

CHECKLIST	
DEFORE EACH RUN 1. Make sure all bolts and screws are tight, and that none are missing.	
2. Turn on the Transmitter first and then the Receiver. Turn the steering wheel to check your vehicle response and battery strength.	
3. Fill the fuel tank. Make sure there are no fuel leaks.	
4. Make sure the air filter is clean.	उट्डिट स्ट्रिट्स्ट्रिट्स
AFTER EACH RUN 1. Clean dirt and debris from the body and chassis.	्रिटित स्ट्रिट्सिट्सिटान्य
2. Check for cracks or damage to the body and chassis.	
AFTER EVERY 10 RUNS 1. Clean the air filter.	
AFTER EVERY 25 RUNS 1. Change the Glow Plug	

XRC RICOCHET

ABOUT THE NITRO XRC RICOCHET

The RICOCHET is built for stunts. It's constructed to be easy to jump, flip, spin and tumble. Even though the RICOCHET is built to take a lot of punishment, you should avoid crashing it on purpose. Still, the sicker the trick is, the higher the probability you'll wreck the first time you try it. Use your best judgment before taking a jump or trying a flip.

When racing more than one NITRO XRC vehicle (you can race up to 6 at a time), you'll need to be certain that each vehicle is operating on a different frequency band. The band of your vehicle is printed on the cover of this manual. There are four stock bands – two for the NITRO REVOLUTION MT and two for the RICOCHETTM. Radio crystals for additional bands are available from the store at which you purchased this vehicle or from your local HobbyTown USA. Check out www.nitroxrc.com and www.hobbytown.com for more information.





- NITRO XRC fuel is poisonous. Read all precautionary labeling on your fuel bottle before use.
 NITRO XRC fuel is flammable. If ignited, it burns clear meaning you may not be able to see the flame. Never refuel or operate the vehicle near sparks or open flame. In the case of a fire, use a chemical fire extinguisher NOT water to put out the fire.

SAFETY & MAINTENANCE

Thank you for purchasing this NITRO XRC vehicle. This manual contains all the information you need to maintain, modify and run your vehicle safely. Please read it carefully before operating the vehicle.

IMPORTANT INFORMATION

- NITRO XRC VEHICLES ARE INTENDED TO BE USED BY INDIVIDUALS OVER THE AGE OF 16. NITRO XRC FUEL IS DANGEROUS. They operate at high speeds. Metal parts can become hot, and engine parts move at a very high rate of speed.
- · Operate your vehicle only in wide-open areas. Crashing into curbs walls or parked cars can damage the vehicle and any objects with which it collides.
- · Any spectators should remain behind the driver. Never, ever run your vehicle into a person or animal.
- · Always pay attention to where you're driving and be aware of your surroundings. Distractions can cause dangerous accidents.

- · Always turn on the transmitter (remote), before turning on the vehicle.
- · Be certain that anyone else operating an RC vehicle nearby is operating on a different frequency than you (see page XX).
- · The powerful I.C.E. engine can generate a lot of noise. Try not to operate this vehicle where the engine noise may disturb others.
- · The engine and exhaust can become very hot during operation. Always allow the engine to cool before touching it or refueling.
- · Do not operate this vehicle indoors, at night, or on a street or parking lot with heavy traffic.







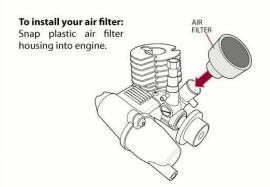




BEFORE YOU START

INSTALLING THE AIR FILTER

It is vital that you always keep your air filter clean and dry. A dirty air filter will affect the performance of your vehicle, and can damage the engine. Replacement air filters are available from your local Hobby Town USA (**www.hobbytown.com**). For cleaning instructions, see page 22.



