

Owner's Manual

FOREWORD

Thank you for choosing the *Kolpin Powersports 180* as your all-terrain vehicle (ATV). This user manual was prepared with the comfort and safety of the rider in mind. It provides all the details necessary to safely operate and maintain your vehicle. Carefully read the manual before operating your *Kolpin Powersports* 180cc. If you have any questions regarding your ATV, contact your local *Kolpin Powersports* dealer for assistance. Keep the following information in mind while operating the ATV.

PROTECT YOUR SPORT

Know all local and state riding laws; Respect your vehicle; Respect the environment; and You will gain the respect of others.

You should strictly follow the maintenance program as outlined in this manual (see page 95). This preventive maintenance program is designed to ensure that your ATV is inspected on a regular schedule that will keep it operating at peak performance.

Illustrations and photos in this manual are general representations of parts having similar functions. Your model may differ so be sure to contact your dealer with questions.

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!!! INTRODUCTORY SAFETY MESSAGE TO OWNERS !!!

PARENTS & ADULTS MUST READ BEFORE OPERATION

AN ATV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE. An ATV handles differently from other vehicles including motorcycles and cars. A collision or rollover can occur quickly, even during routine maneuvers such as turning and driving on hills or over obstacles. YOU MUST TAKE PROPER PRECAUTIONS!

You should read the owner's manual and warning labels. Review this information on a regular basis.

Riders differ in skills, physical abilities, and judgment. Some riders may not be able to operate an ATV safely. Never allow anyone to operate an ATV without first reading the Owner's Manual, watching the instructional video, and attending a certified ATV Safety Training course. Never allow others to use your ATV if he or she does not have the abilities to operate it safely. MAKE CERTAIN THE OPERATOR(S) UNDERSTAND ALL WARNINGS AND THE OWNER'S MANUAL BEFORE OPERATION.

► PAY ATTENTION WHEN YOU SEE THE SYMBOLS BELOW ◆

A CAUTION

This is the safety alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

AWARNING

This symbol indicates a potential hazard that could result in severe injury or death. When you see this symbol on your machine or in this manual is means PAY ATTENTION! If you don't, you could get hurt very badly or even killed. Your safety is involved!

A CAUTION

Failure to follow the warnings contained in this manual can result in SERIOUS INJURY OR DEATH

ATTENTION OPERATOR!

This vehicle is designed and manufactured for off-road use only. Carrying passengers is prohibited. Always wear a helmet while operating ATVs.

- ➤ Read the Owner's Manual and all warning labels on the ATV carefully. Follow the operating procedures described.
 - **Training: Kolpin Powersports** strongly suggests new owners call the ATV Safety Institute (ASI a division of SVIA) to enroll in safety training or, visit their website *www.ATVSAFETY.org*.
 - Never operate an ATV without first reviewing this manual, watching the instructional video and taking a certified ATV Safety Training course.
 - Youth ATVs are designed and intended for use by children in the following age groups:
 - ATVs with engine sizes less than 50cc should be used only by persons ages 6 and older;
 - ATVs with engine sizes 51cc up to and including 90cc should be used <u>only</u> by persons age 12 and older;
 - ATVs with engine sizes greater than 90 cc should be used <u>only</u> by those persons age 16 and older.
 - No children under the age of 16 should operate any ATV designed and sold for an adult.
- Do not allow children to ride this ATV.

- Always inspect your ATV before you ride to make sure it is in safe operating condition. Follow the inspection and maintenance procedures and schedules as described in this manual.
- Always wear an approved helmet that fits properly. You should also wear eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket, and long pants.
- Never exceed your riding capabilities.
- Never consume alcohol, drugs or any medications that affect alertness before or while operating this ATV.
- Always keep both hands on the handlebars and both feet on the footrests of your ATV during operation.
- Never carry a passenger on an ATV.
- Always go slowly; be extra careful when operating on unfamiliar terrain. Be alert for changes in terrain, weather, and ATV operating conditions.
- Never operate on excessively rough, slippery or loose terrain.
- Avoid operating ATV on paved surfaces, including sidewalks, driveways, parking lots and streets.
- Avoid operating ATV on any public street, road or highway, even dirt or gravel ones.
- Avoid excessive speeds, sharp turns, and uneven terrain. Travel at speeds proper for the terrain, visibility and operating conditions, and your experience.
- Never ride during low light conditions.
- Never attempt wheelies, jumps or other stunts.
- 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 too steep for the ATV or for your abilities. Practice on smaller hills before attempting larger hills.

- Always follow 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 any hill at high speed.
- Always follows proper procedures for going down hills and for braking on hills as described in this manual. Check the terrain carefully before you start down any hill. Shift your weight backward. Never go down a hill at high speed. Avoid going down a hill at an angle that would cause the vehicle to lean sharply. Go straight down the hill wherever possible.
- Always follows proper procedures for crossing the side of a hill as described in this manual. Avoid 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, as described in this manual, if you stall or roll backwards when climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you lose all forward speed: Keep weight uphill. Apply the brakes. Lock the parking brake after you are stopped. Dismount on uphill side, or to either side of pointed straight uphill.
- Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as large rocks or fallen trees. If you cannot avoid large obstacles, use extreme caution when proceeding. The proper procedure for operating over obstacles is described later in this manual.
- Always be careful of 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 slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.

- Avoid operating the ATV through deep or fast flowing water. If you cannot avoid water which exceeds the height of the bottom of the footrest, go slowly, balance your weight carefully avoiding sudden movements, maintain a slow and steady forward motion, do not make sudden turns or stops, and do not make sudden throttle changes. Remember that your brakes may be wet.
- Wet brakes have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the pads.
- Always use size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual. (See page 97).
- Never modify an ATV through improper installation of and/or use of accessories.
- Never exceed the stated load capacity for an ATV. Cargo should be properly distributed and securely attached. Reduce speed and follow instructions outlined in this manual. Allow greater distance for braking.
- DRIVE SAFELY & RESPONSIVELY!

FOR MORE INFORMATION ABOUT ATV SAFETY.

AWARNING

The following information identifies a potential safety hazard that could result in severe injury or death.

Additional Important Information...

The safety of our customers and the general public is the first priority at *Kolpin Powersports*. It is strongly recommended that consumers not install any non-Original Equipment Manufacturer (OEM) supplied equipment intended to increase speed or power on any *Kolpin Powersports* ATV. Do not make any other modifications intended for these purposes. Any modifications to the original equipment of the ATV substantially increase the risk of serious injury or death. Because these modifications may create a substantial safety hazard, *Kolpin Powersports* hereby informs you that the warranty on your ATV is terminated if any non-OEM equipment has been added, or modifications have been made, to the original ATV which increase(s) speed or power.

It is also advised that ATV owners strictly follow the recommended maintenance program described in this manual. The preventive maintenance program is designed to insure that all critical components on the ATV are inspected by your dealer on a regular schedule (hourly intervals).

BE FURTHER ADVISED; the addition of certain accessories may change the handling characteristics of your ATV. Any accessories to be added to your ATV must be approved by your local *Kolpin Powersports* dealer before installation.

KNOW YOUR MACHINE

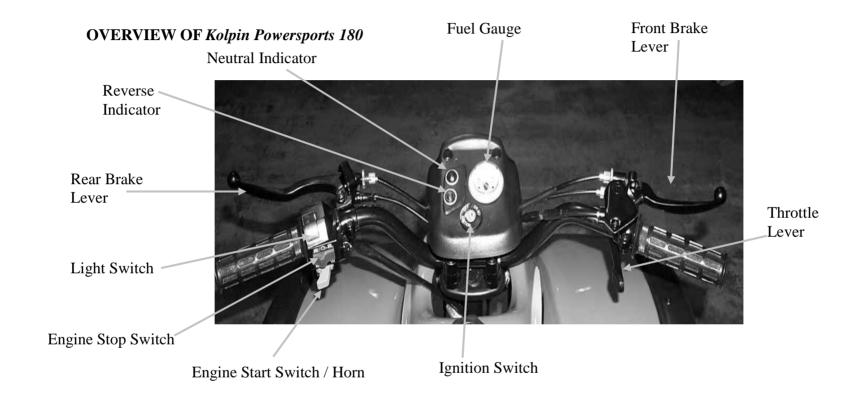
Owners: Review the information in this manual with any person who may be operating this ATV. It is up to you to instruct other riders in the proper and safe way to operate an ATV. Set boundaries and adhere to them, keeping everyone's safety foremost in your mind. *Never allow your child to operate this ATV.*

Riders: Before you ride your new *Kolpin Powersports* ATV, you need to know information about how the ATV operates and most important of all, you need to know how to keep safe while operating the ATV. Remember, YOUR SAFETY IS THE MOST IMPORTANT THING. You must learn what will keep you safe and also keep your friends and other people around you safe while you are riding.

Pay attention when you see this symbol:

A CAUTION

This is the safety alert symbol. When you see this symbol on your machine or in this manual is means PAY ATTENTION! If you don't, you could get hurt very badly or even killed. Your safety is involved!



KNOW YOUR MACHINE (cont.)

Before you start the engine for the first time, you need to learn about the controls on your new ATV.

1. Engine Stop Switch

- The switch has to be in the position before you can start the engine.
- When the engine is running you can stop it by sliding the Engine Stop

 Switch left or right to the position,

2. Engine Start Switch / Horn

- The Engine Start Switch / Horn switch is the grey switch just below the Engine Stop Switch.
- The Engine Start Switch is used to start the engine by pushing the switch to the position.



Engine Stop Switch

Engine Start Switch / Horn

KNOW YOUR MACHINE (cont.)

3. Throttle Lever

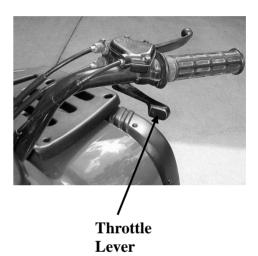
- The throttle lever is located on the right-side handlebar. It makes your ATV go forward when you press it with your thumb.
- You must always make sure the throttle control does not stick before you operate your ATV. Read more about it on page 43.

4. Transmission Neutral Indicator-Green

- The Neutral Indicator (green) will light when the ATV is in Neutral.
- The ATV cannot move forward nor will it reverse when the ATV is in Neutral.

5. Transmission Reverse Indicator-Orange

- The Reverse Indicator (orange) will light when the ATV is in Reverse.
- The ATV will move in reverse only.



KNOW YOUR MACHINE (cont.)

