Read this manual carefully, it contains important safety information.

Models sold in and used in California:

The removal or modification of evaporative emission-related parts on this OHRV is illegal. Violators may be subject to civil and/or criminal penalties as provided under California and federal law.

OWNER'S MANUAL

2025 RANCHER 4X4 AT IRS



Minimum recommended operator age: 16

This manual should be considered a permanent part of the ATV and should remain with the ATV when it is resold.

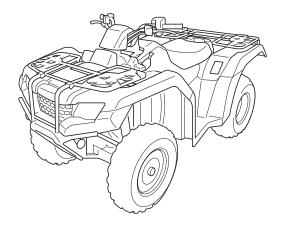
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This vehicle pictured in this owner's manual may not match your actual vehicle.

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2025 Honda TRX420FA6 FOURTRAX RANCHER 4X4 AT IRS EPS OWNER'S MANUAL



FOR OFF-ROAD USE ONLY

This vehicle is designed and manufactured for off-road use only.

It conforms to US EPA Noise Emission regulations, but does not conform to Federal Motor Vehicle Safety Standards or US EPA On Highway Exhaust Emission regulations, and operation on public streets, roads, or highways is illegal. The vehicle is equipped with a USDA qualified spark arrester. Obey local laws and regulations.

It conforms to US EPA and California emission regulations for ATVs.

Introduction

Congratulations on choosing your Honda ATV.

When you own a Honda, you're part of a worldwide family of satisfied customers — people who appreciate Honda's reputation for building quality into every product.

Your Honda was designed as a recreational ATV for off-road use by one rider only.

Before riding, take time to get acquainted with your ATV and how it works. To protect your investment, we urge you to take responsibility for keeping your ATV well-maintained. Scheduled service is a must, of course. But it's just as important to observe the break-in guidelines and perform all pre-ride and other periodic checks detailed in this manual.

We also recommend that you read this owner's manual before you ride. It's full of facts, instructions, safety information, and helpful tips. To make it easy to use, the manual contains a detailed list of topics at the beginning of each section and an index at the back of the book.

As you read this manual, you will find information that is preceded by a **NOTICE** symbol. This information is intended to help you avoid damage to your Honda, other property, or the environment.

Read the Warranties Booklet (page 249) thoroughly so you understand the coverages that protect your new Honda and are aware of your rights and responsibilities.

Whenever you ride, tread lightly. By staying on established trails and riding only in approved areas, you help protect the environment and keep off-road riding areas open for the future.

Introduction

If you have any questions or if you ever need special service or repairs, remember that your dealer knows your ATV best and is dedicated to your complete satisfaction.

Please report any change of address or ownership to your dealer so we will be able to contact you concerning important product information.

You may also want to visit our website at *www.powersports.honda.com.*

Happy riding!

A Few Words About Safety

Your safety, and the safety of others, is very important. And operating this ATV safely is an important responsibility.

To help you make informed decisions about safety, we have provided operating procedures and other information on labels and in this manual. This information alerts you to potential hazards that could hurt you or others.

Of course, it is not practical or possible to warn you about all hazards associated with operating or maintaining an ATV. You must use your own good judgment.

You will find important safety information in a variety of forms, including:

Safety Labels — on the ATV.

Safety Messages — preceded by a safety alert symbol **A** and one of three signal words: **DANGER**, **WARNING**, or **CAUTION**.

A Few Words About Safety

These signal words mean:





You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.

You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.

You CAN be HURT if you don't follow instructions.

Safety Headings — such as Important Safety Reminders or Important Safety Precautions.

Safety Section — such as ATV Safety.

Instructions — how to use this ATV correctly and safely.

This entire manual is filled with important safety information — please read it carefully.

Contents

These pages give an overview of the contents of your owner's manual.

The first page of each section lists the topics covered in that section.

Basic Operation & Riding67 How to start and stop the engine, shift gears, and brake. Also, riding precautions.

Contents

Servicing Your Honda105
Why your ATV needs regular maintenance, what you need to know before servicing your Honda, an owner maintenance schedule, and instructions for specific maintenance and adjustment items.
Tips
How to store and transport your ATV and how to be an environmentally responsible rider.
Taking Care of the Unexpected
What to do if you have a flat tire, your engine won't start, etc.
Technical Information231
ID numbers, technical specifications, and other technical facts.
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Information on warranties, emission controls, how to get Honda service manuals.
Index255
Quick Reference

Handy facts about fuel, engine oil, tire sizes, and air pressures.

ATV Safety

This section presents some of the most important information and recommendations to help you ride your ATV safely. Please take a few moments to read these pages. This section also includes information about the location of safety labels on your ATV.

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Important Safety Information

Your ATV can provide many years of service and pleasure if you take responsibility for your own safety and understand the challenges you can meet while riding.

There is much that you can do to protect yourself when you ride. You'll find many helpful recommendations throughout this manual. The following are a few that we consider to be most important.

Follow the Age Recommendation

The minimum recommended age for this ATV model is 16. Children under age 16 should never operate this vehicle. Refer to the age warnings provided in this manual and on the ATV.

