OWNER'S MANUAL

Tornado250

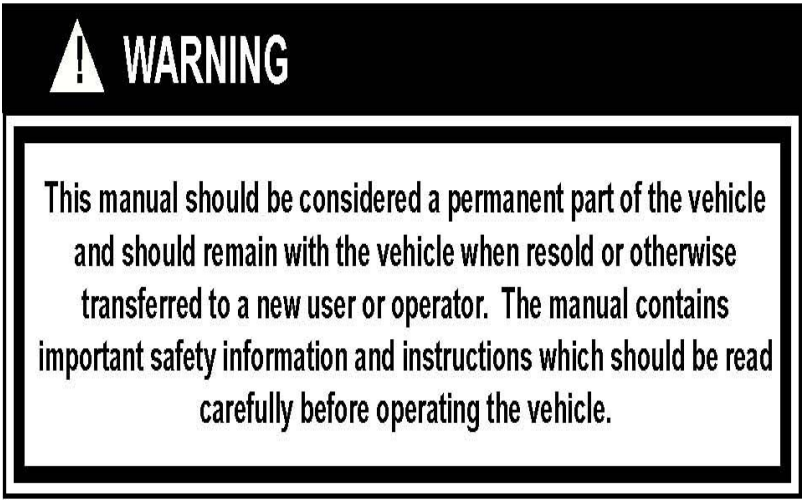
Always wear a helmet; It could save your Life!

Please obtain, review, and follow provincial / municipal government acts and regulations pertaining to owning and operating an off-road vehicle.

Congratulations on your purchase of the Ricky Power Sports, LLC Tornado250 ATV. Your bike is warranted to be free of manufacturing defects in material and workmanship for a period of 90 days from the date of purchase. During the warranty period Ricky Power Sports, LLC will at its option, repair, provide replacement parts or replace your Ricky Power Sports, LLC Tornado250 ATV at no charge. This warranty does not cover normal wear items or damage caused by neglect or misuse of the product.

Engine Warranty – 90 days
Frame Warranty – 90 days
Warranty is void if:
Frame is bent or broken due to abuse
Wheels are bent or broken
Fender bent or broken due to abuse
Any sign of impact, accident, jumping, spin-outs or roll over.
Ricky Power Sports, LLC is not liable for any damage claim or liability claim person or otherwise resulting from the operation of this product in any way.

Should you experience a problem with your vehicle, please call the Ricky Power Sports, LLC Customer service line toll free at 1- 844-250-2199. You will be instructed how to proceed.
A COPY OF THE SALES RECEIPT IS REQUIRED.


WARNING
This manual should be considered a permanent part of the vehicle and should remain with the vehicle when resold or otherwise transferred to a new user or operator. The manual contains important safety information and instructions which should be read carefully before operating the vehicle.

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SAFETY

Please read this manual and follow all instructions carefully. To emphasize the special information, the symbol ⚠ and the words WARNING or CAUTION have some special meanings. Pay attention to the messages.

⚠ WARNING

Indicates a potential hazard that could result in death or injury .

CAUTION

Indicates a potential hazard that could result in vehicle damage.

NOTE: Indicating special information which is to make maintenance easier or instructions clearer.

WARNING and CAUTION are arranged like this:

⚠ WARNING-or-CAUTION

The first part will identify a POTENTIAL HAZARD.

The second part will describe WHAT COULD HAPPEN if you ignore the WARNING or CAUTION. The third part will describe HOW TO AVOID THE HAZARD.

This user's manual contains important safety and maintenance information. Read it carefully before riding. Failing to follow the warnings contained in this manual could result in INJURY or DEATH.

It is important that this manual remain with the vehicle when you transfer it to another user or owner.

All information, illustrations, photographs and specifications contained in this manual are based on the latest product information available at the time of publication. Due to improvements or other changes, there will be some discrepancies in this manual. We reserve the right to make product changes at any time, without notice and without incurring any obligation to make the same or similar changes to the vehicle previously built or sold.

SAFETY

We believe in conservation and protection of the earth's natural resources. We encourage every vehicle owner and operator to do the same by obeying posted signs and riding only in areas designated and approved for off-road recreational use.

NOTICE TO USERS

THIS ATV IS NOT A TOY. IT COULD BE HAZARDOUS TO THE OPERATOR. An ATV is different from other vehicles including motorcycles and cars. A collision or rollover could occur quickly, even during routine maneuvers such as turning and driving on hills or over obstacles if you fail to take proper precautions.

⚠ WARNING

SEVERE INJURY OR DEATH can result if you do not follow these instructions.

- **Read this manual and labels on the ATV carefully and follow the operations procedures as described.**
- **Never operate the ATV without proper instruction. Take a training course. Beginners should be trained by a licensed instructor. Always follow the age recommendations**
- **Never carry a passenger on an ATV.**
- **Always avoid operating an ATV on paved surfaces, including: sidewalks, paths, parking lots, driveways, streets, roads, and highways. Never operate this or any ATV on a public street, road or highway where motor vehicles are in operation.**
- **Never operate an ATV without wearing a DOT approved motorcycle helmet which fits properly. Operators should also wear eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket, and long pants.**

SAFETY

- **Never operate this ATV at excessive speeds. Always operate at a speed that is proper for the terrain, visibility, operating conditions, and the operator's skill / experience.**
- **Never attempt wheelies, jumps, or other stunts.**
- **Always inspect the ATV each time before use to ensure it is in a safe operating condition. Always follow the inspection and maintenance procedures and schedule described in this manual.**
- **Always keep both hands on the handlebar and both feet on the footrests of the ATV during operation.**
- **Always go slow and be extremely careful when operating on unfamiliar terrain. Always be alert to the changing terrain conditions when operating the ATV.**
- **Never operate on excessively rough, slippery or loose terrain until you have learned and practiced the necessary skills to control the ATV on such terrain.**
- **Always follow proper procedures for turning as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speeds.**
- **Never operate the ATV on hills that are too steep for the ATV or for the operator's ability. Practice on smaller hills before attempting larger hills.**
- **Always follow the proper procedures for climbing hills as described in this manual. Check the terrain carefully before you start up any hill. Never climb hills with excessively slippery or loose surfaces. Shift your weight forward. Never open the throttle suddenly. Never go over the top of a hill at high speeds.**
- **Always follow proper procedures for going down hills as described in this manual. Check the terrain carefully before starting to go down any hill. Shift your weight backward. Never go down a hill at an angle that would cause the vehicle to lean sharply to one side. Go straight down the hill if possible.**

SAFETY

- **Always follow proper procedures for crossing the side of a hill as described in this manual. Avoid operation on hills with excessively slippery or loose surfaces. Shift your weight to the uphill side of the ATV. Never attempt to turn the ATV around on any hill until you have mastered the turning technique described in this manual on level ground. Avoid crossing the side of a steep hill if possible.**

- **Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Dismount on the uphill side or to a side if pointed straight to uphill. Turn the ATV around and remount, following the procedure described in this manual.**

- **Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.**

- **Always be careful when skidding or sliding. Learn to safely control skidding or sliding by practicing at low speeds and on level, smooth terrain. On extremely slippery surfaces, such as ice, go slow and be very cautious in order to avoid going out of control when skidding or sliding.**

- **Never operate an ATV in fast flowing water or in water deeper than that specified in this manual. Remember that wet brakes can reduce stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction linings dry out.**

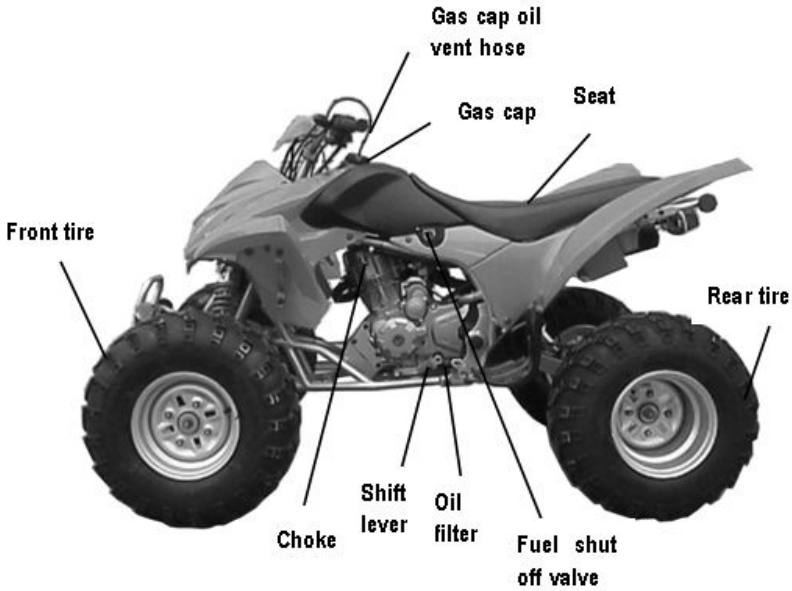
- **Always use the tires with proper size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.**

- **Never modify an ATV through improper installation of accessories.**

- **Never exceed the stated load capacity for an ATV. Cargo should be distributed properly and attached securely. Reduce speed and follow instructions in this manual for carrying cargo. Allow longer distance for braking.**

- **The combined weight of the rider and any accessories or cargo must never exceed the vehicle's load capacity of 331 lbs.**

- **Do not tow a trailer. This vehicle is not designed for such use.**


Gas cap oil vent hose
Gas cap
Seat
Front tire
Rear tire
Shift lever
Oil filter
Choke
Fuel shut off valve

Left


Headlight
Tail light
Front shocks
Muffler
Oil cap
Brake foot lever
Carburetor

Right

FUEL AND OIL

FUEL Proper fuel is very important for the engine. Ensure there is no dust, dirt, or water which has mixed in the fuel. Use regular unleaded gasoline with an octane number 90 or higher.

ENGINE OIL Your 250cc ATV has a four-stroke engine. Please use oil as described in the chart below. By using prescribe oil, you will realize the best lubrication for

engine.

ENGINE

SAE 10W-30

SAE 20W-40

°C

-30 -20-10 0 10 20 30 40

TEMP.

°F

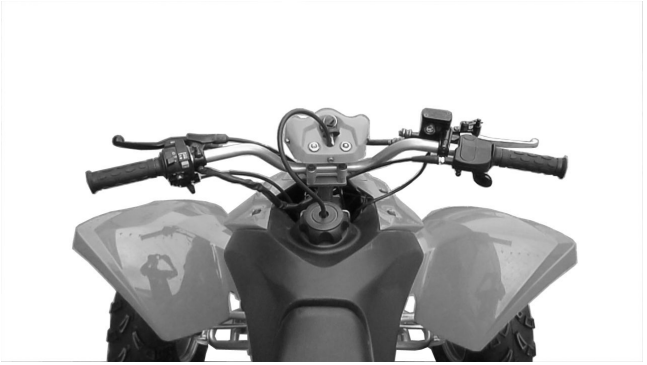
-22 414 32 50 68 86104

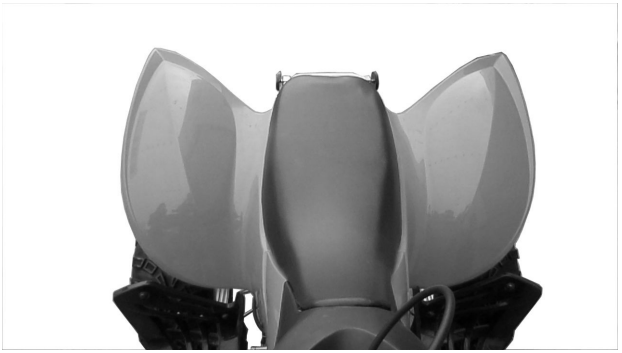
Use the chart to select a viscosity rating based on the temperature range in your area.

