filter oil at most hobby shops. YOU DO NOT WANT TO RUN THE VEHICLE
WITHOUT THE FOAM AIR FILTER OILED as this can cause dirt to enter the
carburetor which can cause engine failure.

Some Redcat Racing vehicles use different types of air filters.
You can see them below for instructions which will be specific to your model.

The foam in this image needs to be removed
which is easily done by hand. Simply remove both
pieces of foam and oil the filters and then insert
the filters back into the plastic housing.

Pictured to the right is Redcat's other air filter.
Remove the plastic cover picture here.

Plastic cover installed

Plastic cover removed

Step 3: Perform a range test. With the engine off, power up the radio and vehicle. Have a friend hold the
vehicle and walk as far away as you plan on driving the vehicle. Test the steering and throttle, to make sure
both are responsive at this distance. It is important that you are using alkaline fully charged new batteries.
If you find that your controls are not functioning properly while standing next to the vehicle or within a
few feet, you should check all connections leading to the receiver box pictured below along with making
sure your batteries are firmly seated in the remote control and the vehicle. It is a very good idea, if using
standard double A batteries to either tape the batteries together or use a rubber band for the vehicle battery.
It is very easy for the batteries to pop loose or lose connection while driving which could cause loss of
control to the vehicle and cause damage.
IMPORTANT: There are multiple radio frequencies that are used on RC vehicles. Make 100% sure that before you switch on your radio, that there are no other RC vehicles being operated in the area. By switching on your radio while another vehicle is being operated on the same frequency can cause damage to that vehicle or injury to others in the area. When 2 radios are being operated on the same frequency and within range, the vehicle will not know which radio is controlling it and usually causes the vehicle to run out of control.

NOTE: Always turn the remote control power on before the vehicle.

The radio receiver is located in the receiver box on the car. There are usually 3 outlets that connections are plugged into. These are labeled as Channel 1, Channel 2 and Battery. Make sure all are seated correctly and firmly in place.

The receiver also houses a crystal. The crystal frequency will match to the crystal in your remote. You can always change these with another frequency if you have another car on the same one.

Precaution: If your vehicle glitches (a sporadic movement of the vehicle without any use of the remote control) you should first make sure that nobody else is on the same frequency as you. If no others were on the same frequency, you should take the vehicle to a clear area or field where there are no electrical power lines. Power lines, cell towers and other things can cause interference with your vehicle and you should always test your vehicle prior to running to make sure these things don’t exist.

Section 3: Getting to Know Your Engine

Before you fire up your vehicle and break in your motor, you should familiarize yourself with it.

Understanding your motor and how it works, will make it much easier to tune, maintain, and keep it running at maximum efficiency for a long time.

Pictured below is a typical nitro racing engine. Your engine may be smaller or slightly different, but they all work in basically the same way.

Cylinder Head - This sits on top of the case, and helps to dissipate heat.

Case - Houses all the internal components of the engine.

Crankshaft - The crankshaft is connected to the connecting rod and piston, and connects to the up and down movement of the piston. The flywheel and clutch bell sit on the crankshaft and all of them spinning together is what turns the gears of the transmission.

Piston - The piston is precisely fitted with the sleeve of the motor to create compression needed for the fuel to combust. It moves up and down inside the sleeve, turning the crankshaft.

Connecting Rod - This is what connects the piston to the crankshaft.

Glow Plug - This is what is used to start the combustion process in your motor. It sits on top of the combustion chamber in the middle of the Head. An element inside of it glows red hot when a current is put through it, which sparks the fuel. This element is powered by your glow igniter. If this element burns out, the engine will not start. This will be the most replaced part on your vehicle.