Always Wear a Helmet

It's a proven fact: helmets significantly reduce the number and severity of head injuries. So always wear an approved motorcycle helmet. We also recommend that you wear eye protection, sturdy boots, gloves, and other protective gear (page 52).

Never Carry a Passenger

Your ATV is designed for one person only. There are no handholds, footrests, or seat for a second person, so never carry a passenger. A passenger could interfere with your ability to move around to maintain your balance and control of the ATV.

Important Safety Information

Ride Off-road Only

Your ATV is designed and manufactured for off-road use only. The tires are not made for pavement, and the ATV does not have turn signals and other features required for use on public roads. If you need to cross a paved or public road, get off and walk your ATV across.

Take Time to Learn & Practice

Even if you have ridden other ATVs, take time to become familiar with how this ATV works and handles. Practice in a safe area until you build your skills and get accustomed to the ATV's size and weight.

Because many crashes involve inexperienced or untrained riders, we urge all riders to take an ATV operator course approved by the ATV Safety Institute (ASI). See page 54.

Contact an authorized ATV dealer or call 1-800-887-2887 to find out about the training courses nearest you.

Be Alert for Off-road Hazards

The terrain can present a variety of challenges when you ride offroad. Continually "read" the terrain for unexpected turns, drop-offs, rocks, ruts, and other hazards. Always keep your speed low enough to allow time to see and react to hazards.

Important Safety Information

Ride within Your Limits

Pushing limits is another major cause of ATV crashes. Never ride beyond your personal abilities or faster than conditions warrant. Remember that alcohol, drugs, fatigue, and inattention can significantly reduce your ability to make good judgments and ride safely.

Don't Drink or Use Drugs and Ride

Alcohol or drugs and riding don't mix. Even one alcoholic drink can reduce your ability to respond to changing conditions, and your reaction time gets worse with every additional drink. The same is true for drug use. Don't drink or use and ride, and don't let your friends do it either.

Keep Your Honda in Safe Condition

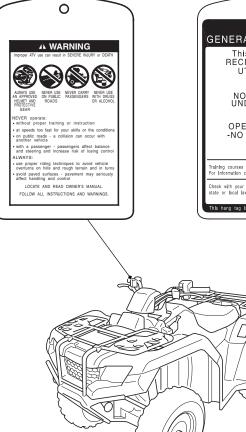
It's important to keep your ATV properly maintained and in safe riding condition. Having a breakdown can be difficult, especially if you are stranded off-road far from your base. To help avoid problems, inspect your ATV before every ride and perform all recommended maintenance.

Safety Labels

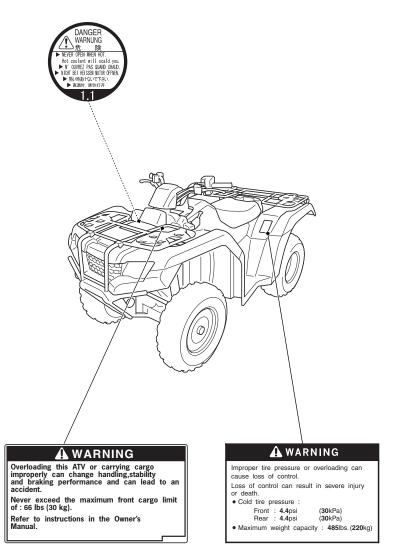
Your ATV comes with a hang tag and several labels containing important safety information. Anyone who rides the vehicle should read and understand this information before riding.

The labels should be considered permanent parts of the vehicle. If a label comes off or becomes hard to read, contact your dealer for replacements.

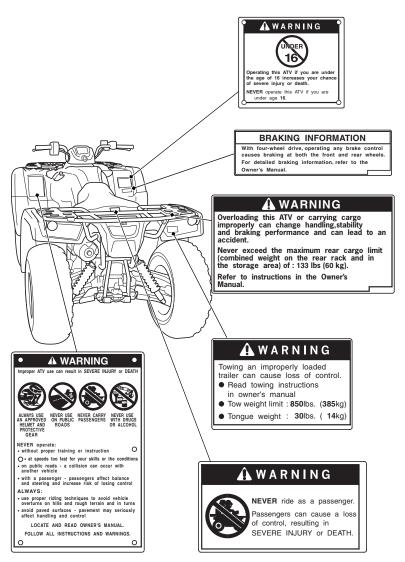
Safety Labels



O G GENERAL USE MODEL This ATV is for RECREATIONAL or UTILITY USE NO OPERATOR UNDER AGE 16 OPERATOR ONLY NO PASSENGERS Italeng courses to teach ATV rding are available. For Information contact your dealer. Check with your dealer to find ext about state or local laws regarding ATV operation. This hang tag is not to be removed before safe.



Safety Labels



Instruments & Controls

This section shows the location of all indicators and controls you would normally use before or while riding your ATV.

The items listed on this page are described in this section. Instructions for other components are presented in other sections of this manual where they will be most useful.