6. Kick Starter

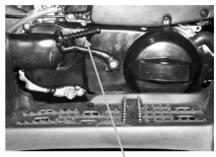
• If your battery is too weak to start your ATV, you can push on the kick starter with your left foot to start the engine. Review page 42 for more information on how to use the kick starter.

7. Brake Levers

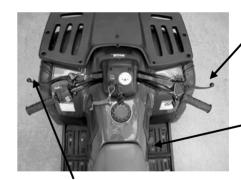
• Squeeze these levers towards the handle bar to slow down or stop your ATV. The right-hand lever controls the front brakes. The left-hand lever or the auxiliary foot pedal controls the rear brake. To slow down or stop squeeze both brake handles at the same time.

A CAUTION

- Always apply both brakes at the same time or you may lose control of your ATV resulting in serious injury or death.
- Always take your thumb off the throttle control when you pull the brake lever.



Kick-Starter



Rear Brake Lever

Front Brake Lever

Auxiliary Foot Pedal

KNOW YOUR MACHINE (cont.)

8. Ignition Switch

- The key must be turned to the **ON** position before you push the starter button or use kick starter.
- You should use this key to turn the engine **OFF**.

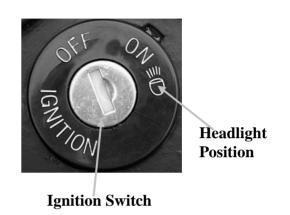
9. Lights

Your ATV is equipped with high and low beam headlights. The light will not function unless the engine is running.

- Turn the key to the headlight position to turn on headlights.
- Select High / Low beam by pressing toggle switch on left handlebar.

Let's review the two (2) ways to stop your ATV:

- 1. Sliding the Engine Stop Switch left or right to the position.
- 2. Turning the ignition key to OFF.





High/Low Beams

PRE-RIDE CHECK

Before the ATV is started you must always perform a **PRE-RIDE CHECK.**

AWARNING

This ATV must be inspected each time before riding to insure it is in proper working order. If proper inspection is not performed, severe injury or death could result.

☑ Make sure the throttle doesn't stick. Check this by pushing the lever toward the handlebar and then let it go. If it comes right back to where it was before you pushed it then it's okay. If it comes back slowly or stays forward, you have a sticky throttle. This means that something is wrong or broken.

A CAUTION

If you have a sticky throttle, do not start the engine. You could get hurt if you ride when you have a sticky throttle. Have an adult or your local *Kolpin Powersports* dealer fix the throttle.

☑ Make sure the brakes don't stick. Check the brake levers by squeezing them toward the handlebar and then letting go. The brake levers should come right back to where they were before you squeezed them. If they go back slowly or stay on, your brakes are sticking.

A CAUTION

If you have sticky brakes, do not start the engine. You could get hurt if you ride when you have sticky brakes. Have an adult or your *Kolpin Powersports* dealer fix the sticky brakes.

RIDER'S SECTION –PRE-RIDE CHECK (cont.)

- ✓ Make sure the seat is locked back in place.
- ☑ Check the gas level. Before adding gasoline to your ATV read the instructions and warnings on page 33 of this Owners Manual.
- ☑ Check the engine oil level when the engine is cold. The engine is very hot after it has been running. It could burn
- ☑ Check the tires; check condition and pressures.
- ☑ Brakelight check for proper operation.
- ☑ Engine Stop Switch check for proper function.
- ☑ Wheels check for tightness of wheel nuts and axle nuts; check that axle nuts are secured by cotter pins.
- ☑ Drive chain check the drive chain slack.
- ☑ Air cleaner check for dirt. If the filter is dirty or clogged, clean or replace it.
- ☑ Steering check to be sure the steering operates freely. Look for any unusual looseness in any area.
- ☑ Check free-play and operation of brakes levers.
- ☑ Check throttle lever making sure you do not have sticky throttle lever (see pg. 43).
- ☑ Loose parts inspect ATV for any damaged parts or loose nuts/bolts or fasteners.
- ☑ Operator's helmet, goggles and proper clothing (long pants, long sleeves or jacket).
- ☑ This last check is done with the engine running. You must check to make certain that the two ways to stop your ATV are working the way they should:

 - 1. Sliding the Engine Stop Switch left or write to the position

2. Turning the Ignition Key to OFF.

RIDER'S SECTION-RIDING RULES

Now you are ready to ride your new ATV. Remember that safety while you ride is the most important thing. Let's ride!

- → Your ATV is made for one person. Never carry a passenger. A passenger will make the ATV harder to drive. You may lose control and hurt yourself and your passenger.
- → Make sure you know where you are going to ride when your ATV is started. Make sure the area around you and your ATV is safe.
- → Never ride alone. Always drive within the sight of another rider.
- → Always drive your ATV while sitting down. Keep both hands on the handlebars and keep both feet on the running boards.
- → Don't ride your ATV on roads or over railroad tracks. Your ATV makes noise that will keep you from hearing cars, trucks or trains that may be coming towards you.
- → Don't ride at night.
- → Learn where there are lakes, rivers, ponds and ditches in your driving area. Stay away from them.
- → Never ride on frozen water. The ice could cause an accident resulting in severe injury or death. All ice can be dangerous!
- → Always be alert and pay attention to where you are driving. Pay attention to other drivers and be even more careful around them because you don't know what they're going to do.
- → Never follow another ATV too closely. Always allow lots of time and space to stop your ATV.

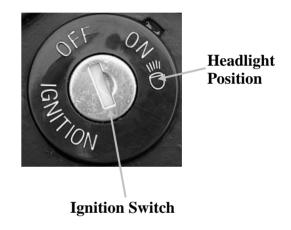
AWARNING

You must always follow the safe riding rules found on this page. If you do not, an accident could occur resulting in severe injury or death.

FEATURES AND OPERATION

1. IGNITION SWITCH

- The Ignition Switch is operated with a key and must be turned to the ON position before you start the engine.
- For Headlight: turn the key from the **ON** position to the headlight position. The headlight will not function unless the engine is running.
- Once the engine is running, the key cannot be taken out.
- You should use this key to stop the engine by turning it to the **OFF** position.
- DO NOT turn the ignition switch to OFF while riding. Ignition switch should not be turned off unless the vehicle is completely stopped



2. ENGINE STOP SWITCH

- The engine will not start or run when the Engine Stop Switch is in either position. It provides the operator with a quick way to shutdown the engine in case of stuck throttle or other emergency.
- When you push the Engine Stop Switch left or right to position, the engine cuts off.

3. ENGINE START LEVER

- Set the parking brake. (See page 27)(Remember to release the park brake before driving forward.)
- Turn the ignition key to the **ON** position.
- Make sure the Engine Stop Switch is in the posi
- Push the grey Engine Start button to

A CAUTION

Engine damage could occur if the ATV is driven without the park brake released.

Engine Stop Switch



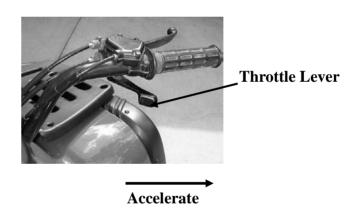
Engine Start Lever

4. ENGINE THROTTLE

AWARNING

- Do not start or operate an ATV with a sticky or improperly operating throttle. A sticky or improperly operating throttle could cause an accident resulting in severe injury or death.
- Always contact your dealer for service repairs whenever throttle problems arise.
- Failure to check or maintain proper operation of the throttle system can result in the throttle lever sticking during riding and cause an accident.
- Always check the lever for free movement and return before starting the engine. Check occasionally during riding.

- The throttle lever is located on the right-side handlebar.
- Pressing the throttle lever forward controls engine speed and vehicle movements.
- The throttle lever is spring loaded. The engine speed returns to idle when the lever is released.



5. HORN SWITCH

To sound the horn, turn on the ignition switch and pull the horn switch (grey Engine On / Horn switch).

To sound the horn, turn on the ignition switch and pull the horn switch (grey Engine On / Horn switch).

6. BRAKES

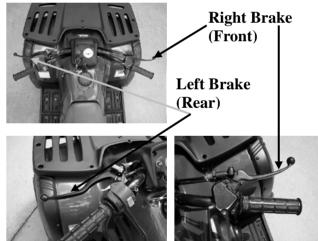
- The left-hand brake activates the rear brakes; the right-hand brake activates the front brakes
- To activate the rear brakes, squeeze the left-hand lever toward the handlebar
- To activate the front brakes, squeeze the right-hand lever toward the handlebar.

AWARNING

Always apply both brakes at the same time or loss of control of ATV can occur resulting in serious injury or death.



Horn Button



6. BRAKES (cont.)

Brake Lever Free Play

- Check the free play of front and rear brake levers.
- Use the adjustment knobs to change free play. Check the free play by measuring the travel of the front and rear brake levers from their rest position to their position when you first feel tension on the cables. The free-play should fall between $^3/_8$ " ~ $^3/_4$ in. (10 ~ 20 mm).
- For the front R /L brakes: the adjusters are located on the brake lever. Turn the adjuster to obtain the proper position.
- For the rear brake: you can adjust the brake adjuster wing nut to the proper free play and brake setting.



Front R/L Brake Adjuster



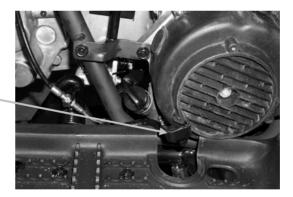
Rear Brake Adjuster

6. BRAKES (cont.)

Auxiliary Brake

Your ATV has an auxiliary brake for an added safety feature. It is located on the inside of the right floorboard (beneath the oil plug) and is operated by the right foot. Use the auxiliary brakes as a backup to the main brake system.

Auxiliary Brake



7. PARKING BRAKE

The parking brake is a safety device to lock the rear brake and limit ATV movement

Setting the Parking Brake

- Squeeze the left-hand brake lever.
- Press the parking brake lock to hold the brake lever in place.

Releasing the Parking Brake

• Squeeze the brake lever and the park lever will release automatically

A CAUTION

Always check to be sure that the parking brake has been released before operating the ATV. An accident could result causing severe injury if the parking brake is left on while the ATV is operated.



Parking Brake Lock

7. PARKING BRAKE (cont.)

IMPORTANT SAFEGUARDS:

- Always lock the parking brake before starting the engine.
- Once the engine has warmed enough for operation, release the parking brake and gently apply the throttle to go forward.
- Always lock the parking brake whenever the ATV is left unattended.

8. TRANSMISSION GEAR SHIFT LEVER

- The transmission gear shift lever is located on the right side of the ATV.
- The gear shift lever has three (3) positions: Forward, Neutral, and Reverse.