Carburetor - The carburetor is what controls the speed of your motor. It takes air and fuel into the engine. The carburetor’s main job is to control the mixture of air and fuel as it enters the engine. You control this mixture through the needle adjustments on the carburetor. The optimal air and fuel ratio rarely changes, however, changes in Temperature, Altitude, and Humidity can affect this mixture. For example, when it is cold outside there are more air molecules per square inch than if you are at warmer temperature. To correct this you would need to adjust your mixture so that it allows more fuel to counter the increase in air molecules. In order to do this you would richen your needle. Some people call this "Fattening." If

High Speed Needle (HSN) - The High Speed Needle is used to control the mixture of fuel and air when the carburetor is open from partial throttle to Full throttle.

Low Speed Needle (LSN) - The Low Speed Needle is used to control the mixture of fuel and air when the carburetor is at idle to partial throttle.

Idle Screw - The idle screw controls how much fuel and air the carburetor lets into the engine while you are in neutral. You want to set this as low as possible while still allowing the engine to idle for a good amount of time.

Air Filter Housing - This houses the air filter and funnels air into the carburetor.

Air Filter - This protects your engine from dust and harmful debris. It should be cleaned and oiled, or replaced often. Any dirt or fine dust entering the engine can cause performance loss or irreparable damage. The air filter can look clean to the eye, but still contain harmful microscopic dust that can harm the engine. Err on the side cautioning when deciding when to change your air filter. It can be oiled using air filter oil from a hobby shop. Air filter oil is often used for off-road motorcycles and ATVs will also work, and can be purchased from most Motorcycle and ATV stores.
Adjusting your Needles

To adjust your needles you will need to know a few terms. If you want to lean your motor (lean = less fuel reaching the motor), you will need to adjust the needles clockwise. To richen it (more fuel reaching the motor) or fasten your motor you will want to turn the needles counter clockwise. Adjustments to your needles should be made in very fine increments. I would suggest thinking of your needle as a clock. There are 12 hours on your clock. For example if you want to lean your top end needle one hour, you would turn the screw in, or clockwise, one twelfth of a turn. You should make adjustments in one hour increments and NO MORE!

Getting a nice long flat head screwdriver can go along way in making turning your engine easier.

Section 4: Breaking in your Engine

The break in process is fairly time consuming, but please make sure to follow all the steps carefully. Out of the box, the piston sits inside the sleeve very tightly. You need to break this in so that the piston and sleeve fit together perfectly. The only way to do this is to get the engine up to operating temperature, and allowing it to cool back down. These nitro motors run on compression, which requires a very precise fit between the piston and sleeve. The whole point of the break in process is to allow your piston and sleeve to seat together, reaching running temperature, with lots of lubrication, then allowing it to cool back down to room temperature. The piston and sleeve fit together best at around 200 degrees to 215 degrees Fahrenheit. It is not necessary but highly recommended to use a temperature gun during the break in process, but if you have one, by all means use it. You can use the “spit method” if you don’t have a temperature gauge. To do the spit method you take a drop of spit or water and place it on top of the cooling head. The spit/water should evaporate within 3-5 seconds. It should not pop orizzle. If it does, then your engine is running too hot. If it takes longer than 3-5 seconds, your engine is running to cold. You do not have to complete the break in process all in one session, but you must complete each individual step. Before you start, it is a good idea to take the glow plug out and pull the starter easily until the piston reaches the bottom of the stroke (place where piston is before it starts to return to the top of the stroke and make a mark on the flywheel so you know where bottom dead center (BDC) is because when you put the glow plug back into the engine you need a reference point. You will need something to place green on during the break-in process that allows the wheels to be off of the ground. You can use pretty much anything such as a cement block, toolbox or whatever you have around the garage.

Step 1: Get your fuel and glow igniter ready. We recommend using 20% nitro fuel. This can be purchased at any of the major hobby shops. Any brand will work, although I would suggest using one with a higher oil content if you want your engine to last the longest it possibly can. You will need to use a fuel bottle to fill the tank of your vehicle. Squeeze all of the air out of your fuel bottle and stick it in your gallon or quart of fuel. Release the fuel bottle and it will create a vacuum effect filling your fuel bottle. Now fill the tank of your vehicle. Your glow igniter should have been charging for at least 8-10 hours. To stop your engine, you should pinch the fuel line leading the carburetor until the engine is off.