NOTE: In very cold weather (below 5 ° F (-15 ° C), use SAE10W-50 for good starting and smooth operation.

LABLES

Read and follow all of the warnings labels on your ATV. Make sure you understand all the labels. Keep the labels on the ATV. Do not remove them for any reason. If a label comes off or becomes difficult to read, you should get a replacement by contacting Ricky Power Sports, LLC.





1

⚠ WARNING

Improper ATV use can result in SEVERE INJURY or DEATH

ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR | NEVER USE ON PUBLIC ROADS | NEVER CARRY PASSENGERS | NEVER USE WITH DRUGS OR ALCOHOL

NEVER operate:

- **without proper training or instruction**
- **at speeds too fast for your skills or the conditions**
- **on public roads - a collision can occur with another vehicle**
- **with a passenger - passengers affect balance and steering and increase risk of losing control**

ALWAYS:

- **use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns**
- **avoid paved surfaces - pavement may seriously affect handling and control**

LOCATE AND READ OWNER'S MANUAL. FOLLOW ALL INSTRUCTIONS AND WARNINGS.

2

⚠ WARNING

Overloading can cause loss of control. Loss of control can result in severe injury or death.

- Maximum weight capacity: **187**lbs.(**85**kg)

3

Chongqing Haosen Motorcycle Co., Ltd certifies that this ATV complies with the American National Standard for Four Wheel All-Terrain Vehicles, ANSI/SVIA 1-2010

4

⚠ WARNING

Operating this ATV if you are under the age of 16 increases your chance of severe injury or death.

NEVER operate this ATV if you are under age **16**.

5

⚠ WARNING

NEVER ride as a passenger.

Passengers can cause a loss of control, resulting in SEVERE INJURY or DEATH.

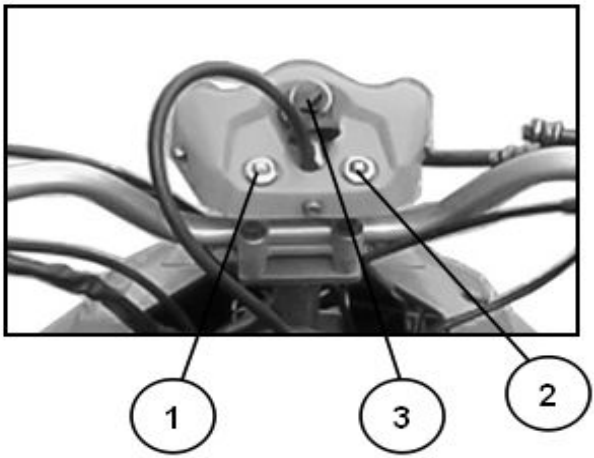
6

⚠ WARNING

Improper tire pressure can cause loss of control.
Loss of control can result in severe injury or death.

- Cold tire pressure:
  Front : 5.0psi (34.5kpa)
  Rear : 5.0psi (34.5kpa)

INDICATOR LIGHTS AND MAIN KEY SWITCH

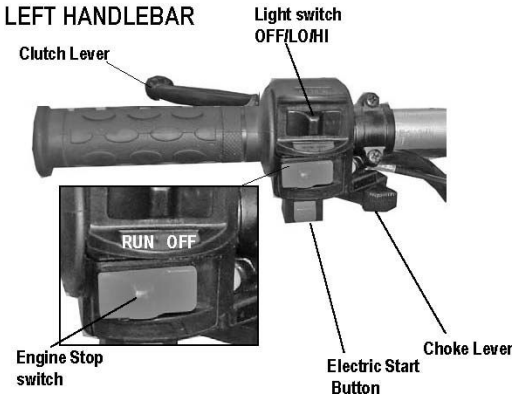


1 - Red Light - Reverse indicator
Light illuminates when ATV is in Reverse.

2 - Green Light - Neutral indicator
Light illuminates when ATV is in Neutral.

3 - Ignition key switch - Turn right (CW) "RUN", Turn left (CCW) "OFF".
ATV will only start when ignition key is turned to the "RUN" position. Make sure ignition key switch is in the "OFF" position when not in use.

HANDLEBAR & SWITCHES



Engine Stop Switch

With Engine stop switch in the "OFF" position (right) the engine cannot be started. With the Engine stop switch in the "Run" position (left) the engine can be started.

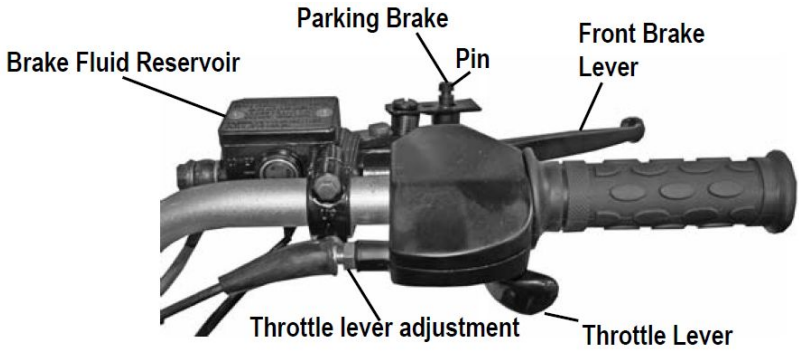
Clutch Lever
Apply clutch by squeezing clutch lever towards grip.

Light Switch To turn lights "ON" place switch on LO beam or HI beam. To turn lights off, place light switch to OFF.

Electric Start button
Engine is started by pushing the electric start button. Note: Clutch must be applied and Ignition key and Engine Stop Switch must be placed at "ON" positions before engine will start.

Choke Lever
Choke is applied to start a cold engine.

RIGHT HANDLEBAR



Throttle lever--- Controls engine and ATV speed. Operate this lever with your thumb. Push lever forward to increase engine and ATV speed. Release lever to decrease engine and ATV speed.

Front brake lever ---Squeeze lever toward hand grip to apply front brakes.

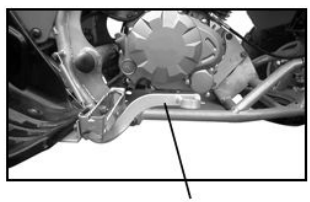
Parking Brake---Parking brake is applied by squeezing front brake lever then pushing parking brake pin in place. To release parking brake, pull parking brake lever toward hand grip and release pin.

Brake fluid reservoir ---To add brake fluid, see braking section of this owners manual

Throttle lever adjustment ---See Throttle lever adjustment in this owners manual

REAR FOOT BRAKE

Foot brake Located on the right hand side of the ATV. Foot brake stops the rear wheels.



FUEL VALVE

This vehicle has one manually operated fuel valve. There are 3 positions

"ON" "OFF" "RESERVE"

"ON" position

In this position, fuel is allowed to flow into the carburetor when the engine is running or being started.

"OFF"position

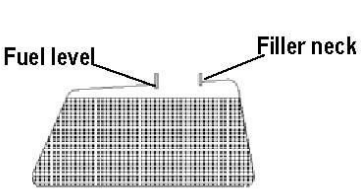
In this position the fuel is shut off from the carburetor. The fuel valve needs to be placed in this position when the ATV is not in use

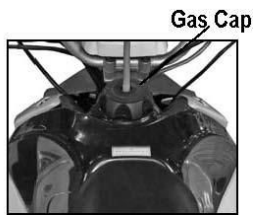
"RESERVE"position

If the fuel level in the fuel tank becomes to low for the engine to stay running while the fuel valve is in the "ON" position, turn the fuel valve to "RESERVE". This will allow the engine to begin using the reserve fuel supply. You will need to re-fuel as soon as possible.Once re-fueled, turn fuel valve back to "ON " Position

FUEL TANK CAP

To open the fuel tank cap, turn fuel tank cap counterclockwise. To close fuel tank cap, turn it clockwise and close it securely. Be sure vent tube securely connects to cap as shown.





⚠ WARNING

Overfilling the fuel tank could be hazardous.

If you overfill the fuel tank, fuel may overflow when it expands. Expanding is due to heat from engine or sun. Overheated fuel could easily catch fire.

Stop adding fuel when the fuel level reaches the bottom of the filler neck.

⚠ WARNING

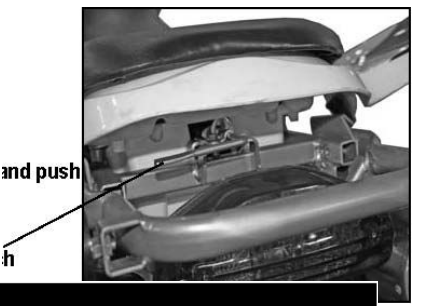
Improper fueling of the ATV could be hazardous.

Failing to follow safety precautions when refueling could result in a fire or let you to breathe toxic fumes.

Refuel in a well ventilated area. Make sure the engine is off and avoid spilling fuel on a hot engine. Do not smoke, and make sure there are no open flames or sparks in the area. Avoid breathing gasoline vapors. Keep children and pets away when you are refueling the ATV.

SEAT LOCK

To remove seat, lift latch up To lock the seat, slide into retainer and push down firmly.



⚠ WARNING

Improperly installing the seat could be hazardous.

Failing to install the seat properly could allow the seat to move and cause the rider to lose control.

Make sure you are in proper position and the seat is attached securely when you install it.

WHAT YOU SHOULD KNOW BEFORE RIDING

Before riding, you should read all the following information carefully. If you are properly prepared, you will have a more enjoyable ride.

Before riding, you should find a good place to practice the skills. Find a flat, open area with enough space to practice the new skills.

⚠ WARNING

Operating this ATV without proper instruction could be hazardous.

The risk of riding could increase greatly if you do not know how to operate the ATV properly under different situations and in different types of terrain.

Beginners and inexperienced operators should complete a certified training course. You should regularly practice the skills learned in the course and the operating techniques described in this user's manual. For more information about the training course, visit www.svia.org or call 1-844-250-2199.

For more information on ATV safety and other provincial and municipal governmental acts and regulation pertaining to owning and operating an off-road vehicle visit one of the following web-sites:

www.svia.org
www.cpsc.gov
www.mmic.ca/CATV/

Make sure that it is legal to ride in the area you selected. Review the local laws and make sure you are not trespassing. Call the police if you don't know where you can ride.

Protect your riding areas. When you are riding, remember to keep the terrain in good condition. Don't destroy plants, trees or other vegetation. Don't litter and don't bother wildlife. With your help, your riding area can remain open for use in the future.

After you have found a good place to practice, review the control system on your ATV before riding. Learn to find these controls without looking for them, because you will not have time to look for them when you are riding.

Canadian residents must obtain, review, and follow all provincial and municipal government acts and regulations pertaining to owning and operating an off-road vehicle.

INSPECTION BEFORE RIDING

⚠ WARNING

Failing to inspect the ATV before operating could be hazardous. Failing to perform proper maintenance could also be hazardous.

Failing to inspect and maintain your ATV could increase the chances of an accident or equipment damage

Always inspect your ATV each time before riding, and make sure it is in a safe operating condition. Refer to the INSPECTION AND MAINTENANCE section in this manual.

ITEM TO CHECK	CONTENT
Steering	Smoothness; No restriction of movement; No play or looseness
Brakes	Proper brake lever free play; enough brake force; Parking brake effectiveness
Tires	Proper air pressure; Enough tread depth; No cracks, rips, or other damages
Fuel	Enough fuel for the intended trip; Fuel hose connected securely; No damage to fuel tank or cap; Fuel tank cap closed securely
Engine stop switch	Proper operation
Engine oil	Proper level – Check oil by inspecting Engine Oil Dip Stick. The engine oil should be between the Minimum and Maximum lines.
Throttle	Proper free play of throttle lever; Smooth response; Quick return to idle position
Drive chain	Proper tension; adequate lubrication; No excessive wear or damage
General condition	Bolts and nuts are tight; No rattle from any parts of the engine when running; No visible evidence of Damage

⚠ WARNING

Overloading could be hazardous.