INSTALLING THE FREQUENCY CRYSTAL

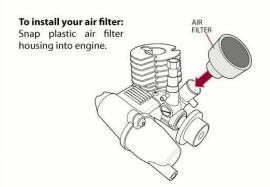




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BATTERY INFORMATION

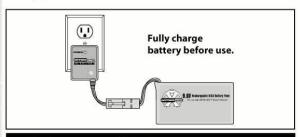
INSTALLING & CHARGING THE BATTERIES

All of the required batteries are available in the NITRO XRC Power Pack (sold separately).

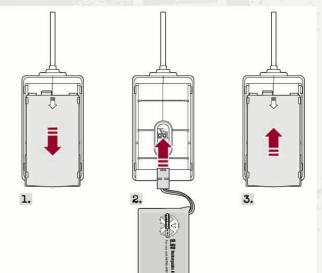


Charge battery fully (about 4 hours) before inserting. Remove battery compartment door. Insert the 9.6v rechargeable battery, as shown. Replace battery compartment door.

Electric Starter



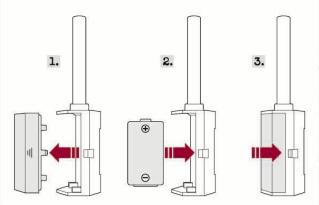
- Fully charge battery pack before first use.
 Allow battery pack to cool before recharging.
 Do not recharge battery pack if it shows signs of leakage or corrosion.
 Do not attempt to open the battery pack.
 Do not dispose of battery pack in fire.







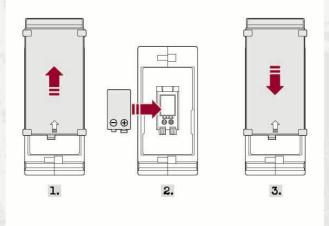
Remove battery compartment door. Insert 1 x 1.5v "C" or LR14 alkaline battery, as shown. Replace battery compartment door.





Remove battery compartment door. Insert 1 x 9v or 6R61 size battery, as shown. Alkaline batteries recommended. Replace battery compartment door.

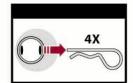
Transmitter



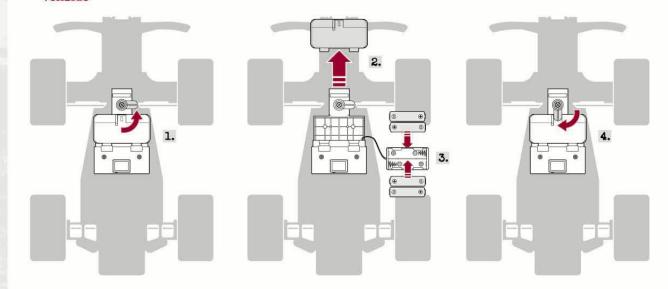




Pull out the pins that secure the body to the chassis. Carefully remove the body. Remove battery compartment door. Insert 4 x 1.5v "AA" or R6 size batteries, as shown. Alkaline batteries recommended. Replace battery compartment door. Reattach the body and snap pins back into place to secure.



Vehicle







CAUTION: TO AVOID BATTERY LEAKAGE

- 1) Be sure to insert the batteries correctly and always follow the vehicle and battery manufacturers' instructions;
- 2) Do not mix old and new batteries or alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries;
- 3) Always remove weak or dead batteries from the product.

IMPORTANT: BATTERY INFORMATION

Please retain this information for future reference. Batteries should be replaced by an adult.



CAUTION:

- 1. Always follow the instructions carefully. Use only batteries specified and be sure to insert them correctly by matching the + and polarity markings.
- 2. Do not mix old batteries and new batteries, or standard (carbon-zinc) with alkaline batteries.
- 3. Remove exhausted or dead batteries from the product.
- 4. Remove batteries if product is not to be played with for a long time.
- 5. Do not short-circuit the supply terminals.
- 6. Should this product cause, or be affected by, local electrical interference, move it away from other electrical equipment. Reset (switching off and back on again or removing and re-inserting batteries) if necessary.
- RECHARGEABLE BATTERIES: Do not mix these with any other types of battery. Always remove from the
 product before recharging. Recharge batteries under adult supervision. DO NOT RECHARGE OTHER TYPES
 OF BATTERIES.