Step 2: You must prime the fuel lines to get fuel into the carburetor. There are a number of different ways to do this, but the easiest way is as follows. Hold your finger on the exhaust pipe opening and pull the pull pull starter until you see fuel traveling through the fuel line. Stop when the fuel gets to the carburetor. Remove the air filter and put 2 drops of fuel in the carburetor to prime the engine.

Step 3: Turn on your radio and turn the switch to the vehicle to the on position. Re-Check the controls to make sure there is no interference. Put your glow plug igniter on the glow plug and pull the starter using a short quick motion. Do not force or pull the pull cord all the way out as this can damage the engine and pull start mechanism.

The engine should start in a few pulls. If engine feels very hard to pull it may be hydro locked. This is when there is too much fuel in the engine meaning the engine is flooded. To fix this, take the glow plug out with a cross wrench, turn the car upside down and pull the starter a few times to get the excess fuel out of the engine. Put the glow plug back in, put the igniter back on the plug and try to start again. Once the engine fires up, you may need to adjust your idle screw. You do not want the Idle to be spinning at this point, if they are, turn the idle down.

WARNING: DO NOT HAVE THE WHEELS TOUCHING THE GROUND. SOMETIMES THE CAR COULD BE SET INCORRECTLY AND CAUSE THE CAR TO MOVE ON ITS OWN WHEN FIRST STARTED.
Step 4: Now that your engine is idling, you want to let it do so for an entire fuel tank. Make sure your tank is completely out of gas, because it causes the engine to run lean for a split second when it runs out of fuel. At this early stage of your engine's life, it is best not to do this. You may need to adjust the idle slightly so the car stays running. The engine should be revving smoothly and wheels should NOT be spinning. If wheels are spinning you must adjust the idle to the point that the wheels do not spin. It is normal for fuel to drip from the exhaust during break-in. When the tank is almost empty, allow the engine to go by pinch the fuel line. Move the flywheel so that the piston is at Bottom Dead Center (BDC). Allow the engine to cool for at least 15 minutes before moving to step 5.

**WARNING: THE ENGINE, EXHAUST AND OTHER PARTS OF THE VEHICLE ARE HOT AFTER RUNNING, DO NOT TOUCH ANY OF THESE COMPONENTS IMMEDIATELY AFTER RUNNING. COOL THEM TO COOL DOWN FIRST.**

Step 5: For this step, you will actually be driving the vehicle. Fill the tank with fuel. Start up the engine and drive it in figure eight patterns. Do not use more than 1/4 throttle during this step. Continue driving the car in a figure eight until the fuel runs out. You want to make sure the engine still sounds like it is running very rich. It will have a “sputtering” sound to it, and it should be blowing lots of thick smoke out of the exhaust pipe. In addition to thick smoke, it is common for excess smoke to come out of the exhaust pipe. Many beginners are concerned when they see too much smoke coming out of the pipe, but do not worry. When the vehicle runs out of gas, return the piston to Bottom Dead Center (BDC) immediately. Allow the engine to cool for 15 minutes.

Step 6: For this step, repeat step 5.

Step 7: For this step, fill the tank with fuel, start the engine and again drive in figure eight patterns. This time you can bring the car up to 1/2 throttle. You will notice that the idle of the engine may start to go up. This is due to the engine breaking in and causing less resistance on the piston and sleeve. You may need to turn the idle down a bit. You should still pay close attention to the amount of smoke the pipe is putting out. It should still have lots of thick smoke. When the tank runs out, make sure to return the piston to Bottom Dead Center immediately. Let the engine cool for 15 minutes.