To Change Gears:

- Stop ATV and hold the rear break lever, keeping the engine idling.
- Move the lever to the desired gear.
- DO NOT attempt to shift gears with engine speed above idle or while the vehicle is moving.
- Always place the transmission in gear with the parking brake locked whenever the vehicle is left unattended.

Maintaining shift linkage adjust is important to assure proper transmission function. Should you experience any shifting problem, see you local

Kolpin Powersports dealer.

Shift Patterns





8. TRANSMISSION GEAR SHIFT LEVER (cont.)

- Be sure the ATV is in the Neutral position before you start the engine.
- If you cannot change gears, do not force gear shift lever into gear. Instead, try to change to the Neutral position first, press the throttle and then try to change gears.
- The white back-up lights will be illuminated when the transmission is shifted fully into **R**everse.

AWARNING

- ! Do not attempt to shift the transmission while the vehicle is moving or while operating on hilly terrain.
- ! Always place the transmission in gear with the parking brake locked whenever the vehicle is left unattended.
- ! For your safety, apply the rear brake lever when you shift to **R**everse. It you do not, the engine will stop immediately. To restart the engine shift back to **N**eutral and use normal start procedure.

9. THE CVT SYSTEM



- The CVT system rotates at high speeds, creating large amounts of force on clutch components. Extensive engineering and testing has been conducted to insure the safety of this product. However, as the owner you have the following responsibilities to make sure this system remains safe:
- Do not modify any component of the CVT system. Doing so may reduce its strength so that a failure may occur at high speeds. This system has been precision balanced. Any modification will cause the system to be out of balance, creating vibration and additional loads on components.
- Routine maintenance is the responsibility of the owner. Always follow recommended maintenance procedures. See your *Kolpin Powersports* dealer for questions or maintenance.
- The CVT housing must be securely in place during operation.

FAILURE TO COMPLY WITH THIS WARNING CAN RESULT IN SEVERE INJURY OR DEATH.

10. ENGINE AIR FILTER

- The engine air filter should be changed by dealer every 100 hours of operation or annually.
- For more information, see page 105.

A CAUTION

If your ATV is stored/operated in salt-water areas, it must be rinsed with fresh water to prevent corrosion that can be caused by seawater.

11. ENGINE FUEL SYSTEM

Fuel Tank

- The fuel tank filler cap is located directly behind the handlebar (below the dash).
- The capacity of fuel tank is 2.1 gallons (8 liters).
- Use unleaded gasoline with an octane rating of 92 or higher.

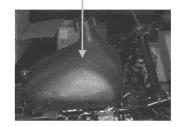
Fuel Gauge

- When the fuel gauge needle is on the red line, refuel.
- Be sure to tighten fuel cap after refueling.

AWARNING

- DO NOT refuel when engine is hot.
- Be sure to tighten fuel cap after refueling.

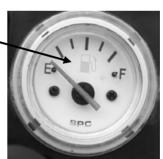
Fuel Tank





-Gas Cap





11. ENGINE FUEL SYSTEM (cont.)

AWARNING

Gasoline is highly flammable and explosive under certain conditions.

- ! Never store ATV near products with a pilot light, such as, gas hot water heater or stoves.
- ! Always exercise extreme caution when you handle gasoline.
- ! Always refuel with the engine stopped and outdoors or in a well-ventilated area.
- ! Do not smoke or allow open flames or sparks in or near the area where refueling is performed or where gasoline is stored.
- ! Do not overfill the tank. Do not fill the tank neck.
- ! If you get gasoline on your skin or clothing, immediately wash it off with soap and water and change clothing.
- ! The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm.
- ! Never start the engine or let it run in an enclosed area. Gasoline powered engine exhaust fumes are poisonous and can cause loss of consciousness and death in a short time.
- ! Shut off fuel valve (if so equipped) whenever the ATV is stored or parked.

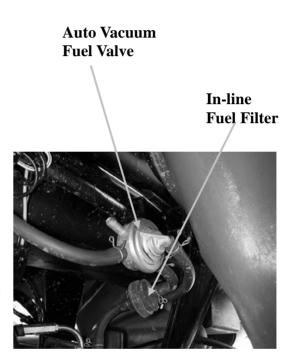
11. ENGINE FUEL SYSTEM (cont.)

Fuel Valve

The *Kolpin Powersports 180* has an auto vacuum operated fuel (gas) valve. When the engine is running it opens the auto vacuum fuel valve; when the engine is shut down, the auto vacuum fuel valve closes.

Fuel Filter

- The *Kolpin Powersports 180* ATV is equipped with an in-line fuel filter.
- This filter should be replaced by your dealer after every 100 hours of operation, or annually.
- Do not attempt to clean the fuel filter.



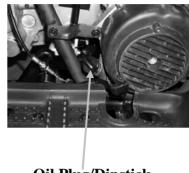
11. ENGINE FUEL SYSTEM (cont.)

Engine Oil Check

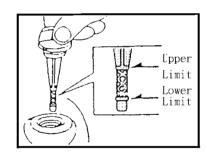
- Remove the oil plug/dipstick.
- Wipe off the dipstick and insert back into opening (do not screw in).
- Pull the oil plug/dipstick back out and check the oil level. If the oil level is low, add oil (SAE SF/SG 15W-40).

AWARNING

- In order to maintain the excellent performance of your ATV engine, check the engine oil level before every use.
- To avoid serious engine damage, always refill oil reservoir when the oil level is low. Running the engine with low oil levels will cause the engine to overheat and seize. If the engine seizes, it will have to be rebuilt by your *Kolpin Powersports* dealer.
- Engine repair cost resulting from damage caused by running the engine with low oil levels is not covered under warranty.



Oil Plug/Dipstick



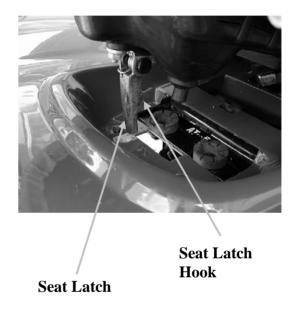
12. SEAT

- To remove the seat, reach under the rear of the cab and pull back on the seat latch.
- To replace the seat, set it in place and push down on the rear of the seat.
- Always make sure the seat is locked in place before riding.

A CAUTION

Do not attempt to release the seat latch unless the machine <u>has not</u> been run for at least an hour. The exhaust gets very hot when the machine is run and can cause serious burns.

• The battery and tool set are located under the seat, attached to the rear fender by a rubber strap.



13. EXHAUST PIPE / MUFFLER / HEAT SHIELDS

A CAUTION

The exhaust pipe, muffler and heat shields are very hot after operation. DO NOT touch them until they have cooled.

A CAUTION

- The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm.
- Gasoline powered engine exhaust fumes are poisonous and can cause loss of consciousness and death in a short time.

Heat Shields



14. BATTERY / TOOL SET

The battery and tool set are located under the seat, attached to the rear fender by a rubber strap.

Tool Set

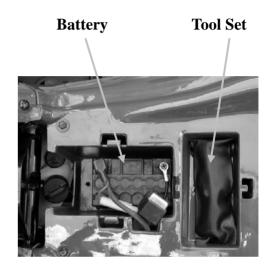
The tool set includes a spark plug tool, a screwdriver, and a tire gauge.

Battery - Installation

AWARNING

To avoid the possibility of explosion, always connect battery cables in the order specified: **Red** (+) first; **Black** (-) last. An exploding battery can cause serious injury or death.

- Your ATV has an Absorbed Glass Matte (AGM) battery.
- The proper battery for this ATV is YT9LBS.
- To install the battery, set the battery in its holder.
- Connect the **red wire** to the (+) terminal and the **black wire** to the (-) terminal.
- Attach the hold down strap.





14. BATTERY / TOOL SET (cont.)

BATTERY (cont.)

AWARNING

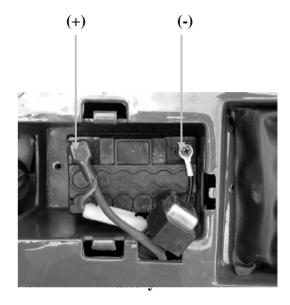
- !! Never remove battery tops.
- !! Never attempt to add water.
- !! Never reverse leads, this could cause an EXPLOSION.
- !! Never operate this ATV without the battery cables connected and tightened. Loose or disconnected battery cables will spark and could cause the unit to catch on fire.
- !! Never use a car to jumpstart. Damage to the system will result and could cause an EXPLOSION.

Failure to pay attention to this warning could result in severe personal injury or death.

14. BATTERY / TOOL SET (cont.)

BATTERY (cont.) – Care of Terminals

- Battery terminals and connections should be kept free of corrosion.
- If cleaning is necessary, remove the corrosion with a stiff wire brush.
- Wash with a solution of 1 tablespoon baking soda and 1 cup water.
- Rinse well with tap water and dry off with clean rags.
- Coat the terminals with dielectric grease or petroleum jelly.
- Be careful not to allow cleaning solution or tap water into the battery.



14. BATTERY / TOOL SET (cont.)

BATTERY (cont.) – Battery Fluid / Battery Removal

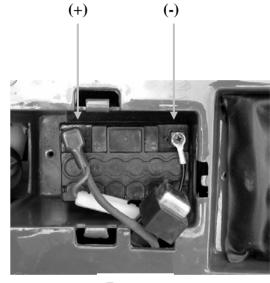
Your *Kolpin Powersports* ATV is equipped with an Absorbed Glass Matte (AGM), no-maintenance battery.

- DO NOT remove battery top.
- DO NOT attempt to add water.

Battery Removal

- Disconnect hold down straps holding the electrical box and battery in position.
- Disconnect the **Black** (-) cable first.
- Disconnect the **Red** (+) cable next.
- Lift the battery out of the ATV. Battery is sealed and should not leak.

NOTE: If the ATV will not be operated for 3 months or more, the battery should be removed, charged to proper level, and stored in a cool, dry place. Before reusing, take the battery to your dealer for testing and recharging.

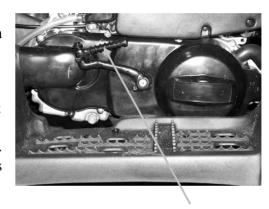


Battery

15. KICK-STARTER

If the battery is too weak to start the engine, you can start the engine with the kick-starter. The kick-starter will allow the ATV to operate until repairs can be made.

- Be certain the ATV is on a level surface and the parking brake is set (See page 27).
- Fold out the kick-start lever located on the left-hand side of the ATV.
- Turn the ignition key to **ON** and make sure the Engine Stop Switch is
 - in the position.
- Placing your left foot on the kick-start, push you heel downward to crank the engine.
- Once the engine is running, fold the kick-start lever back into place.



