



POLARIS[®]
The Way Out.

2007

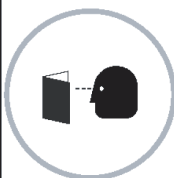
**Quadricycle Owner's Manual
for Maintenance and Safety**

**Hawkeye 2X4
Hawkeye 4X4**

Read this manual carefully. It contains important safety information.

This is an adult vehicle only.

Operation is prohibited for those under 16 years of age.



GB

Before you operate this vehicle, read the owner's manual.

D

Lesen Sie die Bedienungsanleitung bevor Sie dieses Fahrzeug fahren.

E

Antes de conducir este vehiculo, lea el Manual del Propietario.

F

Lire le manuel du propriétaire avant d'utiliser ce véhicule.

I

Prima di usare il veicolo, leggete il manuale di istruzioni.

FI

Lue aina käyttöohjekirja ennen tämän ajoneuvon käyttöä.

P

Antes de utilizar este veículo, leia o manual do proprietário.

S

Innan du kör detta fordon, läs handboken.

© 2004

7173025



POLARIS
The Way Out.

For your nearest Polaris dealer,
call +1-800-POLARIS
or visit www.polarisindustries.com
Polaris Sales Inc.,
2100 Hwy. 55, Medina, MN 55340 U.S.A.
Phone +1-763-417-8650 Fax +1-763-542-0599
Part No. 9920788 Rev 01
Printed in U.S.A.

WELCOME

Thank you for purchasing a Polaris vehicle, and welcome to our world-wide family of Polaris owners. We proudly produce an exciting line of utility and recreational products.

- Snowmobiles
- All-terrain vehicles (ATVs)
- Quadricycles
- *RANGER* utility vehicles
- Victory motorcycles

Always follow the instructions and recommendations in this manual. The manual contains instructions for minor maintenance, but information about major repairs is outlined in the Polaris Service Manual and should be performed only by a Factory Certified Master Service Dealer (MSD) Technician. Please see your dealer for all of your service needs during (and after) the warranty period.

For more information about Polaris, visit us online at www.polarisindustries.com.



POLARIS®
The Way Out.

POLARIS and POLARIS THE WAY OUT are registered trademarks of Polaris Industries Inc.

Copyright 2006 Polaris Sales Inc. All information contained within this publication is based on the latest product information at the time of publication. Due to constant improvements in the design and quality of production components, some minor discrepancies may result between the actual vehicle and the information presented in this publication. Depictions and/or procedures in this publication are intended for reference use only. No liability can be accepted for omissions or inaccuracies. Any reprinting or reuse of the depictions and/or procedures contained within, whether whole or in part, is expressly prohibited.

Printed in U.S.A.

2007 Hawkeye 2X4/Hawkeye 4X4 International Owner's Manual

P/N 9920788

TABLE OF CONTENTS

Know Your Vehicle	4
Safety	5
Features and Controls	34
Operation	47
Emission Control Systems	52
Maintenance	53
Adjustments	103
Polaris Products	107
Troubleshooting	108
Specifications	112
Warranty	116
Maintenance Log	119
Index	121

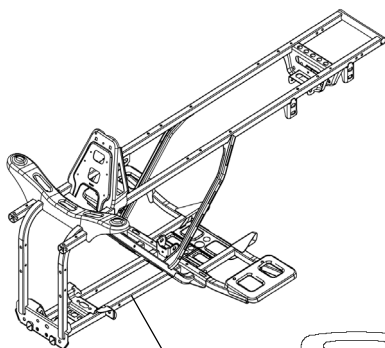
KNOW YOUR VEHICLE

As the operator of the vehicle, you are responsible for your personal safety, the safety of others, and the protection of our environment. Read and understand your owner's manual, which includes valuable information about all aspects of your vehicle, including safe operating procedures.

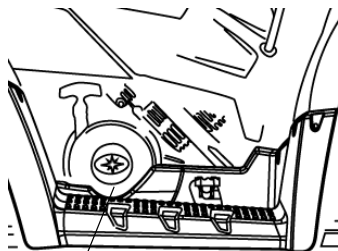
Ride responsibly. Know all laws and regulations concerning the operation of this vehicle in your area.

Vehicle Identification Numbers

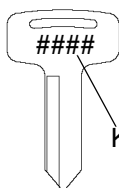
Record your vehicle's identification numbers and key number in the spaces provided. Remove the spare key and store it in a safe place. An ignition key can be duplicated only by ordering a Polaris key blank (using your key number) and mating it with one of your existing keys. The ignition switch must be replaced if all keys are lost.



VIN



Engine Serial Number



Key Number

Vehicle Model Number: _____

Frame VIN: _____

Engine Serial Number: _____

Key Number: _____

Operator Safety

The following signal words and symbols appear throughout this manual and on your vehicle. Your safety is involved when these words and symbols are used. *Become familiar with their meanings before reading the manual.*



The *safety alert symbol*, on your vehicle or in this manual, alerts you to the potential for injury.

WARNING

The *safety alert warning* indicates a potential hazard that may result in serious injury or death.

CAUTION

The *safety alert caution* indicates a potential hazard that may result in minor injury or damage to the vehicle.

CAUTION

A *caution* indicates a situation that may result in damage to the vehicle.

NOTE

A *note* will alert you to important information or instructions.

SAFETY

Operator Safety

WARNING

Failure to follow the warnings in this manual can result in serious injury or death. A Polaris Quadricycle is not a toy and can be hazardous to operate. A collision or rollover can occur quickly, even during routine maneuvers, if you fail to take proper precautions.

Read and understand your owner's manual and all warnings before operating a Polaris Quadricycle.

Safety Training

When you purchased your new Quadricycle, your dealer offered a hands-on safety training course. You were also provided with printed materials that explain safe operating procedures. Review this information on a regular basis.

If you purchased a used Polaris Quadricycle from a party other than a Polaris dealer, please request free safety training from any authorized Polaris dealer.

Age Restrictions

This vehicle is an **ADULT VEHICLE ONLY**. Operation is prohibited for anyone under 16 years of age.

Restrictions

This vehicle is approved for **OFF-ROAD TOWING ONLY**. Operating a Quadricycle/trailer combination on public roads is prohibited.

Equipment Modifications

The warranty on your Polaris Quadricycle may be terminated if any equipment has been added, or if any modifications have been made, that increase speed or power.

NOTE: The addition of certain accessories, including (but not limited to) mowers, blades, tires, sprayers and large racks may change vehicle handling. Use only Polaris-approved accessories. Know their function and effect on the vehicle.

Operator Safety

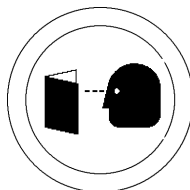
WARNING

Serious injury or death can result if you do not follow the instructions and procedures listed here and throughout this manual.



Read and understand all warnings, cautions and operating procedures in this manual and on the safety labels before operating the Quadricycle.

Read and understand all warnings, cautions and operating procedures in this manual and on the safety labels before operating the Quadricycle.



Never operate a Quadricycle without proper instruction. *Take a training course.* Beginners should receive training from a certified instructor. Contact an authorized Polaris Quadricycle dealer or call Polaris at 1-800-342-3764.

Never permit others to operate the Quadricycle unless they have read and understand this manual and all product labels, and have completed a certified safety training course.



Never allow anyone under 16 years of age to operate this vehicle.



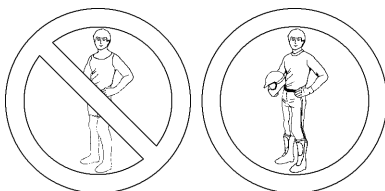
Never carry a passenger. The purpose of the long seat is to allow the operator to shift position.



SAFETY

Operator Safety

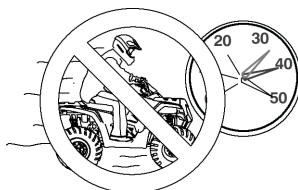
Always wear an approved helmet that fits properly. Wear eye protection (goggles or face shield), gloves, boots, long sleeves and long pants.



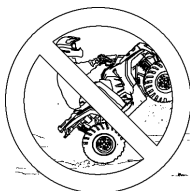
Never consume alcohol or drugs before or while operating a Quadricycle.



Never operate at excessive speeds. Travel and turn at speeds appropriate for the terrain, visibility, operating conditions and your experience.

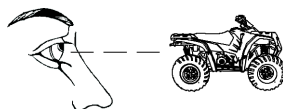


Never attempt jumps or other stunts.

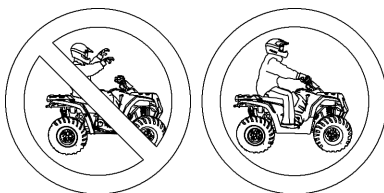


Operator Safety

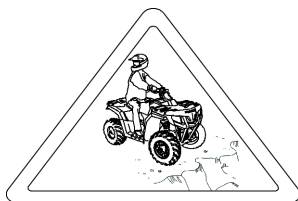
Always inspect your Quadricycle before each use to verify that it's in safe operating condition. Follow the inspection and maintenance procedures outlined in this manual. See page 49.



Keep both hands on the handlebars. Keep your feet on the footrests.



Always travel slowly when operating on unfamiliar terrain. Use extra caution.



Use caution when operating on rough, slippery or loose terrain.



Always follow the procedures outlined in this manual for turning. See page 19.



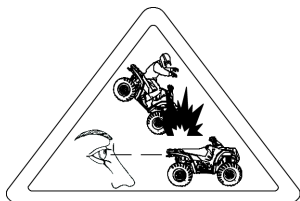
Never turn sharply at excessive speeds, which can lead to vehicle overturn.



SAFETY

Operator Safety

If a Quadricycle has been involved in an accident, always have an authorized Polaris dealer inspect the entire vehicle for possible damage, including (but not limited to) brake, throttle and steering systems.

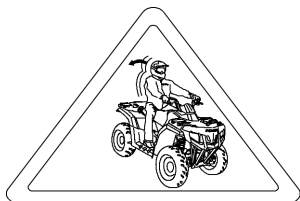


Never operate on hills too steep for the Quadricycle or for your abilities. Practice on smaller hills before attempting larger hills. Avoid climbing hills steeper than 25°.

Always follow the procedures outlined in this manual for climbing hills. See page 22.

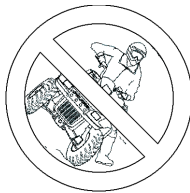


Always follow the procedures outlined in this manual for driving downhill and for braking on hills. See page 25.



Always follow the procedures outlined in this manual for crossing the side of a hill. See page 24.

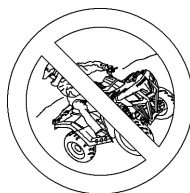
Never attempt to turn the Quadricycle around on any hill until you've mastered (on level ground) the turning technique outlined in this manual.



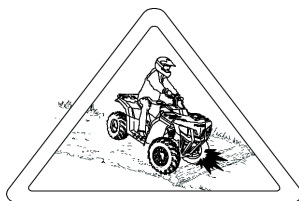
Operator Safety



Always follow the procedures outlined in this manual for braking if you stall or roll backwards while climbing a hill. Never back down a hill. See page 26.



Always follow the procedures outlined in this manual for operating over obstacles. See page 21.



Always follow the procedures outlined in this manual for operating on slippery or loose surfaces. Use extra caution. Always avoid skidding or sliding. See page 20.



Always follow the procedures outlined in this manual for driving through water. Never drive through deep or fast-flowing water. See page 28.

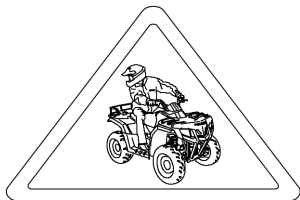


SAFETY

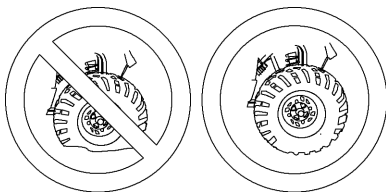
Operator Safety



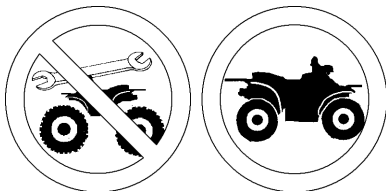
Always follow the procedures outlined in this manual for driving in reverse. See page 31.



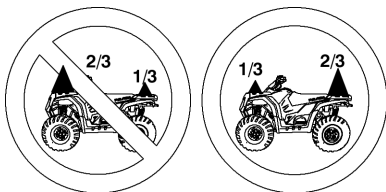
Always use the size and type of tires specified for your Quadricycle. Maintain the proper tire pressure.



Never modify a Quadricycle through improper installation or use of accessories.

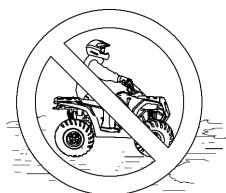


Never exceed the stated load capacity for your Quadricycle. Cargo must be properly distributed and securely attached. Reduce speed and follow the instructions in this manual for carrying cargo or towing. Allow a greater distance for braking.

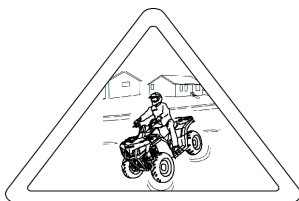


Operator Safety

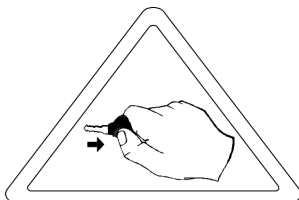
Never operate the Quadricycle on a frozen body of water.



Operating on paved surfaces may seriously affect the handling and control of the Quadricycle and could result in loss of control, accident, and/or injury. Avoid sudden turns or swift movement of the handlebars.



Always remove the ignition key when the vehicle is not in use to prevent unauthorized use or accidental starting.



Hot components can cause serious burns and fire. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system.



**For more information about Quadricycle safety,
call Polaris at 1-800-342-3764.**

SAFETY

Safety Decals and Locations

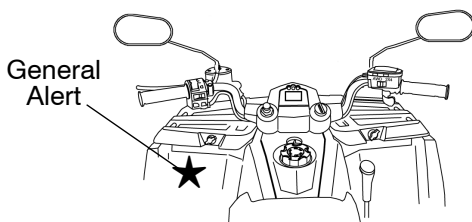
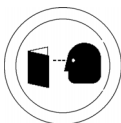
Warning decals have been placed on the vehicle for your protection. Read and follow the instructions on each decal carefully. If a decal becomes illegible or comes off, contact your Polaris dealer to purchase a replacement. Replacement safety decals are provided by Polaris at no charge. The part number is printed on the decal.

The following pages repeat the information found on each decal.



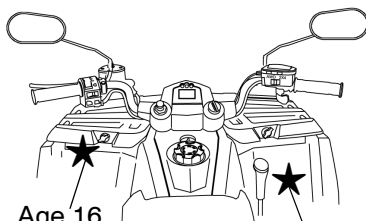
General Alert (Multi-Lingual)

Before you operate this vehicle, read the owner's manual.



Hill Operation Alert

- Never operate this vehicle on HILLS steeper than 25 degrees $\leq 25^\circ$.
- To prevent flip-over on hilly terrain, when going up or down, use throttle and brakes gradually.

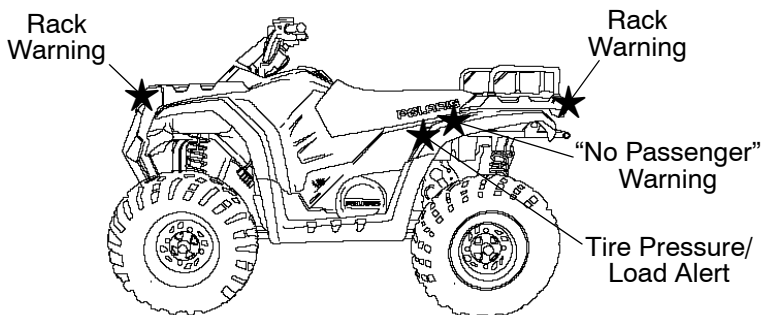


Age 16
Alert

Hill Operation
Alert



Safety Decals and Locations



“No Passenger” Warning

WARNING

NEVER ride as a passenger. Passengers can cause a loss of control, resulting in SEVERE INJURY or DEATH.



Tire Pressure/Load Alert

TIRE PRESSURE IN PSI (KPa):
FRONT 5 (34.5) REAR 5 (34.5)

MAXIMUM WEIGHT CAPACITY (Gross Vehicle Weight) INCLUDING MACHINE, DRIVER AND CARGO IS 930 LBS. (423 kg). Read Owner's Manual for more detailed loading information.



Rack Warning, Front and Rear

WARNING

DO NOT TOW FROM RACK OR BUMPER. Vehicle damage or tipover may result causing severe injury or death. Tow only from tow hooks or hitch. Maximum Rack Loads: Front 70 lbs. (32 kg) Rear 100 lbs. (46 kg)



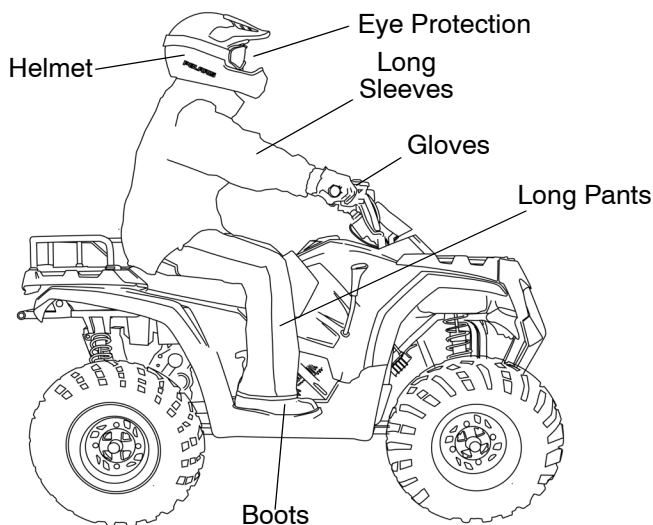
Reverse Override Alert (4X4 Models)

Pushing reverse override button may cause sudden increases in power and traction if too much throttle is applied. Loss of control or forward flipover may result, especially in AWD. See Owner's Manual.

SAFETY

Safe Riding Gear

Always wear protective clothing to reduce the chance of injury.

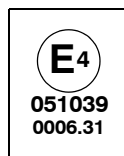


Helmet

Always wear a helmet that meets or exceeds established safety standards.

Approved helmets in the USA and Canada bear a U.S. Department of Transportation (DOT) label.

Approved helmets in Europe, Asia and Oceania bear the ECE 22.05 label. The ECE mark consists of a circle surrounding the letter E, followed by the distinguishing number of the country which has granted approval. The approval number and serial number will also be displayed on the label.