Overloading could cause changes in vehicle handling and could lead to an accident.

Never exceed the stated load capacity for this ATV. Refer to the ACCESSORY USE AND VEHICLE LOADING section in this manual.

⚠ WARNING

Operating this ATV with improper modifications could be hazardous.

Improper installation of accessories or modifications to this vehicle may cause changes in handling. In some situations, this could lead to an accident.

Never modify this ATV through improper installation or use of accessories. Refer to the ACCESSORY USE AND LOADING section in this manual.

⚠ WARNING

Operating this ATV with improper tires, or improper tire air pressure could be hazardous.

If you use improper tires or improper air pressure, you may lose control of the ATV. This will cause an accident.

Always use the tires with size and type tires specified in this user's manual. Always maintain proper tire air pressure as described in the INSPECTION AND MAINTENANCE section.

Check the condition of the ATV to make sure that the ATV does not have mechanical problems or you could get stranded when you ride. Before riding the ATV,be sure to check the above items. Be sure your ATV is in good condition to ensure the safety of the rider.

⚠ WARNING

Checking maintenance items when the engine is running could be hazardous.

You could be severely injured if your hands or clothing get caught in moving ATV parts.

Shut the engine off when performing maintenance checks, except checking the engine stop switch and throttle.

SAFETY GEAR

⚠ WARNING

Operating this ATV without wearing an approved DOT motorcycle helmet, eye protection, and protective clothing could be hazardous.

Operating without an approved DOT motorcycle helmet or eye protection increases your chances of a severe head injury or death in an accident. Operating without protective clothing also increases your chances of severe injury in an accident.

Always wear an approved DOT motorcycle helmet which fits properly. Always wear eye protection (goggles or face shield). You should also wear gloves, boots, long sleeve shirt or jacket, and long pants.

A DOT approved motorcycle helmet is the most important part of you safety gear. A DOT approved motorcycle helmet can help prevent a serious head injury. Choose a helmet that fits snugly. Motorcycle dealers can help in selecting a good quality helmet which fits properly.

You should wear eye protection when you ride. If a rock or a branch hits your eyes, you could be severely injured. Wear goggles or a face shield.

Wear proper clothing when you ride. The proper clothes can protect you from injury. Wear a good pair of gloves, strong boots that are over the ankle, long pants, and a long sleeve shirt.

BREAK-IN

The first month is the most important in the life of your vehicle. Proper operation during this break-in period will be helpful for assuring maximum life and performance of your new vehicle. The following guidelines explain proper break-in procedures.

Maximum Throttle Opening Recommendation
During the first 10 hours of operation, you should always use less than ½ throttle opening.

Vary the Engine Rotating Speed Vary the engine rotating speed during the break-in period. This allows the parts to "load" and then "unload" (allowing the parts to cool). Although it is essential to place some stress on the engine components during break-in, you must be careful not to load the engine too much.

Avoid Constant Low Rotating Speed Operating the engine at constant low rotating speed (light load) can cause parts to glaze and not seal properly. Allow the engine to accelerate freely without exceeding the maximum throttle limit.

Allow the Engine Oil to Circulate Before Riding Allow enough idling time after warm or cold engine starting. This allows the lubricating oil to reach all critical engine components.

Observe Your Initial and Most Critical Service The initial service (break-in maintenance) is the most important service that your vehicle will receive. Observing a proper break-in operation, will help engine components seal properly. Maintenance required as part of the initial service includes proper adjustments, tightening of all bolts & nuts, and replacement of dirty oil. Timely performance of this service will help you get the best service life and performance of the engine.

⚠ WARNING

The ATV could start moving as soon as you start the engine.

Unexpected movement could cause you to lose control of the ATV.

Be sure to set the parking brake before you start the engine.

⚠ WARNING

Running your ATV indoors where there is little or no ventilation could be hazardous.

Breathing in exhaust gases from the ATV could cause severe injury.

Always run your ATV outdoors where there is fresh air.

STARTING THE ENGINE

Before attempting to start the engine, make sure to follow these steps.

1 **Turn the fuel valve to "ON" position**
2 **Place choke lever to "ON" Position**
3 **Turn key switch to "ON" position.**
4 **Set the engine stop switch to the "ON" position.**
5 **Apply brake lever and/or foot lever making sure that the wheels are in locking condition.**
6 **Pull in clutch lever and press the starter button "START" to start the engine.**
7 **Once engine has warmed up, place choke lever in "OFF" position.**

ion.

SAFETY WARNINGS

⚠ WARNING

Carrying a passenger on this ATV could be hazardous.

Carrying a passenger could greatly reduce your ability to keep balance. If you carry a passenger, you could lose control, and both you and the passenger could be severely injured.

Never carry a passenger. The ATV has a long seat so you can change positions to handle the ATV. It is not for carrying passengers.

⚠ WARNING

Operating this ATV on paved surfaces, including sidewalks, paths, parking lots, driveways and streets could be hazardous.

ATV tires are designed for off-road use. Paved surfaces may seriously affect handling and control of the ATV, and may cause the vehicle to lose control.

Avoid operating the ATV on paved surfaces if possible. If you must ride on a paved surface, go slow and do not make sudden turns or stops.

⚠ WARNING

Operating this ATV on public streets, roads or highways could be hazardous.

You may collide with another vehicle if you ride on the public roads.

Never operate this ATV on any public street, road or highway, even dirt or gravel street, roads, or highway. In many states is it illegal to operate ATVs on public streets, roads and highways.

⚠ WARNING

Never operate this ATV at night. Night is defined as the period of time 30 minutes before sunset to 30 minutes after sunrise.

You may collide with another vehicle, a stationary object, or hazard found in the terrain.

⚠ WARNING

Operating this ATV at excessive speeds could be hazardous.

Riding at excessive speeds increases your chances of losing control of the ATV, which could result in an accident.

Always go at a speed that is proper for the terrain, visibility, operating conditions, operator skills, and operator experience.

⚠ WARNING

Attempting wheelies, jumps, and other stunts could be hazardous.

Stunt riding increases the chance of an accident, including an overturn.

Never attempt stunts, such as wheelies or jumps. Don't try to show off.

⚠ WARNING

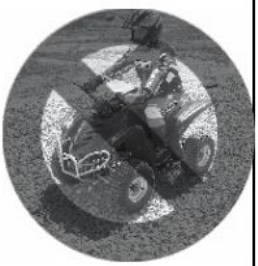
Removing your hands from the handlebar or feet from the footrests during operation could be hazardous.

If you remove even one hand or foot from the ATV, you could reduce your ability to control the ATV. This could cause you to lose your balance and fall off the ATV. If you remove a foot from a footrest, your foot or leg may come in contact with the rear wheels. This could injure you or cause an accident.

Always keep both hands on the handlebars and both feet on the foot rests of your ATV during operation.

⚠ WARNING

Failing to use extra care when operating on excessively rough, slippery, or loose terrain could be hazardous.



Failing to use extra care could cause loss of traction. This could result in an accident, including an overturn.

Do not operate under these conditions until you have learned and practiced the skills necessary to control the ATV on such terrain. Always be especially cautious on this kind of terrain.

⚠ WARNING

Failing to use extra care when operating this ATV on unfamiliar terrain could be hazardous.

You could come upon hidden rocks, bumps, or holes, without enough time to react. This could cause the ATV to overturn or go out of control.

Go slow and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the ATV.

SHIFTING

CAUTION

Always close throttle and pull in clutch lever when shifting gears.

Failure to close throttle and pull in clutch lever while shifting gears could cause damage to the engine and drive train.

CAUTION

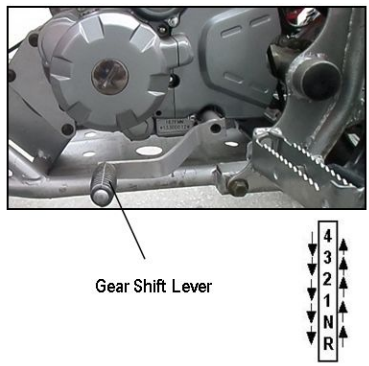
Do not coast for long periods of time with the engine not running, and do not tow the machine a long distance.

Even when the machine is in neutral, the gears are not properly lubricated unless the engine is running, Towing the machine with the engine not running could cause damage to the drive train.

Be sure to check for leaks in the gear case and keep oil up to the prescribed level.

This ATV has a 4 speed transmission with Reverse

To shift vehicle in neutral, hold clutch lever in and depress shift lever down until green neutral indicator light illuminates. If vehicle is in reverse the shift lever will need to be lifted once to shift in neutral.



To shift vehicle through gears 1-4

1.Release throttle lever.
2.Shift into first gear shift gear by holding in clutch lever and lifting up once on gear shift lever from neutral.
3.Open throttle gradually while releasing clutch lever. Once vehicle has reached adequate speed, release throttle, pull in clutch and lift up again on shift lever to shift into 2nd gear.
4.Open throttle gradually, repeat procedure for remaining gears. When slowing down or stopping, release throttle and apply brakes smoothly. As the ATV slows down shift to a lower gear by pulling in clutch lever and depressing the gear shift lever.

To shift vehicle into reverse.

1. While vehicle is stopped, pull in clutch lever and depress gear shift lever until red reverse light indicator illuminates.

⚠ WARNING

The ATV may start moving as soon as you release the parking brake.

Unexpected movement could cause you to lose control of the ATV.

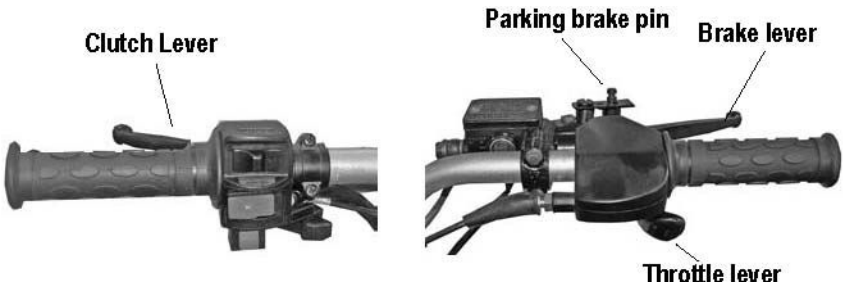
Make sure to apply brake while releasing parking brake.

⚠ WARNING

Opening the throttle suddenly could be hazardous.

The front wheels could leave the ground and cause loss of control of the ATV.

Always open the throttle gradually when accelerating.



Starting off

1.Release parking brake by pulling in brake lever and releasing pin . After parking brake is released, keep applying brakes until ready to start off
2.Pull in clutch and shift in first gear. Follow shifting instructions listed on previous page
3. Before releasing clutch and applying throttle, release front and rear brakes.

BRAKING

⚠ WARNING

Braking while turning the ATV could be hazardous.

Use of the brake when turning could cause the ATV to slide or roll over.

Use the brake to slow down before you begin to turn.

⚠ WARNING

Braking hard on slippery surfaces could be hazardous.

The ATV could skid and go out of control if you brake too hard.

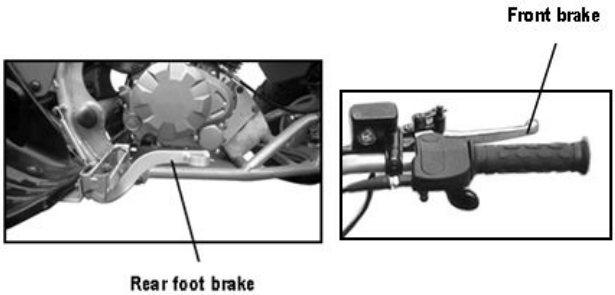
Apply the brakes lightly and carefully on slippery surfaces.