Kick Starter

16. ADJUSTING THE THROTTLE CABLE

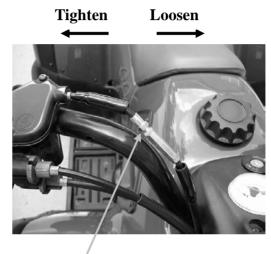
• Check to be sure the throttle lever moves smoothly and returns on its own; if it does not, then adjust the free play of throttle. To adjust free play, loosen the nut and adjust to the proper position.

The normal free play of throttle is $^{1}/_{8} \sim ^{3}/_{8}$ inch (5 mm ~ 10 mm). To measure free play, measure the rotation of the throttle lever from rest position to the position the throttle is affected.

- Make sure the throttle doesn't stick.
- The lever should come right back to where it was before you pushed it. If it comes back slowly or stays open, you have a sticky throttle.
- If you have a sticky throttle, do NOT start the engine. You could get hurt. Have an overland dealer fix the throttle.

17. SPARK PLUG

• Foul, black deposit on the spark plug electrodes and/or improper gap size may result in spark plug misfire. The proper gap for the electrode is .024 – .028 inch (0.6 – 0.7 mm). The standard type of spark plug is NGK C7HSA or NGK CR7HSA.



Throttle Adjuster

18. DRIVE CHAIN

- After periods of extended operation, the drive chain will stretch and loosen. The normal chain slack should be $^{1}/_{2}-1$ inch (13 25 mm). Check the drive chain and adjust if necessary before each use. Keep the drive chain properly lubricated.
- The chain adjuster can adjust the slack. Loosen the fixed bolts and adjust the slack to the proper setting. After adjusting the chain, don't forget to tighten the nuts.

19. GEAR ASSEMBLY

After the break-in procedure (page 52), please change the gear oil in the transmission (see page 115). SAE 85W~140 gear oil (7 oz.) is recommended on this vehicle. The gear oil change process is described on page 115 of this manual.

Chain



Chain Adjuster

20. SUSPENSION

Front Suspension

- The front R/L side suspensions can be adjusted to any of five (5) pre-load positions so they can be matched to load and riding conditions.
- Always be sure to adjust both front left and front right shock absorbers to the same position. Failure to do so could result in severe injury or death.

Rear Suspension

• The rear suspension can be adjusted to any of five (5) pre-load positions. Adjust to the proper setting for load and riding conditions.



Front Adjuster Ring



Rear Adjuster Ring

Shown in the softest spring setting.

21. BRAKE LIGHT

- The brake light operates when the rear brake lever (left) is pulled.
- The bulb type for the braking light is #1157 or 12V-P21/5W.



Rear Brake Light.

RIDING & OPERATING INSTRUCTIONS

OUTLINE:	PAGE#
1) Riding Gear	50
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4) Riding	53
5) Making Turns	53
6) Hauling Cargo	54
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► PAY ATTENTION WHEN YOU SEE THE SYMBOLS BELOW

A CAUTION

This is the safety alert symbol. When you see this symbol in this manual be alert to the potential for personal injury.

AWARNING

This symbol indicates a potential hazard that could result in severe injury or death. When you see this symbol on your machine or in this manual it means PAY ATTENTION! If you don't, you could get hurt very badly or even killed. Your safety is involved!

AWARNING

Never run an engine in an enclosed area. Carbon monoxide exhaust gas is poisonous and can cause severe injury or death. Always start engines outdoors.

A CAUTION

Engine damage could result if you do not allow your ATV adequate warm-up time before operating.

A CAUTION

Remember to perform the Pre-ride Check before riding ATV.

1) RIDING GEAR

ATV riding requires special protective clothing and equipment to help reduce chances of injury.

• **Helmet** – Your helmet is the most important piece of protective gear for safe riding. A helmet can prevent severe head injury.

Make sure your helmet meets or exceeds your state's safety standards and bears either the Department of Transportation (DOT) label, the American National Standards Institute label (**ANSI z90.1**), or the Snell Memorial Foundation label.

- **Eye Protection** Do not depend on sunglasses for eye protection. A pair of goggles or helmet face shield offers the best protection for your eyes. They should be shatterproof and should be kept clean. Check for one of these marks to be sure your choice of eye protection is of shatterproof design: **z2.1** or **VESC8.**
- Gloves Off-road gloves with knuckle pads are the best for comfort and protection.
- Clothing To protect your body, long sleeves and pants should always be worn. Riding pants with kneepads, a jersey, a chest protector, and elbow pads provide the best protection. It is also suggested that your footwear should be ankle or higher boots.

- 2) STARTING THE ENGINE / Procedure for Starting a Cold Engine
- 1. Set the parking brake.



- 2. Push the Engine Stop Switch to
- 3. Turn the ignition key to **ON.**
- 4. Press the Engine Starter Button NOTE: The rear brake lever must be engaged or the engine will not start.
- 5. Do not press the throttle when starting the engine.
- 6. Push the Starter Button for a maximum or five seconds, releasing the Starter Button when the vehicle starts. If engine does not start, release the Starter Button and wait five seconds then press the Starter Button for another five seconds. Repeat this procedure until engine starts.
- 7. If the engine is cold, engage the manual choke. After the engine starts, vary the engine RPM slightly with the throttle to aid in warm-up until the engine idles smoothly. Do not make any adjustments to the carburetor until the engine has warmed up at least five (5) minutes.

A CAUTION

Don't press the Starter Button when the engine is running.

3) ATV BREAK-IN PERIOD

The break-in period for your *Kolpin Powersports* ATV is the time it takes for the ATV to use up the first full tank of gasoline. This break-in period is vital to the efficiency of performance and length of life of the engine.

A CAUTION

Do not operate at full throttle or high speeds for extended periods during the first 3 hours of riding. Excessive heat can build up and cause damage to close-fitted engine parts.

- 1. Drive slowly at first. Operate in an open area to familiarize yourself with the ATV's operation and handling.
- 2. Vary the throttle position.
- 3. Perform regular checks on fluid levels, controls, and all important areas on the vehicle as outlined on the pre-ride checklist found on page 18.

4) RIDING

- 1) Sit upright with both feet on the footrests and both hands on the handlebars.
- 2) Start the engine and allow it to warm up.
- 3) Check your surroundings and determine your path of travel.
- 4) Release the parking brake.
- 5) Slowly press the throttle lever with your right thumb and begin driving. Vehicle speed is controlled by the amount of throttle opening.
- 6) Drive slowly. Practice maneuvering and using the throttle and brakes on level surfaces.

5) MAKING TURNS

<u>Practice making turns at slow speeds.</u> *Kolpin Powersports_*ATVs are equipped with a solid rear axle that drives both rear wheels equally at all times. This means that the wheel on the outside of the turn must travel a greater distance than the inside wheel and the inside tire must slip traction slightly during the turn. To turn, steer in the direction of the turn, lean your <u>upper body</u> to the <u>inside of the turn</u> while supporting your <u>weight on the outer footrest</u>. This technique alters the balance of traction between the rear wheels allowing the turn to be made smoothly.



Avoid turning at sharp angles. Tipover and severe injury may result.

6) HAULING CARGO

The *Kolpin Powersports 180* was designed to haul loads within a limited weight range. Never exceed the weight capacities listed in the specifications table on page 124 of this Owner's Manual.

Cargo weight should be evenly distributed ($^{1}/_{3}$ on the front rack and $^{2}/_{3}$ on the rear rack) and mounted as low as possible. When operating over rough or hilly terrain, reduce speed and cargo weight to maintain stable driving conditions.

AWARNING

Hauling cargo improperly can alter vehicle handling and may cause loss of control or brake instability and result in serious injury or death. Always heed the warnings listed on this page and the following page.

- REDUCE SPEED AND ALLOW GREATER DISTANCE FOR BRAKING WHEN CARRYING CARGO.
- CARGO WEIGHT DISTRIBUTION should be ¹/₃ on the front rack and ²/₃ on the rear rack. When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions. Carrying loads on one rack only increases the possibility of vehicle tip over.

- 6) HAULING CARGO (cont.)
- ALL LOADS MUST BE SECURED BEFORE MOVING VEHICLE. Unsecured loads can create unstable operating conditions, which could result in loss of control of the vehicle.
- LOADS MUST BE CARRIED AS LOW ON THE RACKS AS POSSIBLE. Carrying loads high on the racks raises the center of gravity of the vehicle and creates a less stable operating condition. When cargo loads are carried high on the racks, the weight of the loads must be reduced to maintain stable operating conditions.
- OPERATE ONLY WITH STABLE AND SAFELY ARRANGED LOADS. When handling off-centered loads which cannot be centered, securely fasten load and operate with extra caution.
- EXTREME CAUTION MUST BE USED when operating with loads extending over the rack sides. Stability and maneuverability may be adversely affected, causing the machine to overturn.
- DO NOT TRAVEL FASTER THAN THE RECOMMENDED SPEEDS.

7) RIDING ON SLIPPERY SURFACES

A CAUTION

Whenever riding on slippery surfaces such as wet trails or loose gravel, or during cold, freezing weather, special attention must be paid to prevent vehicle turnover.

- 1. Slow down when entering slippery areas.
- 2. Remain alert, reading the trail and avoiding quick, sharp turns that can cause skids.
- 3. Correct a skid by turning the handlebars in the direction of the skid and shifting your body weight forward.
- 4. Never apply brakes during a skid. Complete loss of ATV control can result.
- 5. Whenever possible, avoid excessively slippery surfaces.
- 6. Always reduce speed and use additional caution.

AWARNING

- Failure to exercise care when operating the ATV on slippery surfaces can be dangerous.
- Loss of tire traction and vehicle control can result in an accident, including an overturn, resulting in severe injury or death.

8) TRAVELING UPHILL

AWARNING

- Do not operate this ATV on hilly terrain. If you cannot avoid operating in hilly terrain, use extreme caution. Braking and handling are greatly affected.
- Loss of vehicle control or overturning of the ATV could result causing sever injury or death.

If you HAVE to travel uphill, always travel straight uphill and:

- 1. Avoid steep hills (25° maximum).
- 2. Keep both feet on the footrests.
- 3. Transfer your weight forward.
- 4. Proceed at a steady rate of speed and throttle opening.
- 5. Remain alert and be prepared to take emergency action. This may include quick dismount of the ATV.

8) SIDE HILL RIDING

Avoid traveling across the side of a hill. In the event you do enter into a situation where side hill riding is unavoidable:

- 1. Slow down.
- 2. Lean into the hill transferring your upper body weight up hill while keeping your feet on the footrests.
- 3. Steer slightly into the hill to maintain vehicle direction.