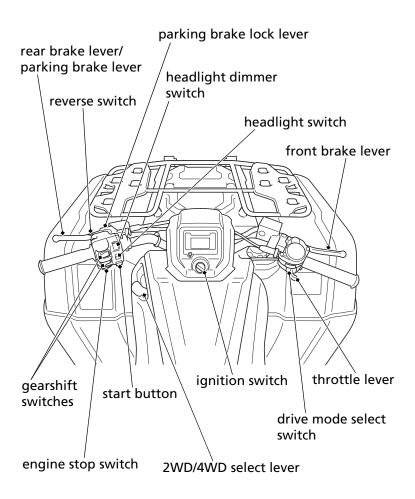
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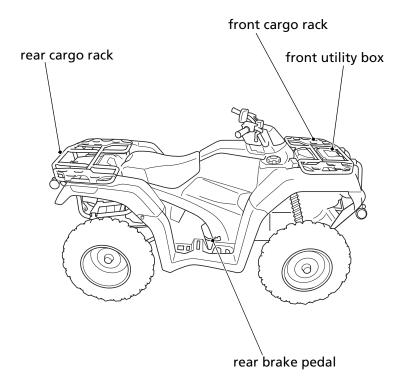
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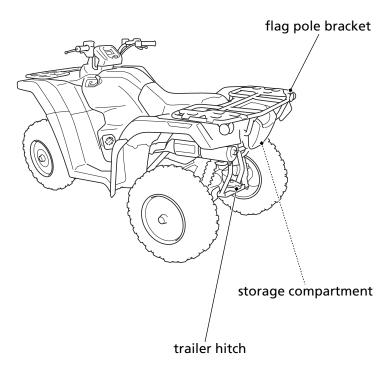
Operation Component Locations



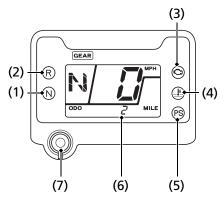
Operation Component Locations



Operation Component Locations



The indicators and displays on your ATV keep you informed, alert you to possible problems, and make your riding safer and more enjoyable. Refer to the indicators frequently. Their functions are described on the following pages.



- (1) neutral indicator
- (2) reverse indicator
- (3) PGM-FI indicator
- (4) high coolant temperature indicator
- (5) PS (Electric Power Steering) indicator
- (6) multi-function display
- (7) mode button

Lamp Check

Initial lamp check:

The indicators come on for a few seconds and then go off when you turn the ignition switch to ON (1).

The high coolant temperature indicator and PGM-FI indicator will temporarily come back on for a few seconds and then go off after initial lamp check.

The PS (Electric Power Steering) indicator comes back on and remains on until the engine is started after initial lamp check.

These indicators are identified in the table on page 17 with the words: *Lamp Check*.

When applicable, the reverse or neutral indicators come back on and remain on until you shift out of reverse or neutral after initial lamp check.

If one of these indicators does not come on when it should, have your dealer check for problems.

Display Check

When the ignition switch is turned on, the multi-function display (1) will temporarily show all the modes, digital segments and initial message. This is so you can make sure the liquid crystal display is functioning properly.

The displays are identified in the table on page 18 with the words: *Display Check*.

If any part of these displays does not come on when it should, have your dealer check for problems.



(1) multi-function display

1	Neutral indicator	Lights when the transmission is in
I	Neutral Indicator	Lights when the transmission is in
		neutral. Lamp Check.
2	Reverse indicator	Lights when the transmission is in
		reverse. Lamp Check.
3	PGM-FI indicator	Lights when there is any
		abnormality in the PGM-FI
		(Programmed Fuel Injection)
		system. Should also light for a few
		seconds and then go off when the
		ignition switch is turned on. If the
		indicator comes on at any other
		time, reduce speed and take your
		vehicle to your dealer as soon as
		possible. Lamp Check.
4	High coolant	Lights when coolant temperature is
4	-	
	temperature	high enough to adversely affect the
	indicator	service life of the engine.
		If the high coolant temperature
		indicator comes on while you are
		riding, immediately bring the
		vehicle to a stop, turn the engine
		off and let it cool. See page 220.
		Lamp Check.
5	PS (Electric Power	Lights when there is an abnormality
	Steering) indicator	in the EPS (Electric Power Steering)
	-	system. See page 49. Lamp Check.

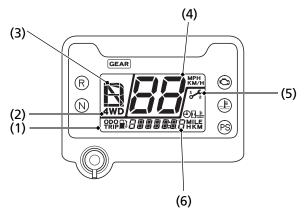
6	Multi-function	The display includes the following
0		
	display	functions. Display Check.
	4WD indicator	Shows when the 4WD drive mode
		engages (page 23).
	Gear position	Shows the gear position (page 24).
	indicator	
	Speedometer	Shows riding speed.
	Fuel gauge	Shows approximate fuel supply
		available (page 25).
	Digital clock	Shows the time (hour and minutes)
		(page 27).
	Odometer	Shows accumulated mileage (page
		28).
	Tripmeter	Shows mileage per trip (page 28).
	Coolant	Shows approximate coolant
	temperature gauge	temperature (page 29).
	Hour meter	Shows hours and tenths of hours of
		engine operation (page 31).
	Maintenance	Shows when specified maintenance
	minder indicator	interval is reached (page 32).
	Maintenance	Informs when the mileage or
	tripmeter	operating hours on your ATV
	Maintenance hour	approaches and passes the interval
	meter	specified on the maintenance
		schedule (page 32).

