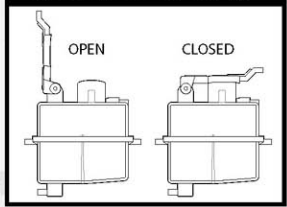




Never fill your fuel tank while the engine is running.

Only use Wildcat fuel for NITRO XRC™\* with unique fuel delivery system with your NITRO XRC vehicle.

Make sure fuel tank cap is closed when not fueling.



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.**

# 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 (located on side of vehicle). **A.** 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. Plug the exhaust pipe with the attached exhaust plug. **B.**
3. Attach the electric starter and turn the engine over several times (about 5 seconds). Hold on to the vehicle with one hand so it doesn’t get away from you when it starts. This primes the engine - moving fuel from the tank to the engine. **C.**
4. Unplug the exhaust. Excess fuel may drain from the pipe.
5. Attach the glow plug igniter by inserting it into the glow plug housing and turning it clockwise to lock in place. **D.**
6. Attach the Electric Starter and press the starter 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.\* **E.**
7. Once the engine has started, remove the Electric Starter. Wait about 10 seconds and then remove the Glow Plug Igniter. You’re ready to run!
8. If you’re starting the vehicle for the first time of the day, drive it slowly for 30 seconds or so to warm up the engine.

## REQUIRED ITEMS



Transmitter



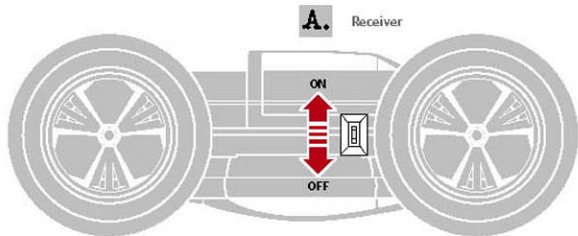
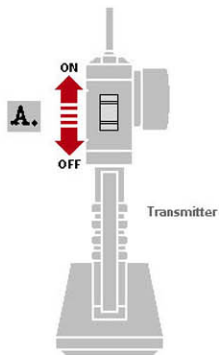
Electric Starter



Glow Plug Igniter

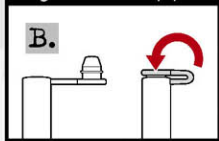


Vehicle



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

Plug the exhaust pipe.



D.



**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.

C.



E.



If fuel has gone bad in your fuel tank, do not operate your NITRO XRC™ vehicle. Call Hasbro Consumer Affairs toll-free at 1-800-844-3733, or visit us online at [www.hasbro.com](http://www.hasbro.com).

## MAINTENANCE HINTS

- Water can damage the electronics of the vehicle. Do not operate in wet conditions or drive through puddles.
- 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 24). This can cause overheating.
- Always store your vehicle in a dry area to avoid condensation getting into the engine.
- Never store your vehicle with fuel in the tank. Run it dry before storage.
- Always store your vehicle truck side up.



## 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:

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

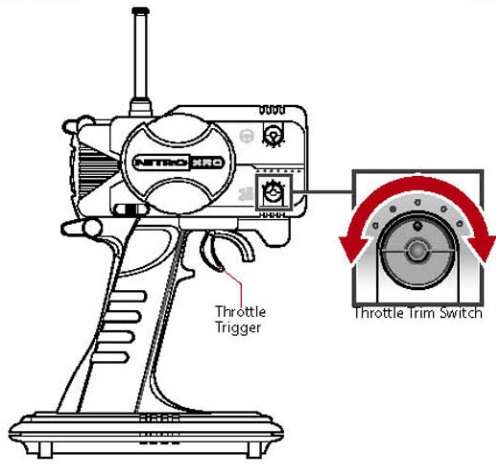
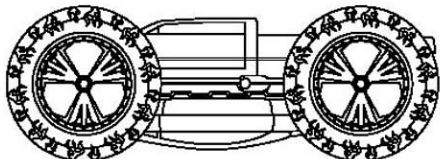
#### REQUIRED ITEMS



Transmitter



Vehicle



## 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.
2. Start vehicle and make sure your Transmitter is turned on. Don't touch the steering knob. It will center itself.
3. 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.