IF THE VEHICLE BEGINS TO TIP, QUICKLY TURN THE FRONT WHEEL DOWNHILL, IF POSSIBLE, OR DISMOUNT ON THE UPHILL SIDE **IMMEDIATELY!**



Improperly crossing hills or turning on hills can be dangerous. Loss of vehicle control or overturning of the ATV could result causing severe injury or death.

9) TRAVELING DOWNHILL

When descending a hill:

- 1. Drive directly downhill.
- 2. Transfer your weight to the rear of the vehicle.
- 3. Slow down.
- 4. Slightly apply the front and rear brakes at the same time to help in slowing.

AWARNING

Do not travel at excessive speeds. It is dangerous and can cause loss of vehicle control and tipping, resulting in severe injury or death.

10) TURNING AROUND ON A HILL

If your ATV stalls while climbing a hill, NEVER back it down the hill!

- 1. Stop and lock the parking brake while maintaining body weight uphill.
- 2. Shut off engine.
- 3. Dismount on left or uphill side of ATV.
- 4. Staying uphill, turn handlebars full left (while facing front of ATV).
- 5. While holding service brake, release parking brake lock and slowly allow ATV to roll around to your right until ATV is pointing across the hill or slightly downward.
- 6. Lock the parking brake and remount ATV from the uphill side keep body weight uphill.
- 7. Restart engine, release parking brake, and proceed slowly, controlling speed with the brakes, until ATV is on reasonably level ground.

AWARNING

Avoid climbing steep hills. Loss of vehicle control or overturning of the ATV could occur resulting in severe injury or death.

11) CROSSING STREAMS

Your Kolpin Powersports ATV can operate through water up to depths just below the footrests.

Before operating through streams:

- 1. Determine water depths and currents.
- 2. Choose a crossing where both banks have gradual inclines.
- 3. Proceed slowly, avoiding rocks and obstacles if possible.
- 4. Remember that wet brakes do not always operate normally. After crossing, dry the brakes by applying light pressure to the levers until braking action is normal.
- Do not operate your ATV through deep or fast moving water. If you cannot avoid water that exceeds the recommended maximum depth, go slowly, balance your weight carefully, avoid sudden movements; maintain a slow and steady forward motion. Do not make sudden turns or stops and do not make sudden throttle changes.

NOTE: If the ATV is run through water, it is **critical** that it is serviced as outlined in the maintenance chart beginning on page 97 of this manual. These areas need special attention: engine oil, gear lube and all grease fittings.

12) TRAIL OBSTACLES

KEEPALERT! Look ahead and learn to read the trail as you ride. Stay on the right side of the trail, if possible, and be constantly alert for hazards such as logs, rocks, and low-hanging branches.

AWARNING

Not all obstacles are visible. Travel with caution on trails. Severe injury or death can result if your ATV comes in contact with hidden obstacles.

13) PARKING

- 1. Turn the ignition key to the OFF position.
- 2. Set the parking brake.

NOTE: Avoid parking on an incline. If you must park on an incline, always block the rear wheels on the downhill side with a rock or other heavy object that is large enough to prevent the ATV from rolling back.

OPERATION WARNING DECALS AND WARNINGS PRINTED IN MANUAL

UNDERSTANDING WARNINGS

Failure to follow the WARNINGS in this manual can result in SEVERE INJURY OR DEATH.

SAFETY ALERTS!

WARNINGS identify special instructions or procedures which, if not correctly followed, could result in personal injury or loss of life. Read all WARNINGS in this manual carefully; ALWAYS follow their instructions.

NOTE: Warning decals have been placed on the vehicle for the protection of the operator(s). Read and follow the instructions on each decal carefully. If any decal becomes illegible or comes off, contact your *Kolpin Powersports* dealer for replacement. The part number is printed on the decal.

OPERATION WARNING DECALS

Improper ATV use can result in SEVERE INJURY OR DEATH.

- ! Always use an approved helmet and protective gear;
- ! Never use with drugs or alcohol;
- ! Never use on public roads
- ! Never carry passengers

NEVER OPERATE:

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

ALWAYS:

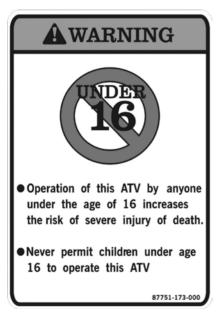
- avoid paved surfaces pavement may seriously affect handling and control;
- use proper riding techniques to avoid vehicle overturns on hills, rough terrain, and in turns.

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



NO ONE UNDER 16 year of age!

- Operation of this ATV by anyone under the age of 16 increases the risk of severe injury or death.
- Never permit children under age 16 to operate this ATV.



NEVER ride as a passenger!

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



- Improper tire pressure or overloading can cause loss of control, resulting in SEVERE INJURY or DEATH.
- MAXIMUM WEIGHT CAPACITY (Gross vehicle weight) including machine, driver and cargo is 680 lbs.
- TIRE PRESSURE (PSI): FRONT 5, REAR 3

WARNING

- Improper tire pressure or overloading can cause loss of control, resulting in SEVERE INJURY or DEATH.
- MAXIMUM WEIGHT CAPACITY(Gross vehicle weight) including machine, driver and cargo is 680 lbs,
- TIRE PRESSURE(PSI): FRONT 5 REAR 3

87764-173-000

- Adjust chain as figure shown.
- Inaccurate adjustment could cause damage to the chain and adjuster.



87758-156-000

- Do not operate this ATV on HILLS with a grad steeper than 25 degrees. To prevent flipover when going up or down hilly terrain, use brakes and throttle gradually.
- Operating in REVERSE even at low speeds can be dangerous as steering becomes difficult. Avoid sudden braking or sharp turns to prevent flipover.
- When parking on grades, leave the shifter in Forward as the PARKING BRAKE may relax when engaged for longer than 15 minutes.

WARNING

- Do not operate this ATV on HILLS with a grade steeper than 25 degrees <u>25</u>°. To prevent flipover when going up or down hilly terrain use brakes and throttle gradually.
- Operating in REVERSE even at low speeds can be dangerous as steering becomes difficult Avoid sudden braking or sharp turns to prevent flipover.
- When parking on any grades, leave the shifter in Forward as the PARKING BRAKE may relax when engaged for longer than 15 minutes.

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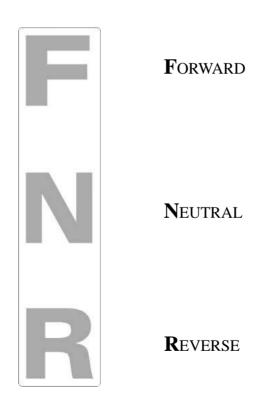
• TO AVOID ACCIDENT OR SEVERE INJURY, NEVER EXCEED 8 MPH (13 KM) WHILE IN REVERSE GEAR.



TO AVOID ACCIDENT OR SEVERE INJURY, NEVER EXCEED 8 MPH (13KM) WHILE IN REVERSE GEAR.

87754-156-000

Shift pattern:



OPERATION WARNINGS PRINTED IN THIS MANUAL

A WARNING

POTENTIAL HAZARD

Operating this ATV without proper instruction.

WHAT CAN HAPPEN

The risk of an accident with severe injury or death is greatly increased if the operator does know not how to operate the ATV properly in different situations and on different types of terrain.

HOW TO AVOID THE HAZARD

Beginning and inexperienced operators should complete a certified training course. They should regularly practice the skills learned in the course and operating techniques described in the Owner's Manual.

For more information about the training course, contact your authorized ATV dealer.

OPERATION WARNINGS (cont.)

A WARNING

POTENTIAL HAZARD

Failure to follow the age recommendations for this ATV.

WHAT CAN HAPPEN

Use by children of ATVs that are not recommended for their age can lead to severe injury or death of the child.

Even though a child may be within the age group for which some ATVs are recommended, he or she may not have the skills, abilities, or judgment needed to operate the ATV safely and could be involved in a serious accident.

HOW TO AVOID THE HAZARD

Follow the age guideline printed on your vehicle.

OPERATION WARNINGS (cont.)



POTENTIAL HAZARD

Carrying a passenger on this ATV.

WHAT CAN HAPPEN

Greatly reduces yours ability to balance and control this ATV. Could cause an accident, resulting in harm to you and/or your passenger.

HOW TO AVOID THE HAZARD

Never carry a passenger. The long seat is to allow the operator to shift position as needed during operation. It is not for carrying passengers.

OPERATION WARNINGS (cont.)

A WARNING

POTENTIAL HAZARD

Operating this ATV on paved surfaces, including sidewalks, paths, parking lots, and driveways.

WHAT CAN HAPPEN

The ATV tires are designed for off-road use. Paved surfaces may seriously affect handing and control of the ATV and may cause loss of control of the vehicle, resulting in severe injury or death.

HOW TO AVOID THE HAZARD

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



POTENTIAL HAZARD

Operating this ATV on public streets, roads, or highways.

WHAT CAN HAPPEN
You can collide with another vehicle, resulting in severe injury or death.

HOW TO AVOID HAZARD

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



A WARNING

POTENTIAL HAZARD Operating this ATV Without wearing an approved helmet, eye protection And protective clothing.

And protective clothing.

WHAT CAN HAPPEN Operating without an Approved helmet increases your chances of severe Head injury or death in event of an accident. Operating without eye protection can result in severe Injury in event of an accident.

HOW TO AVOID THE HAZARD Always wear an Approved helmet that fits properly. You should Also wear eye protection (goggles or face shield), Gloves, long-sleeved shirt or jacket, and long pants.

A WARNING

POTENTIAL HAZARD

Operating this ATV after consumption of alcohol or drugs.

WHAT CAN HAPPEN

Could seriously affect your judgment.

Could cause you to react more slowly.

Could affect your balance and protection.

Could cause an accident resulting in severe injury or death.

HOW TO AVOID THE HAZARD

NEVER consume alcohol or drugs before or while driving this ATV.

A WARNING

POTENTIAL HAZARD

Operating this ATV at excessive speeds.

WHAT CAN HAPPEN

Increases your chances of losing control of the ATV, which can cause an accident, resulting in severe injury or death.

HOW TO AVOID THE HAZARD

Always travel at a proper speed for the terrain, visibility, operating conditions, and your experience.



A WARNING

POTENTIAL HAZARD

Attempting wheelies, jumps and other stunts.

WHAT CAN HAPPEN

Increases the chance of rolling the vehicle and/or causing an accident resulting in severe injury or death.