Safe Riding Gear

Eye Protection

Do not depend on eyeglasses or sunglasses for eye protection. When ever riding a Polaris vehicle, always wear shatterproof goggles or use a shatterproof helmet face shield. Polaris recommends wearing approved Personal Protective Equipment (PPE) bearing markings such as VESC 8, V-8, Z87.1, or CE. Make sure protective eye wear is kept clean.

Gloves

Off-road style gloves with knuckle pads are the best for comfort and protection.

Boots

The best footwear is a pair of sturdy over-the-calf boots with low heels.

Clothing

Always wear long sleeves and long pants to protect arms and legs. Riding pants with kneepads and a jersey with shoulder pads provide the best protection.

SAFETY

Driving Safely

Driving Procedures



1. Sit upright. Keep your feet on the footrests. Keep both hands on the handlebars.
2. Apply the brakes.
3. Start the engine and allow it to warm up.
4. Shift the transmission into gear.
5. Check your surroundings and determine your path of travel.
6. Release the brakes.
7. Slowly squeeze the throttle lever toward the handlebar to begin driving.
8. Drive slowly. Practice maneuvering and using the throttle and brakes on level surfaces.

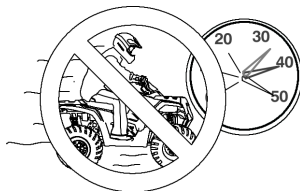
Driving Safely

Turning the Vehicle

1. Before turning, activate a turn signal to alert others of your intentions. Activate the left signal before a left turn. Activate the right signal before a right turn.
2. Steer in the direction of the turn, leaning your upper body to the inside of the turn while supporting your weight on the outer footrest. Use the same leaning technique for turning in reverse.
3. Practice turning at slow speeds before attempting to turn at faster speeds.



Never operate at excessive speeds. Travel and turn at speeds appropriate for the terrain, visibility, operating conditions and your experience.



Always follow the procedures outlined in this manual for turning. Never turn sharply at excessive speeds, which can lead to vehicle overturn.



SAFETY

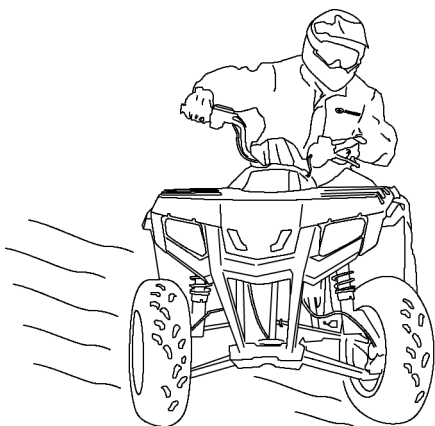
Driving Safely

Driving on Slippery Surfaces

Whenever driving on slippery or loose surfaces such as wet trails, gravel, snow or ice, follow these precautions:

1. Slow down before driving onto slippery surfaces.
2. Engage AWD before wheels begin to lose traction (4x4 models).
3. Be alert.
4. Watch the trail.
5. Avoid quick, sharp turns.

NOTE: To correct a rear wheel skid, turn the handlebars in the same direction as the skid and shift body weight forward.



CAUTION

Severe damage to the drive train may occur if AWD is engaged while the wheels are spinning. Engage AWD when the wheels have traction.

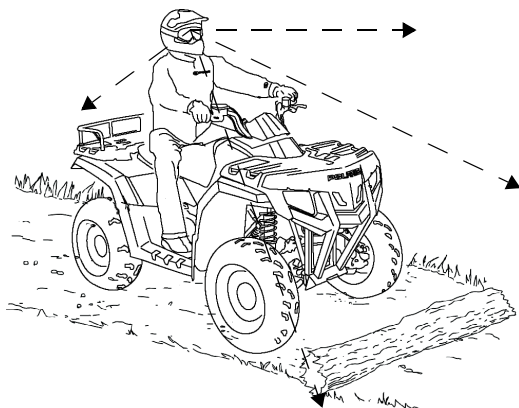


Always follow the procedures outlined in this manual for operating on slippery or loose surfaces. Use extra caution. Always avoid skidding or sliding.



Driving Safely

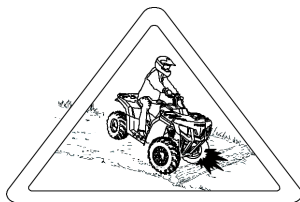
Driving Over Obstacles



1. Always check for obstacles before operating in a new area. Serious injury or death can result if your vehicle comes in contact with a hidden obstacle.
2. Be alert. Watch the terrain. Use extra caution.
3. Never operate over large obstacles.
4. Avoid hazards such as logs, rocks and low branches.



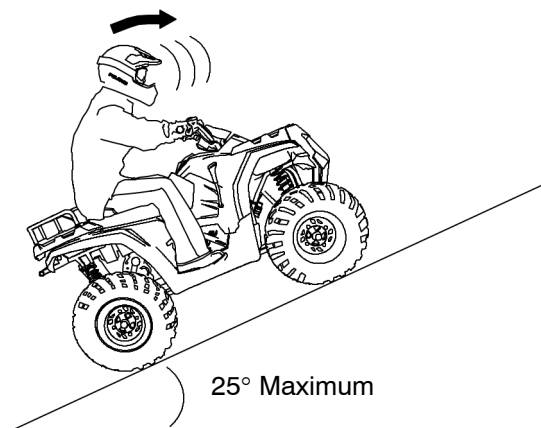
Always follow the procedures outlined in this manual for operating over obstacles.



SAFETY

Driving Safely

Driving Uphill



Whenever traveling uphill, follow these precautions:

1. Avoid steep hills (25° maximum).
2. Check the terrain carefully.
3. Avoid hills with excessively slippery or loose surfaces.
4. Shift your weight uphill.
5. Drive straight uphill.
6. Keep your feet on the footrests.
7. Drive at a steady rate of speed to avoid stalling.
8. Be alert. Be prepared to take emergency action. This may include dismounting quickly.
9. Never open the throttle suddenly or make sudden gear changes.
10. Never go over the top of a hill at high speed.

Driving Safely

Driving Uphill

If all forward speed is lost:

Keep your weight uphill.

If the vehicle begins rolling downhill, never apply engine power. Never apply the brakes aggressively while rolling backwards.

Apply the brakes gradually. When fully stopped, lock the hydraulic parking brake. See page 39.

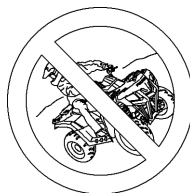
Dismount on the uphill side, or to either side if the vehicle is pointed straight uphill. Turn the vehicle around using the K-Turn. See page 26.



Always follow the procedures outlined in this manual for climbing hills. Avoid climbing hills steeper than 25°.



Always follow the procedures outlined in this manual for braking if you stall or roll backwards while climbing a hill. Never back down a hill.



SAFETY

Driving Safely

Driving on a Sidehill (Sidehilling)



Avoid crossing the side of a hill (sidehilling) if possible. If sidehilling is necessary, follow these precautions:

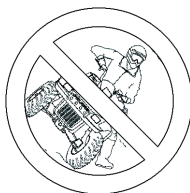
1. Slow down.
2. Avoid hills with excessively slippery or loose surfaces.
3. Shift your weight uphill.
4. Avoid crossing the sides of steep hills.
5. Keep your feet on the footrests.
6. Steer slightly into the hill.

NOTE: If the vehicle begins to tip, quickly turn the front wheels downhill (if possible) or dismount on the uphill side *immediately!*



Always follow the procedures outlined in this manual for crossing the side of a hill.

Never attempt to turn the Quadricycle around on any hill until you've mastered (on level ground) the turning technique outlined in this manual.



Driving Safely

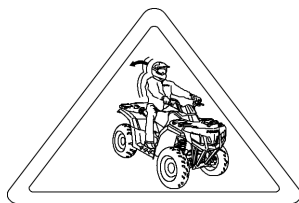
Driving Downhill

When driving downhill, follow these precautions:

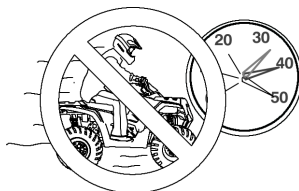
1. Check the terrain carefully.
2. Avoid hills with excessively slippery or loose surfaces.
3. Never drive downhill at high speed.
4. Slow down.
5. Avoid driving downhill at an angle, which can cause the vehicle to pitch sharply to one side. Drive straight downhill.
6. Shift your weight rearward.
7. Apply the brakes *slightly* to aid in slowing.



Always follow the procedures outlined in this manual for driving downhill and for braking on hills.



Never operate at excessive speeds. Travel and turn at speeds appropriate for the terrain, visibility, operating conditions and your experience.

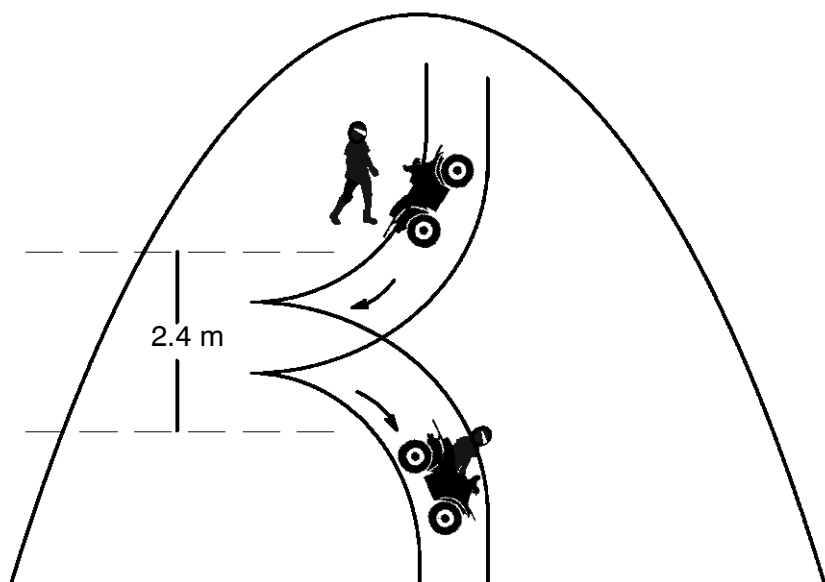


SAFETY

Driving Safely

Turning Around on a Hill (K-Turn)

If the vehicle stalls while climbing a hill, never back it down the hill! Use the K-turn to turn around.



1. Stop the vehicle. Keep your weight uphill.
2. Lock the hydraulic parking brake.
3. Leave the transmission in forward gear. Turn the engine off.
4. Dismount on the uphill side of the vehicle, or on the left if the vehicle is pointing straight uphill.
5. Stay uphill of the vehicle and turn the handlebars full left.
6. Squeeze the brake lever to release the parking brake.
7. Slowly release the brake lever and allow the vehicle to roll around to your right until it's pointing across the hill or slightly downward.

Driving Safely

Turning Around on a Hill (K-Turn)

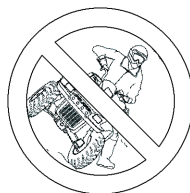
8. Lock the hydraulic parking brake.
9. Remount from the uphill side. Keep your weight uphill.
10. Apply the foot brake.
11. With the transmission still in forward, start the engine.
12. Squeeze and release the brake lever to release the parking brake.
13. Release the foot brake and drive *slowly* downhill. Control speed with either the hand or foot brake until the vehicle is on level ground.



Always follow the procedures outlined in this manual for climbing hills. See page 22.



Always follow the procedures outlined in this manual for crossing the side of a hill. See page 24.



SAFETY

Driving Safely

Driving Through Water



Maximum Depth

Follow these procedures when driving through water:

1. Check water depth and current before crossing.
2. Avoid operating in water deeper than the bottom of the footrests. If it's unavoidable, travel slowly, balance your weight carefully and avoid sudden movements. Maintain a slow and steady forward motion. Do not make sudden turns, stops or throttle changes.
3. Choose a crossing where both banks have gradual inclines.
4. Drive slowly. Avoid rocks and obstacles.
5. Wet brakes may have reduced stopping ability. Always test your brakes after leaving water. If necessary, apply them lightly several times to allow friction to dry out the pads.

Driving Safely

Driving Through Water



Always follow the procedures outlined in this manual for driving through water. Never drive through deep or fast-flowing water.



CAUTION

If the vehicle stops while fully submerged, major engine damage can result if the machine is not thoroughly inspected. Take the vehicle to your dealer before starting the engine.

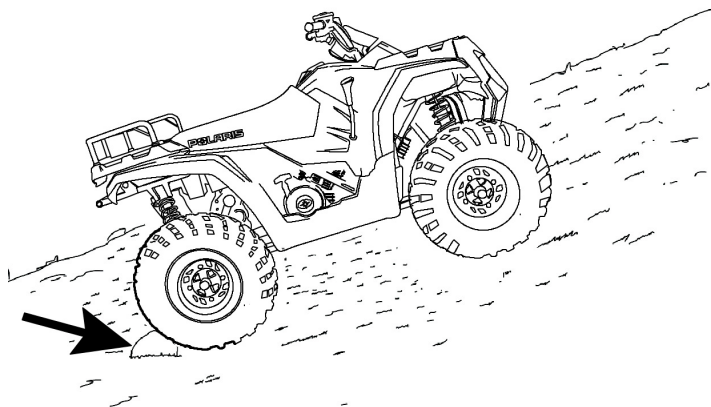
If your vehicle becomes fully immersed, and it's impossible to take it to a dealer before starting it, follow the steps described on page 85. Have the vehicle serviced by your dealer promptly.

NOTE: If water has been ingested into the transmission (PVT), follow the procedure on page 88.

SAFETY

Driving Safely

Parking on an Incline



Avoid parking on an incline. If it's unavoidable, follow these precautions:

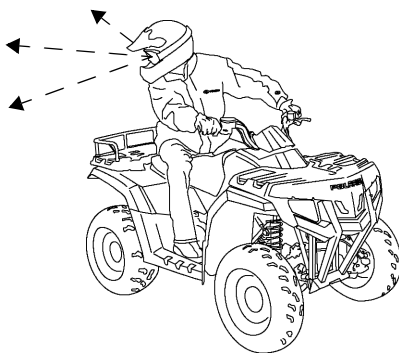
1. Stop the engine.
2. Place the transmission in PARK.
3. Always block the rear wheels on the downhill side.
4. Turn the fuel valve off.

Driving Safely

Driving in Reverse

Follow these precautions when operating in reverse:

1. Avoid backing down-hill.
2. Always check for obstacles or people behind the vehicle before backing.
3. Drive slowly.
4. Apply the foot brake *lightly* for stopping.
5. Avoid turning at sharp angles.
6. Do not use the override switch unless additional power is required for vehicle movement. Use with caution.



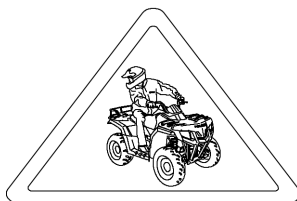
NOTE: Reverse speed is greatly increased when the override switch is used. Do not operate at full throttle. Apply just enough throttle to maintain the desired speed.



Excessive throttle operation while in the speed limit mode may cause fuel to build in the exhaust, resulting in engine popping and/or engine damage.



Always follow the procedures outlined in this manual for driving in reverse.



SAFETY

Driving Safely

Hauling Cargo

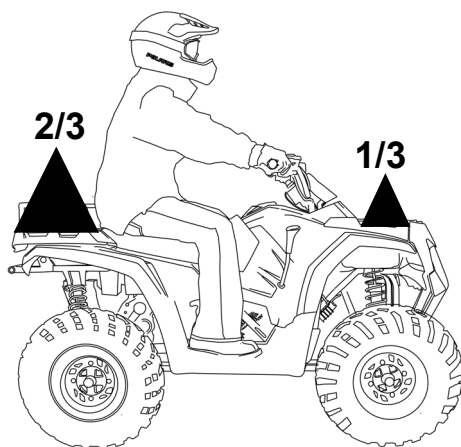
WARNING

Overloading the vehicle or carrying or towing cargo improperly can alter vehicle handling and may cause loss of control or brake instability. Always follow these precautions when hauling cargo.

- Read and understand the load distribution warnings listed on the vehicle warning labels.
- Never exceed the stated load capacity for this vehicle.
- **REDUCE SPEED AND ALLOW GREATER DISTANCES FOR BRAKING WHEN HAULING CARGO OR TOWING.** Use extreme caution when applying brakes. Avoid situations that require backing downhill.
- When operating over rough or hilly terrain, reduce speed, cargo and towed load to maintain stable driving conditions.
- **DO NOT BLOCK THE FRONT HEADLIGHT BEAM** when carrying loads on the front rack.
- **CARRY LOADS AS LOW ON THE RACK AS POSSIBLE.** Carrying a load high on the rack raises the center of gravity of the vehicle and creates a less stable operating condition. Reduce load weight when cargo is high. Secure off-centered loads that cannot be centered and operate with extra caution.
- **CARRYING A LOAD** on only one rack may cause the vehicle to overturn. Split the load between the front rack and rear rack, with 1/3 in the front and 2/3 in the back. Do not exceed load capacities. See specifications beginning on page 112.
- **SECURE ALL LOADS BEFORE OPERATING.** Unsecured loads can create unstable operating conditions, which could result in loss of control of the vehicle.
- **OPERATE ONLY WITH STABLE AND SAFELY ARRANGED LOADS.** When handling off-centered loads that cannot be centered, securely fasten the load and operate with extra caution. Always attach the tow load to the hitch point designated for your vehicle.
- **USE EXTREME CAUTION** when operating with loads that extend over the rack sides. Stability and maneuverability may be adversely affected, causing the vehicle to overturn.
- **TOWING is approved OFF-ROAD ONLY.** Operating a Quadricycle/trailer combination on public roads is prohibited.
- **TOWING SPEED** should never exceed 16 km/h. Never exceed 8 km/h when towing loads in rough terrain, while cornering, or while ascending or descending hills.

Driving Safely

Hauling Cargo



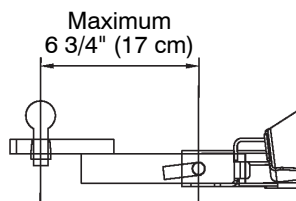
Towing Loads

Towing is approved OFF-ROAD ONLY. Operating a Quadricycle/trailer combination on public roads is prohibited. Do not exceed the maximum capacities when towing. Do not tow any trailer on a grade steeper than 15°.