⚠ WARNING

Operating the parking brake when the ATV is moving could be hazardous.

The front wheels could lock causing a skid and an accident.

Apply parking brake only after ATV has come to a complete stop.



To stop ATV, release the throttle lever, pull in clutch and apply front and rear brakes smoothly.

TURNING

⚠ WARNING

Turning the ATV improperly could be hazardous.

If you turn the ATV improperly, it may cause a collision or overturn.

Always follow proper procedures for turning as described in this section. Practice turning at low speeds before attempting to turn at faster speeds. Never turn at excessive speeds.

To turn the ATV, the rider must use the proper technique. Because this vehicle has a solid rear axle, both rear wheels always turn at the same speed. This means that if the rear wheels are getting equal traction, the vehicle will tend to move straight ahead. This is because the rear wheels will travel the same distance. For the vehicle to turn, the outside rear wheel must travel a longer distance that the inside rear wheel. To make this happen, the rider must create less traction for the inside wheel, allowing it to skid. This allows it to travel a shorter distance than the outside wheel. This happens even though both wheels are still turning at the same speed.

<u>To turn ATV, use the following technique</u>:

- **Move your body weight forward and to the inside of the turn.**
- **Turn the handlebar while looking in the direction of the turn.**

FOR HIGHER SPEEDS OR SHARPER TURNS

Use the same technique that you use when you move your body weight farther toward the inside of the turn to maintain your balance. Natural turning forces (which can push the vehicle to the outside of the turn) increase as the speed or the turn sharpness increases. This means you must lean your body farther into the turn as you go faster or turn more sharply. This prevents the vehicle from tipping over to the outside of the turn. If your ATV starts to tip while turning, lean your body farther into the turn while gradually reducing the throttle and making the turn wider, if possible.

SKIDDING OR SLIDING

⚠ WARNING

Skidding or sliding improperly could be hazardous.

You may lose control of your ATV when you regain traction unexpectedly. This may cause the ATV to overturn.

Learn to safely control skidding or sliding by practicing at low speeds and on level, smooth terrain.

On extremely slippery surfaces, such as ice, go slow and be very cautious in order to reduce the chance of skidding or sliding.

You may experience skidding or sliding when you are not braking. You may be able to overcome it by using the techniques listed below.

<u>If your front wheel skids</u>:
Gain front wheel traction by reducing the throttle opening and leaning your body slightly forward.

<u>If your rear wheel skids</u>:If space permits, steer in the direction of the skid. Shift your body away from the skid slightly. Avoid using the throttle or brakes until you regain directional control of the vehicle.

OPERATION ON HILLS

CLIMBING A HILL

⚠ WARNING

Climbing hills improperly could be hazardous.

Climbing hills improperly could cause loss of control or cause the ATV to overturn.

Always follow the proper procedures for climbing hills as described in this section. Always check the terrain carefully before you start up any hill.

Never climb hills with excessively slippery or loose surfaces.

Shift your body forward.

Never open the throttle suddenly. The ATV could flip over backwards.

Never go over the top of any hill at a high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.

OK

⚠ WARNING

Operating this ATV on excessively steep hills could be hazardous.

The ATV could overturn more easily on extremely steep hills than on level surfaces or small hills.

Never operate the ATV on hills which are too steep for the ATV or for your abilities. Practice on smaller hills before trying larger hills.

To climb a hill with the ATV, follow the directions below.

1. **Speed up and maintain a steady speed before reaching the top of the hill. Remember that you must ride at a steady speed all the way to the top of the hill.**
2. **Shift your body forward by sliding forward on the seat. Lean slightly forward. For steep hills, stand on the footrests and lean forward.**
3. **Maintain a steady speed while climbing the hill.**
4. **Slow down gradually when you reach the top of the hill.**

⚠ WARNING

Stalling, rolling backwards or improperly dismounting the ATV while climbing a hill could be hazardous.

The ATV could overturn if you do not climb a hill properly.

Maintain a steady speed when climbing the hill. Always follow the proper procedures for climbing hills as described in this section.

Never attempt climbing a hill if there is a possibility of not making it to the top.

If you climb a hill and are unable to make it to the top, use one of the correct procedures described below to get back down the hill. Never attempt to turn an ATV around on a steep hill, doing so could cause the ATV to overturn.

⚠ WARNING

Attempting to turn an ATV around on a steep hill while climbing could cause the ATV to roll over which could result in severe injury or death

The ATV could overturn if you try to turn around on a steep hill.

Follow proper procedures listed in this section for backing down a steep hill if stalled.

If you lose forward momentum, or begin to roll backwards, follow these instructions.

1. **Lean uphill.**
2. **Never apply rear brake but use front brake.**
3. **Gradually back down the hill with body weight leaning forward while applying front brake. Use extreme caution when backing down a hill.**

If you still have forward movement and the hill is not steep and there is enough space to turn around safely, follow these instructions.

1. Turn around on hill before you lose forward momentum. As you turn on side of hill, lean your body weight uphill.
2. Once you have turned around, ride down hill as described in the DESCENDING A HILL section.

⚠ WARNING

Crossing hills or turning on hills improperly could be hazardous.

Crossing hills or turning on hills improperly could cause loss of control or overturn.

Never attempt to turn the ATV around on any hill until you have mastered the turning technique as described in the CLIMBING A HILL section. Practice this technique on level ground. Be very careful when turning on any hill. Avoid crossing the side of a steep hill if possible.

DESCENDING A HILL

⚠ WARNING

Going down a hill improperly could be hazardous.

Going down a hill improperly could cause loss of control or cause the ATV to overturn.

Always follow the proper procedures for going down hills as described in this section.

To ride down a hill with the ATV, follow the instructions below.

1. Check the terrain carefully for any obstacles before you go down the hill.
2. Point the ATV straight down the hill.
3. Transfer body to the rear by sliding back on the seat.
4. Ride down the hill slowly with the throttle released.
5. Apply the rear brake to control the speed.
6. Avoid going down a hill at an angle that would cause the vehicle to lean sharply to one side. Go straight down the hill if possible.

TRAVERSING A SLOPE

When traversing a slope, you should:

1. **Lean your body uphill.**
2. **Steer slightly uphill, if necessary, to maintain a straight course.**

RIDING OVER OBSTACLES

If you come to an obstacle that you cannot avoid, you may be able to cross over it by using the following procedure.

1. If the obstacle is in front of you, approach at walking speed.

2. Rise up slightly on the footrests.

3. Pull up on the handlebar and apply a little throttle as the front wheels reach the obstacle.

4. Lean forward and release the throttle after the front wheels are over the obstacle. Remember that some obstacles are too high for your ATV or for your abilities. If you are not sure that you can safely cross over an obstacle, back up and ride around the obstacle.

RIDING THROUGH WATER

⚠ WARNING

Operating this ATV over obstacles improperly could be hazardous.

Improperly crossing obstacles could cause loss of control or a collision. It could also cause the ATV to overturn.

⚠ WARNING

Operating this ATV through deep or fast flowing water could be hazardous.

The ATV tires may float losing traction and then loss of control. This could lead to an accident.

Never operate this ATV in fast flowing water or in water deeper than described in this section. Remember that wet brakes may reduce the stopping ability. Test your brakes after leaving the water. If necessary, apply the brakes several times to let friction dry out the linings.

CAUTION

Operating the ATV in water, sand, or mud causes rapid brake wear.

Excessive brake wear could cause the brakes to be less effective.

After repeated operation of the ATV in these conditions, bring it to your authorized service center to have the brakes inspected and cleaned.

You can ride the ATV through shallow water. Make sure it is not more than 10cm (4 inches) deep and is not moving fast. Choose a good place to cross before you ride through the water. Look for a spot where the banks are gently sloped on both sides and the bottom of the stream is hard. If you are unfamiliar with the area, park the ATV and inspect the stream first to find a suitable spot for crossing. When crossing, operate the ATV at a slow, steady speed. Be careful not to damage banks when crossing.

RIDING IN COLD WEATHER

⚠ WARNING

Operating the ATV without a properly functioning brake system could be hazardous.

Wet or frozen brakes will increase stopping distance. This will increase your chance of having an accident.

Be sure to inspect the brakes before riding the vehicle in cold weather as described.

Pre-ride Inspection

Check that the throttle and all control levers move freely. Make sure that the footrests are free of ice or snow.

Move the ATV forward and backward to check that the wheels roll freely. If you cannot move the ATV, the tires may be frozen to the ground, or the brakes may be frozen to the wheels. If the tires are frozen to the ground, pour warm water around them to melt the ice. If the brakes are frozen, bring the ATV to a warmer area to thaw out the brakes.

After the engine has warmed up, check the brakes. Do this inspection on level ground and do not exceed walking speed. Be sure to check the operation of both front and rear brakes. If the brakes do not work adequately, stop riding the ATV.

Bring the ATV to a warmer area to allow the brakes to thaw out. After the brakes thaw, dry them by applying them several times before riding. If the brakes do not regain full stopping power, ask your authorized service center to check them before you continue riding your ATV.

Water that enters the brakes may freeze after you park your ATV. The frozen water can prevent wheels from turning or the brakes from working. After riding through water, mud, snow or slush, it is important to dry the brakes before parking the ATV. To dry the brakes, apply them several times while riding slowly. Before your next ride, be sure to do a Pre-ride inspection as described earlier in this section.

DRESSING FOR COLD WEATHER RIDING

⚠ WARNING

Operating your ATV in cold weather without proper clothing could be hazardous.

Continued exposure in the cold weather could lead to Hypothermia. Hypothermia is a condition where your body's inner temperature drops low enough to cause injury or death.

Always dress for the worst weather conditions you might encounter. Be prepared for bad weather and ATV breakdowns.

⚠ WARNING

Wearing loose clothing when riding your ATV could be hazardous.

Loose clothing, such as a long scarf or shawl, could get caught in an ATV's moving parts.

Never wear loose clothing when riding your ATV.

Riding in cold weather can be hazardous. At a temperature of 10°F (-12°C), the wind chill created by going just 10 mph (16km/h) makes you as cold as if you were standing still at a temperature of -9°F (-23°C). At this temperature, exposed flesh will freeze in just a few minutes.

Continued exposure in the cold weather could lead to hypothermia. Hypothermia occurs when your body's inner temperature drops. Symptoms include numbness in the extremities (hands, feet, arms, and legs), and shivering. Damp clothing contributes to hypothermia because cold water on your skin will drain heat from your body's core.

We strongly recommend that if you do any cold-weather riding, that you familiarize yourself with the symptoms, treatment, and prevention of hypothermia. Information is available at libraries and through government agencies.

Plan your winter rides with safety and comfort in mind. Dress for the worst conditions you might encounter. Be prepared for bad weather and ATV breakdowns. Wear warm, water-resistant clothing such as thermal underwear, snowmobile suits, lined gloves, lined boots, and wool socks.

RIDING YOUR ATV ON SNOW AND ICE

⚠ WARNING

Riding on snow-covered terrain, even with care, could be hazardous.

Snow may cover rocks, holes, ice or other hazards that can cause loss of control. Severe injury or death could occur if you lose control of the ATV.

Go slowly and be careful when riding on snow-covered terrain. Always be alert to changing terrain conditions.

⚠ WARNING

Riding on a frozen lake or river could be hazardous.

Serious injury or death could occur if the ice breaks and you could fall into the cold water.

Check with local authorities to verify the thickness of the ice and areas to avoid.