HOW TO AVOID THE HAZARD

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

AWARNING

POTENTIAL HAZARD

Failure to inspect the ATV before operating. Failure to properly maintain the ATV.

WHAT CAN HAPPEN

Increased possibility of an accident or equipment damage. Could cause an accident resulting in severe injury or death.

- ♦ Always inspect your ATV each time you use it to make sure the ATV is in safe operating condition.
- ♦ Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.

AWARNING

POTENTIAL HAZARD

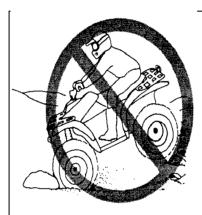
Removing hands from handlebars or feet from footrests during operation.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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



A WARNING

POTENTIAL HAZARD

Failure to use extra care when operating this ATV on unfamiliar terrain.

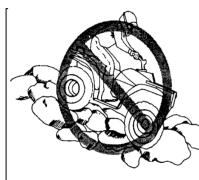
WHAT CAN HAPPEN

You can come upon hidden rocks, bumps, or holes, without enough time to react.
Could result in the ATV rolling or driver

Could result in the ATV rolling or driver losing control of the vehicle and causing an accident resulting in severe injury or death.

HOW TO AVOID THE HAZARD

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



A WARNING

POTENTIAL HAZARD

Failure to use extra care when operating on excessively rough, slippery or loose terrain.

WHAT CAN HAPPEN

Could cause damage to terrain, or loss of vehicle control, or rolling the vehicle, or causing an accident resulting in severe injury or death.

- ◆ Do not operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control the ATV on such terrain.
- Always be especially cautious on rough terrain.

A WARNING

POTENTIAL HAZARD

Turning improperly

WHAT CAN HAPPEN

Driver could lose control of the ATV, rolling the vehicle or causing an accident resulting in severe injury or death.

- ♦ Always follow proper procedures for turning.
- Practice turning at low speeds before attempting to turn at faster speeds.
- Do not turn at excessive speed.



A WARNING

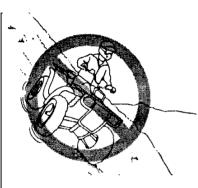
POTENTIAL HAZARD

Climbing hills improperly.

WHAT CAN HAPPEN

Could cause loss of control, or cause ATV to overturn, .or cause an accident resulting in severe Injury or death.

- ♦ Always follow proper procedures for climbing hills.
- Always 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. The ATV could flip over backwards.
- Never go over the top of any hill at high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.



A WARNING

POTENTIAL HAZARD

Going down a hill improperly.

WHAT CAN HAPPEN

Could cause loss of control or cause ATV to overturn causing an accident resulting in severe injury or death.

- ♦ Always follow proper procedures for going down hills as described in the Owner's Manual.
- ♦ Always check the terrain carefully before you start down any hill. Shift your weight backward. Never go down a hill at high speed.
- ◆ Avoid going down a hill at an angle that could cause the vehicle to lean sharply to one side.
- Go straight down the hill where possible.



A WARNING

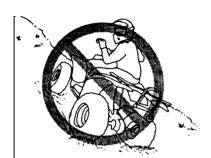
POTENTIAL HAZARD

Improperly crossing hills or turning on hills.

WHAT CAN HAPPEN

Could cause loss of control, or ATV to roll, or cause an accident resulting in severe injury or death.

- Avoid 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 on level ground. (Practice turning at low speeds on level ground before attempting to turn at faster speeds.)
- Avoid crossing the side of a steep hill if possible.



A WARNING

POTENTIAL HAZARD

Stalling, rolling backwards or improperly dismounting while climbing a hill.

WHAT CAN HAPPEN

Could allow ATV to overturn causing an accident resulting in severe injury or death.

- Maintain steady speed when climbing a hill.
- <u>If you lose all forward speed:</u> Keep weight uphill. Apply the brakes. Lock parking brake after you are stopped.
- ♦ If you begin rolling backwards: Keep weight uphill; never apply engine power. Never apply the rear brake while rolling backwards. Apply the front brake slowly by squeezing the RH lever. When fully stopped, apply rear brake as well, and then lock parking brake. Dismount on uphill side, or to either side if pointed straight uphill.
- ◆ Turn the ATV around and remount, following the procedure described in the Owner's Manual.

A WARNING

POTENTIAL HAZARD

Skidding or sliding.

WHAT CAN HAPPEN

You may lose control of the ATV.

You may also regain traction unexpectedly; both of which may allow the ATV to overturn causing an accident resulting in severe injury or death.

HOW TO AVOID THE HAZARD

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

A WARNING

POTENTIAL HAZARD

Improperly operating over obstacles.

WHAT CAN HAPPEN

Could cause loss of control or a collision. Could cause the ATV to overturn.

- ♦ Before operating in a new area, check for obstacles.
- ♦ Never attempt to ride over large obstacles such as large rocks or fallen trees.
- If you cannot avoid obstacles, use extreme caution when riding over obstacles.

A WARNING

POTENTIAL HAZARD

Riding on frozen lakes and rivers.

WHAT CAN HAPPEN

Severe injury or death can result if the ATV and/or the operator break through the ice.

HOW TO AVOID THE HAZARD

Never ride your ATV on a frozen body of water.

A WARNING

POTENTIAL HAZARD

Operating this ATV through deep or fast following water.

WHAT CAN HAPPEN

Tires may float, causing loss of traction and loss of control, which could lead to an accident, resulting in severe injury or death.

- ♦ Avoid operating the ATV through deep or fast flowing water. If you cannot avoid water which exceeds the recommended maximum depth, go slowly, balance your weight carefully avoiding sudden movement, maintain a slow and steady forward motion, do not make sudden turns or stops, and do not make sudden throttle changes.
- Remember that wet brakes have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the pads.

A WARNING

POTENTIAL HAZARD

Operating this ATV with incorrect size tires or with uneven tire pressure.

WHAT CAN HAPPEN

Use incorrect size tires on this ATV, or operation of this ATV with uneven tire pressure, may cause loss of control and increases the risk of an accident resulting in severe injury or death.

- ♦ Always use the size and type tires specified in the Owner's Manual for this vehicle.
- ♦ Always maintain proper tire pressure as described in the Owner's Manual.

A WARNING

POTENTIAL HAZARD

Overloading this ATV.

WHAT CAN HAPPEN

Could cause changes in vehicle handling that could lead to an accident resulting in severe injury or death.

- ♦ Never exceed the stated load capacity for this ATV.
- Cargo should be properly distributed and securely attached.
- Reduce speed.
- Allow greater distance for braking.

▲ WARNING

After a rollover or an accident, have a qualified service dealer check the entire vehicle including, but not limited to, brakes, throttle and steering for possible damage.

A WARNING

Safe operation of this rider active vehicle requires good judgment and physical skills. Persons with cognitive or physical disabilities who operate this vehicle have an increased risk of overturns and loss of control, which could result in severe injury or death.

A WARNING

POTENTIAL HAZARD

Operating this ATV with improper modifications.

WHAT CAN HAPPEN

Improper installation of non-OEM accessories or modification of this vehicle may cause changes in handling which, in some situations, could lead to an accident.

- ◆ Never modify this ATV through improper installation or use of non-OEM accessories.
- ♦ All parts and accessories added to this vehicle should be designed for use on this ATV and should be installed and used according to instructions.
- ♦ WARNING: Do not ride this vehicle without battery properly installed. Riding *Kolpin Powersports 180cc* without battery properly installed may cause short-circuit and result in shorting out electrical system causing a fire, resulting in severe injury or death.
- If you have questions, consult an authorized dealer

VEHICLE MAINTENANCE

VEHICLE IDENTIFICATION NUMBERS

Record these numbers from your ATV in the spaces provided.

- 1. Engine Serial Number (Left side of engine crankcase)
- 2. Frame VIN (found on the front of frame below steering post)

Remove the spare key and store in a safe place. Your key can be duplicated only by obtaining a key blank from *Kolpin Powersports* and having it cut by using your existing key.

The Engine Serial Number and Frame VIN are important for model identification when registering your vehicle, obtaining insurance or whenever replacement parts are required. If your vehicle is stolen these numbers are essential to the recovery and identification of your ATV.

PERIODIC MAINTENANCE SCHEDULE

- Periodic maintenance will help keep your ATV in the safest, most reliable condition. Inspection, adjustment and lubrication intervals of important components are explained in the chart on the following pages.
- Maintenance intervals are based upon average riding conditions and an average ATV speed of approximately 10-mph. ATVs subjected to severe use, such as operation in wet, dusty or salt-water areas, should be inspected and serviced more frequently. If you are not familiar with safe service and adjustment procedures, have your local *Kolpin Powersports* dealer perform these operations.
- Inspect, clean, lubricate, adjust or replace parts as necessary. NOTE: Inspection may reveal the need for replacement parts. Always use genuine parts available from your local *Kolpin Powersports* dealer.

A CAUTION

Due to the nature of the adjustments marked with a in the following maintenance table, it is recommended that an authorized overland dealer perform service.

Adjustments marked with must be performed more often if ATV is under severe use, such as dirty or wet conditions.

ITEM	HOURS OR MILES	WHEN	REMARKS
Brake System	Pre-ride	Pre-ride	Check Operation (See pg. 108)
Tires	Pre-ride	Pre-ride	Check inflation. PSI Front-5 , Rear-3
Wheels	Pre-ride	Pre-ride	Check for loose nuts.
Frame nuts, bolts, fasteners	Pre-ride	Pre-ride	Look for loose fasteners
Engine Oil	Daily	Daily	Check when refueling
Brake pad wear	10 hrs/100 miles	Monthly	Inspect periodically; replace as necessary.