Maximum Towed Load (Level Ground)	Maximum Vertical Hitch Weight
386 kg	38.6 kg

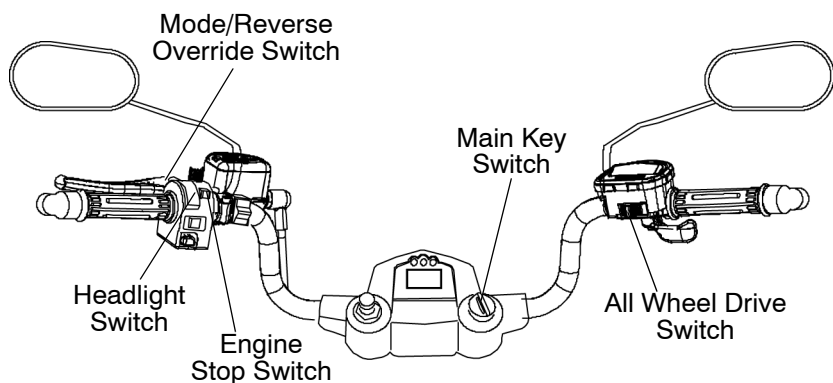


Using an improper hitch or exceeding the maximum tongue weight capacity can result in serious damage to the vehicle and will void your warranty. Never install a hitch longer than 6 3/4" (17 cm). Never install automotive accessories on your Polaris Quadricycle. Always install Polaris-approved (or equivalent) accessories designed for Quadricycle use.



FEATURES AND CONTROLS

Switches



Mode/Reverse Override Switch

Press the switch to toggle through the speedometer display modes (except in reverse). See page 45.

To gain additional power while operating in reverse, press the override switch before opening the throttle. This will cancel the reverse speed limit function.

NOTE: The override switch also allows activation of All Wheel Drive in reverse, if the AWD switch is on.





WARNING

Activating the override switch with the throttle open and while operating in reverse can cause loss of control. Do not activate the override switch while the throttle is open.

FEATURES AND CONTROLS

Switches

Main Key Switch

-  End all electrical power to the vehicle.
-  *LIGHTS ON* position turns the headlights on.
-  Start the engine. The headlights are not on in this position.
-  After starting the engine, release the key switch to the *POSITION LIGHTS ON* position.

WARNING

Do not attach a large key fob or key ring to the main switch. It may contact the gas tank cap when turning, causing an interruption to the electrical system and an unexpected engine shut-down during operation. This could result in serious injury or death.

Engine Stop Switch

The engine will not start or run when the switch is in the OFF position.


 OFF

 RUN

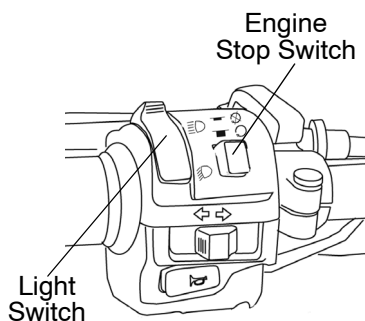
Light Switch

The lights do not operate unless the main key switch is on and the engine stop switch is in the RUN position.

An indicator light on the pod will illuminate when high beam is selected. See page 36.

 High Beam

 Low Beam

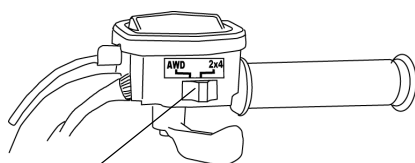


FEATURES AND CONTROLS

Switches

All Wheel Drive Switch (4x4 Models)

See page 44 for all wheel drive information.

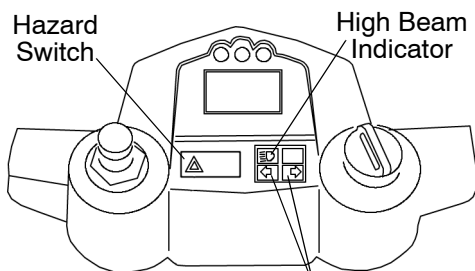


AWD Switch

Hazard Warning Switch



Push the hazard warning switch to cause all turn indicators to flash simultaneously. Use this feature to alert others of an emergency or other situation requiring caution.

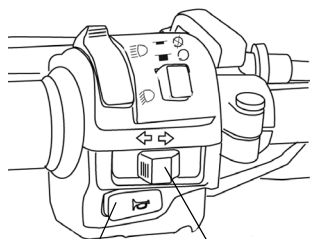


Turn Indicators

Turn Signal Switch



Push the toggle switch either left or right to activate the corresponding turn signal. The indicator on the console will also flash. Return the toggle to the center position and push it inward to end the signal.



Horn Switch

Turn Signal Switch

Horn Switch

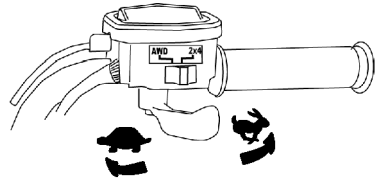


Press the horn switch to sound the horn.

FEATURES AND CONTROLS

Throttle Lever

Press the throttle lever to increase engine speed and vehicle movement. Release the lever to reduce engine speed and vehicle movement.



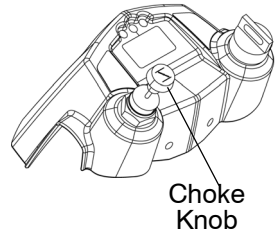
WARNING

Failure to check or maintain proper operation of the throttle system can result in an accident if the throttle lever sticks during operation. Check the lever for proper operation before starting the engine. Check occasionally during operation.

Do not start or operate a Quadricycle with sticking or improperly operating throttle controls. Contact your dealer for repair if throttle problems arise.

Choke

The choke assists in starting a cold engine.
See page 50.



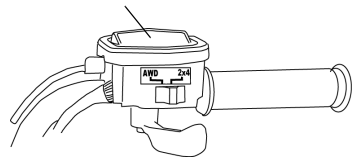
Mirrors

Use the mirrors to assist in traffic maneuvers.
Always check and adjust the mirrors before driving the Quadricycle.

Electronic Throttle Control (ETC)

ETC causes the engine to stop if the throttle cable sticks in an open position when the operator releases the throttle lever.

Electronic Throttle Control

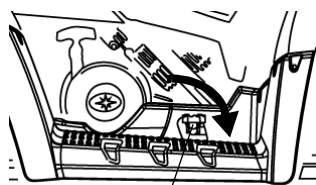


The Electronic Throttle Control (ETC) stops the engine in the event of a throttle system malfunction. Do not modify the ETC system or replace it with other throttle mechanisms.

FEATURES AND CONTROLS

Foot Brake

The all-wheel foot brake is located on the right footrest. The foot brake operates both front and rear brakes. Press the brake pedal down with your foot to engage the all-wheel brakes.

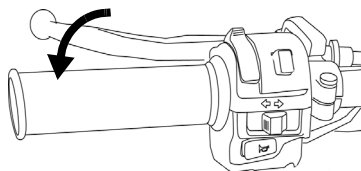


Foot Brake

If the rear wheels begin to skid or slide while using the foot brake, reduce brake pressure.

Hand Brake Lever

The hand brake operates both front and rear brakes. Squeeze the brake lever toward the handlebar to apply the all-wheel brakes.



If the rear wheels begin to skid or slide while using this brake, reduce lever pressure.

WARNING

Aggressively applying the brakes when backing down a hill may cause rear tipover. Aggressively applying the brakes while moving forward may cause the rear wheels to skid and result in loss of control.

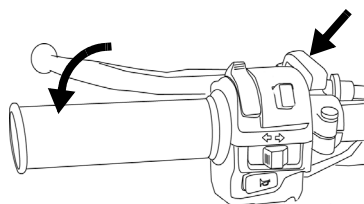
Read this owner's manual and understand the operation of all brake systems on this vehicle. Always use caution whenever applying the brakes.

FEATURES AND CONTROLS

Parking Brake

Locking the Parking Brake

1. Place the transmission in PARK.
2. Squeeze the brake lever toward the handlebar.
3. Push the parking brake lock forward to engage the lock.
4. Release the brake lever.
5. To release the parking brake lock, squeeze and release the brake lever.

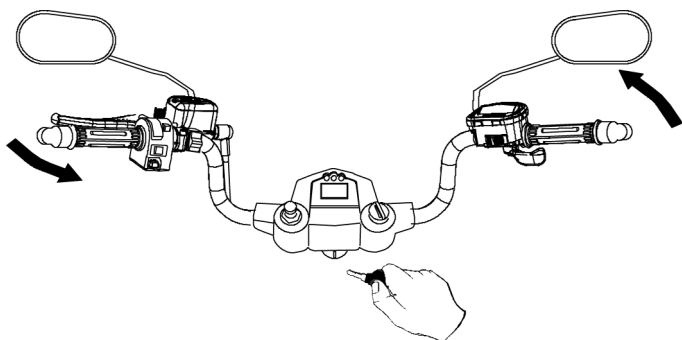


WARNING

Operating the Quadricycle while the parking brake is engaged could result in an accident and serious injury or death. Always release the parking brake lock before operating.

FEATURES AND CONTROLS

Steering Lock



Lock the steering to prevent unauthorized use or theft of the vehicle.

1. Turn the handlebars to the full left position.
2. Insert the steering lock key and turn it clockwise.
3. Remove the key.
4. Reverse the procedure to unlock the steering.

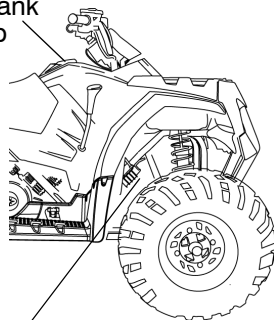
NOTE: Place the steering lock keys in a safe place. The lock must be replaced if the keys are lost.

FEATURES AND CONTROLS

Fuel Tank Cap

Remove the fuel tank cap to add fuel to the fuel tank. Use either leaded or unleaded gasoline with a minimum pump octane of 87. *Do not use E-85 fuel.*

Fuel Tank
Cap



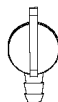
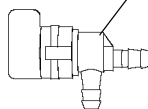
Fuel Valve

The fuel valve is located on the bottom of the fuel tank. Access the fuel valve through the right front wheel well.

ON: For normal operation.

OFF: For vehicle storage and when transporting.

Refuel when the instrument gauge indicates a low fuel level.



ON



OFF

Fuel Filter

The in-line fuel filter should be replaced by your dealer after every 100 hours of operation or annually. Do not attempt to clean the fuel filter.

FEATURES AND CONTROLS

Automatic Transmission Gear Selector

The transmission gear selector is located on the right side of the vehicle.

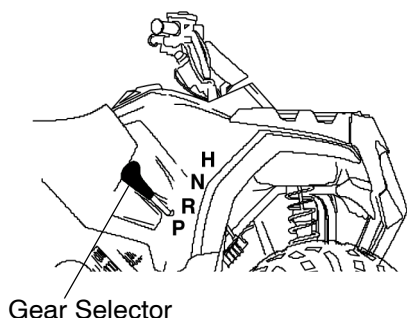
H: High Gear

N: Neutral

R: Reverse

P: Park

Whenever the vehicle is left unattended, always place the transmission in PARK. The transmission is locked when it's in PARK.



CAUTION

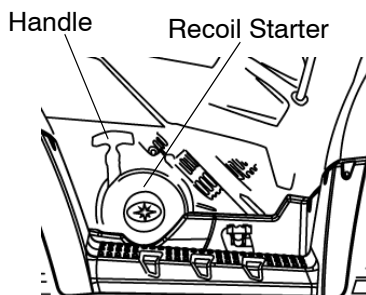
Shifting gears with the engine speed above idle or while the vehicle is moving can cause transmission damage. Stop the vehicle, release the throttle and move the shift lever to the desired gear. See your dealer if you experience any shifting problems.

FEATURES AND CONTROLS

Recoil Starter

If the battery is too weak to start the engine, use the recoil starter. Follow the starting procedures on page 50, cranking the engine with the recoil starter instead of the main key switch.

1. Grasp the recoil starter rope handle tightly.
2. Pull slightly until the starter mechanism engages.
3. Pull the rope abruptly to start the engine.



CAUTION

Extending the recoil starter rope until it stops can cause damage to the recoil assembly. Do not extend the starter rope so far that it stops.

If the starter rope handle is not seated properly, water may enter the recoil housing and damage components. Make sure the handle is fully seated on the recoil housing, especially when traveling in wet areas.

FEATURES AND CONTROLS

All Wheel Drive (AWD) System (4X4 Models)

The AWD switch may be turned on or off while the vehicle is moving. AWD will not engage until engine speed is below 3100 RPM. AWD remains engaged until the switch is turned off. There is no limit to the length of time the vehicle may remain in AWD.

If the switch is turned off while the demand drive unit is engaged, it will not disengage until the rear wheels regain traction. Engage AWD before getting into situations where maximum traction is needed. If the rear wheels are spinning, release the throttle before switching to AWD.

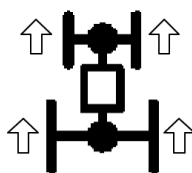
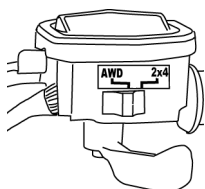
NOTE: The override switch allows activation of AWD in reverse if the AWD switch is on. See page 34.

CAUTION

Switching to AWD while the rear wheels are spinning may cause severe drive shaft and gearcase damage. Always switch to AWD while the rear wheels have traction or are at rest.

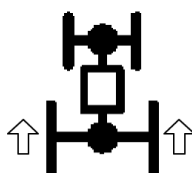
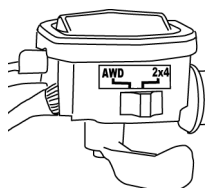
AWD

When the AWD switch is on, the Quadricycle is in four-wheel drive and the differential is locked, providing maximum traction. The demand drive unit automatically engages when the rear wheels lose traction. When the rear wheels regain traction, the demand drive unit automatically disengages.



2X4

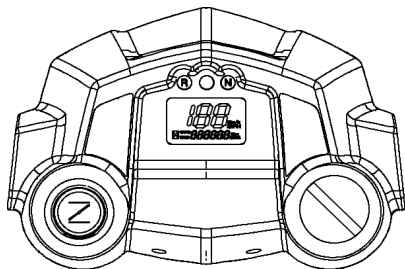
When the 2X4 switch is on, the Quadricycle is in two-wheel drive at all times and the differential is locked.



FEATURES AND CONTROLS

Instrument Cluster

The instrument cluster measures distance in kilometers (or miles) as well as hours of operation. It also includes a reverse speed limiter function that limits vehicle speed to approximately 11-14 km/h. Refer to page 34 for additional information.



CAUTION

To prevent damage, wash the vehicle by hand or with a garden hose using mild soap. Do not use alcohol to clean the instrument cluster. Immediately clean off any gasoline that splashes on the instrument cluster. Do not allow insect sprays to contact the lens.

Miles/Kilometers Toggle

The display in the tripmeter, odometer and speedometer can be changed to display either kilometers or miles.

1. To change modes, press and release the mode button (see page 31) as often as needed to reach the odometer mode.
2. In the odometer mode, press and hold the mode button until the letters flash, then release the button.
3. Press and release the button once. When the display stops flashing, the mode has been set.

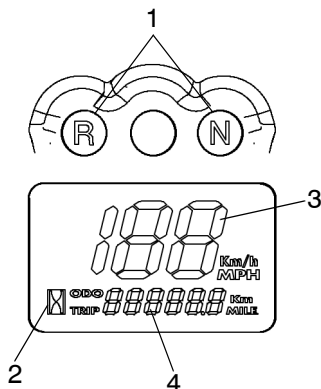
FEATURES AND CONTROLS

Instrument Cluster

Rider Information Center

The rider information center is located in the instrument cluster. All segments will light up for 3 seconds at start-up.

1. **Gear Indicator** - This indicator displays gear shifter position.
N = Neutral (Green)
R = Reverse (Amber)
2. **Engine Hour Display Indicator**
3. **Speedometer**
4. **Odometer/Tripmeter/ Hour Meter**



Modes

Use the reverse override/mode button to toggle through the 3 standard modes.

NOTE: If using the mode button to program the rider information center, or to toggle through the options, the transmission cannot be in reverse.

Odometer

The odometer records the distance traveled by the vehicle.

Trip Meter

The trip meter records the distance traveled by the vehicle on each trip if it's reset before each trip. To reset the trip meter, toggle to the trip meter mode. Press and hold the mode button until the display changes to 0.

In the Rider Information Center, the trip meter display contains a decimal point, but the odometer displays without a decimal point.

Hour Meter

This mode logs the total hours the engine has been in operation.

Fuel Safety

WARNING

Gasoline is highly flammable and explosive under certain conditions.

- Use extreme caution whenever handling gasoline.
- Refuel with the engine stopped. Refuel outdoors or in a well-ventilated area.
- Never fill a fuel container while it's on the vehicle. Static electricity between the rack and container could cause a spark.
- 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 gasoline spills on your skin or clothing, immediately wash it off with soap and water and change clothing.
- Turn the fuel valve off whenever the vehicle is stored or parked.

OPERATION

Break-In Period

The break-in period for your new Polaris Quadricycle is the first ten hours of operation, or the time it takes to use the first two full tanks of gasoline. No single action on your part will increase the life and performance of your Quadricycle more than following the procedures for a proper break-in. Careful treatment of a new engine and drive components will result in more efficient performance and longer life for these components.

Do not operate at full throttle or high speeds for extended periods during the first three hours of use.

Install the accessory oil cooler when the following conditions exist:

- The vehicle will be used for towing heavy loads.
- The vehicle will be used for dragging ground surfaces or performing similar activities.
- The vehicle is normally operated when the air temperature is above 100° F. (38° C).

Engine and Drivetrain Break-in

1. Fill the fuel tank with the recommended fuel. See page 41.
2. Check the oil level. See page 60. Add oil if necessary.
3. Select an open area that allows room to familiarize yourself with vehicle operation and handling.
4. Drive slowly. Vary the throttle positions. Do not operate at sustained idle.
5. Perform regular checks on fluid levels, controls and areas outlined on the daily pre-ride inspection checklist. See page 49.
6. Pull only light loads.
7. Change the oil and filter at one month.

PVT Break-in (Clutches/Belt)

Break in the clutches and belt by operating at slower speeds during the break-in period as recommended. Pull only light loads. Avoid aggressive acceleration and high speed operation during the break-in period.