7	Mode button	Selects display in the lower parts of multi-function display (page 21). This button also used to change the speed and mileage unit (page 23),
		adjusts the clock (page 27) and resets tripmeter, maintenance tripmeter and maintenance hour meter (page 32).

Multi-function Display

The multi-function display (1) includes the following functions:

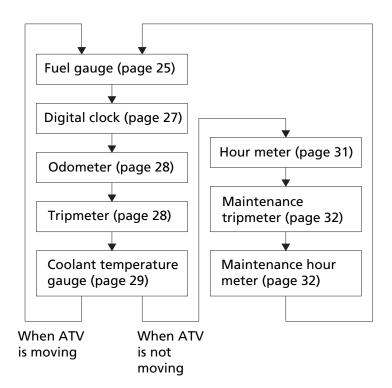
4WD indicator Gear position indicator Maintenance minder indicator Speedometer Fuel gauge Digital clock Odometer Tripmeter Coolant temperature gauge Hour meter Maintenance tripmeter Maintenance hour meter



- (1) multi-function display
- (2) 4WD indicator
- (3) gear position indicator
- (4) speedometer

- (5) maintenance minder indicator
- (6) fuel gauge/digital clock/ odometer/tripmeter/coolant temperature gauge/hour meter/maintenance tripmeter/maintenance hour meter

Each time you press the mode button, the mode will change as shown in the illustration.



If there is a fuel warning with your ATV, the display will automatically change to the fuel gauge.

If you try to change the display back to ordinary display, it will automatically return to the fuel gauge.

If there is a coolant temperature warning with your ATV, the display will automatically change to the coolant temperature gauge. If you try to change the display back to ordinary display, it will automatically return to the coolant temperature gauge.

Speed and Mileage Unit Changing

The speedometer, odometer, tripmeter and maintenance tripmeter show in either "MPH" and "MILE" or "KM/H" and "KM".

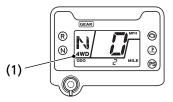
To change the speed and mileage unit, press and hold the mode button (1) for more than 5 seconds in odometer (page 28) with the ATV stopped.



(1) mode button

4WD Indicator

The 4WD indicator (1) appears when the 4WD mode engages (page 35).



(1) 4WD indicator

Gear Position Indicator

The gear position indicator (1) shows the gear position when the ignition switch is in the ON (1) position.

AUTO (automatic shift mode):

The indicator displays N for neutral, R for reverse, and D for drive.

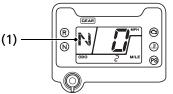
ESP (manual shift mode):

The indicator displays N for neutral, R for reverse, and 1 - 5 for the five forward gears.

"-" will be displayed on the gear position indicator when the transmission is not shifted into gear properly. Before riding, check that the gear position is properly displayed on the gear position indicator.

If the gear position indicator shows "–" or blinks, turn the ignition switch to the OFF (O) position, and then turn it back to the ON (I) position again. If the gear position indicator shows "–", rock the vehicle back and forth and make sure the gear position indicator is displayed properly and then if the gear position indicator still shows "–" or blinks, see your dealer.

If the "-" on the gear position indicator is blinking, see your dealer.

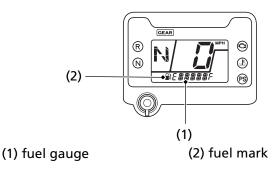


(1) gear position indicator

Fuel Gauge

The fuel gauge (1) shows the approximate fuel supply available with fuel mark (2). The fuel tank capacity is:

3.88 US gal (14.7 ℓ)



Regardless of what mode the display is in, when the fuel level reaches the 1st segment (3), the display will automatically switch to the fuel gauge display. You should refuel as soon as possible. The amount of fuel remaining when there is only 1st segment is approximately:

1.82 US gal (6.9 ℓ)

(3) 1st segment

When the fuel gauge shows E $_$ $_$ $_$ $_$ F (4) and LO FUEL (5) blinks 3 times alternately and the fuel mark blinks, you should refill the tank as soon as possible.

The amount of fuel reserve is approximately:

1.29 US gal (4.9 ℓ)



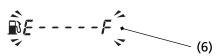
(4) E _ _ _ F

(5) LO FUEL

Fuel gauge failure:

If the fuel gauge function fails E - - - - F (6) will blink. See your dealer.

(The fuel mark disappears except the fuel gauge display)



(6) E - - - - F

Digital Clock

The digital clock (1) displays hours and minutes with the clock mark (2), when the ignition switch is ON (1).