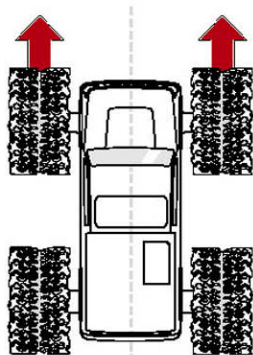
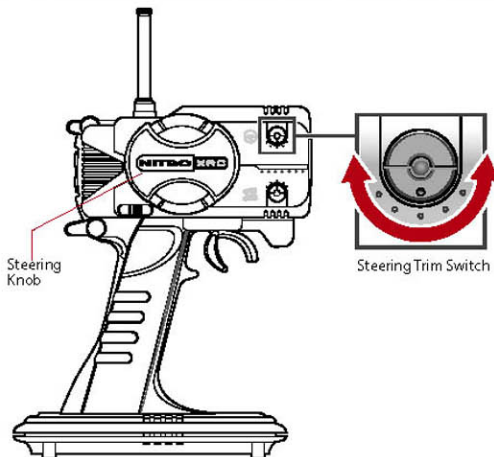
#### REQUIRED ITEMS



Transmitter



Vehicle



## 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 either 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 clean the body:** wash with a mixture of warm water and mild dish/hand soap. Be sure to wait until engine has cooled before cleaning.



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

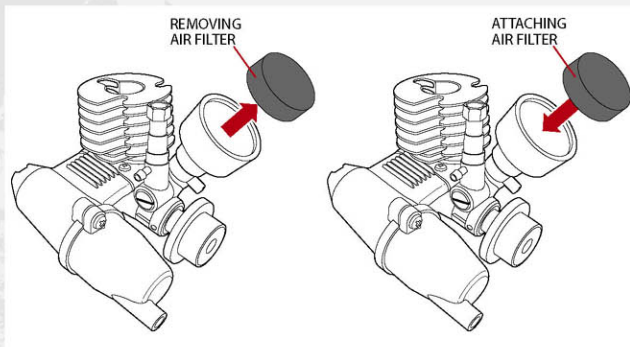
1. Pull out the pins securing the body and set them aside. Remove old body by lifting off of chassis and set aside.
2. Place new body kit on chassis, making sure it is fully seated on the body mounting struts.
3. Press pins back in to secure the body to the chassis.

## 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](http://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 solution of warm water and mild dish/hand 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.



## 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](http://www.nitroxrc.com) to find out where to purchase Glow Plugs.

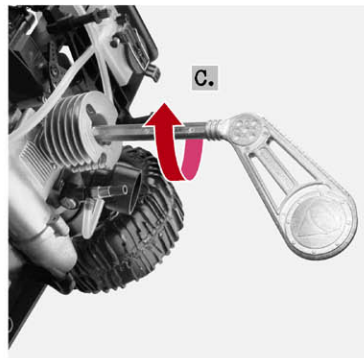
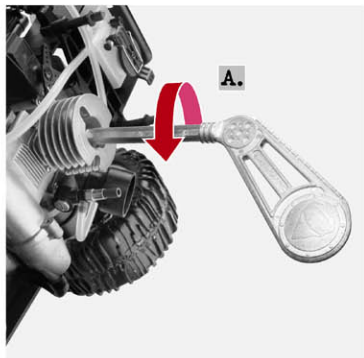
If your vehicle won't start, it may mean your Glow Plug needs to be replaced. Before replacing it, however, be sure that the battery in your Glow Plug Igniter is fresh.