Pre-Ride Checklist

Item	Remarks	Page
Foot brake	Ensure proper operation	38
Hand brake/lever travel	Ensure proper operation	38 73
Brake fluid	Ensure proper level	70
Front suspension	Inspect, lubricate if necessary	58
Rear suspension	Inspect, lubricate if necessary	58
Steering	Ensure free operation	-
Tires	Inspect condition and pressure	76
Wheels/fasteners	Inspect, ensure fastener tightness	76
Frame nuts, bolts, fasteners	Inspect, ensure tightness	-
Fuel and oil	Ensure proper levels	41 60
Throttle	Ensure proper operation	37 106
Indicator lights/switches	Ensure operation	34
Engine stop switch	Ensure proper operation	35
Air filter, pre-filter	Inspect, clean	78
Air box sediment tube	Drain deposits whenever visible	-
Headlamp	Check operation, apply Polaris dielectric grease when lamp is replaced	80
Brake light/tail lamp	Check operation, apply Polaris dielectric grease when lamp is replaced	81
Riding gear	Wear approved helmet, goggles, and protective clothing	16

OPERATION

Starting the Engine

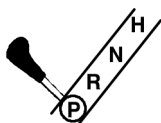
WARNING

Engine exhaust contains poisonous carbon monoxide and can cause loss of consciousness resulting in severe injury or death. Never run an engine in an enclosed area.

CAUTION

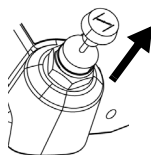
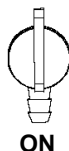
Operating the vehicle immediately after starting could cause engine damage. Allow the engine to warm up for several minutes before operating.

1. Position the vehicle on a level surface.
2. Place the transmission in PARK.



3. Turn the fuel valve on.
4. Sit on the vehicle.

NOTE: Do not use the choke if starting a warm engine. Excessive use of the choke can cause the spark plug to become wet fouled.

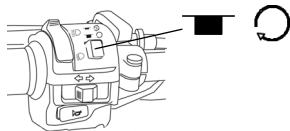


5. If the engine is cold, pull the choke knob out until it stops.

NOTE: Make sure the choke is off during operation. Excess fuel washing into the engine oil will increase wear on engine components.

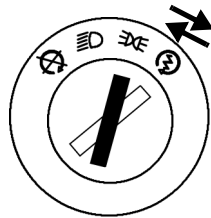
6. Move the engine stop switch to RUN.

NOTE: Do not press the throttle while starting the engine.

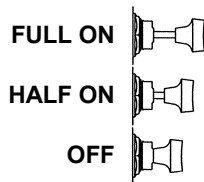


Starting the Engine

7. Turn the ignition key past the POSITION LIGHTS ON position to engage the starter. Activate the starter for a maximum of five seconds, releasing the key when the engine starts.
8. If the engine does not start, release the starter and wait five seconds.
9. Repeat steps 7 and 8 until the engine starts.



- NOTE:** If a warm engine has cooled and does not readily start, intermittent use of the choke (HALF ON) may be necessary. If the engine is over-choked when warm, depress the throttle lever fully while cranking to aid in starting. Release the throttle lever *immediately* after the engine starts. If the engine does not start and all conditions are favorable, change the spark plug and try again.
10. If the engine slows or stops after starting, move the choke knob to HALF ON. Vary engine RPM slightly with the throttle. When the engine idles smoothly, push the choke all the way in.



CAUTION

Operating the vehicle immediately after starting could cause engine damage. Allow the engine to warm up for several minutes before operating the vehicle.

Cold Weather Operation

Internal engine condensation increases as outside temperatures decrease. If the vehicle is used year-round, check the oil level frequently. A rising oil level could indicate condensation in the bottom of the oil tank, which can lead to engine damage. Any condensation must be drained.

Always operate the engine long enough to reach operating temperature, which reduces condensation. See your Polaris dealer for engine heater kits, which provide quicker warm-ups and easier starting in cold weather.

EMISSION CONTROL SYSTEMS

Noise Emission Control System

Do not modify the engine, intake or exhaust components, as doing so may affect compliance with governmental noise level requirements.

Spark Arrestor

Your Polaris vehicle has a spark arrestor that was designed for on-road and off-road operation. It is required that this spark arrestor remain installed and functional when the vehicle is operated.

Exhaust Emission Control System

The emissions from the exhaust of this vehicle are controlled by engine design, including factory-set fuel delivery and ignition. The engine and related components must be maintained at Polaris specifications to achieve optimal performance.

Engine idle speed is the only adjustment Polaris recommends that the operator perform. Any other adjustments should be performed by an authorized Polaris dealer.

Periodic Maintenance Chart

Maintenance intervals in the following chart are based upon average riding conditions and average vehicle speed of approximately 16 km/h. Vehicles subjected to severe use must be inspected and serviced more frequently.

Record maintenance and service in the Maintenance Log beginning on page 119.

NOTE: Service and adjustments are important for proper vehicle operation. If you're not familiar with safe service and adjustment procedures, have a qualified dealer perform these operations.

Severe Use Definition

- Frequent immersion in mud, water or sand
- Racing or race-style high RPM use
- Prolonged low speed, heavy load operation
- Extended idle
- Short trip cold weather operation

Pay special attention to the oil level. A rise in oil level during cold weather can indicate contaminants collecting in the oil sump or crankcase. Change oil immediately if the oil level begins to rise. Monitor the oil level, and if it continues to rise, discontinue use and determine the cause or see your dealer.

MAINTENANCE

Periodic Maintenance Chart

Maintenance Chart Key

► Perform these operations more often for vehicles subjected to severe use.

E Emission-related service (Failure to conduct this maintenance will not void the emissions warranty but may affect emissions.)

■ Have an authorized Polaris dealer perform these services.

WARNING

Improperly performing the procedures marked with a ■ could result in component failure and lead to serious injury or death. Have an authorized Polaris dealer perform these services.

MAINTENANCE

Periodic Maintenance Chart

Perform all services at whichever maintenance interval is reached first.

Item	Maintenance Interval (whichever comes first)			Remarks
	Hours	Calendar	Miles (Km)	
Steering	-	Pre-Ride	-	Make adjustments as needed. See Pre-Ride Checklist on page 49.
Front suspension	-	Pre-Ride	-	
Rear suspension	-	Pre-Ride	-	
Tires	-	Pre-Ride	-	
Brake fluid level	-	Pre-Ride	-	
Brake lever	-	Pre-Ride	-	
Foot brake	-	Pre-Ride	-	
Brake system	-	Pre-Ride	-	
Wheels/fasteners	-	Pre-Ride	-	
Frame fasteners	-	Pre-Ride	-	
Engine oil level	-	Pre-Ride	-	
► E Air filter, pre-filter	-	Daily	-	Inspect; clean often; replace as needed
► Air box sediment tube	-	Daily	-	Drain deposits when visible
Headlamp/tail lamp	-	Daily	-	Check operation; apply dielectric grease if replacing
► E Air filter, main element	-	Weekly	-	Inspect; replace as needed
Recoil housing (if applicable)	-	Weekly	-	Drain water as needed, check often if operating in wet conditions
► ■ Brake pad wear	10 H	Monthly	100 (160)	Inspect periodically
Battery	20 H	Monthly	200 (320)	Check terminals; clean; test
► Demand drive unit oil (front gearcase)	25 H	Monthly	250 (400)	Inspect level; change yearly
► Transmission oil	25 H	Monthly	250 (400)	Inspect level; change yearly
► E Engine breather filter (if equipped)	25 H	Monthly	250 (400)	Inspect; clean if needed

► Perform these procedures more often for vehicles subjected to severe use.

E Emission-Related Service

■ Have an authorized Polaris dealer perform these services.

MAINTENANCE

Periodic Maintenance Chart

Item		Maintenance Interval (whichever comes first)			Remarks
		Hours	Calendar	Miles (Km)	
▶	General lubrication	50 H	3 M	500 (800)	Lubricate all fittings, pivots, cables, etc.
	Carburetor float bowl	50 H	6 M	500 (800)	Drain bowl periodically and prior to storage
■ E	Throttle Cable/ ETC Switch	50 H	6 M	500 (800)	Inspect; adjust; lubricate; replace if necessary
■ E	Choke cable	50 H	6 M	500 (800)	Inspect; adjust; lubricate; replace if necessary
E	Carburetor air intake ducts/flange	50 H	6 M	500 (800)	Inspect duct for proper sealing/air leaks
	Drive belt	50 H	6 M	500 (800)	Inspect; adjust; replace as needed
▶	Engine oil change	100 H	6 M	1000 (1600)	Perform a break-in oil change at 20 hours
▶	Oil filter change	100 H	6 M	1000 (1600)	Replace with oil change
▶	Oil tank vent hose (if equipped)	100 H	6 M	1000 (1600)	Inspect routing, condition
■ E	Valve clearance	100 H	12 M	1000 (1600)	Inspect; adjust
■ E	Fuel system/filter	100 H	12 M	1000 (1600)	Check for leaks at tank cap, lines, fuel valve, filter, pump, carburetor; replace lines every two years
▶	Engine mounts	100 H	12 M	1000 (1600)	Inspect
	Exhaust muffler/pipe	100 H	12 M	1000 (1600)	Inspect
■ E	Spark plug	100 H	12 M	1000 (1600)	Inspect; replace as needed
■ E	Ignition Timing	100 H	12 M	1000 (1600)	Inspect
▶	Wiring	100 H	12 M	1000 (1600)	Inspect for wear, routing, security; apply dielectric grease to connectors subjected to water, mud, etc.

Periodic Maintenance Chart

Item		Maintenance Interval (whichever comes first)			Remarks
		Hours	Calendar	Miles (Km)	
■	Clutches (drive and driven)	100 H	12 M	1000 (1600)	Inspect; clean; replace worn parts
■	Front wheel bearings	100 H	12 M	1000 (1600)	Inspect; replace as needed
■	Brake fluid	200 H	24 M	2000 (3200)	Change every two years
	Spark arrestor	300 H	36 M	3000 (4800)	Clean out
	Idle speed	-			Adjust as needed
■	Toe adjustment	-			Inspect periodically; adjust when parts are replaced
■	Brakes	-			Inspect daily; adjust as needed
	Headlight aim	-			Adjust as needed

► Perform these procedures more often for vehicles subjected to severe use.

E Emission-Related Service

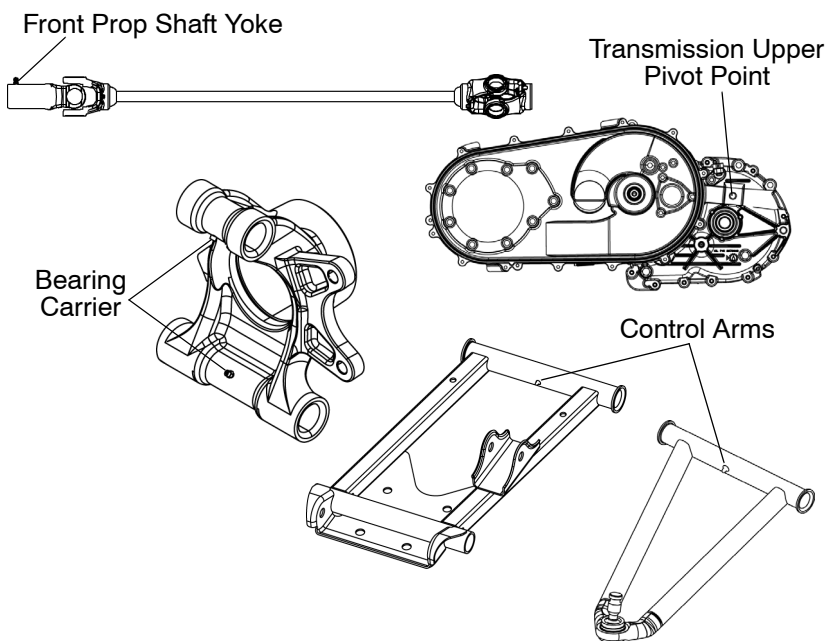
■ Have an authorized Polaris dealer perform these services.

MAINTENANCE

Lubrication Guide

Check and lubricate all components at the intervals outlined in the Periodic Maintenance Chart beginning on page 53. Items not listed in the chart should be lubricated at the General Lubrication interval.

Item	Lube	Method
Engine Oil	Polaris Premium 4 Synthetic 0W-50	See page 59.
Brake Fluid	DOT 4 Only	See page 70.
Transmission Oil	Polaris AGL Synthetic Gearcase Lube	See page 64.
Front Demand Drive Unit (Front Gearcase)	Premium Demand Drive Hub Fluid	See page 67.
Front Prop Shaft Yoke	Polaris Premium U-Joint Lube	Grease fittings (3 pumps maximum) every 800 km, before long periods of storage, or after pressure washing or submerging.
Control Arm (front and rear)		
Bearing Carrier		
Transmission (upper pivot point)		



Engine Oil

Oil Recommendations

Always check and change the engine oil at the intervals outlined in the Periodic Maintenance Chart beginning on page 53. Always change the oil filter whenever changing oil. Change the oil more often if the vehicle is routinely subjected to:

- operation in dusty or wet conditions
- operation when air temperature is below -12°C .
- short trips at -12° to -1°C . (engine fails to reach operating temperature).

Polaris recommends the use of Performance Synthetic 4-Stroke (PS-4) 0W-50 oil for this engine. PS-4 is a fully synthetic, high performance, multi-viscosity oil designed to provide the ultimate in lubrication performance and protection.

Oil may need to be changed more frequently if Polaris oil is not used. Always use 0W-50 oil. Follow the manufacturer's recommendations for ambient temperature operation.

CAUTION

Mixing brands or using a non-recommended oil may cause serious engine damage. Always use a recommended oil. Never substitute or mix oil brands.

Oil Specifications

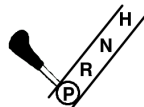
Lubricant	Capacity	Drain Plug Torque
Performance Synthetic 4-Stroke (PS-4) 0W-50	1.9 liters	19 N-m

MAINTENANCE

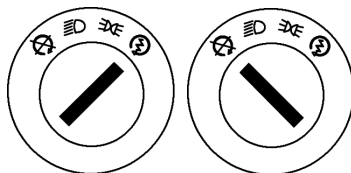
Engine Oil

Oil Level

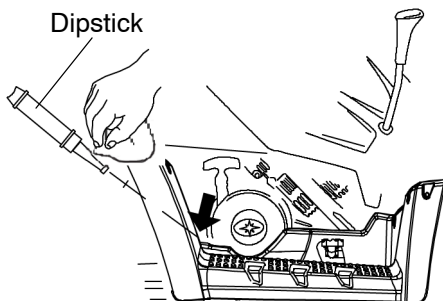
1. Position the vehicle on a level surface.
2. Place the transmission in PARK.



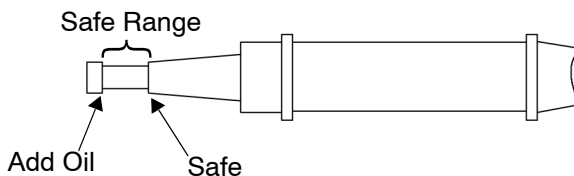
-
3. Start the engine. Allow it to idle for 30 seconds.
 4. Stop the engine.



-
5. Remove the dipstick. Wipe it dry with a clean cloth.
 6. Reinstall the dipstick completely.



-
7. Remove the dipstick and check the oil level. Add oil as needed. Maintain the oil level in the safe range. Do not overfill.



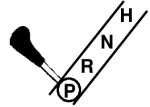
8. Reinstall the dipstick.
-

Oil and Filter Change

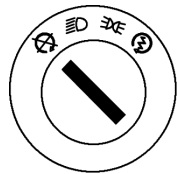
CAUTION

Hot oil may result in serious burns. Do not allow hot oil to contact skin.

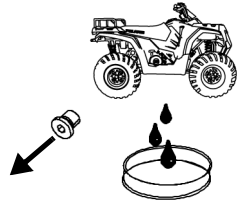
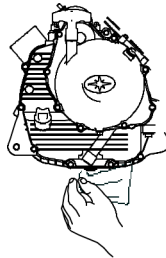
1. Position the vehicle on a level surface.
2. Place the transmission in PARK.



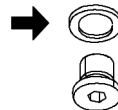
3. Start the engine. Allow it to idle for two minutes.
4. Stop the engine.



5. Clean the area around the drain plug.
6. Place a drain pan under the vehicle.
7. Remove the drain plug. Use a 6 mm Allen wrench.
8. Drain the oil.



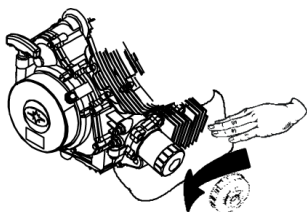
9. Clean the drain plug. Reinstall the drain plug with a new sealing washer.
10. Torque to specification. See page 59.



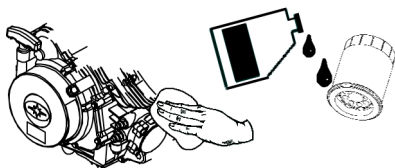
MAINTENANCE

Oil and Filter Change

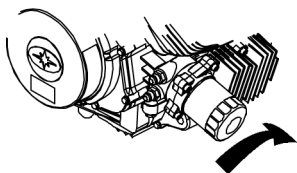
11. Place towels under the oil filter. Using an oil filter wrench, turn the filter counterclockwise to remove it.



-
12. Clean the filter sealing area on the engine.
 13. Lubricate the filter o-ring. Check to make sure the o-ring is in good condition.

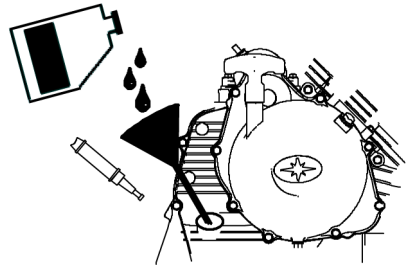


-
14. Install the new oil filter. After the filter contacts the engine surface, turn it 1/2 turn by hand.

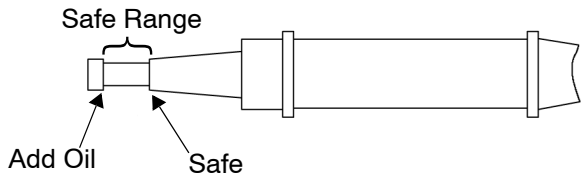


Oil and Filter Change

15. Remove the dipstick.
16. Add the recommended oil.
See page 59.
17. Reinstall the dipstick.
18. Start the engine. Allow it to idle for two minutes.
19. Stop the engine.
20. Check for oil leaks.



-
21. Check the oil level. Add oil as needed. Maintain the oil level in the safe range. Do not overfill.