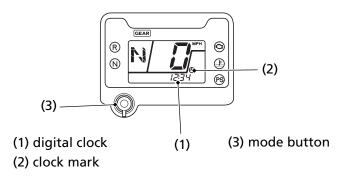
To adjust the time, proceed as follows:

- 1. Turn the ignition switch ON (1) to display the clock (page 21).
- 2. Press and hold the mode button (3) until the display starts blinking.
- 3. To advance the display 1 minute at a time, press and release the mode button for 0.5 seconds.

Press and hold the mode button for more than 0.5 seconds, the display will begin advancing fast.

- 4. Release the mode button when the display reaches the desired time.
- 5. To set the clock, press and release the mode button for less than 0.5 seconds.

The clock can also be set by turning the ignition switch off and then on.

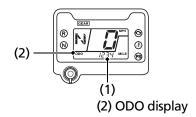


After the battery is reconnected (page 187), check the clock. Readjust the clock if necessary.

Indicators & Displays

Odometer

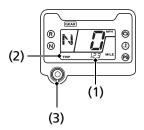
The odometer (1) registers total distance traveled in mileage while the ignition is ON (1) with the ODO display (2). The odometer locks at 999,999 when the read-out exceeds 999,999.



(1) odometer

Tripmeter

The tripmeter (1) shows mileage per trip with the TRIP display (2), while the ignition is ON (1) since you last reset the tripmeter. The tripmeter returns to 0.0 when the read-out exceeds 999.9. To reset the tripmeter to 0.0, press the mode button (3) and hold it in for at least 2 seconds in the tripmeter mode.



(1) tripmeter

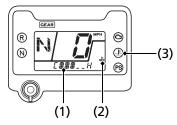
(3) mode button

(2) TRIP display

Coolant Temperature Gauge

The coolant temperature gauge (1) with the coolant temperature mark (2) shows the coolant temperature.

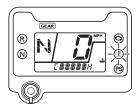
When coolant temperature is low, the coolant temperature gauge will display "Lo".



(1) coolant temperature gauge(2) coolant temperature mark

(3) high coolant temperature indicator

If all sections of the coolant temperature gauge and high coolant temperature indicator are on (automatically appears in the display) while you are riding, immediately stop the vehicle, turn the engine off and check the coolant reserve tank level. See page 142.



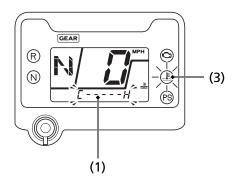
NOTICE

Continuing to ride with an overheated engine can cause serious engine damage.

Indicators & Displays

Coolant temperature gauge failure:

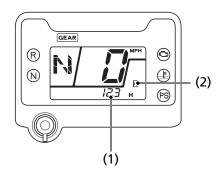
If the coolant temperature system has an error, the coolant temperature gauge (1) will blink and preferentially appear in the display, and/or high coolant temperature indicator (3) will turn on. If this occurs, see your dealer as soon as possible.



- (1) coolant temperature gauge
- (3) high coolant temperature indicator

Hour meter

The hour meter (1) shows the accumulated hours while the ignition switch is ON (1) with the hour meter mark (2). The hour meter provides accurate service period information for initial and regular maintenance. The hour meter locks at 99,999.9 when the read-out exceeds 99,999.9.



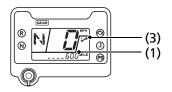
(1) hour meter

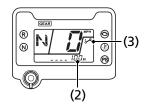
(2) hour meter mark

Indicators & Displays

Maintenance Tripmeter & Maintenance Hour meter

The maintenance tripmeter (1), the maintenance hour meter (2) and maintenance minder indicator (3) inform you when the mileage or operating hours on your ATV approaches and passes the maintenance interval specified on the maintenance schedule (page 112).

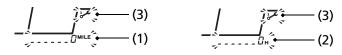




(1) maintenance tripmeter(2) maintenance hour meter

(3) maintenance minder indicator

The maintenance tripmeter, or the maintenance hour meter and maintenance minder indicator will blink, when they reach their setting values.



Reset the meters after each scheduled maintenance. To reset the maintenance tripmeter and the maintenance hour meter, press and hold the mode button and turn the ignition switch to ON (1). Continue to hold the mode button, the maintenance minder indicator will light up, and after 2 seconds will blink twice, the maintenance minder indicator is reset.

Also the maintenance tripmeter and maintenance hour meter will reset.

Maintenance Minder Indicators:

or	Initial Maintenance Appears at 100 miles (150 km) or 20 operating hours, whichever comes first.
1	Regular Maintenance Interval 1 Appears 600 miles (1,000 km) or 100 operating hours after the Initial Maintenance or Regular Maintenance Interval 2 is performed and maintenance minder is reset, whichever comes first in the maintenance schedule.
0 2	Regular Maintenance Interval 2 Appears 600 miles (1,000 km) or 100 operating hours after Regular Maintenance Interval 1 is performed and maintenance minder is reset, whichever comes first in the maintenance schedule.

If the maintenance is done before the setting interval, be sure to reset the meters after the maintenance.