### To replace the Glow Plug:

1. With the vehicle turned off, 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 lose this washer in your engine; it should stay attached to the Glow Plug. **A.**
3. Push the Glow Plug into the Glow Plug Igniter\*. If the filament in the Glow Plug does not start glowing orange/red immediately, you will need to replace the Glow Plug. DO NOT TOUCH THE FILAMENT. **B.**
4. Attach a fresh Glow Plug to the wrench and screw it into the engine. **C.**

\*Make sure the Glow Plug battery is good.

### REQUIRED ITEMS





## FUEL-AIR MIXTURE

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

**Do not adjust by more than one-eighth (1/8) turn at a time.**

1. Using the wrench that came in your Power kit, 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. **Do not over-lean your engine. This can severely impair or ruin your engine's performance.**
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 two and a half 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 and a half turns counter-clockwise.

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

You should not adjust your vehicle's fuel-air mixture until after you have run through your first three full tanks of fuel.

Be careful: Placing too much force on the valve can damage your engine. Only use enough force to turn the valve.



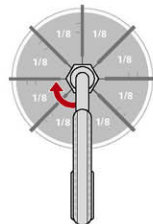
### REQUIRED ITEMS



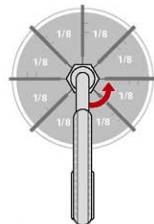
Wrench



Vehicle



**CLOCKWISE**  
(LEAN)



**COUNTER-CLOCKWISE**  
(RICHEN)

**Do not adjust by more than one-eighth (1/8) turn at a time.**

# RACE MODULES

NITROXRC™ 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 modules 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 modules to modify your vehicle's frequency in order to avoid these frequency conflicts.

## TO SWAP MODULES:

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

### TRANSMITTER

1. Pull the module out of the back of the Transmitter.
2. Snap another Transmitter module in place. Only Transmitter modules will fit into your Transmitter.

### RECEIVER

1. Remove battery compartment door.
2. Pull the module out of the Receiver.
3. Snap a Receiver module that matches the frequency of the Transmitter module you are using into the Receiver. Only Receiver crystals will fit into your Receiver.
4. Replace battery compartment door.

### 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 modules properly.

CHANNEL	FREQUENCY BAND	COLOR
BAND A	26.995	Brown
BAND B	27.045	Red
BAND C	27.095	Orange
BAND D	27.145	Yellow
BAND E	27.195	Green
BAND F	27.255	Blue

## REQUIRED ITEMS



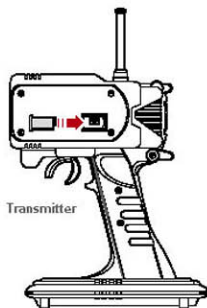
Race Modules



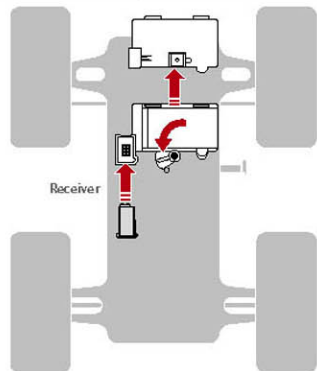
Transmitter



Vehicle



Transmitter



Receiver

# CHECKLIST

## **BEFORE EACH RUN**

- 1. Make sure all bolts and screws are tight, and that none are missing.
- 2. Make sure the air filter is clean.
- 3. Fill the fuel tank in accordance with all instructions. Make sure there are no fuel leaks.
- 4. Turn on the Transmitter first and then the Receiver. Turn the steering wheel to check your vehicle response and battery strength.

## **AFTER EACH RUN**

- 1. Brush off dirt and debris from the body and chassis.
- 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. Check and Glow Plug and replace if necessary.

**Unleash  
XRC Attitude!™**



# 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, the Ricochet steers from its rear wheels. Steering like this can be a little tricky, so take it slow at first.