QUICK START GUIDE

△ CAUTION:

- Do not operate the vehicle near people. Bodily injury can occur from moving vehicle. Spectators should stand behind the drive and maintain a safe distance from the vehicle.
- Engine and exhaust can become hot during use. Avoid contact with hot vehicle ports.
- Vehicle, transmitter, and starter are not water resistant. Do not use in wet environments.
- Always turn on the transmitter before turning on the receiver.
 Make sure no one else is using the same frequency before turning on.

Transmitter Glow Plug Igniter Wildcat Fuel for Nitro XRC with unique fuel delivery system solid exposure) Electric Starter

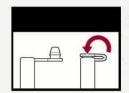
START YOUR ENGINES!

Always follow this step-by-step procedure when starting your NITRO XRC vehicle:

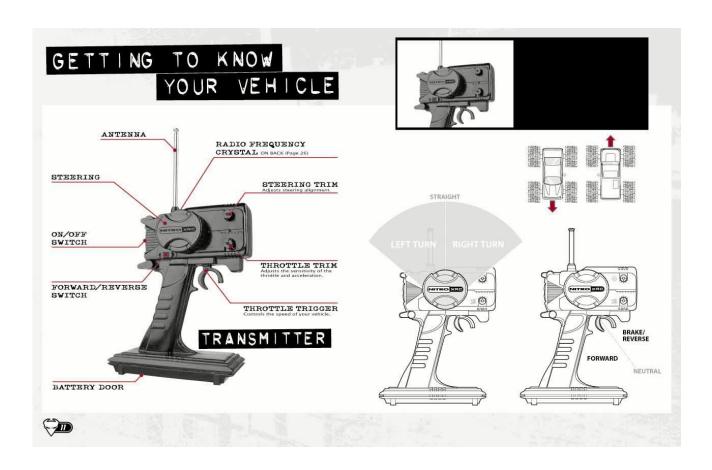
- 1. Top off your fuel tank (page 15).
- 2. Turn on your transmitter (page 17).
- 3. Turn on the receiver (page 17).
- **4.** Adjust Steering Trim switch to the neutral (center) position. (page 21)
- 5. Prime the engine (page 16).
- 6. Attach glow plug igniter (page 18). If you're running in cold weather, leave the igniter in for 15 seconds or so to warm up the engine before starting.
- 7. Insert starter and crank engine until it starts (page 18).
- 8. Adjust Throttle Trim. (page 20)

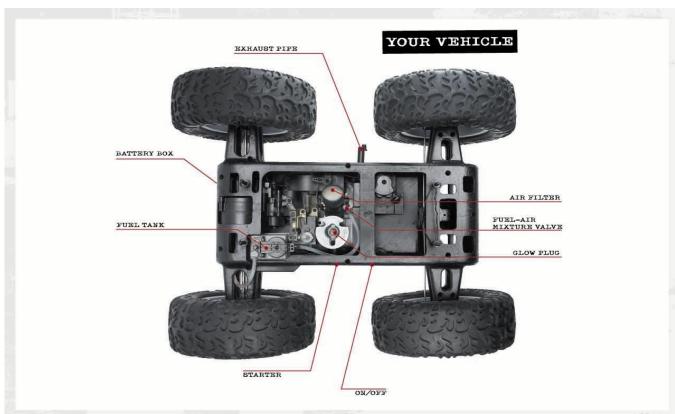
To shut down the vehicle, either run it until the fuel tank is empty (this is the course we recommend, as it's the most fun), or plug the exhaust using the attached exhaust plug.

If you have any problems, check out the Troubleshooting section on page 28.