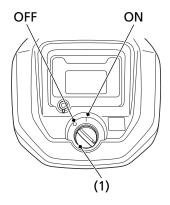
Ignition Switch

The ignition switch (1) is used for starting and stopping the engine (page 74). Insert the key and turn it to the right for the ON (1) position.

The ignition switch is also used to reset the maintenance tripmeter and the maintenance hour meter (page 33).

Key Position	Function
ON (1)	Electrical circuits on.
OFF (O)	No electrical circuits function.

CENTER OF HANDLEBAR



(1) ignition switch I ON O OFF

2WD/4WD Select Lever

Your ATV is equipped with a 2WD/4WD select lever (1), which permits a choice between the "2WD" and "4WD" drive modes. Select a drive mode that's suitable for your riding.

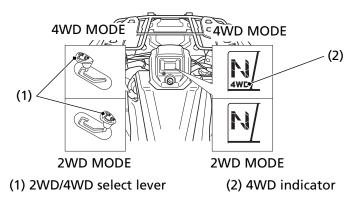
Keep both hands on the handlebar while the machine is in motion and come to a complete stop before using the 2WD/4WD select lever.

The 2WD/4WD select lever is located on the left side of the fuel tank. To select the drive mode, shift the 2WD/4WD select lever to the desired position.

After using the 2WD/4WD select lever, the mode may not mechanically engage until forward motion begins.

To check your present drive mode, look at the 4WD indicator (2).

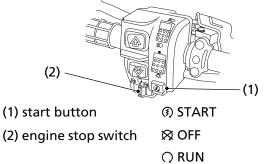
2WD mode: the 4WD indicator goes off when the 2WD mode engages. 4WD mode: the 4WD indicator goes on when the 4WD mode engages.



Start Button



LEFT HANDLEBAR



The start button (1) is used for starting the engine. Pushing the button in starts the engine. See *Starting Procedure*, page 76.

When the start button is pushed, the starter motor will crank the engine. The starter motor will not operate if the engine stop switch is in the OFF (\bigotimes) position when the start button is pushed.

Engine Stop Switch



The engine stop switch (2) is used to stop the engine in an emergency. To operate, slide the switch to the OFF (\bigotimes) position. The switch must be in the RUN (\bigcap) position to start the engine, and it should normally remain in the RUN (\bigcap) position even when the engine is OFF.

If your ATV is stopped with the ignition switch ON (1) and the engine stop switch OFF (🕸), the battery will discharge. Turn the ignition switch to OFF (O) to prevent battery discharge.

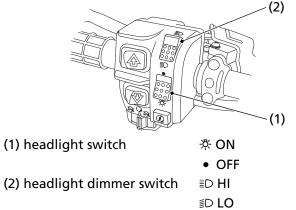
36 Instruments & Controls

Headlight Switch

☆•

≣D

LEFT HANDLEBAR



The headlight switch (1) is used to turn the headlights ON (\mathfrak{P}) or OFF (\bullet). To operate, turn the switch to ON (\mathfrak{P}) or OFF (\bullet).

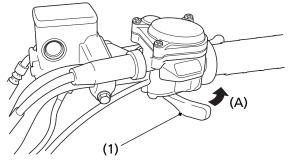
Headlight Dimmer Switch

The headlight dimmer switch (2) is used to change between the high and low beams of the headlight. To operate, turn the switch to HI (\equiv D) for high beam, LO (\equiv D) for low beam.

Controls & Features

Throttle Lever

RIGHT HANDLEBAR



(1) throttle lever

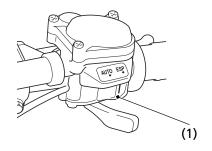
(A) to open the throttle

The throttle controls engine rpm (speed). To increase engine rpm, press the throttle lever (1) with your thumb. To reduce engine rpm, release pressure on the throttle lever. The throttle will automatically return to the closed position (engine idle) when you remove your thumb.

Drive Mode Select Switch

The drive mode select switch (1) has two positions, AUTO (automatic shift mode) and ESP (manual shift mode). See *Shifting Gears* page 80.

RIGHT HANDLEBAR



(1) drive mode select switch

Controls & Features

Gearshift Switch

AUTO (automatic shift mode):

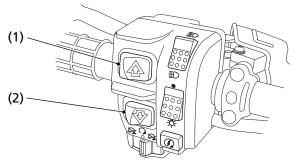
These gearshift switches [upshift switch (1) and downshift switch (2)] are used to select the drive (D), neutral (N) and reverse (R). See *Shifting Gears*, page 80 and *Riding in Reverse*, page 86.

ESP (manual shift mode):

These gearshift switches are used to select the next higher or lower gear in the transmission. To operate, press the upshift switch (1) to engage the next higher gear or press the downshift switch (2) to engage the next lower gear.

See Shifting Gears, page 80 and Riding in Reverse, page 86.

LEFT HANDLEBAR



(1) upshift switch(2) downshift switch

Front Brake Lever

The front brake lever is used to slow or stop your ATV. To operate, pull the lever. For information on braking techniques, see page 89.