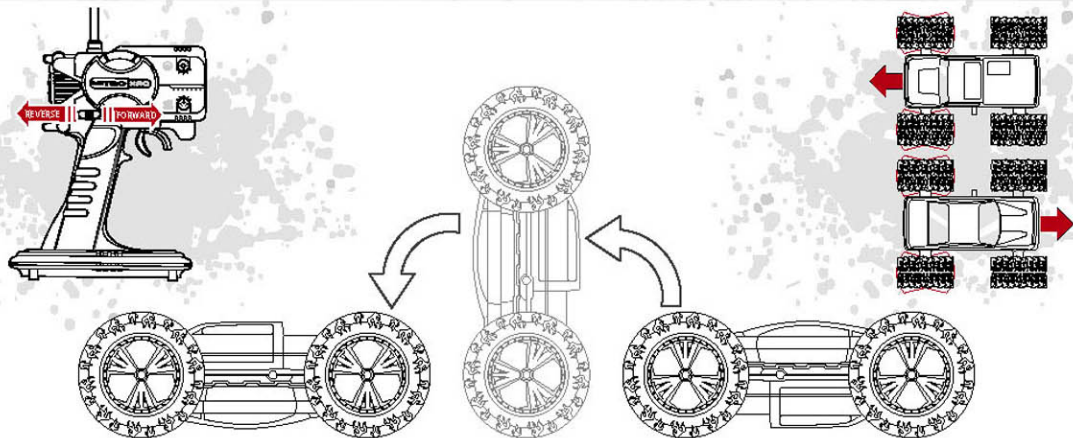
## TO SWITCH FROM FORWARD TO REVERSE:

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 speed.
2. Beginning turning, while letting off the Throttle Trigger slightly.
3. 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.



# 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. — or —	Replace the battery in your glow plug igniter. See page 7.
	Your glow plug is probably dead. — or —	Check the glow plug. If it is dead, replace it. See page 23.
	Engine is not getting fuel. — or —	If the glow plug appears to be working, try squeezing the Throttle Trigger slightly while starting.
	Fuel tank cap may not be fully closed. — or —	Make sure seal around fuel tank cap is free of dirt. Fully close fuel tank cap.
	Engine has not been primed.	Prime engine. See page 17.
Engine turns over but won't start. Fuel is draining from the exhaust pipe.* *See fuel safety information on page 14.	The Glow Plug Igniter may not be fully attached. — or —	Be sure the Glow Plug Igniter is attached and hot.
	You may have flooded the engine. — or —	Wait about five minutes and try starting again without priming. Turn vehicle on side to drain excess fuel.* *See fuel safety information on page 14.
	Your glow plug or glow plug igniter may be dead.	See above.
Vehicle runs rough.	Your air filter is dirty. — or —	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 24.
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 Module to change the band of your Transmitter and Receiver. See page 25.
Vehicle stalls when Glow Plug Igniter is removed.	Your glow plug is dead.	Replace your glow plug. See page 23.
Range is reduced or vehicle is not responding.	The batteries in your Receiver or Transmitter may be dead. — or —	Replace the batteries in the Receiver and Transmitter. See page 7-8.
	Different Race Module in your Receiver or Transmitter.	Be sure Race Module in Receiver and Transmitter match.

# 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 or fuel.
- 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.

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](http://www.hobbytown.com) to find a location near you.



**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**.



For parts, fuel and technical support, call Tiger Consumer Affairs at 1-800-844-3733 or visit [www.nitroxrc.com](http://www.nitroxrc.com) or [www.hobbytown.com](http://www.hobbytown.com).  
Keep your NITRO XRC vehicle running at peak performance. Visit your local HobbyTown USA, or go to [www.hobbytown.com](http://www.hobbytown.com) for more information.

**HobbyTown USA**

Keep your NITRO XRC vehicle running at peak performance. Visit your local HobbyTown USA, or go to [www.hobbytown.com](http://www.hobbytown.com) for more information.

**TIGER**

Product and colors may vary.

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