22. Reinstall the dipstick.
 23. Discard used oil and filter properly.
-

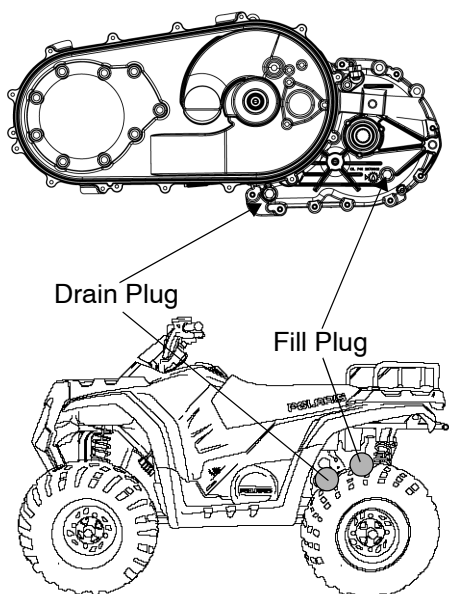
MAINTENANCE

Transmission Oil

Always check and change the transmission oil at the intervals outlined in the Periodic Maintenance Chart beginning on page 53.

Use the recommended oil. Maintain the oil level at the bottom of the fill plug hole. See page 107 for the part numbers of Polaris products.

The fill plug is located on the left side of the vehicle, under the rear fender, behind the wheel. The drain plug is located behind the wheel well.



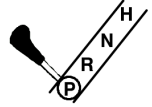
Transmission Oil Recommendations

Gearcase	Lubricant	Capacity	Fill Plug Torque	Drain Plug Torque
Transmission 2x4	Premium AGL Synthetic Gearcase Lubricant	450 ml	20 N-m	20 N-m
Transmission 4x4	Premium AGL Synthetic Gearcase Lubricant	600 ml	20 N-m	20 N-m

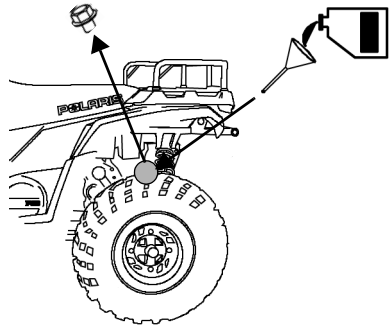
Transmission Oil

Oil Check

1. Position the vehicle on a level surface.
2. Place the transmission in PARK.



-
3. Remove the fill plug.
Use a 15 mm wrench.
 4. Check the oil level.
 5. Add the recommended oil as needed. Do not overfill.
 6. Reinstall the fill plug.
Torque to specification.
See page 64.
-

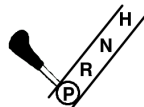


MAINTENANCE

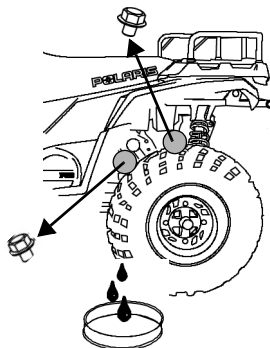
Transmission Oil

Oil Change

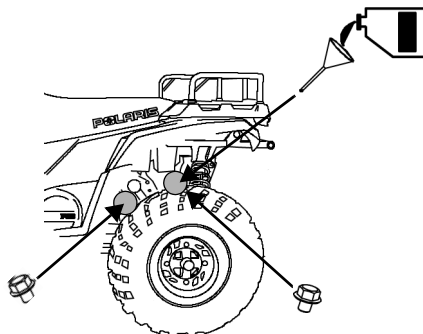
1. Position the vehicle on a level surface.
2. Place the transmission in PARK.



-
3. Remove the fill plug.
Use a 15 mm wrench.
 4. Place a drain pan under the gearcase.
 5. Remove the drain plug.
Use a 15 mm wrench.
 6. Allow the oil to drain completely.



-
7. Clean and reinstall the drain plug. Torque to specification. See page 64.
 8. Add the recommended oil.
 9. Reinstall the fill plug.
Torque to specification. See page 64 for recommendations.
 10. Check for leaks.
 11. Dispose of used oil properly.



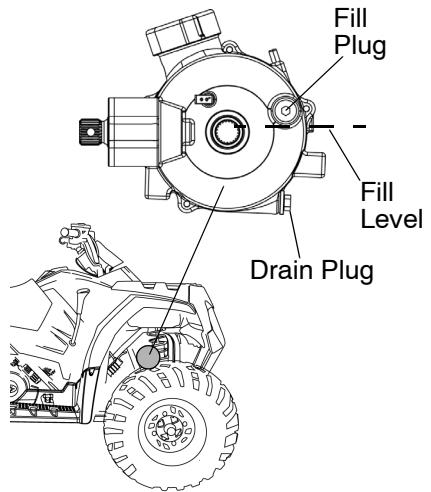
MAINTENANCE

Front Gearcase (Demand Drive) Fluid

Always check and change the demand drive fluid at the intervals outlined in the Periodic Maintenance Chart beginning on page 53.

Use the recommended fluid. Use of other fluids may result in improper operation of components. See page 107 for the part numbers of Polaris products.

Maintain the fluid level at the bottom of the fill hole threads. The fill plug is located on the right side of the gearcase. The drain plug is located on the bottom right side of the gearcase.



Demand Drive Fluid Recommendations

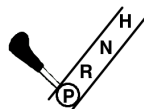
Gearcase	Lubricant	Capacity	Fill Plug Torque	Drain Plug Torque
Demand Drive Unit	Premium Demand Drive Hub Fluid	148 ml	11-13 N-m	11-13 N-m

MAINTENANCE

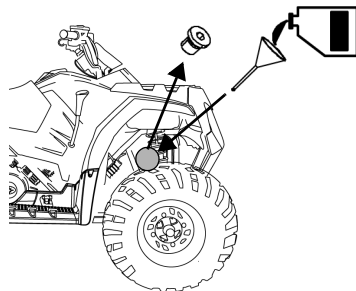
Front Gearcase (Demand Drive) Fluid

Fluid Check

1. Position the vehicle on a level surface.
2. Place the transmission in PARK.

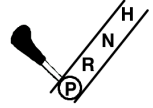


-
3. Remove the fill plug. Use an 8 mm Allen wrench.
 4. Check the fluid level.
 5. Add the recommended fluid as needed.
 6. Reinstall the fill plug.
 7. Torque to specification. See page 67.
-

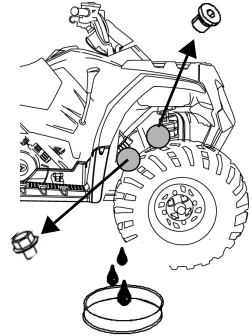


Front Gearcase (Demand Drive) Fluid Fluid Change

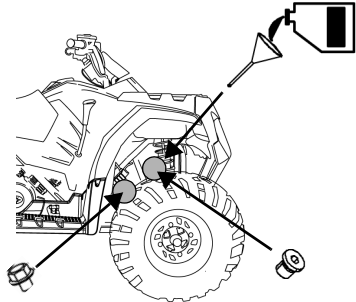
1. Position the vehicle on a level surface.
2. Place the transmission in PARK.



-
3. Remove the fill plug. Use an 8 mm Allen wrench.
 4. Place a drain pan under the gearcase.
 5. Remove the drain plug. Use an 11 mm wrench.
 6. Allow the oil to drain completely.



-
7. Clean and reinstall the drain plug. Torque to specification. See page 67.
 8. Add the recommended fluid.
 9. Reinstall the fill plug. Torque to specification.
 10. Check for leaks.
 11. Dispose of used oil properly.



MAINTENANCE

Brake Fluid

Check brake fluid levels for both brake systems before each ride. Always maintain brake fluid at the recommended level. Do not overfill.

The brakes should feel firm when they're applied. Spongy or weak brakes may indicate a fluid leak or low fluid level. A low fluid level may also mean that brake pads are worn and need to be replaced. Do not operate the vehicle with spongy or weak brakes. See your dealer for service.

WARNING

Operating the Quadricycle with a spongy brake can result in loss of braking, which could cause an accident. Never operate the Quadricycle with spongy-feeling brakes.

If the fluid level is low add DOT 4 brake fluid only. See page 107 for the part numbers of Polaris products.

WARNING

An over-full master cylinder may cause brake drag or brake lock-up, which could result in serious injury or death. Maintain brake fluid at the recommended level. Do not overfill.

Under normal operation, the diaphragm extends into the reservoir as fluid level drops. If the fluid level is low and the diaphragm is not extended, a leak is likely and the diaphragm should be replaced. To ensure proper diaphragm operation, always fill the reservoir as needed whenever the cover is loosened or removed. Do not overfill.

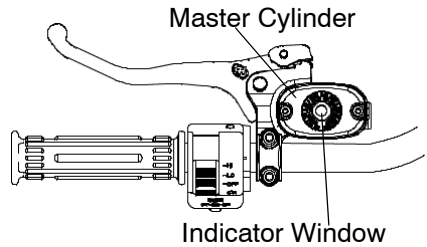
WARNING

Never store or use a partial bottle of brake fluid. Brake fluid is hygroscopic, meaning it rapidly absorbs moisture from the air. The moisture causes the boiling temperature of the brake fluid to drop, which can lead to early brake fade and the possibility of accident or severe injury. After opening a bottle of brake fluid, always discard any unused portion.

Brake Fluid

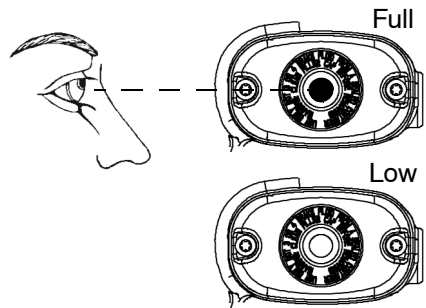
Hand Brake

The master cylinder is located on the left handlebar. Maintain the fluid level 6 mm below the top edge of the master cylinder. Do not overfill.



1. Position the vehicle on a level surface. Make sure the handlebars are straight.
2. View the fluid level through the indicator window (eye) on the top of the master cylinder.

NOTE: The eye will appear dark when the fluid level is full. When fluid is low, the eye will be clear.



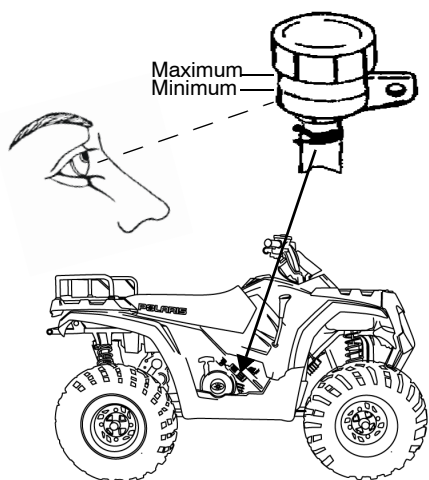
3. Add the recommended fluid as needed. Do not overfill.

MAINTENANCE

Brake Fluid

Foot Brake

The brake fluid reservoir is located near the foot brake. Maintain the fluid level between the minimum and maximum marks. Do not overfill.



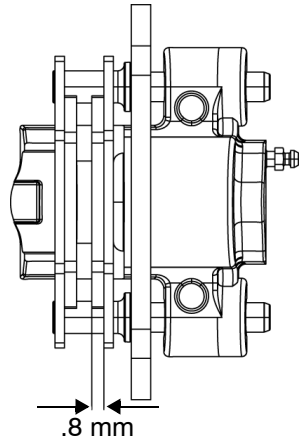
Brakes

The front and rear brakes are hydraulic disc brakes, activated by applying either the hand brake or the foot brake. Both brake systems are self-adjusting.

Brake Inspections

Perform the following checks to keep the brake systems in good operating condition. Check more often if brakes are used heavily under normal operation.

1. Always keep brake fluid at an adequate level. See page 70.
2. Check the brake systems regularly for fluid leaks.
3. Check the brakes for excessive travel or spongy feel.
4. Check the friction pads for wear, damage and looseness. Replace the pads when the friction material is worn to .8 mm.
5. Check the security and surface condition of the disc.



MAINTENANCE

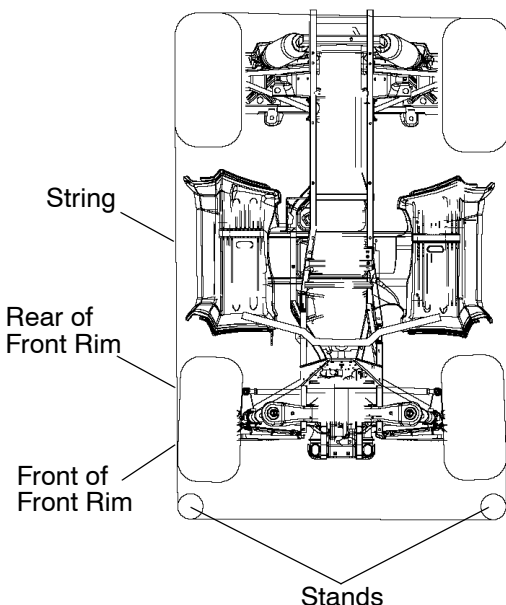
Toe Alignment

WARNING

Do not attempt to adjust alignment. All steering adjustments should be performed by an authorized Polaris dealer.

Use the following procedure to check the toe alignment of the vehicle. The recommended toe alignment is 3-6 mm toe out.

1. Place the handlebars in a straight-ahead position.
2. Place stands in front of the vehicle, perpendicular to the rear tires.
3. Tie an elastic string around the stands, making sure the string just touches the side surface of the rear tires on each side of the vehicle and goes around the stands in front of the vehicle.
4. Measure the distance from the string to the rim at the front and rear of the front rim. Rear measurement should be 2-3 mm more than the front measurement.



NOTE: If you discover improper alignment, see your Polaris dealer for service.

Steering Assembly

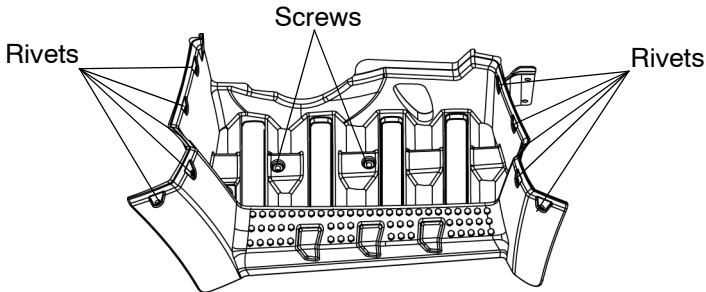
Check the steering assembly of the vehicle periodically for loose nuts and bolts. If loose nuts and bolts are found, see your Polaris dealer for service before operating the vehicle.

Side Panel Removal

1. Remove the seat.
2. Grasp the top of the side panel and pull it outward to remove it.

Footwell Removal

1. Remove the two screws on the bottom of the footwell.
2. Use a flat screwdriver or sidecutters to remove the plastic rivets securing the footwell to the fenders.
3. Remove the footwell.



MAINTENANCE

Tires

Refer to the specifications section beginning on page 112 for recommended tire type, size and pressure.

WARNING

Operating your vehicle with worn tires, improperly inflated tires, non-standard tires or improperly installed tires will affect vehicle handling and could cause an accident.

Maintain proper tire pressure as described on the decal on your vehicle and in the specifications section of the owner's manual.

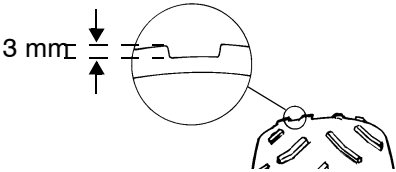
Use only original equipment size and type when replacing tires.

Make sure the wheels are installed properly.

Replace tires when the tread depth measures 3 mm or less.

Tire Tread Depth

Always replace tires when tread depth is worn to 3 mm or less.



Front Wheel Hub Tightening

Front wheel bearing tightness and spindle nut retention are critical component operations. All service must be performed by your authorized Polaris dealer.

Wheel Nut Torque Specifications

Check the wheel nut torques occasionally and when they've been loosened for service.

Item	Specification
Front Wheel Nuts	27 ft. lbs. (37 N-m)
Rear Wheel Nuts	27 ft. lbs. (37 N-m)

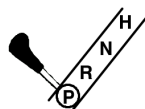
Tires

WARNING

Operating with improperly installed wheels will affect vehicle handling and could cause an accident resulting in serious injury or death. Always use original equipment size and type when replacing tires. Install wheels properly.

Wheel Removal/Installation

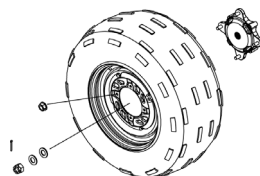
1. Position the vehicle on a level surface.
2. Place the transmission in PARK.



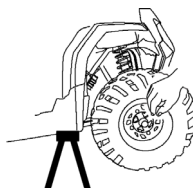
3. Loosen the wheel nuts slightly.
4. Place a suitable stand under the footrest frame to raise the wheel slightly off the ground.



5. Remove the wheel nuts.
6. Remove the wheel.



7. Place the wheel on the hub.
8. Install the wheel nuts finger tight.
9. Lower the vehicle to the ground.
10. Torque the wheel nuts to specification. See page 76.

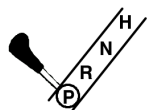


MAINTENANCE

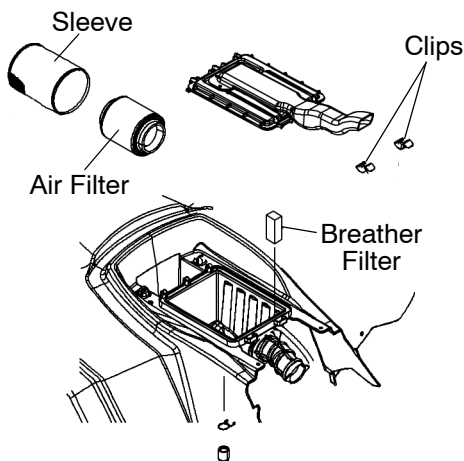
Air Filter/Breather Filter

Always clean and replace the air and breather filters at the intervals outlined in the Periodic Maintenance Chart beginning on page 53.

1. Position the vehicle on a level surface.
2. Place the transmission in PARK.



3. Remove the seat.
4. Release the air box cover clips, and remove the air box cover.
5. Remove the air filter.
6. Remove the sleeve from the filter.
7. Wash the sleeve in soapy water, then rinse and let dry.
8. Remove the breather filter. Wash the breather filter in soapy water, then rinse and let dry.