Rear Brake Lever/Parking Brake Lever

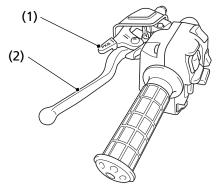
The rear brake lever/parking brake lever is used to slow or stop your ATV. To operate, pull the lever. For information on braking techniques, see page 89.

Rear Brake Pedal

The rear brake pedal is used to slow or stop your ATV. To operate, depress the pedal. For information on braking techniques, see page 89.

Parking Brake Lever

LEFT HANDLEBAR



(1) parking brake lock lever(2) rear brake lever/parking brake lever

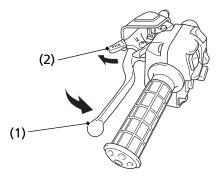
The parking brake lock lever (1) on the rear brake lever/parking brake lever (2) is used to apply the parking brake.

To apply the parking brake:

Bring the vehicle to a complete stop and make sure the transmission is in neutral.

Squeeze the rear brake lever/parking brake lever (1), then rotate the parking brake lock lever (2) clockwise until it engages the slot on the rear brake lever/parking brake lever bracket.

For more information on *Parking*, see page 104.



(1) rear brake lever/parking brake lever(2) parking brake lock lever

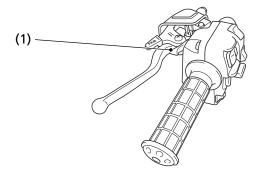
To release the parking brake:

Squeeze the rear brake lever/parking brake lever until the parking brake lock lever is released from the slot on the rear brake lever/ parking brake lever bracket.

The brake light is activated by applying the parking brake. When using the parking brake, be sure to turn the ignition switch to OFF (O) to avoid discharging the battery.

Reverse Switch

LEFT HANDLEBAR



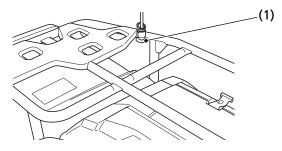
(1) reverse switch

The reverse switch (1) is used when shifting the transmission into reverse (R).

To shift into reverse (R), see Riding in Reverse, page 86.

Flag Pole Bracket

RIGHT REAR



(1) flag pole bracket

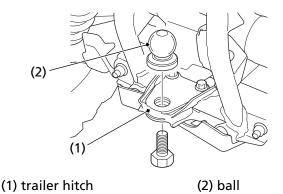
Flag poles are optional equipment available from your dealer. To mount a pole in the bracket (1), follow the instructions that come with the flag pole kit.

Flag poles are required in some riding areas. Check local regulations before riding.

Controls & Features

Trailer Hitch

REAR



The trailer hitch (1) is located on the rear frame. To use the hitch, you'll need a proper size ball (2) as specified by the trailer manufacturer.

To attach the ball and properly hook up a trailer, follow the trailer manufacturer's instructions. For load limits and operational guidelines, see page 61.

Front Utility Box

The front utility box (1) is located on the front center cover. You may store small, lightweight items in the box.

To open: Pull up the front of the front utility box cover (2).

To close:

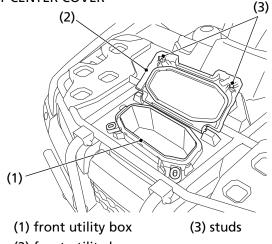
Push down the front of the front utility box cover until it locks in place. Make sure that the studs (3) are locked securely in position by pulling up lightly on the front of the front utility box cover.

NOTICE

Do not store valuable items in the front utility box.

Be careful not to flood this area when washing your ATV.

FRONT CENTER COVER



(2) front utility box cover

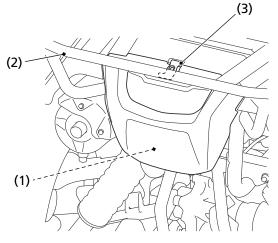
Storage Compartment

The storage compartment (1) is located below the rear cargo rack (2).

To open the compartment, unhook the rubber strap (3).

Be careful not to flood this area when washing your ATV.

REAR



- (1) storage compartment
- (2) rear cargo rack
- (3) rubber strap

EPS (Electric Power Steering)

This ATV is equipped with an electronically controlled, electricpower-assisted steering system.

While the engine is running, the EPS (Electric Power Steering) system provides power from the electric motor, which helps you to turn the ATV's handlebar more easily.

The EPS system on this ATV utilizes an overheat protection feature to prevent damage to system components. In certain extended, repetitive high-load situations the PS indicator will illuminate and the system will reduce or even disable power steering assist. The steering will perform as a normal non-EPS system during this brief period. If this occurs, safely stop the vehicle and allow the EPS system to cool down until the PS indicator goes off. After cooling down, steering will return to normal EPS operation.

The PS indicator should light when the ignition switch is turned on and remain on until the engine is started.

The PS indicator also lights when there is any abnormality in the EPS system. If this occurs, the electric power assist for turning will not be available, but the manual steering system will perform as usual.