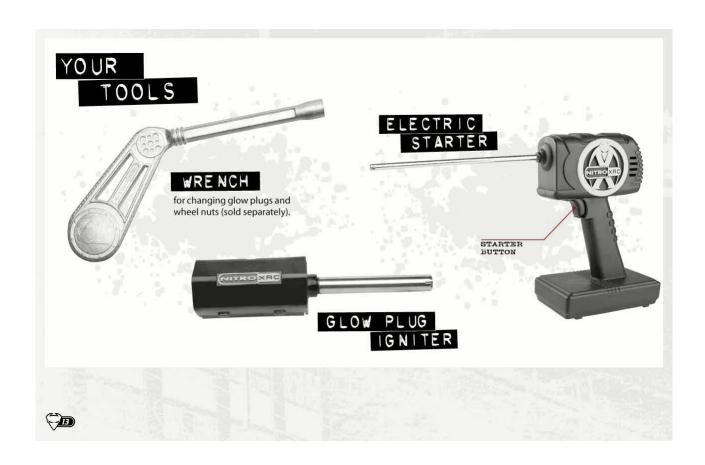
















- · Wildcat Fuel for Nitro XRC is flammable, poisonous and hazardous. Death or serious bodily injury could result if not used properly. Read
- and follow all warnings and directions on the fuel container.

 Do not alter this bottle's fuel delivery system, or the vehicle's fuel tank in any way. Do not use any other fuel or fuel delivery system
- with the NITRO XRC vehicle.

 Wildcat Fuel for Nitro XRC contains Nitromethane, Methanol and non-petroleum lubricants. This product cannot be made nonpoisonous. Always take extreme care when using this product. MAY BE FATAL OR CAUSE SERIOUS INJURY OR BLINDNESS IF SWALLOWED. EYE IRRITANT. VAPORS HARMFUL. AVOID CONTACT WITH EYES AND SKIN. KEEP AWAY FROM OPEN FLAME OR OTHER SOURCES OF IGNITION INCLUDING LIT CIGARETTES. USE ONLY IN WELL VENTILATED AREAS.
- · This product contains a chemical known to the state of California to cause cancer.
- · Use only Wildcat Fuel for Nitro XRC. Do not alter the fuel bottle or vehicle fuel tank in any way.
- · Fuel the vehicle outdoors away from any ignition source, including lit cigarettes.
- · Store fuel in well ventilated areas.
- · Always have a halon or carbon-dioxide fire extinguisher nearby when fueling. In the case of fire, dirt or sand can also be used to smother the flames. DO NOT ATTEMPT TO DOUSE A FUEL FIRE WITH WATER.
- · IN CASE OF SPILL:
 - · For small spills take up with sand or other non-combustible absorbent material and place into containers for later disposal.
 - Observe all local, state and federal regulations when disposing of waste.

· In case of skin contact, wash affected areas with soap and water. Remove clothing affected and launder before reuse.

ATTENTION!

This product is designed to be used as model engine fuel only. It is a hazardous product and the buyer assumes all risk and liability for loss, damage, or injury to persons or property resulting from its misuse, storage, etc.

FIRST AID!

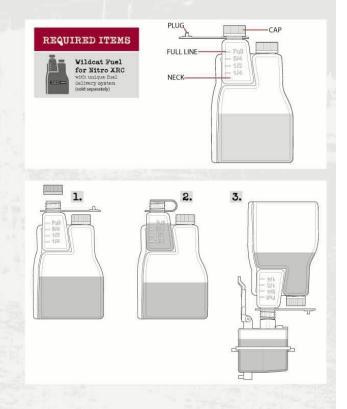
If contact with eyes occurs, flush thoroughly with water for 15 minutes. If swallowed, induce vomiting if patient is alert. Contact physician or poison control center immediately.



FUELING YOUR VEHICLE

Your Wildcat Fuel comes in a two-stage bottle designed to prevent spilling or overfilling your tank. **Never fill your fuel tank while the engine is running.** Always wash your hands thoroughly as soon as possible after fuelling.