9. Reinstall the breather filter.

CAUTION

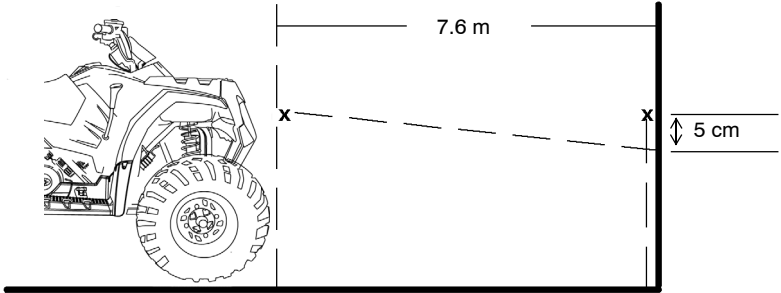
Operation of your vehicle without a breather filter can cause engine damage. Always reinstall the breather filter after removing it for service.

10. Reinstall the sleeve over the air filter. Replace the filter if needed.
11. Reinstall the air filter into the air box. Tighten the clamp. Do not over-tighten the clamp, as filter damage could occur.
12. Reinstall the air box cover and the seat.

Lights

Headlight Beam Adjustment

The headlight beam can be adjusted slightly upward or downward. Use the following procedure to make the adjustment.



1. Position the vehicle on a level surface with the headlight approximately 7.6 m from a wall.
2. Place the transmission in PARK.
3. Measure the distance from the floor to the center of the headlight and make a mark on the wall at the same height.

NOTE: Include rider weight on the seat when measuring.

4. Start the engine. Turn the headlight switch to high beam.
5. Observe the headlight aim on the wall. The most intense part of the headlight beam should be 5 cm below the mark on the wall.
6. Tighten or loosen the lower headlight screws to adjust the beam upward or downward or to the left or right.

MAINTENANCE

Lights

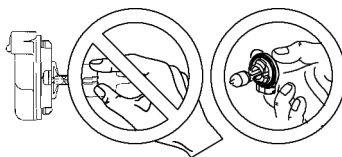
WARNING

Poor lighting can result in loss of control or an accident. Lights become dirty during normal operation. Wash the headlights and taillights frequently.

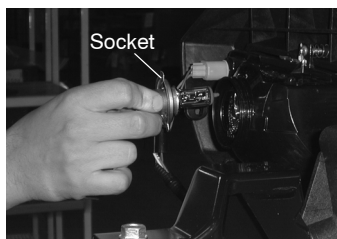
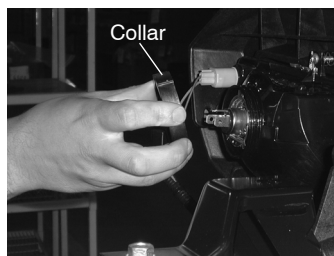
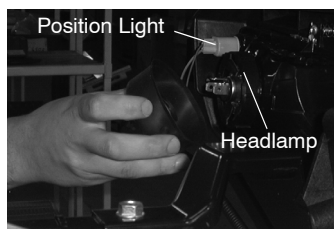
Hot components can cause serious burns to skin. Do not service the headlamps until they've cooled.

Headlight/Position Light Lamp Replacement

When servicing a halogen lamp, do not touch the lamp with bare fingers. Oil from your skin leaves a residue, causing a hot spot that will shorten the life of the lamp. Hold the plastic part of the lamp.



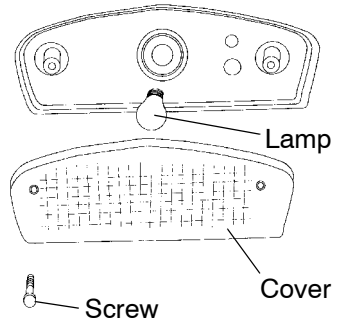
1. Place the transmission in PARK.
2. Open the front rack cover.
3. Remove the plug at the back of the headlight.
4. Pull the harness plug to disconnect it from the back of the headlight.
5. *Position light*: Rotate the socket to remove it. Go to step 6.
Headlamp: Reach under the bumper and remove the rubber cover from the back of the headlight. Turn the collar counter-clockwise and carefully remove the collar and socket.
6. Remove the lamp. Apply dielectric grease to the socket and install a new lamp.
7. Reverse all steps to reassemble the headlight.



Lights

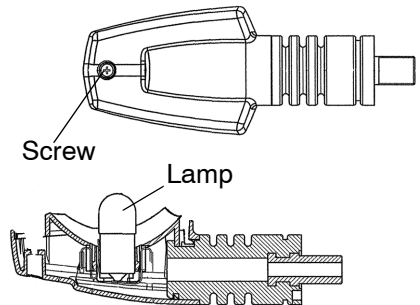
Taillight/Brakelight Lamp Replacement

1. From the rear of the brake-light, remove the two screws holding the lens cover in place. Remove the lens cover.
2. Remove the lamp and replace it with a new lamp.
3. Test the light for proper operation.
4. Reinstall the lens cover.



Turn Signal Lamp Replacement

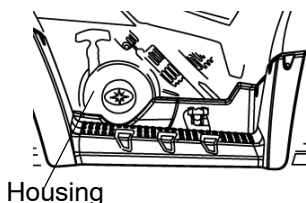
1. Place the transmission in PARK.
2. Remove the lens attachment screw.
3. Rotate the lamp to remove it.
4. Install the new lamp.
5. Reinstall the lens.



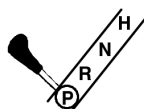
MAINTENANCE

Recoil Housing

Always drain the recoil housing after operating the vehicle in wet conditions. Drain the housing before storing the vehicle. Make sure the housing is completely dry before reinstalling the drain plug.

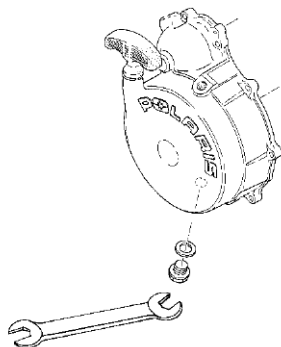


1. Place the transmission in PARK.
2. Stop the engine.



3. Remove the drain screw on the bottom of the recoil housing.
4. Allow the housing to drain completely.
5. Reinstall the drain screw.

NOTE: Do not open the *crankcase* drain unless the engine has ingested water. On 4-cycle engines, some engine oil will be lost if the crankcase drain is opened.



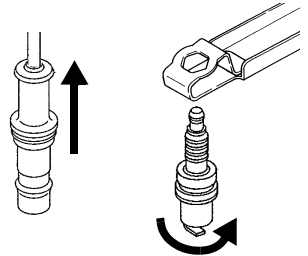
Spark Plugs

Spark Plug Recommendations

Refer to the specifications section beginning on page 112 for the recommended spark plug type and gap for your vehicle. Torque spark plugs to specification.

Plug Condition	Torque Specification
New Spark Plug	12-15 N-m
Previously Installed Spark Plug	23-27 N-m

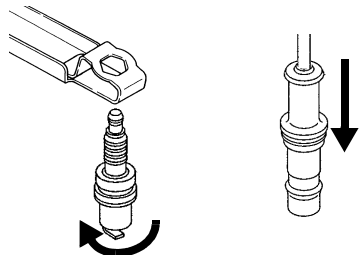
1. Remove the left side panel.
See page 75.
2. Remove the spark plug cap.
3. Use the spark plug wrench to remove the spark plug.
Turn the plug counterclockwise to remove it.



4. Inspect the electrodes for wear and carbon buildup. Replace worn or fouled plugs. Verify that the gap is at specification before installation.



5. Reinstall the spark plug.
Torque to specification.
6. Reinstall the spark plug cap.



MAINTENANCE

Spark Plugs

Spark Plug Inspection

Spark plug condition is indicative of engine operation. Check the spark plug firing end condition after the engine has been warmed up and the vehicle has been driven at higher speeds. Immediately check the spark plug for correct color.

Normal Spark Plug

The normal insulator tip is tan or brown. There will be 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 throttle body/carburetor adjustments.

Wet Fouled Spark Plug

The wet fouled insulator tip is black. A damp oil film covers the firing end. There may be a carbon layer over the entire nose. Generally, the electrodes are not worn. General causes of fouling are excessive oil consumption, improper use of the choke or incorrect throttle body/carburetor adjustments.

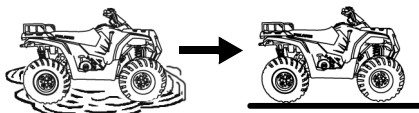
Vehicle Immersion

CAUTION

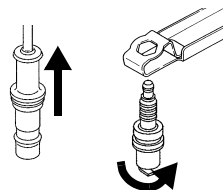
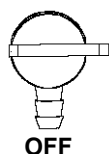
If the vehicle stops while fully submerged, major engine damage can result if the machine is not thoroughly inspected. Take the vehicle to your dealer before starting the engine.

If your vehicle has been totally submerged in water and it's impossible to have it serviced before further operation, perform the following procedure.

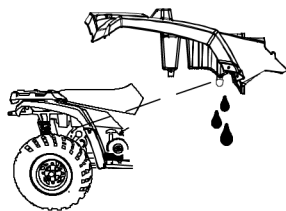
1. Move the vehicle out of the water.



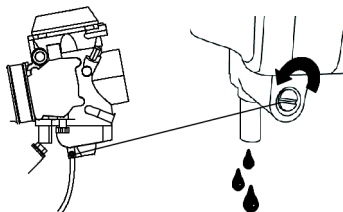
2. Turn the fuel valve off.
3. Remove the spark plug.



4. Drain any water found in the air box.



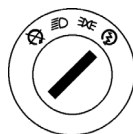
5. Loosen the carburetor drain screw and drain the carburetor.



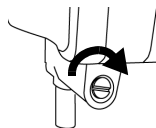
MAINTENANCE

Vehicle Immersion

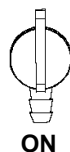
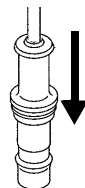
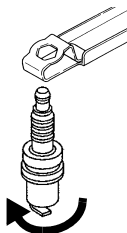
6. Turn the ignition key past the POSITION LIGHTS position to engage the starter. Engage the starter for only 2-3 seconds.



7. Tighten the carburetor drain screw.



8. Dry the spark plug. Reinstall the plug or install a new plug.
9. Torque to specification.
10. Turn the fuel valve on.



11. Attempt to start the engine. If necessary, repeat the drying procedure.
12. Have the vehicle serviced by your dealer promptly, whether you succeed in starting it or not.



NOTE: If water has been ingested into the PVT, follow the procedure on page 88 for drying out the PVT.

Spark Arrestor

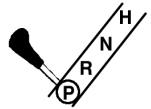
Occasionally, the spark arrestor may accumulate carbon, which can restrict the exhaust if left unattended. Purge the spark arrestor.

WARNING

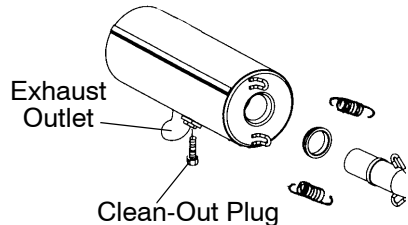
Allow components to cool sufficiently before servicing. The exhaust system can get extremely hot. Never run the engine in an enclosed area or indoors. Exhaust contains poisonous carbon monoxide gas. Never go under the vehicle while it's inclined.

Remove any combustible materials from the area. Wear eye protection and leather work gloves. Do not stand behind or in front of the vehicle while purging.

1. Position the vehicle on a level surface.
2. Place the transmission in PARK.



3. Remove the arrestor clean-out plug from the bottom of the muffler.
4. Start the engine.
5. Quickly squeeze and release the throttle lever several times to purge carbon from the system.
6. If carbon comes out of the exhaust, cover or plug the exhaust outlet. Wear protective gloves.
7. Lightly tap on the exhaust pipe with a rubber mallet while repeating step 5.
8. If particles are still suspected to be in the muffler, elevate the rear of the vehicle 30 cm higher than the front. Block the wheels.
9. Place the transmission in PARK. Repeat steps 5 to 7 until no more particles are expelled.
10. Stop the engine. Allow the arrestor to cool.
11. Reinstall the arrestor plug and remove the exhaust outlet cover or plug.



MAINTENANCE

PVT System

WARNING

Do not modify any component of the PVT system. Doing so may reduce its strength so that a failure may occur at a high speed. The PVT system has been precision balanced. Any modification will cause the system to be out of balance, creating vibration and additional loads on components.

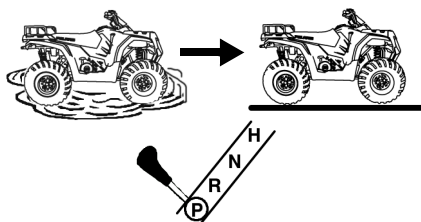
The PVT system rotates at high speeds, creating large amounts of force on clutch components. Extensive engineering and testing has been conducted to ensure the safety of this product. However, as the owner, you have the following responsibilities to make sure this system remains safe:

- Always follow all recommended maintenance procedures. See your dealer as outlined in the owner's manual.
- This PVT system is intended for use on Polaris products only. Do not install it in any other product.
- Always make sure the PVT housing is securely in place during operation.

PVT Drying

If water is ingested into the PVT system, dry it before operating the vehicle.

1. Move the vehicle out of the water.
2. Place the transmission in PARK.



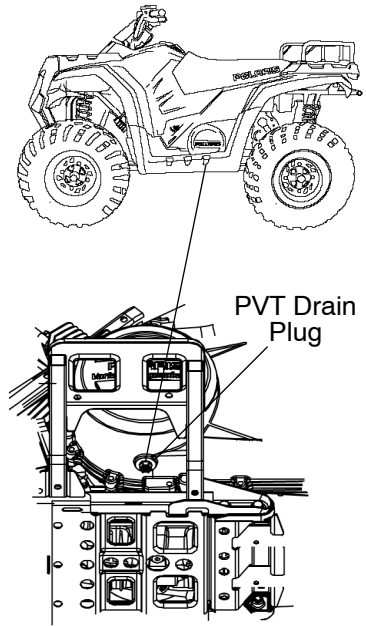
PVT System

PVT Drying

3. Remove the PVT drain plug. Use a 17 mm wrench, a flat screwdriver, or the spark plug wrench.
4. Allow the water to drain completely. Reinstall the drain plug.
5. Start the engine. Place the transmission in PARK.
6. Apply varying throttle for 10-15 seconds to expel the moisture and air-dry the belt and clutches.

NOTE: Do not hold the throttle wide open for more than 10 seconds.

7. Allow the engine RPM to settle to idle speed, then shift the transmission to the lowest available range.
8. Test for belt slippage. If the belt slips, repeat the process.
9. Take the vehicle to your dealer for service as soon as possible.



MAINTENANCE

Battery

Your vehicle may have either a sealed battery, which requires little maintenance, or a conventional battery. A sealed battery can be identified by its flat covers on the top of the battery. A conventional battery has six filler caps on the top of the battery.

Conventional Battery

Always keep battery terminals and connections free of corrosion. If cleaning is necessary, remove corrosion with a stiff wire brush. Wash with a solution of one tablespoon baking soda and one cup water. Rinse well with tap water and dry off with clean shop towels. Coat the terminals with dielectric grease or petroleum jelly. Be careful not to allow cleaning solution or tap water into a conventional battery.

WARNING

Battery electrolyte is poisonous. It contains sulfuric acid. Serious burns can result from contact with skin, eyes or clothing.

Antidote:

External: Flush with water.

Internal: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

Eyes: Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc. away. Ventilate when charging or using in an enclosed space. Always shield eyes when working near batteries. **KEEP OUT OF REACH OF CHILDREN.**

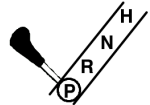
Battery

WARNING

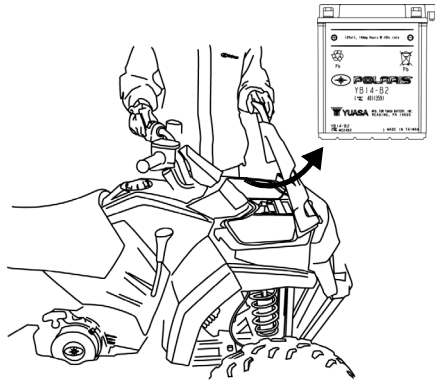
Improperly connecting or disconnecting battery cables can result in an explosion and cause serious injury or death. When removing the battery, always disconnect the negative (black) cable first. When reinstalling the battery, always connect the negative (black) cable last.

Battery Removal

1. Place the transmission in PARK.



2. Open the front cover.
3. Disconnect the battery hold-down strap.
4. On conventional batteries, remove the battery vent tube.
5. Disconnect the black (negative) battery cable first.
6. Disconnect the red (positive) battery cable last.
7. Lift the battery out of the vehicle. Be careful not to tip a conventional battery sideways, which could spill electrolyte.



CAUTION

If electrolyte spills, immediately wash it off with a solution of one tablespoon baking soda and one cup water to prevent damage to the vehicle.

MAINTENANCE

Battery

Battery Installation

1. Ensure that the battery is fully charged.
2. Place the battery in the battery holder.
3. With conventional batteries, install the battery vent tube (sealed batteries do not have a vent tube).

NOTE: The vent tube must be free of obstructions and securely installed. Route the tube away from the frame and vehicle body to prevent contact with electrolyte.

WARNING

Battery gases could accumulate in an improperly installed vent tube and cause an explosion, resulting in serious injury or death. Always ensure that the vent tube is free of obstructions and is securely installed as recommended.

4. On conventional batteries, coat the terminals with dielectric grease or petroleum jelly.
5. Connect and tighten the red (positive) cable first.
6. Connect and tighten the black (negative) cable last.
7. Secure the battery hold-down strap.
8. Verify that cables are properly routed.

NOTE: Cables should be safely tucked away at the front and rear of the battery.

MAINTENANCE

Battery

Battery Storage

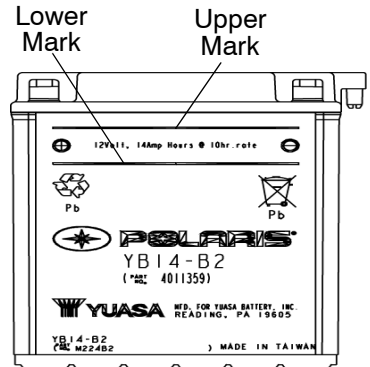
Whenever the vehicle is not used for a period of three months or more, remove the battery from the vehicle, ensure that it's fully charged, and store it out of the sun in a cool, dry place. Check battery voltage each month during storage and recharge as needed to maintain a full charge.

NOTE: Battery charge can be maintained by using a Polaris Battery Tender charger or by charging about once a month to make up for normal self-discharge. Battery Tender can be left connected during the storage period, and will automatically charge the battery if the voltage drops below a pre-determined point. See page 107 for the part numbers of Polaris products.