⚠ WARNING

Failing to use extra care when operating on slippery surfaces such as hard-packed snow and ice could be hazardous.

Failing to use extra care could cause loss of traction or loss of vehicle control. This could result in an accident, including an overturn.

Do not operate on slippery surfaces until you have learned and practiced the skills necessary to control the ATV on such terrain. Always use extra care on slippery surfaces. Avoid riding on snow or ice covered hills whenever possible.

Practice riding your ATV in an open snow or ice covered area, at slow speeds, before handling out on snow- or ice-covered trails. Learn how your ATV responds to steering and braking on the type of terrain you will encounter on your ride.

Your eyes may be sensitive to sunlight when you ride over snow or ice on a bright, sunny day. Snow and ice reflects more light into your eyes than dirt or grass. Tinted eye protection will reduce the amount of light reaching your eyes. On overcast days, you may find it helpful to use yellow-tinted eye protection.

ACCESSORY USE AND VEHICLE LOADING

⚠ WARNING

Operating this ATV with improper modifications could be hazardous.

Improper installation of accessories or modifications of the vehicle may cause changes in handling which could lead to an accident.

Never modify the ATV with improper installation or use of improper accessories. All parts and accessories added to the ATV should be genuine parts or their equivalent designed for use on this ATV. Install and use them according to their instructions. If you have any questions, contact your dealer.

There are many types of accessories for sale. However, we cannot have direct control over their quality or suitability. We cannot test each accessory that is available. If you add the wrong accessories or misuse the vehicle with some accessories installed, it can make the ATV unsafe to ride.

Be cautious when choosing and installing accessories to your vehicle. Your retailer may be able to help you choose accessories and install them correctly. The guidelines below should help you to decide how to equip your ATV and how to use it correctly when you use accessories.

Accessory Use and Vehicle Loading Guidelines

1. **The combined weight of the rider, tools, and any accessories or cargo must never exceed the vehicle's load capacity of 331 lbs. (150Kg)**
2. **Check accessory mounting brackets and other attachments to make sure they provide a rigid non-movable mount.**
3. **Accessories added to the handlebar of the ATV should be as light as possible. The extra weight would cause the vehicle to be harder to steer.**
4. **Do not add accessories or cargo which interferes with controls or other equipment.**
5. **Do not carry heavy or bulky cargo.**
6. **Distribute cargo weight evenly between the front and rear of the vehicle as well as both sides of the vehicle. Locate cargo weight as close to the center of the vehicle if possible.**
7. **Secure your load well. Shifting weight can affect your ability to handle the vehicle safely.**
8. **Ride at slow speeds and avoid hills when carrying cargo. Carrying loads would affect the stability and handling of your ATV.**
9. **Allow enough stopping distance. Stopping distance increases if you carry loads. Use engine braking as much as possible.**

TORNADO250 WEIGHT LIMIT

Never exceed the weight limit shown

Total weight limit is 331 lbs (150 Kg) this limit includes rider and accessories

INSPECTION AND MAINTENANCE

⚠ WARNING

Improper maintenance or failing to perform recommended maintenance could be hazardous.

If you perform improper maintenance or do not maintain your ATV you may have an accident.

Keep your ATV in good condition. Ask your authorized service center or a qualified mechanic to do the maintenance items marked with an asterisk (*) .You may perform the unmarked maintenance items by referring to the instructions in this section if you have mechanical experience. If you are not sure how to do the maintenance ask your authorized service center or call Rickr Power Sports LLC

CAUTION

If you use your ATV under severe conditions, it will need maintenance more often than shown in the chart.

Operating your ATV under severe conditions causes more wear on your ATV.Severe conditions include operating under frequent full throttle, or in dusty,wet, sandy, or muddy areas. These conditions could cause the ATV to wear more quickly.

Perform maintenance more often than shown in the chart. If you have any questions regarding maintenance intervals, consult your authorized service center or call Ricky Power Sports LLC.

CAUTION

Using poor quality replacement parts could damage your ATV.

Poorly-made replacement parts could cause your ATV to wear more quickly and shorten its useful life.

When replacing parts on your vehicle, use only genuine replacement parts or their equivalent.

It is very important to inspect and maintain your ATV regularly. Follow the guidelines in the chart. The intervals between periodic services in months are shown. At the end of each interval be sure to perform the maintenance listed.

Item	Initial 1 months	Initial 3 Months	Every 3 Months	Every 6 Months
Air Cleaner	I		C	I
Exhaust pipe bolt and muffler bolt	T	C	C , T	T
Air Filter	I Every 20 - 40 hours (more often in dusty areas)			
Carburetor		I		I
Cylinder head breather hose			C	I
Spark plug			I	
Idle speed	I		I	
*Fuel hose	I	I		I
Engine Oil	R			R
**Brake Fluid level	I	I	I	
Brake Hose and joints		I	I	
Drive chain	Inspect at each use	I		I
Brakes	I	I	I	
Clutch	I	I	I	
Wheels	I			I
Wheel bearings	I			I
Brake caliper linings	I	I	I	
Front and rear suspension				I
Steering system	I	I	I	
Steering shaft lubrication (use Li grease)				L

***Replace every 4 years **Replace every 2 years**

I=Inspect and clean, adjust, lubricate or replace, if necessary. C=Clean R=Replace T=Tighten

TOOLS

SPARK PLUG

CAUTION
Failing to use the proper spark plug could damage your ATV. An improper spark plug may have an incorrect fit or heat range for your engine. This may cause severe engine damage which may not be covered under warranty. Use only spark plug recommended for this engine. Call Ricky Power Sports LLC, if you are not sure which spark plus is correct for you vehicle.

Your ATV is equipped with a D8RTC spark plug. To determine if the standard spark plug is in good condition, check the color of the plug's center electrode insulator after vehicle operation. A brown color indicates that the plug is correct. A white or dark insulator indicates that the engine may need adjustment, or another plug type may be needed. Consult your authorized dealer or Ricky Power Sports, LLC if your plug insulator is not a light brown color.

NOTE: This ATV uses resistor-type spark plug to avoid jamming electronic parts. Improper spark plug selection may cause electronic interference with your ATVs ignition system, resulting in the vehicle performance problems. Use recommended spark plugs.

To install a spark plug turn it in as far as possible with your fingers, then tighten it with a wrench.

CAUTION

Improper installation of the spark plug could damage your ATV.

An overly tight or cross threaded spark plug will damage the aluminum threads of the cylinder head.

Carefully turn the spark plug by hand into the threads. If the spark plug is new, tighten it with a wrench about ½ turn past finger tight. If you are reusing the old spark plug, tighten it with a wrench about 1/8 turn past finger tight.

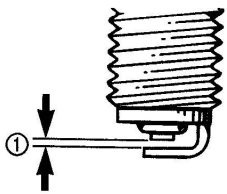
CAUTION

Dirt could damage your ATV if it entered an open spark plug hole of cylinder head.

Dirt could damage engine parts that move.

Cover the spark plug hole while the spark plug is out of the hole.

Plug type D8RTC



To maintain a proper functioning spark plug, keep the plug free of carbon. Remove carbon from the plug with a wire or pin, and adjust the gap to 0.24 -0.28 inch (0.6~0.7mm) for good ignition. Use a thickness gauge to check the gap.

BATTERY INSTALLATION

INITIAL SERVICE AND INSTALLATION OF BATTERY:

Eye Protection

Rubber Gloves

⚠ WARNING

The following procedure is very dangerous and should be performed with the utmost care and attention. Wear protective eyewear, rubber gloves, and have water available should electrolyte come in contact with skin or eyes. KEEP ALL CHILDREN AWAY FROM THE AREA WHILE THIS PROCEDURE IS BEING PERFORMED.

POISON – CAUSES SEVERE BURNS
Contains sulfuric acid.
Avoid contact with skin, eyes, or clothing
To prevent accidents, rinse empty container with water.

ANTIDOTE:
External – flush with water
Internal – Call physician immediately. Drink large quantities of water or milk.
Follow with milk of magnesia, beaten eggs or vegetable.
Eyes – Flush with water for 15 minutes and get prompt medical attention.

KEEP OUT OF REACH OF CHILDREN.

Note: The following page is for vehicles with battery's containing separate electrolyte pack.

Preparing the battery:

· Place battery on level surface. Remove cap strip from top of battery. (see figure 20)

igure 20

.Wear eye protection and rubber gloves for this step. Once battery strip is removed, locate electrolyte in bottle and place over the six openings. Press firmly down on bottle allowing the battery to pierce the six in-line openings in bottle. Let electrolyte drain into battery until bottle is completely empty. (see figure 21)

Figure 21

- **Discard empty electrolyte container in a waste area that is inaccessible to children and animals.**

- **After filling let battery stand for at least 30 minutes before charging. This allows the electrolyte to penetrate plates for optimum performance and ensures longer battery life.**

Figure 22

- **After 30 minutes the battery is ready for its initial charge. Place caps loosely over battery cell holes (see figure22)**

How to Initially Charge the battery:

Figure 24

1. Connect the red positive (+) cable to the red positive (+) pole of the battery. (see figure 24)

2. Connect the black negative (-) cable to the black negative (-) pole of the battery. (see figure 25)
Note: The red positive (+) cable has a larger diameter than the black negative(-) cable.

Figure 25

3. Charging rate: Charge battery @ 0.7 Amps for 5 ~ 10 hours.

- After charging is complete, install securely all six battery caps (see figure 26)
- Install battery into battery tray located under seat (see figure 27).
- Once battery is firmly seated in tray, attach red positive (+) wire to positive (+ terminal on battery, then attach black negative (-) wire to negative (-) terminal on battery (see figure 27) .

Figure 26

Figure 27

+

Battery Replacement:

⚠ WARNING

- DO NOT open sealed caps to add water to battery.
- Always wear safety glasses and charge in a ventilated area.
- If battery gets hot to the touch, discontinue charging and allow battery to cool down.
- Do not use fast charging unless it is an emergency.
- At the beginning or end of charging, turn off the charger first, in order to prevent electric spark and explosion.
- Charge in a well ventilated area.
- DO NOT smoke around batteries and keep away from open flame.

⚠ WARNING

- To avoid possibility of explosion, always connect battery cable in the order specified: RED first; BLACK last. An exploding battery can cause serious injury or death.
- Batteries contain sulfuric acid.
- Always shield eyes with protective eye-wear when working around battery acid.
- Battery acid is poisonous and can cause severe burns.
- DO NOT smoke around batteries and keep away from open flame.

- Remove old battery. Mark which cable is connected to the positive terminal (+) and which cable is connected to the negative (-) terminal.
- Clean cable connectors with wire brush or sandpaper to remove oxidation.
- After charging, install new battery. Put dielectric grease on the battery terminals to avoid corrosion. Connect cables to the proper terminals. Positive (+) red cable to positive (+) terminal and negative (-) cable to negative (-) terminal .
- Positive (+) cable is red .Negative cable is black. CONNECT NEGATIVE CABLE LAST.

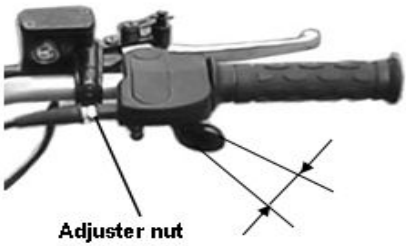
THE ADJUSTMENT OF THROTTLE LEVER

⚠ WARNING

Operating the vehicle with an inadequate throttle lever free distance could be hazardous.

Inadequate throttle lever free distance could cause engine speed to rise suddenly when you turn the handlebars. This can lead the rider to lose control.

Adjust the throttle lever free distance so that engine idle speed does not rise due to handlebar movement.