Step 8: This is your final step in the break-in process. Fill the tank up with fuel, and start the engine. You will be driving the vehicle in straight lines this time, from idle to 1/4 throttle. Try to use the full range of throttle, idle to 1/4 throttle. Try to use the full range of throttle, going slowly from no throttle to 1/4. After this tank runs out, again return the piston to BDC, and let it cool for 15 minutes. After the engine cools you may now run it normally!

Your engine is now broken in, but it will not be the last time you need to adjust it. Keeping it tuned properly is an ongoing process. Depending on how often the weather changes where you live, you may need to adjust them slightly each time you run. Congratulations on breaking in your motor, and have fun with your new Nitro R/C vehicle!

It may be necessary to perform some after run maintenance to your engine if you plan on storing the vehicle for a long time. Unburnt fuel inside the engine can cause corrosion which can damage the internal components of the engine. It is recommended to run the engine out of fuel, and to add as after run oil if the engine is going to sit for a long period of time. This is not necessary if you are running the engine often.

**Section 5: Troubleshooting**

This section will go over some of the most common problems you may experience as a newcomer to the hobby, and some of the most common fixes for these problems.

**Engine Starts, but immediately stalls:**

1) Idle set too low – Adjust your idle screw so the engine idles higher.
2) Low Speed Needle needs Adjustment – The engine could be flooded with fuel, lean the low speed needle slightly.
3) Engine not getting fuel – Check to see if any of your fuel lines have holes in them.
4) Bad glow plug – If the engine dies right after you take the glow ignition off, it is possible it is the plug causing it. Try starting the car and leaving the glow ignition on for a moment. If the engine no longer stalls, the glow plug needs replacement.

**Engine is slow, or has slow acceleration:**

1) Clutch slipping – Replace clutch shoes
2) Engine not tuned properly – The engine could be running too lean or too rich. Return needles to factory settings and start over
3) Glow plug fouled or worn out – Replace the glow plug.

**Engine stalls during normal driving:**

1) Out of fuel, hole in fuel line – The engine could be running out of fuel. Check the fuel tank and check for holes in the fuel lines.
2) Carburetor not adjusted properly – Return the needle settings to factory settings and start from scratch.
   This could be from the high speed needle running too lean.

**Engine is overheating, or blows little smoke from the exhaust:**

1) The high speed needle is too lean, tighten this setting until you see smoke come from the exhaust under acceleration.
2) Engine is worn out – The engine will start to run hotter as it gets older.

**Vehicle “Glitches” or has lack of control:**

1. Batteries in radio dead – Replace radio batteries
2. Receiver batteries are low or loose – Replace the receiver pack batteries, or check to make sure they are in place. Using a rubber band or tape to hold the batteries in place will prevent them from getting knocked out during running.
3. Crystals or Receiver damaged – Fuel getting on the receiver can damage it, and hard impacts can cause the crystals to be damaged.
4. Interference – Things such as chain link fences, electrical lines, and other people using r/c cars can cause conflicts, try a different area.

**Section 6: Precautions**

1) Never operate the vehicle in crowded areas.
2) Always operate the vehicle with the body on.
3) Do not handle nitro fuel near open flames.
4) Store fuel in a cool, dark place.
5) Keep fuel away from children.
6) Only run the engine in a well-ventilated area.
7) The engine, pipe, and other moving parts of the vehicle get very hot.
8) Always check to make sure no one else is operating a R/C vehicle on the same frequency.
9) If the vehicle stops responding to you, discontinue use immediately, until you find the cause of the problem.
1/10TH SCALE 4WD R/C PIVOT BALL SUSPENSION STYLE NITRO POWERED VEHICLES

A. On-road Car(94122)

B. Off-road Buggy(94166)

C. Off-road Monster Truck/Wecker/Army/Jeep (94188/94104/94113/94119)

D. Off-road Monster Truck(94188T2)
### 94188T2(D) Spare Parts

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**CompetitionX**

A Website for the Serious Racer