- Unscrew and remove the cap from the neck of the fuel bottle and set it aside. DO NOT lose it. If your fuel is exposed to the air for too long, it will degrade over time.
- Push the pin on the attached ring down onto the valve. Squeezing until the fuel reaches the Full line. Fuel will not fill the neck of the bottle unless the valve is pressed in.
- 3. Remove pin from the fuel bottle. Open the cap from the fuel tank on the vehicle.
- 4. Attach the bottle to the tank.
- 5. Squeeze the bottle until fuel has reached the top of the tank. Never overfill your tank!
- **6.** Remove the bottle. Securely cap both the Fuel Bottle and your fuel tank before priming and starting your vehicle.







PRIMING AND STARTING

Start out your RICOCHET with the "truck" side up. You must prime your engine prior to the first start of the day. Remember to always switch on the Transmitter first and then the Receiver before starting your vehicle's engine.

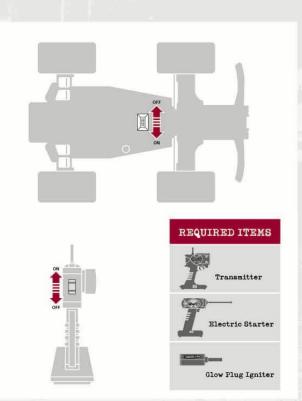
1. Turn on the Transmitter and then the Receiver. Adjust Throttle and Steering trim switches on the Transmitter to the neutral (center) position. Test that everything is functioning by turning the steering wheel on your Transmitter to turn the wheels of your vehicle.

2.

- **3.** Attach the glow plug igniter by inserting it into the glow plug housing and turning it clockwise to lock in place.
- 4. Attach the Electric Starter and press the start button for about 15 seconds. Your engine should turn over and start. If it does not start, give the Electric Starter a 5 second rest and try again. Hold on to the vehicle with one hand so it doesn't get away from you when it starts *
- 5. Once the engine has started, remove the Electric Starter and Glow Plug Igniter. You're ready to run!
- **6.** If you're starting the vehicle for the first time of the day, allow it to idle for 30 seconds or so to warm up the engine.



*If the engine does not turn over and start, check the Troubleshooting Guide on page 28.





NOTE: NEVER store your vehicle for more than a few days with fuel in the tank. This WILL damage your vehicle. If you plan to store your vehicle for more than a few days, run it until the tank is empty.



MAINTENANCE HINTS

- Water can damage the electronics of the vehicle. Do not operate in wet conditions or drive through puddles.
- Keep a rag with your vehicle on which you can wipe your hands, as priming and refueling can cause you to get fuel on your hands.
 Be careful not to expose any open cuts or wounds to fuel. Never touch your eyes or mouth when you may have fuel on your hands.
- Never operate your vehicle without a body. The body protects engine components from dirt and damage.
- Whenever you work on your vehicle, cover your work surface with a white or light-colored rag. This will help you not to lose parts.
- Do not open up the throttle all the way when the wheels are not in contact with the ground. This will damage your vehicle.
- Do not over-lean the engine (see page XX). This can cause overheating.
- Always store your vehicle in a dry area to avoid condensation getting into the engine.



MAINTENANCE

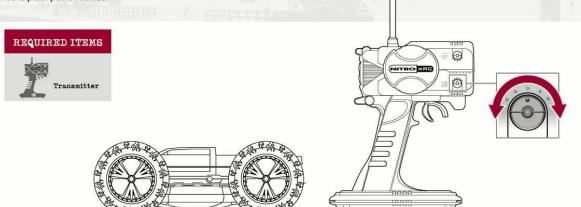
Whenever you work on your vehicle, spread a white or light-colored rag on your work surface. This will keep the surface clean, and help prevent you from losing any small parts.

THROTTLE TRIM

The Throttle Trim switch on your Transmitter adjusts the idle speed of your vehicle's engine. You should adjust it before the first run of the day, after you start your engine. Perfectly adjusted Throttle Trim will ensure peak performance.

To adjust Throttle Trim:

- Make sure your Transmitter is turned on. Keep your finger off the Throttle Trigger.
- Slowly turn the knob clockwise. The pitch of your engine should gradually increase.
- Once your vehicle begins to slowly move forward, stop turning the knob.
- Turn the Throttle Trim back in the other direction until your vehicle stops moving.