To adjust the throttle lever play:

1. **Loosen adjuster nut and move adjuster in or out to obtain the correct play.**
2. **Tighten adjuster nut**
3. **Recheck the throttle lever free distance. Readjust it if it is not within the correct limits.**

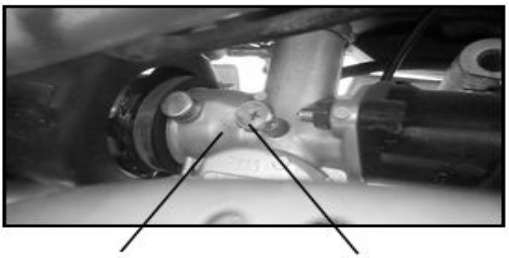
IDLE SPEED ADJUSTMENT

⚠ WARNING

Improper adjustment of the idle speed could be hazardous.

An idle speed that is too high could cause the ATV to launch forward when you start the engine. This may cause an accident. Excessive engine wear may also result if idle speed is adjusted improperly or when the engine is not fully warmed up. Adjust the idle to the correct speed. Make sure the engine is fully warm before adjusting the engine idle speed.

To adjust the idle speed properly, you need a tachometer. If you do not have one, ask your authorized service center to perform this adjustment.



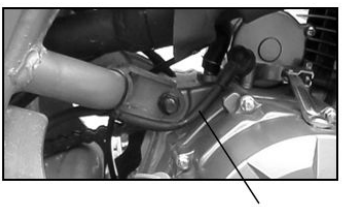
To adjust the idle speed:

1 **Start the engine and warm it up.**

2 **Turn the throttle stop screw in or out so that the engine idle speed is at 1500+/-150r/min.**

FUEL HOSE

Inspect the fuel hose for damage and fuel leakage. If any defects are found, the fuel hose must be replaced.



ENGINE OIL

⚠ WARNING

New and used oil could be hazardous.

Children and pets may be harmed by swallowing new or used oil. Continuous contact with used oil can cause skin cancer in laboratory animals. Brief contact with the used oil may irritate the skin.

Keep new and used oil away from children and pets. To minimize your exposure to used oil, wear a long-sleeve shirt and moisture-proof gloves (such as dish washing gloves) when changing oil. If oil contacts your skin, wash thoroughly with soap and water. Launder any clothing or rags if wet with oil. Recycle or properly dispose of used oil.

CAUTION

Failure to use the correct oil could harm your ATV.

Be sure to use the oil specified in the FUEL AND OIL RECOMMENDATION section.

CAUTION

Running the engine without an adequate amount of engine oil could cause severe engine damage.

Running the engine without any engine oil could cause engine overheating.

Always check the amount of engine oil before starting the engine.

Checking and Changing engine oil Oil Filter Screen removal and cleaning

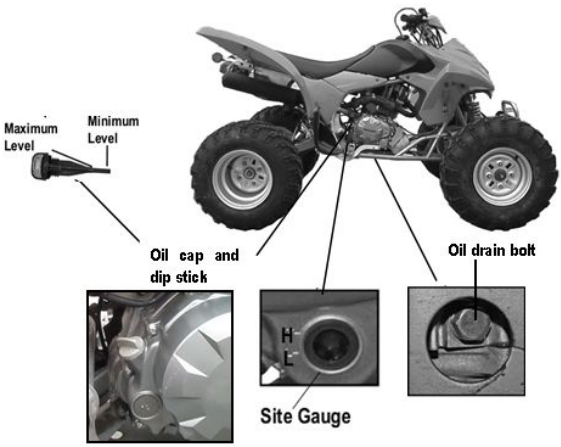
The engine oil should be checked before every ride and changed every 20 to 40 hours of operation. It should be changed more often in dirty and dusty areas.

To check oil:

1. Park vehicle on level ground.

2. Check oil level on site gauge and/or dip stick. If oil is low, add oil until Maximum level is noted on dip stick and/or site gauge.

To change oil:



1. **Remove oil dip stick cap.**
2. **Remove drain bolt under engine and drain oil into proper container.**
3. **Remove oil filter plug and oil filter screen located on bottom left side of engine. Clean screen with solvent**
4. **Re-install oil drain bolt and oil filter plug.**
5. **Pour fresh oil of the specified type through the oil fill hole.**
   NOTE: Approximately 900ml (1 Qt) of oil is required.
6. **Tighten oil cap, and check oil level on dip stick.**
7. **Dispose of used oil at a reclaim facility.**

AIR FILTER

⚠ WARNING

Operating the engine without the air cleaner element in place could be hazardous.

If the air cleaner element did not filter dirt, severe engine damage would occur if the dirt entered the running engine.

Never run the engine without the air cleaner element in place.

CAUTION

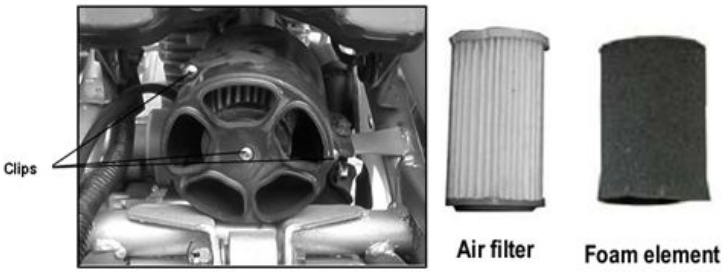
Failing to inspect the air cleaner element frequently if the vehicle is used in dusty, wet, or muddy conditions could damage your ATV.

The air cleaner element could become clogged under these conditions, and engine damage may result.

Always check the air cleaner element after riding in severe conditions. Clean or replace the elements as necessary. If water gets in the air cleaner case, immediately clean the element and the inside of the case.

The air cleaner element must be kept clean to provide good engine power. If you use your vehicle under normal, low-tension conditions, you should service the air cleaner at the intervals specified. If you ride in dusty, wet, or muddy conditions, you will need to inspect the air cleaner element much more frequently. Use the following procedures to remove the element and inspect it.

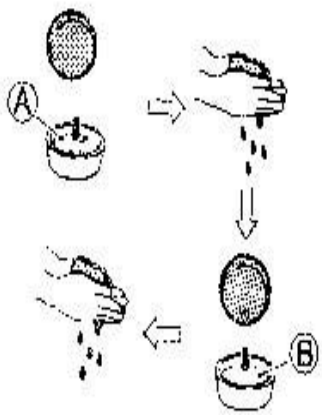
AIR FILTER REMOVAL



1 Locate Air Filter box under seat of ATV
2 Remove air filter by undoing clips from filter box cover
3 Remove air filter and foam element from filter box.
4 Tap Air filter gently to remove dust and dirt. Gently blow out remaining dust with compressed air. If air filter is damaged, replace it.
1 Wash foam element cover per instructions below.
2 Reinstall foam cover to air filter element.
3 Reinstall air filter then clip air filter box lid back in place

WASHING AIR FILTER

<u>Wash foam element per instructions</u>:



1. Fill a washing pan large enough to hold the element with a nonflammable cleaning solvent. Immerse element in the solvent washing it.

2. Squeeze the element by pressing it between the palms of both hands to remove excess solvent (A). Do not twist or wring the element or it will develop cracks.

3. Immerse the element in another pan filled with Air filter oil (B). Squeeze the element to remove excess oil. Make sure that the element remains damp with oil (but not soaked).

CAUTION

A torn air filter could damage your ATV.

Dirt and dust may get inside of the engine if the element is torn.

Examine carefully the element for tears before and after cleaning it. Replace the element with a new one if it is torn.

⚠ WARNING

Oil and solvent could be hazardous.

Children and pets could be harmed from the oil and solvent.

Be sure to keep oil and solvent away from children and pets. Dispose of used oil and solvent properly.

CAUTION

Failing to position the air cleaner element properly could damage your ATV.

Air will bypass the air cleaner element if the element is not positioned properly. This will cause the engine parts to wear more rapidly.

Be sure to position the air cleaner element properly.

DRIVE CHAIN/SPROCKETS

⚠ WARNING

Failing to maintain the chain properly before each riding could be hazardous.

Riding with the chain in poor condition could lead to an accident.

Be sure to inspect and maintain the chain before riding, according to these guidelines.

The condition and adjustment of the drive chain should be checked before riding. Always follow the guidelines below for inspecting and servicing the chain.

Inspecting the Drive Chain

When inspecting the chain, look for the following:

· Loose pins

· Damaged rollers

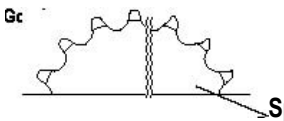
· Dry or rusted links

· Kinked or binding links

· Excessive wear

If you find anything wrong with the drive chain, solve the problem by repairing or replacing the chain. If necessary, consult your authorized service center.

If it is determined the drive chain is damaged, check the sprocket also for damage. A worn chain can have an adverse affect on the front and rear sprockets.
When inspecting the sprockets, look for the following:



· Excessively worn teeth

· Broken or damaged teeth

· Loose sprocket mounting nut(s)

If you find any of these problems with your sprocket, consult Richy Power Sports LLC or your local service center.

DRIVE CHAIN CLEANING, OILING AND ADJUSTING

Clean and oil the chain as the following:

1 Wash the chain with water.
2 Dry the chain, and then oil the links with Chain lube or equivalent.

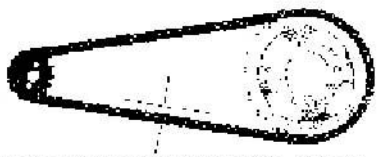
⚠ WARNING

Failing to inspect the drive chain slack before each use of the ATV could be hazardous.

Too much chain slack could cause the chain to come off the sprockets, resulting in an accident or serious damage to the ATV.

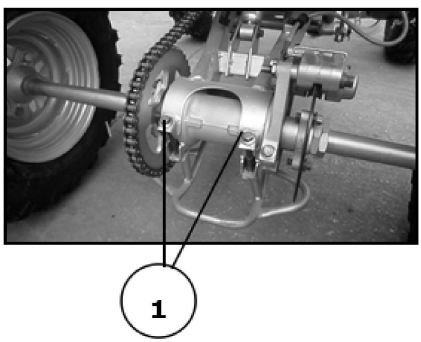
Inspect the drive chain slack before each use.

Adjusting the Drive Chain



The drive chain should be adjusted making sure there is 20~30 mm (0.8~1.2 inches) of slack. as shown above.

1 Loosen bolts (1)
2 When proper slack is obtained tighten nuts (1)



TIRES

⚠ WARNING

Operating this ATV with improper tires, or even improper tire air pressure could be hazardous.

If you use improper tires or improper tire air pressure, you may lose control of the ATV.

Always use the size and type tires specified. Always maintain proper tire air pressure as described in this section.

⚠ WARNING

Using worn tires could be hazardous.

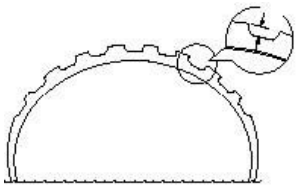
The traction of the vehicle will be decreased. This increases your risk of having an accident.

Replace the front and rear tires when the depth on the tread is 4.0 mm (0.16

The ATV is equipped with low pressure tubeless tires of the size and type listed below:

	Front	Rear
Size	AT23X7-10	AT22X10-10

Tire Tread Condition



4.0 mm (0.16 inches)

Tire Air Pressure

Check the air pressure in all tires before riding. Improper air pressure would effect handling, steering response, traction, tire life and rider comfort. Be sure that the tires are inflated to the pressures shown. Tire pressure should only be measured or adjusted when the tires are cold.

Cold Tire Air Pressure	
Front	5psi（108kg/240lb）
Rear	5psi(210kg/300lb)

⚠ WARNING

Overfilling the air to the tires could be hazardous.

If you put too much air into the tire, the tire may burst causing severe injury.