Battery Fluid (Conventional Battery)

Check the battery fluid level often. Maintain the fluid level between the upper and lower level marks.

Add only distilled water. Tap water contains minerals that are harmful to a battery.



MAINTENANCE

Battery

Battery Charging (Conventional Battery)

1. Remove the battery from the vehicle to prevent damage from leaking or spilled electrolyte during charging. See page 91.
2. Charge the battery with a charging output no larger than 1/10 of the battery's amp/hr rating. Charge as needed to raise the specific gravity to 1.270 or greater.
3. Reinstall the battery. See page 92. Make sure the positive terminal is toward the front of the vehicle.

Battery Charging (Sealed Battery)

The following battery charging instructions apply only to the installation of a sealed battery. Read all instructions before proceeding with the installation of this battery.

The sealed battery is already filled with electrolyte and has been sealed and *fully charged* at the factory. *Never* pry the sealing strip off or add any other fluid to this battery.

The single most important thing about maintaining a sealed battery is to keep it fully charged. Since the battery is sealed and the sealing strip cannot be removed, you must use a voltmeter or multimeter to measure DC voltage.

Battery

Battery Charging (Sealed Battery)

For a refresh charge, follow all instructions carefully.

1. Check the battery voltage with a voltmeter or multimeter. A fully charged battery will register 12.8 V or higher.
2. If the voltage is less than 12.8 volts, recharge the battery at 1.2 amps or less until battery voltage is 12.8 or greater.

NOTE: When using an automatic charger, refer to the charger manufacturer's instructions for recharging. When using a constant current charger, use the following guidelines for recharging.

WARNING

An overheated battery may explode, causing severe injury or death. Always watch charging times carefully. Stop charging if the battery becomes very warm to the touch. Allow it to cool before resuming charging.

NOTE: Always verify battery condition before and 1-2 hours after the end of charging.

State of Charge	Voltage	Action	Charge Time (Using constant current charger @ standard amps specified on top of battery)
100%	12.8-13.0 volts	None, check at 3 mos. from date of manufacture	None required
75%-100%	12.5-12.8 volts	May need slight charge, if no charge given, check in 3 months	3-6 hours
50%-75%	12.0-12.5 volts	Needs charge	5-11 hours
25%-50%	11.5-12.0 volts	Needs charge	At least 13 hours, verify state of charge
0%-25%	11.5 volts or less	Needs charge with desulfating charger	At least 20 hours

MAINTENANCE

Cleaning and Storage

Washing the Vehicle

Keeping your Polaris vehicle clean will not only improve its appearance but it can also extend the life of various components.

High water pressure may damage components. Polaris recommends washing the vehicle by hand or with a garden hose, using mild soap.

Certain products, including insect repellents and chemicals, will damage plastic surfaces. Do not allow these types of products to contact the vehicle.

1. Use a professional-type washing cloth, cleaning the upper body first and the lower parts last.
2. Rinse with clean water frequently.
3. Dry surfaces with a chamois to prevent water spots.

Washing Tips

- Avoid the use of harsh cleaners, which can scratch the finish.
- Do not use a power washer to clean the vehicle.
- Do not use medium to heavy duty compounds on the finish.
- Always use clean cloths and pads for cleaning and polishing. Old or reused cloths and pads may contain dirt particles that will scratch the finish.

Cleaning and Storage

Washing the Vehicle

If a high pressure water system is used for cleaning (not recommended), exercise extreme caution. The water may damage components and could remove paint and decals. Avoid directing the water stream at the following items:

- Wheel bearings
- Transmission seals
- Brakes
- Cab and body panels
- Labels and decals

NOTE: If warning and safety labels are damaged, contact your Polaris dealer for free replacement.

Grease all zerk fittings immediately after washing. Allow the engine to run for a while to evaporate any water that may have entered the engine or exhaust system.

Polishing the Vehicle

Polaris recommends the use of common household aerosol furniture polish for polishing the finish on your Polaris vehicle. Follow the instructions on the container.

Polishing Tips

- Avoid the use of automotive products, some of which can scratch the finish of your vehicle.
- Always use clean cloths and pads for cleaning and polishing. Old or reused cloths and pads may contain dirt particles that will scratch the finish.

MAINTENANCE

Cleaning and Storage

Chrome Wheel Care (if equipped)

Proper maintenance will protect chrome wheels from corrosion, preserve wheel life and ensure a "like new" appearance for many years.

NOTE: Chrome wheels exposed to road salt (or salt in the air in coastal areas) are more susceptible to corrosion if not properly cleaned. Clean chrome wheels more often if they're exposed to salt or other corrosive elements.

1. Wash chrome wheels frequently. Use a mild detergent. Never use abrasive cleaners on plated or painted surfaces.
2. Rinse well with clear water. Soap, detergents, salt, dirt, mud and other elements can cause corrosion.
3. Polish the clean chrome wheels periodically. Use an automotive grade chrome polish.
4. Routinely and liberally apply a weather resistant wax to each polished chrome wheel. Choose a product suitable for chrome finishes. Read and follow the product labels and instructions.

Removing Corrosion

If light rust is found on the chrome finish, use steel wool (#0000-OTT grade) to remove it. Gently rub the affected areas with the steel wool until the corrosion has been removed. Clean and polish the wheel as outlined above.

Cleaning and Storage

Storage Tips

CAUTION

Starting the engine during the storage period will disturb the protective film created by fogging and damage could occur. Never start the engine during the storage period.

Clean the Exterior

Make any necessary repairs and clean the vehicle as recommended. See page 96.

Stabilize the Fuel

1. Fill the fuel tank.
2. Add Polaris Carbon Clean Fuel Treatment or Polaris Fuel Stabilizer. Follow the instructions on the container for the recommended amount.

NOTE: Carbon Clean removes water from fuel systems, stabilizes fuel and removes carbon deposits from pistons, rings, valves and exhaust systems.

3. Allow the engine to run for 15-20 minutes to allow the stabilizer to disperse through the fuel in the tank and carburetor.
4. Turn the fuel valve off.
5. Drain the carburetor bowl.

Oil and Filter

Change the oil and filter. See page 61.

Air Filter / Air Box

1. Inspect and clean (or replace) the pre-cleaner and air filter.
2. Clean the air box.
3. Clean or replace the breather filter.
4. Drain the sediment tube.

Recoil Housing

1. Drain the recoil housing. See page 82.

MAINTENANCE

Cleaning and Storage

Storage Tips

Fluid Levels

Inspect the fluid levels. Change fluids as recommended in the Periodic Maintenance Chart beginning on page 53.

- Demand drive unit (front gearcase)
- Transmission
- Brake fluid (change every two years and any time the fluid looks dark or contaminated)

Fog the Engine

1. Treat the fuel system with Polaris Carbon Clean. See page 99.
2. Support the front end of the machine so the engine is level or tilted slightly rearward.
3. Remove the spark plug. Rotate the piston to BDC and pour 60 ml of engine oil into the cylinder.
4. Reinstall the spark plug. Torque to specification.
5. Apply dielectric grease to the inside of the spark plug cap. Reinstall the cap.
6. Turn the engine over several times using the recoil starter. Oil will be forced in and around the piston rings and ring lands, coating the cylinder with a protective film of fresh oil.
7. If Polaris fuel system additive is not used, the fuel tank, fuel lines, and carburetor should be completely drained of gasoline.

Cleaning and Storage

Storage Tips

Inspect and Lubricate

Inspect all cables and lubricate all areas of the vehicle as recommended in the Periodic Maintenance Chart beginning on page 53.

Battery Storage

See pages 93-94 for storage and charging procedures.

Storage Area/Covers

1. Set the tire pressure and safely support the vehicle with the tires slightly off the ground.
2. Be sure the storage area is well ventilated.
3. Cover the vehicle with a genuine Polaris cover. Do not use plastic or coated materials. They do not allow enough ventilation to prevent condensation, and may promote corrosion and oxidation.

Accessories

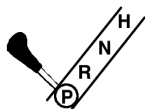
Auxiliary power outlets provide 12-volt power for operating accessories. Accessory outlets are available for all models. Polaris also has a wide range of additional accessories available for your vehicle. Always install accessories that are approved for Quadricycle use. Please see your Polaris dealer.

MAINTENANCE

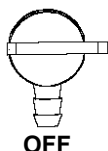
Transporting the Vehicle

Follow these procedures when transporting the vehicle.

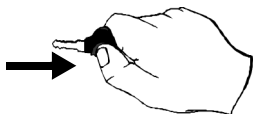
1. Stop the engine.
2. Place the transmission in PARK.



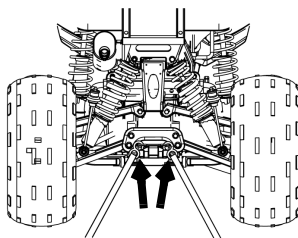
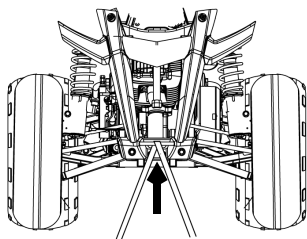
-
3. Turn the fuel valve off.
 4. Secure the fuel cap, oil cap and seat.



-
5. Remove the key to prevent loss during transporting.



-
6. Always tie the frame of the Quadricycle to the transporting unit securely with suitable straps or rope. Do not attach tie straps to the front A-arm bolt pockets.



Towing a Disabled Vehicle

If towing the vehicle is necessary, shift the transmission into neutral for better mobility and to prevent damage to the belt.

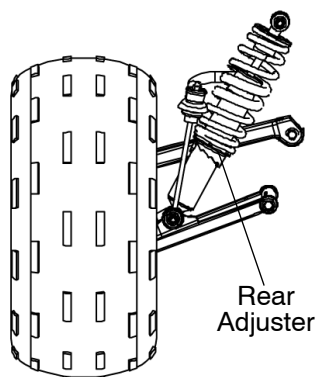
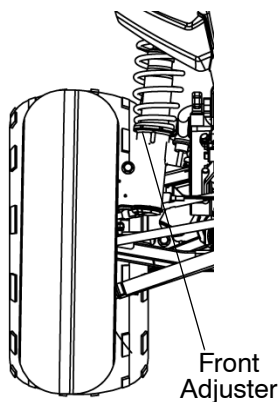
Always attach the tow rope to the frame of the Quadricycle.

ADJUSTMENTS

Spring Adjustments

The front and rear shock absorber springs are adjustable. Rotate the adjuster either clockwise or counterclockwise to increase or decrease spring tension. Always adjust both sides equally.

NOTE: Accessory springs are available through your Polaris dealer.



ADJUSTMENTS

Handlebars

The handlebars can be adjusted for rider preference.

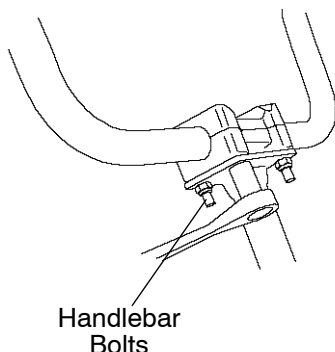
WARNING

Improper adjustment of the handlebars or incorrect torquing of the adjuster block tightening bolts can cause limited steering or loosening of the handlebars, resulting in loss of control. Follow the adjustment procedures exactly, or see your Polaris dealer for service.

1. Loosen the four handlebar bolts.
2. Adjust the handlebar to the desired height.

NOTE: Be sure the handlebars do not contact the gas tank or any other part of the machine when turned fully to the left or right.

3. Torque the front two bolts to 14-17 N-m, then torque the rear two bolts. A gap of up to 3 mm will remain at the rear bolts.



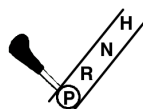
Carburetor

Your Polaris Quadricycle is calibrated at the factory for optimal performance at altitudes ranging from zero to 1800 meters and temperatures of 4 degrees C. or higher. Above 1800 meters the engine air/fuel mixture becomes overly rich and the engine loses approximately 3% of its power for each 300 meter increase in elevation. Although this power cannot be regained, adjustments to the carburetor and drive system can be made to allow more efficient operation. Optional jets, available from your Polaris dealer, are required for operation above 1800 meters. Jetting is required only when operating below 4 degrees C. at 1800 meters and lower.

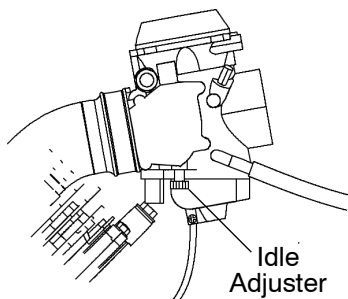
NOTE: Operating the engine with improper jetting can cause poor performance, overheating or engine damage. See your Polaris dealer for more information about jetting.

Carburetor/Engine Idle RPM Adjustment

1. Place the transmission in PARK.



2. Start the engine. Allow it to warm up for approximately five minutes.
3. Adjust the screw inward (clockwise) to raise RPM. Adjust the screw outward (counterclockwise) to lower RPM.

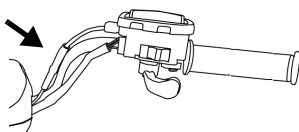


ADJUSTMENTS

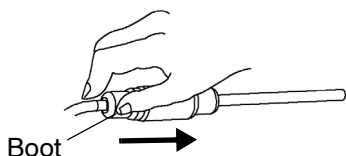
Throttle Cable Freeplay

Adjust throttle cable freeplay at the handlebar.

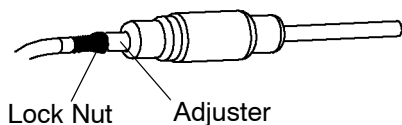
1. Locate the throttle cable adjuster at the handlebar.



2. Squeeze the end of the rubber boot and slide it far enough to expose the end of the inline cable adjuster.

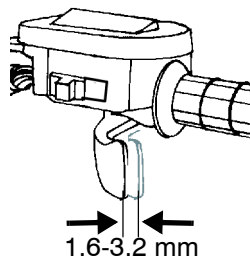


3. Loosen the adjuster lock nut.



4. Rotate the boot to turn the adjuster until 1.6-3.2 mm of freeplay is achieved at the thumb lever.

NOTE: Move the throttle lever back and forth while adjusting.



5. Tighten the lock nut.
6. Squeeze the end of the rubber boot and slide it over the cable adjuster to its original position.

NOTE: Engine RPM should not increase when steering is turned full left or right. Readjust cable freeplay if this occurs.

POLARIS PRODUCTS

Part Number	Description
Engine Lubricant	
2870791	Fogging Oil (12 oz. Aerosol)
2874865	Performance Synthetic 4-Stroke (PS-4) 0W-50 Oil (.95 l)
2874866	Performance Synthetic 4-Stroke (PS-4) 0W-50 Oil (3.8 l)
Gearcase / Transmission Lubricants	
2873602	Premium AGL Synthetic Gearcase Lubricant (.95 l)
2873603	Premium AGL Synthetic Gearcase Lube (3.8 l)
2870465	Pump for 3.8 liter jug
2871654	Premium Demand Drive Hub Fluid (237 ml)
2872277	Premium Demand Drive Hub Fluid (9.5 l)
Grease / Specialized Lubricants	
2871312	Grease Gun Kit, Premium All Season
2871322	Premium All Season Grease (89 ml cartridge)
2871423	Premium All Season Grease (414 ml cartridge)
2871460	Starter Drive Grease
2871515	Premium U-Joint Lube (89 ml)
2871551	Premium U-Joint Lube (414 ml)
2871329	Dielectric Grease (Nyogel™)
2872073	Chain Lube, Aerosol (185 ml)
2872348	Chain Lube, Aerosol (473 ml)
Additives / Miscellaneous	
2872889	Brake and Clutch Cleaner
2871326	Carbon Clean Plus
2870652	Fuel Stabilizer
2872189	DOT4 Brake Fluid
2872893	Engine Degreaser
2871956	Loctite™ 565 Thread Sealant
2871076	Polaris Battery Tender™ Charger

TROUBLESHOOTING

Drive Belt Wear/Burn

Possible Cause	Solution
Driving onto a pickup or tall trailer in high range	Use low range (if equipped).
Starting out going up a steep incline	Use low range (if equipped) or turn around using the K-turn (see page 26).
Driving at low RPM or ground speed (3-7 MPH)	Drive at a higher speed or use low range (if equipped) more frequently.
Insufficient warm-up at low ambient temperatures	Warm the engine at least 5 minutes. With the transmission in neutral, advance the throttle to about 1/8 throttle in short bursts, 5 to 7 times. The belt will become more flexible and prevent belt burning.
Slow/easy clutch engagement	Use the throttle quickly and effectively.
Towing/pushing at low RPM/low ground speed	Use low range only (if equipped).
Utility use/plowing	Use low range only (if equipped).
Stuck in mud or snow	Shift the transmission to low range (if equipped). Carefully use fast, aggressive throttle application to engage clutch. WARNING: Excessive throttle may cause loss of control and vehicle overturn.
Climbing over large objects from a stopped position	
Belt slippage from water or snow ingestion into the PVT system	Dry out the PVT. See page 88. Inspect clutch seals for damage if repeated leaking occurs.
Clutch malfunction	See your Polaris dealer.
Poor engine performance	Check for fouled plugs or foreign material in gas tank or fuel lines. See your dealer.
Slippage from failure to warm up belt	Always warm up the belt by operating below 48 km/h for 1.6 km. Operate 8 km or more when temperature is below freezing.
Wrong or missing belt	Install the recommended belt.
Improper break-in	Always break in a new belt and/or clutch. See page 48.