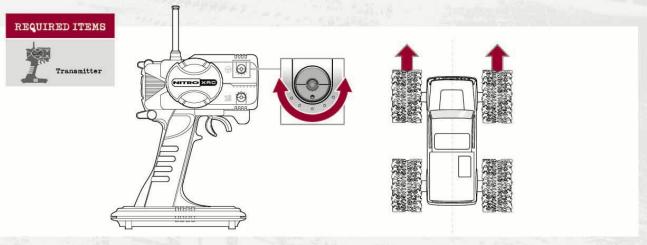


STEERING TRIM @

The Steering Trim switch on your Transmitter aligns your front wheels to hold a straight line when the steering knob is centered. You should adjust it before the first run of the day, after you start your engine. Perfectly adjusted Steering Trim will help you cut corners and pull tricks much more easily.

To adjust Steering Trim:

- 1. Make sure you are on flat, level ground.
- Make sure your Transmitter is turned on. Don't touch the steering knob. It will center itself.
- Gently squeeze the Throttle Trigger until your vehicle is moving at a moderate speed.
- 4. Adjust the Steering Trim by turning the knob clockwise or counterclockwise until your vehicle is moving in a straight line.





BODY

Some maintenance operations will require you to remove the body of your vehicle. **Never run your vehicle without the body on!** The body protects your engine from damage during operation.

To remove the body:

- 1. Pull out the pins securing the body and set them aside.
- 2. Carefully lift the body off of the chassis.
- 3. When you have finished working on your vehicle, replace the body and secure the pins to lock it in place.

To replace the body (custom body kit sold separately):

- 1. Pull out the pins securing the body and set them aside. Remove old body by lifting off of chassis and set aside.

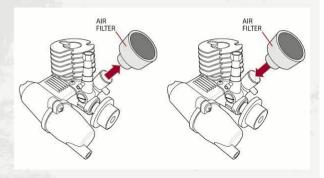
 2. Place new body kit on chassis, making sure it is fully seated on the
- body mounting struts.
- 3. Press pins back in to secure the body to the chassis.

AIR FILTER

You should clean your air filter every time you empty a bottle of fuel. It is vital that you always keep your air filter clean and dry. A dirty air filter will affect the performance of your vehicle, and can damage the engine. Replacement air filters are available from your local Hobby Town USA (www.hobbytown.com).

To remove and clean your air filter:

- 1. Pinch the top of the filter and pull it out of its housing.
- 2. Wash with a mild solution of warm water and dish soap.
- 3. Squeeze out excess water and allow to dry fully before reinserting it.
- 4. Pinch the air filter and push it back into its housing.





PULLING TRICKS

The Ricochet is built for tricks, but there are a few things to remember before you try pulling some.

- · When the truck side is up, set the Forward/Reverse switch to the Forward position.

 • When the car side is up, set the Forward/Reverse switch to the Reverse
- When the car side is up, the Ricochet steers from its rear wheels. Steering like this can be a little tricky, so take it slow at first.

TO SWITCH FROM FORWARD TO REVERSE:

1. Brake and come to a full stop by pushing the Throttle Trigger all the way forward.

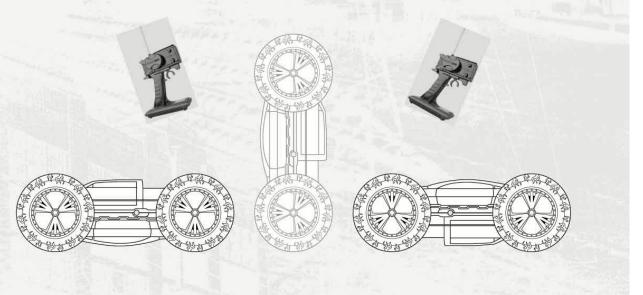
2. Push the Forward/Reverse switch to the desired position.

TO FLIP THE RICOCHET:

There are bunches of ways to get the Ricochet to flip, but this is the easiest.