Check the air pressure from time to time while gradually inflating the tire, until the specified air pressure is obtained.

⚠ WARNING

Using tires that have been installed incorrectly could be hazardous.

The ATV may have unusual handling if the tires are installed incorrectly.

The tires are intended to rotate in a specific direction, as indicated by the arrows on the sidewall of each tire. Install tires correctly so they rotate in the proper direction.

Tire Replacement:

Your ATV has low-pressure tubeless tires. Air is sealed by the contact surfaces of the inner wheel rim and the tire bead. If the inner wheel rim or tire bead is damaged, air may leak. Be extremely careful not to damage these sections when replacing tires.

It is very important to use the proper tools when repairing or replacing tires in order to protect the tire bead or wheel rims. Have this work done by your authorized service center or a qualified tire repair station.

When breaking the tire bead loose from the wheel, be extremely careful not to damage the inner wheel rim surface or the tire bead.

Tubeless Tire Repair:

If a leak or flat tire occurs due to a puncture, the tire may be repaired using a plug type patch. If the damage is from a cut, or if the puncture cannot be repaired using a plug, the tire should be replaced. When operating your ATV in areas here transportation or service facilities are not readily available, it is strongly recommended that you bring a plug type repair kit and a tire air pump with you.

BRAKING

⚠ WARNING

Failing to inspect and maintain your ATV's brake system properly could be hazardous.

Improper maintenance of the brake increases your chance of having an accident.

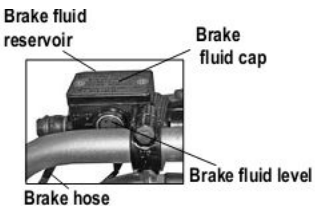
Be sure to inspect the brake before riding according to the INSPECTION BEFORE RIDING section. Always maintain your brakes according to the MAINTENANCE SCHEDULE.

⚠ WARNING

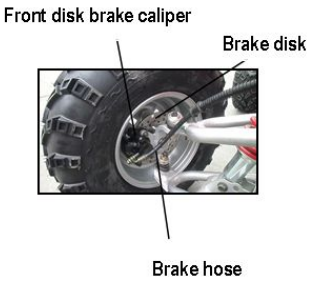
Operating the ATV in harsh conditions could be haza inspect brake wear often.

Operating in mud, water, sand, or other extreme con accelerated brake wear. This could lead to an accide

If you operate your vehicle under these conditions, t be inspected more often than recommended in the M SCHEDULE.



FRONT HYDRAULIC DISK BRAKE INSPECTIO



1. **Inspect the front disk brake caliper for leakage. If brake fluid leaks, the safety of riding could be affected.**
2. **Inspect the brake hose for cracks, and the joint for leakage.**
3. **Check the brake fluid level in the brake fluid reservoir, if level is low inspect brake pads for wear and hydraulic system for leaks.**
4. **To add brake fluid, unscrew the 2 screws on top of the bake fluid container. Add DOT3 or DOT4 brake fluid. Do not mix brake fluid types.**

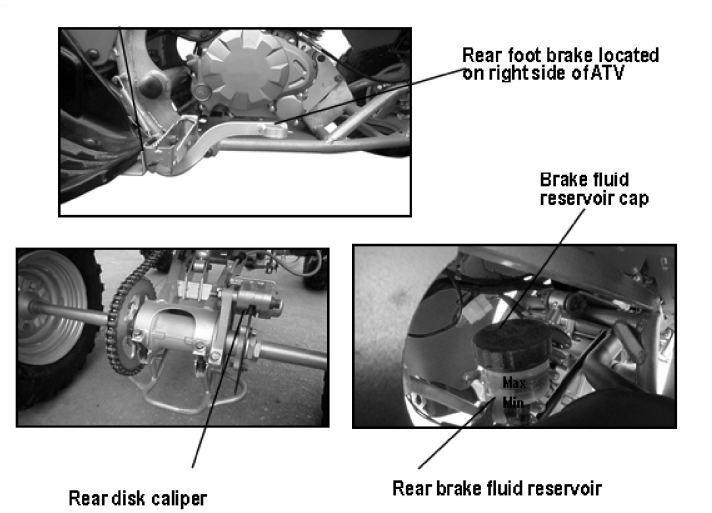
⚠ WARNING

Failing to maintain the brake shoes or pads could be hazardous.

Riding with worn brake shoes, pads, or shoes that are seriously worn, will increase your chance of having an accident.

If you need to replace brake shoe pads, have your authorized service center do the work. Inspecting and maintaining the brake shoe pads is recommended. Replace the shoe pads in sets.

REAR HYDRAULIC DISC BRAKE INSPECTION

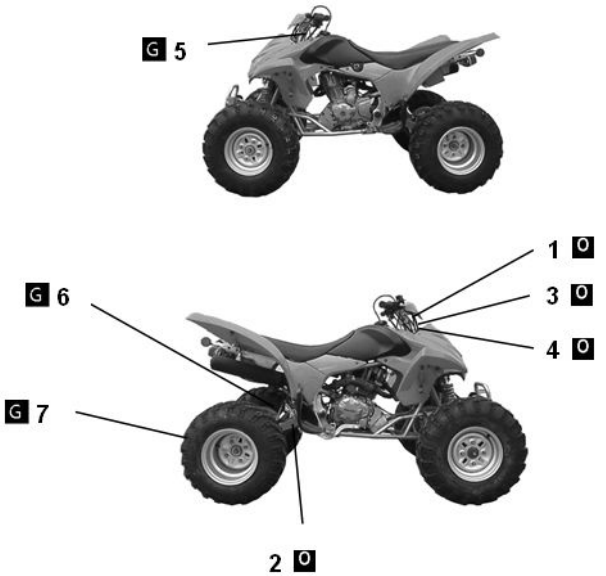


1. Inspect the rear disk brake caliper for leakage. If brake fluid leaks, the safety of riding could be affected.
2. Inspect the brake hose for cracks, and the joint for leakage.
3. Check the brake fluid level in the brake fluid reservoir, if level is low inspect brake pads for wear and hydraulic system for leaks.

4. To add brake fluid, remove top of the bake fluid container. Add DOT3 or DOT4 brake fluid. Do not mix brake fluid types.

GENERAL LUBRICATION

Proper lubrication is important for safe, smooth operation and long life of your vehicle. Be sure that all lubrication is performed during periodic maintenance on the vehicle. Increase intervals when you use your ATV in severe conditions. Your authorized service center should do general lubrication as shown in the MAINTENANCE CHART. The authorized service center will lubricate the vehicle such as wheel bearings, swing arm bearings, steering shaft holder, cables, etc.



O **……Oil** **G** **……Grease**

1 Brake cable 2 Drive chain 3 Throttle cable

4 Throttle lever 5 Steering bushing 6 Rear swing arm 7 Rear axle assembly

TROUBLESHOOTING

CAUTION

Failing to troubleshoot a problem correctly would damage your ATV. Improper repairs or adjustments may damage the vehicle. Such damage may not be covered under warranty. If you are not sure about the proper action, consult your authorized service center or Ricky Power Sports LLC. about the problem.

WARNING

Draining fuel from the carburetor could be hazardous. Fuel could catch fire if you do not handle it properly. When draining the carburetor, be sure to shut the engine off. Do not smoke, and never drain or refuel in an area where there are open flames or sparks. Do not spill the fuel or you may create a fire hazard. Dispose of drained fuel properly.

This troubleshooting guide is provided to help you find the cause of some common complaints.

COMPLAINT: Engine is hard to start or does not start at all. Something is probably wrong with the fuel system or ignition system.

Fuel Supply Check

1 Make sure there is adequate clean, new, fuel in the fuel tank.

2 Check that the engine stop switch is at the "RUN " position.

3 Check that the fuel valve is at the "ON" position.

4. Make sure there is enough fuel reaching the carburetor from the fuel tank.

a. Loosen the drain screw which is located under the carburetor. Drain fuel from the carburetor into a container.

b. Tighten drain screw.

c. Press start switch for a few seconds, allowing the engine to turn over for few seconds. Note: Do not push starter button for more the 5 seconds at a time, this could cause damage to the starter.

d. Loosen drain screw and check to see if carburetor is filled back up with fuel.

e. If fuel is reaching the carburetor, the ignition system should be checked next.

IGNITION SYSTEM CHECK

⚠ WARNING

Performing the spark test improperly could be hazardous.

You could get a high voltage electrical shock if you are not familiar with this procedure.

Do not perform this check if you are not familiar with the procedure. Do not point the spark plug near the spark plug hole during this test. Do not do this test if you have a heart condition or wear a pacemaker. Do not perform this test near any open fuel containers for near fuel which has

spilled on the ground, on engine, or any part of the ATV.

1 Remove the spark plug and reattach it to the spark plug lead.

2 Push the electric button "START ". Apply the rear brake lever to make sure the rear wheels are locked. If the ignition system is operating properly, a blue spark should jump across the spark plug gap. If there is no spark, take your machine to your service center.

COMPLAINT: Engine stalls

1 **Make sure there is enough fuel in the fuel tank.**

2 **Check to see that the spark plug is not fouled. Remove the spark plug and clean it. Replace, if necessary.**

3 **Make sure fuel valve and fuel tank outlet is not clogged.**

4 **Check idle speed. If necessary, adjust it using a tachometer. The correct idle speed is 1400~1600 r/min.**

TRANSPORTING

⚠ WARNING

Draining fuel from the carburetor could be hazardous.

Fuel could catch fire if you do not handle it properly.

When draining fuel from the carburetor, be sure to shut the engine off. Do not smoke, and never drain or refuel in an area where there are open flames or sparks. Do not spill the fuel or you may create a fire hazard. Dispose of the drained fuel properly.

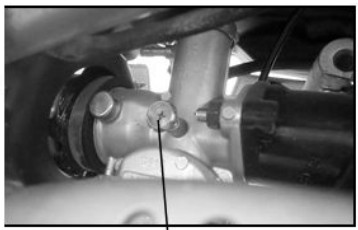
CAUTION

Failing to secure the ATV properly could be hazardous.

Failing to secure the vehicle properly may result in an accident or damage to the vehicle.

When transporting the ATV, lock the parking brake lever and tie down the vehicle securely with straps, rope, or some other suitable means.

It is best to transport the ATV in the normal upright position.



Carburetor drain screw

Before transporting the ATV make sure the fuel valve is turned to the "off" position then drain fuel from the carburetor as follows:

1 Drain fuel from carburetor into an empty container by loosening the carburetor drain screw.

2 When fuel has been drained, retighten drain screw.

CLEANING PROCEDURE

CAUTION

High pressure washers could damage your ATV.

High pressure washers such as those found at coin-operated car washes have enough pressure to damage the parts of your ATV. It may cause rust, corrosion and increase wear.

Do not use high pressure washers to clean your ATV.

A thorough cleaning of your ATV is a necessary part of maintenance. It will help keep your ATV looking and performing best. Proper cleaning can also extend the life of your ATV.

It is important to clean and inspect your ATV after every ride, especially if it is used in mud, brush, grass, water, salt water, or very dusty conditions

The build-up of mud, brush, grass, etc. especially on the engine and exhaust system, can reduce engine cooling ability, conceal damage, or increase wear of certain parts.

It is important to remove all debris during cleaning.

PREPARATION FOR CLEANING

Wash the ATV before any mud dries on the ATV.

Block or seal the end of the exhaust pipe (muffler) using a piece of plastic wrap, cloth rag or another method to prevent water from entering engine.

WASHING YOUR ATV

With some care, your ATV can be washed in a similar manner to washing an automobile.