	ITEM	HOURS OR MILES	WHEN	REMARKS
	Carburetor Float Bowl	50 hrs	6 mos	Drain bowl periodically and prior to storage
	Throttle Cable	50 hrs	6 mos	Inspect- adjust, lubricate, replace if necessary; pre-ride inspection item
	Steering	50 hrs	6 mos	Inspect daily, lubricate
	Rear Axle	50 hrs	6 mos	Inspect bearings, Lube
	Front Suspension	50 hrs	6 mos	Inspect-lubricate, tighten fasteners
	Rear Suspension	50 hrs	6 mos	Inspect, tighten fasteners
	Drive Chain	50 hrs	6 mos	Inspect daily, adjust and lubricate if needed
	Clutches (drive & driven	100 hrs	12 mos	Inspect, clean
	Engine Oil	100 hrs	6 mos	Change oil, clean filter

ITEM	HOURS OR MILES	WHEN	REMARKS
Engine Mounts	100 hrs	12 mos	Inspect
Spark Plug	100 hrs	12 mos	Inspect-replace if necessary
Ignition Timing	100 hrs	12 mos	Inspect and adjust as needed
Fuel System	100 hrs	12 mos	Check for leaks at tank cap, lines, fuel valve, filter, and carburetor. Replace lines every two years.
Fuel Filter	100 hrs	12 mos	Replace annually
Air Filter	100 hrs	12 mos	Replace
Front wheel bearings	300 hrs	36 mos	Inspect, replace if necessary
Idle Speed	As Required	As Required	Adjust
Toe adjustment	As Required	As Required	Periodic inspection, adjust when parts are replaced

LUBRICATION RECOMMENDATIONS

ITEM	LUBRICATION RECCOMMENDATION	METHOD	FREQUENCY
Engine Oil	SF-SG SAE 15W-40	See page 116	Change every 6 mos., or 100 hrs.
Transmission Oil	SAE 85W-140	See page 115.	Change annually or at 200 hrs.
Drive Chain	SAE 85W-140 or chain lube.	Lubricate as often as required. Before each ride in wet conditions	As required.
Front-A-Arm	Grease	Locate fittings and grease.	Every 3 mos or 50 hrs.

PERIODIC MAINTENANCE RECORD

Use the following chart to record periodic maintenance work:

Maintenance	Servicing Date	Servicing Dealer	Remarks
Interval Performed		or Person	
First 5 hrs.			
25 hrs.			
50 hrs.			
75 hr.			
100 hrs.			

PERIODIC MAINTENANCE RECORD

Maintenance	Servicing Date	Servicing Dealer	Remarks
Interval Performed		or Person	

The following items should be checked occasionally for tightness.

AXLE AND WHEEL NUT TORQUE SPECIFICATIONS

Front Spindle Nuts 42 – 45 ft. lbs (58-62 Nm)

Rear Spindle Nuts 78 – 81 ft. lbs (108-112 Nm)

NOTE: an authorized dealer must service all nuts that have a cotter pin installed.

FRONT WHEEL HUB TIGHTENING

Front wheel bearing tightness and spindle nut retention are critical component operations. Your authorized *Kolpin Powersports* dealer must perform Service work.

REAR SPRING ADJUSTMENT

The rear shock absorber spring is adjusted by rotating the adjuster clockwise, to one of five (5) positions, to increase spring rate or counter-clockwise to decrease spring rate.



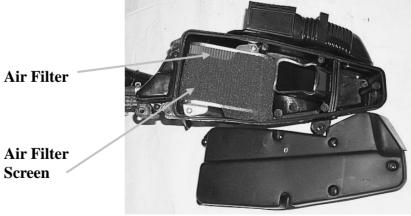
Rear Shock Absorber Spring Adjuster

ENGINE AIR FILTER

The engine air filter should be changed every 100 hours of operation, or annually (service more often if run in dusty or wet conditions). The air filter is located under the rear body. It is recommended that you have your local dealer perform this procedure.

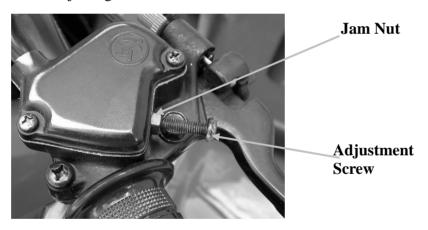
- 1. Remove the seat, battery, bolts (fender bolts) holding rear body to floorboards and frame, unplug taillight and remove rear body from frame to access the engine air filter.
- 2. Loosen the screws on the air filter cover and remove cover, screen and air filter.
- 3. Clean the air filter screen with mild, sudsy water; rinse and allow to air dry.
- 4. Install the NEW air filter and replace the air filter screen.
- 5. Re-assemble the air filter body and cover; reattach to the carburetor with screw.
- 6. Re-attach the rear body, battery, fender bolts, seat and plug in taillight.

7. Check to make sure the taillight and brake light work.



THROTTLE STOP SYSTEM

The Adjustable Throttle Stop System (throttle limiting screw) allows you to limit the speed of the vehicle according to the rider's skill and experience. The throttle stop system controls how far the throttle opens. To adjust, loosen the jam nut, turn the screw inward to reduce speed and outward to increase speed. Tighten the jam nut after adjusting.



STEERING INSPECTION

The steering assembly of the ATV should be checked periodically for loose nuts and bolts. Before riding the ATV, have your dealer tighten any loose nuts and bolts you find.

CAMBER AND CASTER

Not adjustable. See your dealer.

TOE ALIGNMENT – SEE YOUR LOCAL *Kolpin Powersports* dealer.



Do not attempt to adjust the tie rod for toe alignment. Severe injury or death can result from improper adjustment. Contact your local dealer. They have the training and tools to make adjustments.

BRAKE ADJUSTMENT

Front Brakes

Each front brake has a cable connected to the right-hand brake lever. Check the front brakes by turning the adjustment knob until free-play is in acceptable range. The acceptable range for the front brake levers' free-play is $\frac{3}{8} \sim \frac{3}{4}$ in. (10 ~ 20 mm).



Front Brake Adjustment Knobs

Use the adjustment knobs to change free play. Check free play by measuring the travel of the free end of the front brake levers from their rest position to the position where you first feel tension on the cables. The free-play should fall between $\frac{3}{8} \sim \frac{3}{4}$ in. (10 mm \sim 20 mm).

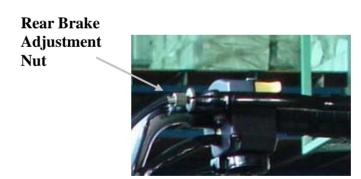
BRAKE ADJUSTMENT (cont.)

Rear Brakes

The rear brake is operated by using the left-hand brake lever. The adjustment nut for the rear brake is beneath the brake light at the back of the ATV.

To adjust free play turn the adjustment nut until you reach the proper free-play setting. Check free play by measuring the travel of the free end of the rear brake lever from its rest position to its position when you first feel tension on the cable. The free-play and should fall between $^{3}/_{8} \sim ^{3}/_{4}$ in. (10 mm \sim 20 mm).

To adjust the rear brake, turn the adjustment nut until the proper free-play is attained. The free play range for the rear brake is $^{3}/_{8} \sim ^{3}/_{4}$ inch (10 mm ~ 20 mm).



BRAKE ADJUSTMENT (cont.)

Auxiliary Brake Adjustment

The Kolpin Powersports 180 a rear auxiliary foot brake located at the right side of the engine assembly and is operated by the operator's right foot. To adjust, follow the steps below.

- 1. Make adjustments to rear brake lever as described on page 109.
- 2. Remove the four (4) bolts securing the right floorboard to frame and slide outward enough to access adjustment on brake cable.
- 3. Loosen the lock nut and turn adjustment nut clockwise until proper pedal height is obtained, then tighten lock nut.
- 4. Reinstall floorboard and bolts.



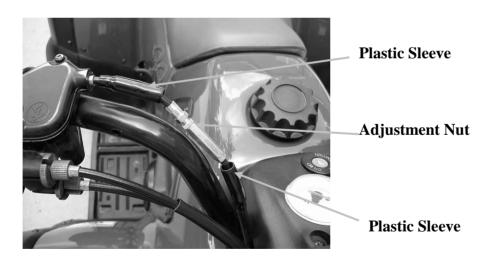
Brake

Adjustment **Cable Lock**

Nut

THROTTLE CABLE ADJUSTMENT

- Check the throttle for smooth operation before every riding session.
- Periodically check the throttle free-play. It should be kept between $^{1}/_{16} \sim ^{1}/_{8}$ in. (1.5mm ~ 3.2mm).
- If adjustment is required, turn the adjustment nut until the free-play reaches the acceptable limit (adjustment nut is protected by plastic sleeves, pull the sleeves back to expose the adjustment nut). Check free play by measuring the travel of the free end of throttle lever from its rest position to the position when you first feel tension on the cable.



SPARK PLUGS

The proper spark plug for the *Kolpin Powersports 180* is the NGK C7HSA or NGK CR7HSA. The spark plug gap should be between $.024 \sim .028$ inch $(0.6 \sim 0.7 \text{ mm})$. An incorrect spark plug gap can cause the spark plug to foul.

The spark plug and its condition is an indicator of how the engine is operating. The firing end of the spark plug should be checked after the engine has warmed up and the vehicle has been driven at higher speeds. Immediately check the spark plug for correct color:

1. Normal – The insulator tip is gray, tan or light brown. There will be a few combustion deposits. The electrodes are not burned or eroded. This indicates the proper type and heat range for the engine and the service.

NOTE: The tip should NOT be white. A white insulator tip indicates overheating caused by use of an improper spark plug or incorrect carburetor adjustments.

2. Wet fouled – The insulator tip is black. A damp oily film covers the firing end. There may be a carbon layer over the entire nose. Generally, the electrodes are not worn. General causes are excessive oil due to low compression or incorrect carburetor adjustments.

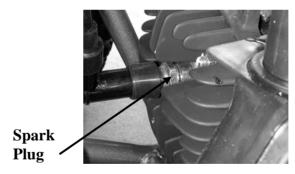
Spark Plug Removal and Replacement

1. The spark plug can be removed by using the special wrench provided in the tool pouch. Remove the spark plug cap and then the spark plug by rotating counter clockwise.

AWARNING

NEVER attempt to remove a spark plug while the engine is warm. The exhaust system or engine could burn you and cause severe injury.

- 2. Reverse the procedure for spark plug installation. Torque to 17 ft. lbs.
- 3. NOTE: Failure to use the recommend spark plug type could cause engine damage. Recommended type is NGK C7HSA or NGKCR7HSA.



ATV STORAGE (long-term)

When your ATV is to be stored for a period of more than 60 days, certain preparations should be made for the engine and fuel system to prevent rust and/or corrosion of engine parts.

Supplies Needed:

- 1. Vinyl & rubber protectant
- 2. Fuel Stabilizer
- 3. Fogging Oil
- 7. Brake oil

- 4. SAE 85W-140 transmission oil
- 5. SAE 15W-40 engine oil
- 6. Chain and cable lube
- Clean, wash, and dry ATV. Apply vinyl and rubber protectant to all vinyl and plastic surfaces.
- Add fuel stabilizer to the tank and let run for at least five (5) minutes to get additives through the entire fuel system.
- Remove and clean air filter. Before replacing air filter, start engine and lubricate engine with fogging oil. Replace air filter.
- Remove battery leads and charge battery with a storage charger.
- Place unit on stand so tires are not touching the ground and let all the air out. This will keep tires from getting flat spots.
- Drain and refill the transmission oil with 7 oz. SAE 85W-140 (see page 115).
- Drain and refill the engine oil with 28 to 32 oz of SAE 15W-40 API classification SF-SG motor oil (see page 116).