1. Pull the Throttle Trigger all the way back to bring the Ricochet up to full

Pull the Throttle Trigger
 Speed.
 Beginning turning, while letting off the Throttle Trigger slightly.
 Turn the Steering Knob all the way into the direction of your turn and pull the Throttle Trigger back at the same time. This should roll your vehicle.





GLOW PLUG

The Glow Plug will eventually wear out and need replacement (the length of time it lasts depends on how often you use your vehicle). Spares can be purchased at the store in which you originally purchased your vehicle, or your local HobbyTown USA. You can also visit www.nitroxrc.com to find out where to purchase Glow Plugs.If your vehicle won't start, it may mean your Glow Plug needs to be replaced. Before replacing it, however, be sure that the batteries in your Glow Plug Igniter are fresh.

To remove the Glow Plug:

- Attach the wrench that came in your Power Pack. Tilt the vehicle so that the wrench is parallel to the ground (this will make it easier to remove the Glow Plug).
- 2. Turn the wrench counter-clockwise to remove the Glow Plug. Make sure that the washer attached to the bottom of the Glow Plug comes out too. Don't loose this washer in your engine; it should stay attached to the Glow Plug.
- Attach the Glow Plug to the Glow Plug Igniter. If the filament in the Glow Plug does not start glowing red within a few moments, you will need to replace the Glow Plug.
- 4. Attach a fresh Glow Plug to the wrench and screw it into the engine.











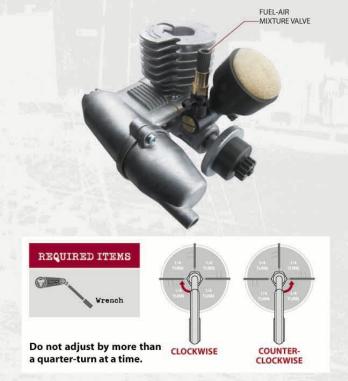
FUEL-AIR MIXTURE

You may need to adjust the Fuel-Air mixture being delivered to the engine depending on the altitude at which you are operating your NITRO XRC vehicle, or air temperature or humidity. If your vehicle hesitates or stalls during acceleration, try enriching or leaning the mixture.

- 1. Using the wrench that came in your Power Pack, turn this valve clockwise to lean the fuel-air mixture (do this in high humidity or heat environments at high altitudes). This lets less fuel into the engine.
- **2.** Turn the valve counter-clockwise to richen the mixture (do this at low altitudes). This lets more fuel into the engine.

The default setting for this valve is 2% turns out from fully closed. If you accidentally remove the screw entirely, reset it by screwing it all the way back in and then turn two turns counter-clockwise.

NOTE: DO NOT over-tighten the valve! This will damage your engine!





RACE CRYSTALS

Nitro XRC vehicles are sold in 4 frequencies – Bands A (26.995 MHz) & B (27.045 MHz) for the Nitro Revolution MT and Bands C (27.095 MHz) & D (27.145 MHz) for the Ricochet. Two vehicles with the same frequency crystals in their Transmitters and Receivers cannot be used near one another because the frequencies will conflict, preventing you from controlling your vehicle. Use these frequency crystals to modify your vehicle's frequency in order to avoid these frequency conflicts.

CHANNEL	FREQUENCY BA	ND COLOR
BAND A	26 . 99 5	Brown
BAND B	27.045	Red
BAND C	27.095	Orange
BAND D	27.145	Yellow
BAND E	2 7. 19 5	Green
BAND F	27.255	Blue

TO SWAP CRYSTALS:

Make sure your vehicle is not running, and that both your Transmitter and Receiver are shut off before swapping crystals.

TRANSMITTER

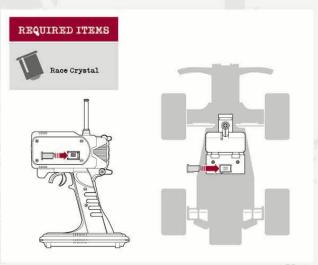
- 1. Pull the crystal out of the back of the Transmitter.
- Snap another Transmitter crystal in place. Only Transmitter crystals will fit into your Transmitter.