TROUBLESHOOTING

Engine Does Not Rotate

Possible Cause	Solution
Low battery voltage	Recharge the battery to 12.8 VDC
Loose battery connections	Check all connections and tighten
Loose solenoid connections	Check all connections and tighten

Engine Rotates, Fails to Start

Possible Cause	Solution
Out of fuel	Refuel
Clogged fuel valve or filter	Inspect and clean or replace
Water is present in fuel	Drain the fuel system and refuel
Fuel valve is turned off	Turn the fuel valve on
Old or non-recommended fuel	Replace with fresh recommended fuel
Fouled or defective spark plug(s)	Inspect plugs and replace if necessary
No spark to spark plug	Inspect plugs, verify stop switch is on
Overuse of choke	Inspect, clean and/or replace spark plugs
Water or fuel in crankcase	Immediately see your Polaris dealer
Clogged fuel filter	Replace the filter
Low battery voltage	Recharge the battery to 12.8 VDC
Mechanical failure	See your dealer

Engine Backfires

Possible Cause	Solution
Weak spark from spark plug	Inspect, clean and/or replace spark plug(s)
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Old or non-recommended fuel	
Loose ignition connections	Check all connections and tighten
Water present in fuel	Replace with fresh recommended fuel
Incorrectly installed spark plug wires	See your dealer
Incorrect ignition timing	See your dealer
Mechanical failure	See your dealer

TROUBLESHOOTING

Engine Pings or Knocks

Possible Cause	Solution
Poor quality or low octane fuel	Replace with recommended fuel
Incorrect ignition timing	See your dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Idle set too low	Adjust idle speed

Engine Runs Irregularly, Stalls or Misfires

Possible Cause	Solution
Fouled or defective spark plug(s)	Inspect, clean and/or replace spark plug(s)
Worn or defective spark plug wires	See your dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Loose ignition connections	Check all connections and tighten
Water present in fuel	Replace with new fuel
Low battery voltage	Recharge battery to 12.8 VDC
Kinked or plugged fuel tank vent line	Inspect and replace
Incorrect fuel	Replace with recommended fuel
Clogged air filter	Inspect and clean or replace
Reverse speed limiter malfunction	See your dealer
Electronic throttle control malfunction	See your dealer
Other mechanical failure	See your dealer

Possible Lean Fuel Cause	Solution
Low or contaminated fuel	Add or change fuel, clean the fuel system
Low octane fuel	Replace with recommended fuel
Clogged fuel filter	Replace filter
Kinked or plugged fuel vent line	Inspect and replace (if equipped)
Incorrect jetting	See your dealer

Possible Rich Fuel Cause	Solution
Overuse of choke	Inspect, clean and/or replace spark plugs
Fuel is very high octane	Replace with lower octane fuel
Incorrect jetting	See your dealer
Stopping/starting without adequate warm-up	Allow engine to warm up before operating and/or stopping
Clogged air filter	Inspect and clean or replace

TROUBLESHOOTING

Engine Stops or Loses Power

Possible Cause	Solution
Out of fuel	Refuel, cycle key to ON position three times for 5 seconds each, then start
Kinked or plugged fuel vent line	Inspect and replace (if equipped)
Water is present in fuel	Replace with fresh recommended fuel
Old or non-recommended fuel	Replace with fresh recommended fuel
Overuse of choke	Inspect, clean and/or replace spark plugs
Fouled or defective spark plug(s)	Inspect, clean and/or replace spark plug(s)
Worn or defective spark plug wires	See your dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plug
Loose ignition connections	Check all connections and tighten
Low battery voltage	Recharge the battery to 12.8 VDC
Clogged air filter	Inspect and clean or replace
Reverse speed limiter malfunction	See your dealer
Electronic throttle control malfunction	See your dealer
Other mechanical failure	See your dealer
Overheated engine	Clean engine exterior, see your Polaris dealer

Engine Overheating

Possible Cause	Solution
Towing/dragging heavy loads	Install the accessory oil cooler if the vehicle will be used for towing heavy loads, dragging ground surfaces or performing similar activities.
Operating in excessive heat	Install the accessory oil cooler if the vehicle is normally operated when the air temperature is above 38° C.

SPECIFICATIONS

Hawkeye 2X4 International	
Gross Vehicle Weight	423 kg
Dry Weight	243 kg
Fuel Capacity	17 l
Engine Oil Capacity	1.9 l
Transmission Oil	450 ml
Demand Drive Fluid	148 ml
Front Rack Capacity	32 kg
Rear Rack Capacity	45 kg
Hitch Tongue Weight Capacity	34 kg (Rear rack capacity and tongue weight not to exceed 45 kg)
Hitch Towing Rating	340.2 kg
Unbraked Trailer Towing Capacity*	550 kg
Overall Length	188 cm
Overall Width	107 cm
Overall Height	116 cm
Wheelbase	117 cm
Ground Clearance	20.3 cm
Minimum Turning Radius	159 cm unloaded
Engine Model Number/Type	ES300PFE010/4-Cycle, Single Cylinder
Lubrication	Wet sump
Engine Cooling	Air
Displacement	299 cc
Bore x Stroke	78.5 x 68
Alternator Output	250 w
Compression Ratio	9.2:1
Carburetor	Mikuni BST 34
Pilot Jet	42.5
Main Jet	147.5
Needle Jet	0-4M
Jet Needle	4HB42-5
Pilot Air Jet	140
Ignition System	DC CDI
Ignition Timing	10° +/- 2° @ 1500 RPM/30° +/- 2° @ 5000 RPM
Spark Plug / Gap	NGK CR8E / 0.8 mm
Driving System Type	Automatic PVT (Polaris Variable Transmission)
Shift Type	Side Lever (H/N/R/P)
Drive Ratio, Final	15.18:1

* Based on EU Directive 76/432/EC

SPECIFICATIONS

Hawkeye 2X4 International

Tires/Pressure, Front	22x7-12 / 34.5 KPa
Tires/Pressure, Rear	22x10-12 / 34.5 KPa
Front Suspension	MacPherson strut with 18 cm travel
Rear Suspension	Progressive rate with 20 cm travel
Shock Adjustment	CAM
Brake, Hand	All-wheel hydraulic disc
Brake, Foot	All-wheel hydraulic disc
Brake, Parking	Transmission park lock (primary) Hydraulic lock, all-wheel (secondary)
Headlight	2 Dual beam on bumper (35 watt)
Taillights	12V 5W
Brake Light	12V 21W
Battery	12V 14AH
Electric Start	Standard
Neutral Indicator	Standard
Reverse Indicator	Standard
Speedometer/Odometer/ Tripmeter/Hourmeter	Standard
Fuel Gauge	Standard
Tool Kit	Standard
DC Plug-In (rear)	Accessory
Windshield	Accessory

Jetting Chart

ALTITUDE Meters	AMBIENT TEMPERATURE	
	Below 5° C	5°C and above
0-900	145	140
900-1800	Same main jet / Remove 2 air box plugs	
1800-2700	Same main jet / Remove 4 air box plugs	
Above 2700	Same main jet / Remove 6 air box plugs	
Above 3000	Same main jet / Remove 6 air box plugs <i>Move jet needle clip to position #2</i>	

Clutching Chart

Altitude Meters	Roller Weight	Number of Rollers	Driven Clutch Spring
0-1500	13 g / 5412988	8	7043228
1500-3000	10 g / 5412986	8	7043228
3000+	10 g / 5412986	6 (Remove two opposite rollers to maintain clutch balance)	7043228

SPECIFICATIONS

Hawkeye 4X4 International	
Gross Vehicle Weight	423 kg
Dry Weight	250 kg
Fuel Capacity	17 l
Engine Oil Capacity	1.9 l
Transmission Oil	600 ml
Demand Drive Fluid	148 ml
Front Rack Capacity	32 kg
Rear Rack Capacity	45 kg
Hitch Tongue Weight Capacity	34 kg (Rear rack capacity and tongue weight not to exceed 45 kg)
Hitch Towing Rating	340.2 kg
Unbraked Trailer Towing Capacity*	550 kg
Overall Length	188 cm
Overall Width	107 cm
Overall Height	116 cm
Wheelbase	117 cm
Ground Clearance	20.3 cm
Minimum Turning Radius	159 cm unloaded
Engine Model Number/Type	ES300PFE010/4-Cycle, Single Cylinder
Lubrication	Wet sump
Engine Cooling	Air
Displacement	299 cc
Bore x Stroke	78.5 x 68
Alternator Output	250 w
Compression Ratio	9.2:1
Carburetor	Mikuni BST 34
Pilot Jet	42.5
Main Jet	147.5
Needle Jet	0-4M
Jet Needle	4HB42-5
Pilot Air Jet	140
Ignition System	DC CDI
Ignition Timing	10° +/- 2° @ 1500 RPM/30° +/- 2° @ 5000 RPM
Spark Plug / Gap	NGK CR8E / 0.8 mm
Driving System Type	Automatic PVT (Polaris Variable Transmission)
Shift Type	Side Lever (H/N/R/P)
Drive Ratio, Front	3.6:1
Drive Ratio, Final	15.18:1

* Based on EU Directive 76/432/EC

SPECIFICATIONS

Hawkeye 4X4 International

Tires/Pressure, Front	22x7-12 / 34.5 KPa
Tires/Pressure, Rear	22x10-12 / 34.5 KPa
Front Suspension	MacPherson strut with 18 cm travel
Rear Suspension	Progressive rate with 20 cm travel
Shock Adjustment	CAM
Brake, Hand	All-wheel hydraulic disc
Brake, Foot	All-wheel hydraulic disc
Brake, Parking	Transmission park lock (primary) Hydraulic lock, all-wheel (secondary)
Headlight	2 Dual beam on bumper (35 watt)
Taillights	12V 8.26W
Brake Light	12V 26.9W
Battery	12V 14AH
Speedometer/Odometer/ Tripmeter/Hourmeter	Standard
Fuel Gauge	Standard
Electric Start	Standard
Neutral Indicator	Standard
Reverse Indicator	Standard
Tool Kit	Standard
DC Plug-In (rear)	Accessory
Windshield	Accessory

Jetting Chart

ALTITUDE Meters	AMBIENT TEMPERATURE	
	Below 5° C	5°C and above
0-900	145	140
900-1800	Same main jet / Remove 2 air box plugs	
1800-2700	Same main jet / Remove 4 air box plugs	
Above 2700	Same main jet / Remove 6 air box plugs	
Above 3000	Same main jet / Remove 6 air box plugs <i>Move jet needle clip to position #2</i>	

Clutching Chart

Altitude Meters	Roller Weight	Number of Rollers	Driven Clutch Spring
0-1500	13 g / 5412988	8	7043228
1500-3000	10 g / 5412986	8	7043228
3000+	10 g / 5412986	6 (Remove two opposite rollers to maintain clutch balance)	7043228

WARRANTY

LIMITED WARRANTY

Polaris Industries Inc., 2100 Highway 55, Medina, MN 55340, gives a TWO YEAR LIMITED WARRANTY on all components of the Polaris Quadricycle against defects in material or workmanship. This warranty covers the parts and labor charges for repair or replacement of defective parts which are covered by this warranty. This warranty begins on the date of purchase. This warranty is transferable to another consumer during the warranty period through a Polaris dealer.

REGISTRATION

At the time of sale, the Warranty Registration Form must be completed by your dealer and submitted to Polaris within ten days. Upon receipt of this registration, Polaris will record the registration for warranty. **THE PURCHASER MUST COMPLETE A QUADRICYCLE SAFETY TRAINING COURSE PROVIDED BY THE DEALER IN ORDER TO HAVE VALID WARRANTY ON THE QUADRICYCLE.** No verification of registration will be sent to the purchaser as the copy of the Warranty Registration Form will be the warranty entitlement. If you have not signed the original registration and received the "customer copy", please contact your dealer immediately. **NO WARRANTY COVERAGE WILL BE ALLOWED UNLESS YOUR QUADRICYCLE IS REGISTERED WITH POLARIS.**

Initial dealer preparation and set-up of your vehicle is very important in ensuring trouble-free operation. Purchasing a machine in the crate or without proper dealer set-up will void your warranty coverage.

WARRANTY

WARRANTY COVERAGE AND EXCLUSIONS: LIMITATIONS OF WARRANTIES AND REMEDIES

The Polaris limited warranty excludes any failures that are not caused by a defect in material or workmanship. This warranty does not cover accidental damage, normal wear and tear, abuse or improper handling. This warranty also does not cover any Quadricycle that has been altered structurally, modified, neglected, improperly maintained, used for racing, or used for purposes other than for which it was manufactured, or for any damages which occur during trailer transit or as a result of unauthorized service or the use of unauthorized parts. In addition, this warranty does not cover physical damage to paint or finish, stress cracks, tearing or puncturing of upholstery material, corrosion, or defects in parts, components or the vehicle due to fire, explosions or any other cause beyond Polaris' control.

This warranty does not cover the use of unauthorized lubricants, chemicals, or fuels that are not compatible with the Quadricycle. The exclusive remedy for breach of this warranty shall be, at Polaris' exclusive option, repair or replacement of any defective materials, or components or products. **THE REMEDIES SET FORTH IN THIS WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON FOR BREACH OF THIS WARRANTY. POLARIS SHALL HAVE NO LIABILITY 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.** Some states do not permit the exclusion or limitation of incidental or consequential damages or implied warranties, so the above limitations or exclusions may not apply to you if inconsistent with controlling state law.

WARRANTY

LIMITATIONS OF WARRANTIES AND REMEDIES

ALL IMPLIED WARRANTIES (INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE LIMITED IN DURATION TO THE ABOVE TWO YEAR WARRANTY PERIOD. POLARIS FURTHER DISCLAIMS ALL EXPRESS WARRANTIES NOT STATED IN THIS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you if inconsistent with controlling state law.

HOW TO OBTAIN WARRANTY SERVICE

If your Quadricycle requires warranty service, you must take it to a Polaris dealer authorized to repair Polaris Quadricycles. When requesting warranty service you must present your copy of the Warranty Registration form to the dealer. (THE COST OF TRANSPORTATION TO AND FROM THE DEALER IS YOUR RESPONSIBILITY). Polaris suggests that you use your original selling dealer; however, you may use any Polaris Servicing Dealer to perform warranty service.

Please work with your dealer to resolve any warranty issues. Should your dealer require any additional assistance they will contact the appropriate personnel at Polaris.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If any of the above terms are void because of state or federal law, all other warranty terms will remain in effect.

MAINTENANCE LOG

Present this section of your manual to your dealer each time your vehicle is serviced. This will provide you and future owners with an accurate log of maintenance and services performed.

DATE	MILES (KM) OR HOURS	TECHNICIAN	SERVICE PERFORMED / COMMENTS

MAINTENANCE LOG

DATE	MILES (KM) OR HOURS	TECHNICIAN	SERVICE PERFORMED / COMMENTS

INDEX

A

Accessories	101
Age Restrictions	6
Air Filter	78
All Wheel Drive Switch	36
All Wheel Drive System	44
AWD System	44

B

Battery

Charging (Conventional)	94
Charging (Sealed)	94-95
Conventional	90
Fluid (Conventional)	93
Installation	92
Removal	91
Storage	93
Boots	17
Brake Fluid	70-72
Brake Inspections	73
Brake, Foot	38
Brake, Hand	38
Brake, Parking	39
Brakelight	81
Brakes	73
Break-In Period	48
Breather Filter	78

C

Carburetor	105
Carburetor Adjustment	105
Cargo	32-33
Choke	37
Chrome Wheel Care	98
Cleaning and Storage	96-101
Clothing	17
Clutching Chart, 2X4	113
Clutching Chart, 4X4	115
Cold Weather Operation	51
Corrosion Removal, Chrome	98

D

Demand Drive Fluid	67-69
Drive Belt Wear/Burn	108
Drivetrain Break-In	48
Driving Downhill	25
Driving in Reverse	31

D

Driving on a Sidehill	24
Driving on Slippery Surfaces	20
Driving Over Obstacles	21
Driving Procedures	18
Driving Safely	18-33
Driving Through Water	28-29
Driving Uphill	22-23

E

Electromagnetic Interference	52
Electronic Throttle Control	37
Engine Break-In	48
Engine Fogging	100
Engine Idle RPM Adjustment	105
Engine Oil	59-60
Equipment Modifications	6
Exhaust Emission Control System	52
Eye Protection	17

F

Fluid

Brake	70-72
Demand Drive	67-69
Transmission	64-66
Foot Brake	38
Footwell Removal	75
Front Gearcase	67-69
Fuel Filter	41
Fuel Safety	47
Fuel Tank Cap	41
Fuel Valve	41

G

Gear Selector	42
Gloves	17

H

Hand Brake	38
Handlebar Adjustment	104
Hauling Cargo	32-33
Hazard Warning Switch	36
Headlight Beam Adjustment	79
Headlight Lamp	80
Helmet	16
Horn Switch	36

INDEX

I

Idle RPM Adjustment	105
Immersion	85-86
Instrument Cluster	45-46

J

Jetting Chart, 2X4	113
Jetting Chart, 4X4	115

K

Key Switch	35
K-Turn	26-27

L

Light Switch	35
--------------------	----

Lights

Headlight Beam Adjustment ..	79
Headlight Lamp	80
Position Light Lamp	80
Taillight/Brakelight	81
Turn Signal Lamp	81
Lubrication Guide	58

M

Maintenance Chart	53-57
Mirrors	37
Mode Switch	34
Modifications	6

N

Noise Emission Control System ...	52
-----------------------------------	----

O

Oil

Engine	59-60
Transmission	64-66
Oil and Filter Change	61-63
Oil Level, Engine	60
Oil Recommendations	59
Operator Safety	5-13
Override Switch	34

P

Parking Brake	39
Parking on an Incline	30
Periodic Maintenance Chart	53-57
Polaris Product List	107

P

Polishing the Vehicle	97
Position Light Lamp	80
Pre-Ride Checklist	49
PVT Break-In	48
PVT Drying	88-89
PVT System	88-89

R

Recoil Housing	82
Recoil Starter	43
Reverse Operation	31
Reverse Override Switch	34
Rider Information Center	46
Riding Gear	16-17

S

Safety Decals

"No Passenger" Warning	15
Age 16 Alert	14
General Alert	14
Hill Operation Alert	14
Rack Warning, Front/Rear	15
Reverse Override Alert	15
Tire Pressure/Load Alert	15
Safety Training	6
Severe Use	53
Side Panel Removal	75
Sidehilling	24
Signal Words	5
Spark Arrestor	87
Spark Arrestor Requirements	52
Spark Plugs	83-84
Spring Adjustments	103
Starting the Engine	50-51
Steering Assembly	75
Steering Lock	40
Stop Switch	35
Storage	96-101

Switches

AWD Switch	36
Engine Stop Switch	35
Hazard Warning	36
Horn	36
Light Switch	35
Main Key Switch	35
Mode/Reverse Override Switch ..	34
Turn Signal	36

T

Taillight.....	81
Throttle Cable Freeplay	106
Throttle Lever	37
Tire Tread Depth.....	76
Tires	
Front Wheel Hub Tightening ..	76
Tread Depth	76
Wheel Installation.....	77
Wheel Nut Torque	76
Wheel Removal.....	77
Toe Alignment	74
Towing a Disabled Vehicle.....	102
Towing Loads	33
Training, Safety	6
Transmission Oil.....	64-66
Transporting the Vehicle	102
Turn Signal Lamp.....	81
Turn Signal Switch.....	36
Turning Around on a Hill	26-27
Turning the Vehicle	19

V

Vehicle Identification Numbers	4
Vehicle Immersion	85-86

W

Warning Symbols	5
Washing the Vehicle.....	96-97
Wheel Hub Tightening	76
Wheel Installation.....	77
Wheel Nut Torque Specifications... ..	76
Wheel Removal	77