Note: Avoid spraying or allowing water to flow over the following places:
1. Ignition switch

2. 2. Spark plug

3. Fuel tank cap

4 .Carburetor

Use a garden hose at low pressure to remove the majority of dirt or other debris. Hand wash your ATV with mild soap or detergent and water. Try to thoroughly remove all dirt and debris without excessive water pressure, even at remote areas such as between engine cooling fins, linkages or mounting brackets. Cloth rags, washing mitts or cleaning brushes can be used. Be careful with brushes as they may scratch plastic or painted surfaces. Rinse the ATV thoroughly with clean water. Dry all areas using a chamois or soft absorbent cloth.

INSPECTION AFTER CLEANING

⚠ WARNING

Operating the ATV with wet brakes could be hazardous.

Wet brakes may not provide as much stopping power as dry brakes. This could lead to an accident.

Test your brakes after washing the ATV, riding at a slow speed. If necessary, apply brake several times to let the friction dry out the linings.

Remove the rags or wrapping from the exhaust pipe. For extended life of your ATV, lubricate according to GENERAL LUBRICATION section.

Follow the procedures in the INSPECTION BEFORE RIDING section to check your ATV for any problems that may have occurred during your last ride.

STORAGE PROCEDURE

If you do not use your ATV for an extended period, it will need special service requiring appropriate materials, equipment and skill. For this reason, we recommend that you trust this maintenance work to your authorized service center. If you wish to service the machine for storage yourself, follow the general guidelines below:

VEHICLE

Place the vehicle on level ground and wash the entire vehicle.

FUEL

⚠ WARNING

Draining the fuel could be hazardous.

Fuel could catch fire if you do not handle it properly.

When draining the fuel from the fuel tank, be sure to shut the engine off. Do not smoke, and never drain fuel in an area where there are open flames or sparks. Keep pets and children away from the fuel, and dispose of the drained fuel properly.

Drain fuel from the fuel tank by a hand pump. Drain the fuel from the carburetor by releasing the carburetor drain screw.

TIRES

Inflate tires to the normal pressure.

EXTERNAL

1 **Spray all vinyl and rubber parts with rubber protection.**
2 **Spray unpainted surfaces with rust preventative.**
3 **Coat painted surfaces with car wax.**

PROCEDURE FOR RETURNING TO SERVICE

1 **Clean the entire vehicle.**
2 **Make sure that the vehicle is properly lubricated.**
3 **Perform the INSPECTION BEFORE RIDING as listed in this manual.**
4 **Start the vehicle as outlined in this manual.**

SERIAL NUMBER LOCATION

You need to know the frame and engine serial numbers to get title documents for your ATV. You also need these numbers to help your authorized service center or Ricky Power Sports LLC. order parts.

The frame/VIN number is stamped on the front of the frame as shown in the photograph. The engine serial number is stamped on the left side of the crankcase.

Frame/VIN number

Engine serial number

Frame No.:

Engine No.:

SPECIFICATIONS

Tornado250 ATV DIMENSIONS AND DRY MASS

Overall length.....1820mm
Overall width..... ..1200m
Overall height.....1120mm
Wheelbase (Front & Rear)..... 1240mm
Ground clearance.....180mm
Seat height.....810mm
Dry weight 163kg
Weight limit.....150kg

ENGINE

Type.....Four stroke, air cooled

Number of cylinders.....1

Bore X Stroke.....6.7cm x 6.5cm
Displacement.....229cc
Corrected Compression ratio.....9.2:1

Related power.....10.2Kw(7000r/min)
Related torque.....15.5N.m (5500r/min)
Idle Speed.....(1500 ± 150) r/min

TRANSMISSION Transmission Type.....4 - speed , Reverse

ELECTRICAL

Ignition type.....CDI

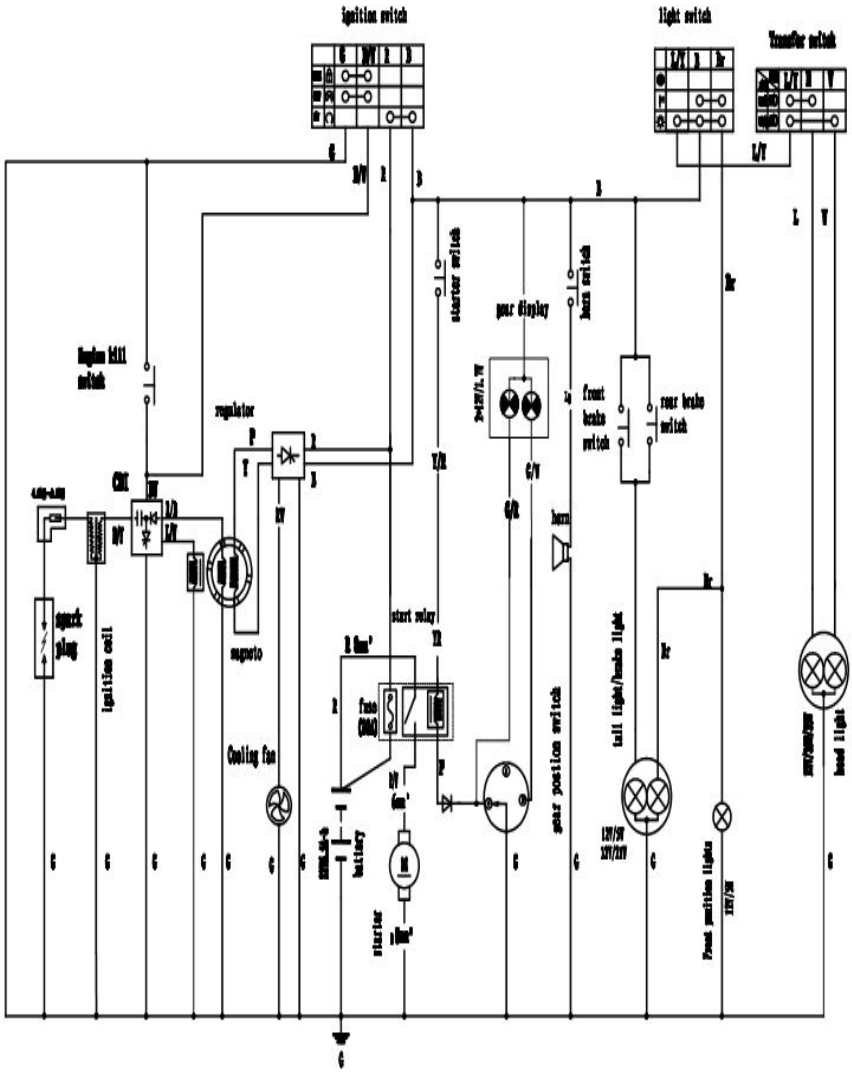
Battery voltage, capacity.....12V 9AH
Spark Plug.....TORCH D8TRC

FUEL/Oil Main fuel tank
capacity.....12L
Oil capacity.....1L

BRAKES Front brake type.....Hydraulic disc
brake Operation.....Right hand operation
Rear brake type.....Hydraulic disc
brake Operation.....Right foot operation

TIRES Size
Front.....AT23x7-10
Size Rear.....AT22x10-10

TORNADO250 ATV WIRE DIAGRAM



Ricky Power Sports, LLC. – EMISSION CONTROL SYSTEM WARRANTY

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The emission control system warranty period for this vehicle begins on the date the vehicle is delivered to the first purchaser other than an authorized dealer, or the date it is first used as a demonstrator, lease, or company vehicle, whichever comes first and continues for 30 months after that date, or 5,000km, whichever comes first, provided there has been no abuse, neglect or improper maintenance of your vehicle. Where a warrantable condition exists, Ricky Power Sports, LLC will repair your vehicle at no cost to you, including diagnosis, parts and labor. If an emission-related part on your vehicle is defective, the part will be repaired or replaced by the Ricky Power Sports, LLC. This is your emission control defects warranty.

OWNER'S WARRANTY RESPONSIBILITIES

As the vehicle owner, you are responsible for the performance of the required maintenance. You should maintain a record of all maintenance performed on your vehicle and retain all receipts covering maintenance on your vehicle. You may not be denied a warranty claim solely because of your failure to ensure the performance of all scheduled maintenance or lack of maintenance records or receipts. You are responsible for presenting your vehicle to an authorized dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

As the vehicle owner, you should be aware that you may be denied your warranty coverage if your vehicle or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications.

WARRANTY COVERAGE

Ricky Power Sports, LLC warrants that each new 2015 and later vehicle:

• is designed, built, and equipped so as to conform at the time of initial retail purchase with all applicable regulations of the United States Environmental Protection Agency; and

• is free from defects in material and workmanship which cause such vehicle to fail to confirm with applicable regulations of the United States Environmental Protection Agency for the periods specified above. Your emission control system warranty covers components whose failure would increase an engine's emission,

including electronic controls, fuel injection system, carburetor, the ignition system, catalytic converter, or any other system utilized in this vehicle to control emission if it is originally equipped. Also included may be hoses, connectors and other emission-related assemblies. Replacing or repairing other components (including parts, labor, and other costs) not covered by this emission control system warranty or the standard warranty is the responsibility of the owner.

Coverage of repairs under this warranty applies only when repairs are completed at an authorized dealer or repair facility. Ricky Power Sports, LLC will not cover repairs performed outside of an authorized dealer or repair facility.

The use of replacement parts not equivalent to the original parts may impair the effectiveness of your vehicle's emission control system. If such a replacement part is used and an authorized dealer determines it is defective or causes a failure of a warranted part, your claim for repair to bring your vehicle into compliance with applicable standards may be denied.

This Emission Control System Warranty is in addition to the standard Limited Warranty.

EXCLUSIONS AND LIMITATIONS

This warranty does not cover the following:

• Failures or malfunctions of the emission control systems caused by abuse, alteration, accident, misuse, the use of leaded gasoline.

• Replacement of expendable maintenance items unless they are original equipment defective in material or workmanship under normal use, and the first required replacement interval for the item has not been reached. Expendable maintenance items include but not limited to spark plugs, filters, coolant, lubricants, gaskets, hoses, and belts.

• Replacements of parts and other services and adjustments for required maintenance.

• Any vehicle equipped with an odometer or hour meter where the reading is altered so that actual mileage cannot be readily determined.

• Repairs or replacements as a result of:

o Accident

o Misuse

o Use of replacement parts or accessories not conforming to the original specifications which adversely affect performance

• Physical damage, corrosion, or defects caused by fire, explosions or similar causes beyond the control of the Distributor.

• Failures not caused by a defect in material or workmanship.

Use of the vehicle in any type of competitive racing or related events immediately and completely voids this and all other warranties.

LIMITED LIABILITY

The liability of Ricky Power Sports, LLC under this Emission Control System Warranty is limited solely to the remedying of defects in material workmanship by an authorized dealer at its place of business during customary business hours. This warranty does not cover inconvenience or loss of use of the vehicle or transportation of the vehicle to/from the authorized dealer. Ricky Power Sports, LLC is not liable to any person for incidental, consequential or special damages of any description, whether arising out of express or implied warranty or any other contract, negligence or other tort or otherwise.

No express emission control system warranty is given by Ricky Power Sports, LLC except as specifically set forth herein. Any emission control system warranty implied by law, including any warranty of merchantability or fitness for a particular purpose is limited to the express emission control system warranty terms stated in this warranty. The foregoing statements of warranty are exclusive and in lieu of all other remedies. All express warranties not stated in this warranty are disclaimed. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply if it is inconsistent with the controlling state law.

No dealer is authorized to modify this Emission Control System Warranty. If you have any questions regarding your warranty rights and responsibilities, you should contact Ricky Power Sports, LLC(+1 844-250-2199).

Ricky Power Sports, LLC.

2651&2653 Manana Drive,

Dallas, TX75220

Toll Free: 844-250-2199