RECEIVER

- 1. Pull the crystal out of the Receiver.
- Snap a Receiver crystal that matches the frequency of the Transmitter crystal you are using into the Receiver. Only Receiver crystals will fit into your Receiver.

After swapping crystals:

Turn on your Transmitter and then your Receiver and try turning the steering knob on your Transmitter. If your vehicle's wheels turn, you swapped crystals properly.





TROUBLESHOOTING

SYMPTOM	PROBLEM	SOLUTION
Vehicle stalls or won't start. Starter appears to be working.	The battery in your glow plug igniter may be dead.	Replace the battery in your glow plug igniter. See page 7.
	Your glow plug is probably dead.	Check the glow plug. If it is dead, replace it. See page 24.
	Engine is not getting fuel.	If the glow plug appears to be working, try squeezing the Throttle Trigger slightly while starting.
Engine turns over but won't start. Fuel	The Glow Plug Igniter may not be fully attached.	Be sure the Glow Plug Igniter is attached and hot.
is draining from the exhaust pipe.* *See fuel safety information on page 14.	You may have flooded the engine.	Wait about five minutes and try starting again without priming.
Vehicle runs rough.	Your air filter is dirty.	Clean or replace the air filter. See page 22.
	Your fuel-air mixture is too rich or too lean.	Adjust the fuel-air mixture. See page 25.
When racing two or more vehicles, my vehicle is hard to control.	There are two or more vehicles running on the same band. There's a frequency conflict between vehicles.	Purchase a new Race Crystal to change to band of your Transmitter and Reciever. See page 26.
Vehicle stalls when Glow Plug Ingiter is removed.	Your glow plug is dead.	Replace your glow plug. See page 24.
Range is reduced or vehicle is not responding.	The batteries in your Receiver or Transmitter may be dead.	Replace the batteries in the Receiver and Transmitter. See page 7-6
	Different Race Crystal in your Receiver or Transmitter.	Be sure Race Crystal in Receiver and Transmitter match.

DO NOT RETURN YOUR NITRO XRC VEHICLE TO THE STORE!

NITRO XRC vehicles cannot be returned to retailers, as they may contain nitro fuel. If you experience any difficulty with this product, please call Hasbro Consumer Affairs toll-free at 1-800-844-3733, or visit us online at www.hasbro.com.



GLOSSARY

Lean – A lean fuel-air mixture is one that has very little fuel entering the engine. Over leaning your engine can cause it to overheat.

Rich – A rich fuel-air mixture has a greater proportion of fuel entering the engine. Over enriching your engine can cause it to hesitate during acceleration.









WARRANTY

Hasbro® guarantees this NITRO XRC vehicle and all parts to be free from defects for 30 days from the date of purchase. HASBRO will repair or replace, at no charge, a defective vehicle or part.

- · Please save your receipt. This is the proof of your date of purchase. You will need to send a copy of it to HASBRO with your vehicle for a warranty claim.
- This warranty may be voided if you modify your NITRO XRC vehicle with non-NITRO XRC parts.
 To return/exchange a defective NITRO XRC vehicle, call HASBRO Consumer Affairs at 1-800-844-3733. We will send you a mailing label and mailing instructions.
- · Remove your fuel tank before mailing your vehicle to us.

After this 30-Day Warranty period, you can still have your NITRO XRC vehicle repaired for only the cost of parts and materials at your local Hobby Town USA®. Please check out www.hobbytown.com to find a location near you.

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



For parts, fuel and technical support, call Tiger Consumer Affairs at 1-800-844-3733 or visit www.nitroxrc.com or www.hobbytown.com.
You can find everything you need to keep your NITRO XRC vehicle running at peak performance at your local Hobby Town USA.

Hobbyflown USA

You can find everything you need to keep your NITRO XRC vehicle running at peak performance at your local HobbyTown USA, or visit www.hobbytown.com.

TIGER_

Product and colors may vary.

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