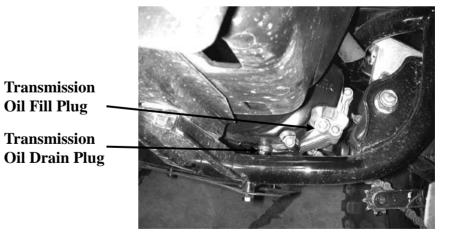
• Lubricate chain and cables with SAE 85W-140 oil or chain & cable oil.

VEHICLE MAINTENANCE (cont.)

TRANMSSION OIL CHANGE

Change the gear oil after the first 30 hours of operation. The recommended gear oil is SAE 85W-140.

- Run ATV for at least five (5) minutes or until warm. Turn off unit and remove the ignition key.
- Place a suitable container for draining oil beneath the rear of engine.
- Remove the transmission drain plug (located under rear of sprocket shaft). Let drain complete.
- 4. Remove fill plug located on left rear of engine case.
- Inspect drain and fill plug gasket for damage. Replace with new gasket if damaged.
- Replace drain plug, torque to 95 in. lbs.
- 7. Fill transmission through the oil fill plug with 7 oz. or 200 cc SAE 85W-140 gear oil.
- Replace oil fill plug and start the engine.
- Check for leaks.

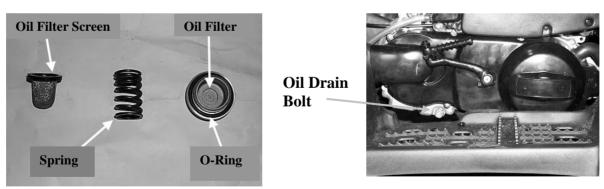


Transmission Oil Fill Plug

Transmission

ENGINE OIL CHANGE

- 1. Run unit for at least five (5) minutes or until warm. Turn Ignition Key to OFF and remove the key.
- 2. Place suitable container for draining oil beneath the engine.
- 3. Remove the engine drain plug, oil filter cap, spring and oil filter screen. Let the oil drain completely.
- 4. Clean and inspect oil drain plug gasket, oil cap sealing O-ring and oil filter screen for damager. Replace if damaged.
- 5. Install the drain plug and torque to 12 ft. lbs.
- 6. Fill with API classification SF-SG SAE 15W-40 Oil, 28 32 oz.
- 7. Start engine and check for leaks.
- 8. Shut off engine and check the oil level with the dipstick. Do not screw it in when making this check. Add oil if necessary to fill up to the safe range indicated on the dipstick.



BRAKE OIL ENSURE

Check the brake oil tank.

If the brake oil to reduce under the limit.

You must to fill the brake oil until upper limit.

Be careful the brake oil when to topple into the oil tank to avoid the oil to sprinkle





TIRE / TIRE PRESSURE / TIRE INSTALLATION

AWARNING

- ATV tires can become distorted by over-inflation. (Ballooning, stretching of rubber and fiber cords).
- Once a tire has been over-inflated it will not return to its original size.
- Operating your ATV with worn tires, improperly inflated tires, non-standard tires or improperly installed tires will affect vehicle handling, which could cause an accident resulting in serious injury or death.
- Follow the safeguards listed below to prevent this type of situation.

Important Safeguards:

- Maintain proper tire pressure according to the chart on the following page.
- Always use original size and type tire.
- Make certain the wheels are installed properly
- Always replace tires when tread depth is worn to $\frac{1}{8}$ in. (.3 cm) or less.

TIRE / TIRE PRESSURE / WHEEL INSTALLATION (cont.)

ATV Model	Tire Size		PSI		Wheel Nut Torque
	Front	Rear	Front	Rear	
Kolpin Powersports	21x7-10	21x10-8	5	3	28 ft lbs
180cc					

WHEEL INSTALLATION:

- 1. Lock the parking brake; place the wheel in the correct position on the wheel hub. Be sure the valve stem is toward the outside and rotation arrows on the tire point toward forward rotation.
- 2. Attach the wheel nuts and finger-tighten them.
- 3. Lower the vehicle to the ground.
- 4. Securely tighten the wheel nuts according to the chart below.

Item	Specification
Front/Rear Wheel Bolts	22 – 29 ft lbs (30 – 40 Nm)
Front Spindle Nut	42 – 45 ft lbs (58 – 62 Nm)
Rear Spindle Nut	78 – 81 ft lbs (108 – 112 Nm)

TIRE / TIRE PRESSURE / TIRE INSTALLATION (cont.)

WHEEL REMOVAL PROCEDURE:

- 1. Stop the engine and lock the parking brake.
- 2. Loosen the wheel nuts slightly.
- 3. Elevate the side of the vehicle by placing a suitable stand under the footrest frame.
- 4. Remove the wheel nuts and remove the wheel.

DRIVE CHAIN INSPECTION AND ADJUSTMENT

Regularly lubricate the drive chain with SAE 85W-140 oil or chain & cable lube.

A CAUTION

Never wash the chain with a high-pressure washer or gasoline. Damage could result, causing premature wear and drive chain failure.

A CAUTION

The adjuster stud must be held secure when tightening jam nuts or the stud may break.

DRIVE CHAIN INSPECTION AND ADJUSTMENT (cont.)

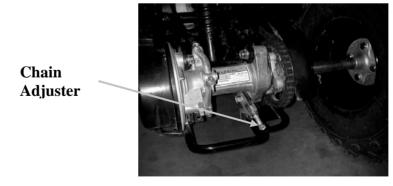
The normal chain slack should be kept between $^{1}/_{2} \sim 1$ in. (13 mm ~ 25 mm)

A CAUTION

Never adjust or operate the vehicle with the rear drive chain too loose or too tight as severe damage to the transmission and drive components can result.

Adjustment Procedure

- 1. Loosen 4 rear housing mount bolts.
- 2. Tighten chain adjust to reduce slack to recommended setting $^{1}/_{2} \sim 1$ in. (13 mm ~ 25 mm).
- **3.** Tighten jam nuts on chain adjuster.
- **4.** Tighten the four rear housing mount bolts.



BRAKELIGHT LAMP REPLACEMENT

If the brake light does not work the bulb may need to be replaced.

- 1. From the rear of the brake light, remove two screws holding lens cover in place and remove lens cover.
- 2. Remove bulb and replace it with the recommended bulb #1157 or 12V-P21/5W.
- 3. Test the brake light to see if it is working.
- 4. Reinstall the lens cover removed in Step 1.



CLEANING YOUR ATV

Keeping your ATV clean will not only improve its appearance but it can also extend the life of various components. With a few precautions, your ATV can be cleaned much like an automobile.

Washing

Do not use a high-pressure type car wash system. Many expensive repair bills can result from the damage caused by the high-pressure wash to wheel bearings, transmission seals, body panels, brakes and warning labels.

The best and safest way to clean your ATV is with a garden hose and a pail of mild soap and water. Use a professional type washing mitten, cleaning the upper body first and the lower parts last. Rinse with water frequently and dry with a chamois to prevent water spots. NOTE: If warning labels are damaged, contact your *Kolpin Powersports* dealer for replacement.

Waxing

Your ATV can be waxed with any non-abrasive past wax. Avoid the use of harsh cleaners since they can scratch the body finish.

TRANSPORTING

Whenever the ATV is to be transported the following measures should be taken.

- 1. Turn the fuel valve OFF (if so equipped).
- 2. Be certain the fuel cap and seat are installed correctly.
- 3. Always tie the frame of the ATV to the transporting unit securely using suitable straps or rope.
- 4. Always lock the parking brake.

CARBURETOR ADJUSTMENTS

If the ATV is to be operated at various altitudes and temperatures, certain adjustments can be made to improve its operation. Above 6,000 feet (1,800 m), the engine air/fuel mixture becomes overly rich. An engine loses approximately 3% of its power for each 1,000 feet (304.9 m) increase in elevation. This power cannot be regained but changes to the carburetor and drive system can be made to allow efficient operation. These changes include:

- 1. Carburetor re-jetting to compensate for altitude and/or temperature changes.
- 2. Transmission converter modification to adjust for loss of horsepower in high altitude operation.
- 3. On models with air screw, adjustments can be made to compensate for temperature and/or altitude changes.

NOTE: Contact your dealer for all altitude adjustments. They have the training and special tools necessary to perform all modifications for you.

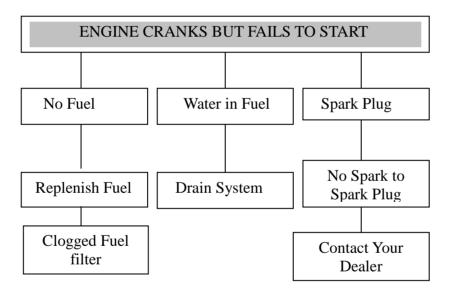
Overland ATV 180 Specifications

ITEM	Kolpin Powersports 180	
ENGINE TYPE	Air Cooled, 4-Stroke	
DISPLACEMENT	169 cc	
BORW STROKE	61x57.8 mm	
COMPRESSION RATIO	9.4:1	
MAX. TORQUE	9.15 Nm @ 6250 rpm	
STARTING	Electric w/Kick Start Backup	
LUBRICATION / OIL CAPACITY	Oil Injection / 1 quart (1 liter)	
TRANSMISSION	Automatic CVT w/reverse gear	
SUSPENSION FRONT	Double Wishbone	
REAR	Swing Arm	
BRAKE FRONT	Drum	
REAR	Drum	
TIRE FRONT	21 x 7-10	
REAR	22 x 10-8	
OVERALL DIMENSION	71.7 x 38.4 x 41.7 inches	
WHEELBASE	41.3 inches	
SEAT HEIGHT	33.5 in	
GROUND CLEARANCE	6.3 in	
DRY WEIGHT	348.3 lbs. (158 kg)	
MAX. LOAD	319 lbs (145 kg)	
FRONT RACK MAX. LOAD	33 lbs (15kg)	
REAR RACK MAX. LOAD	66 lbs (30 kg)	
FUEL	Unleaded Gasoline	
FUEL CAPABILITY	2.11 Gallons (8 liters)	

TROUBLESHOOTING

Procedures

The following information is provided to help you identify probable questions you may have about the operation of your ATV. See your dealer with any additional questions you may have.



TROUBLESHOOTING (cont.)