If the PS indicator lights at any time while riding, other than the temporary overheat condition described above, reduce speed and take your ATV to your dealer as soon as possible. Continuing to ride with a EPS system problem can damage system components.

Do not modify your EPS system. In case of a malfunction, take your ATV to your dealer.

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Before Riding

Before each ride, you need to make sure you and your Honda are both ready to ride. To help get you prepared, this section discusses how to evaluate your riding readiness, what items you should check on your ATV, and adjustments to make for your comfort, convenience, or safety. This section also includes important information about loading.

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Are You Ready to Ride?

Before you ride your ATV for the first time, we urge you to:

- Read this owner's manual and the labels on your ATV carefully.
- Make sure you understand all the safety messages.
- Know how to operate all the controls.

Before each ride, be sure:

- You feel well and are in good physical and mental condition.
- You are wearing an approved motorcycle helmet (with chin strap tightened securely), eye protection, and other protective clothing.
- You don't have any alcohol or drugs in your system.

Protective Apparel

For your safety, we strongly recommend that you always wear an approved motorcycle helmet, eye protection, boots, gloves, long pants, and a long-sleeved shirt or jacket whenever you ride. Although complete protection is not possible, wearing proper gear can reduce the chance of injury when you ride.

Following are suggestions to help you choose the proper gear.

Helmet and Eye Protection

Your helmet is your most important piece of riding gear because it offers the best protection against head injuries. A helmet should fit your head comfortably and securely.

Are You Ready to Ride?

An open-face helmet offers some protection, but a full-face helmet offers more. Regardless of the style, look for a Department of Transportation (DOT) sticker on any helmet you buy. Always wear a face shield or goggles to protect your eyes and help your vision.

Operating this ATV without wearing an approved motorcycle helmet, eye protection, and protective clothing could increase your chances of severe injury or death in the event of a crash.

Always wear an approved motorcycle helmet that fits properly and wear eye protection (goggles or face shield), gloves, boots, longsleeved shirt or jacket and long pants.

Additional Riding Gear

In addition to a helmet and eye protection, we also recommend:

- Sturdy off-road motorcycle boots to help protect your feet, ankles, and lower legs.
- Off-road motorcycle gloves to help protect your hands.
- Riding pants with knee and hip pads, a riding jersey with padded elbows, and a chest/shoulder protector.

Rider Training

Developing your riding skills is an ongoing process. Even if you have ridden other ATVs, take time to become familiar with how this ATV works and handles. Practice riding the ATV in a safe area to build your skills. Do not ride in rough terrain until you get accustomed to the ATV's controls, and feel comfortable with its size and weight.

We urge all riders to take an ATV operator course approved by the ATV Safety Institute (ASI). For information about the ASI training course nearest you, call the national toll-free number: (800) 887-2887.

Other riding tips can be found in the *Tips & Practice Guide for the ATV Rider* booklet that came with your ATV.

Operating this ATV without proper instruction could increase your risk of a crash which could lead to serious injury or death.

Beginning and inexperienced operators should complete the certified training course offered by Honda. They should then regularly practice the skills learned in the course and the operating techniques described in the owner's manual.

Age Recommendation

The minimum recommended age for this ATV model is 16. For safety, never let children under 16 years old operate this vehicle.

A child using an ATV that is not recommended for their age could lose vehicle control while riding, resulting in severe injury or death.

A child under 16 should never operate an ATV with engine size greater than 90cc.

No Passengers

This ATV is designed as an operator-only vehicle. The long seat is designed to allow the rider to change body position, not for carrying a passenger. Never let a passenger ride on the seat or on the front or rear cargo racks.

Carrying a passenger on this ATV greatly reduces your ability to balance and control this ATV and could cause a crash and you or your passenger could be injured or killed.

Never carry a passenger on this ATV.

Are You Ready to Ride?

No Alcohol or Drugs

Alcohol, drugs and ATVs don't mix. Even a small amount of alcohol can impair your ability to operate an ATV safely. Likewise, drugs — even if prescribed by a physician — can be dangerous while operating an ATV. Consult your doctor to be sure it is safe to operate a vehicle after taking medication.

Operating this ATV after consuming alcohol or drugs can seriously affect your judgment, cause you to react more slowly, affect your balance and perception, and result in serious injury or death.

Never consume alcohol or drugs before or while operating this ATV.

Before each ride, it's important to inspect your ATV and make sure any problem you find is corrected. A pre-ride inspection is a must, not only for safety, but because having a breakdown, or even a flat tire, can be a major inconvenience.

If your ATV has overturned or been involved in a collision, do not ride the vehicle until it has been inspected by your dealer. There may be damage or other problems you cannot see.

Improperly maintaining this ATV or failing to correct a problem before riding can cause a crash in which you can be seriously hurt or killed.

Always perform a pre-ride inspection before every ride and correct any problems.

Pre-ride Inspection

Check the following items before you get on the ATV:

Engine Oil	Check the level and add oil if needed (page 131). Check for leaks.
Radiator Coolant	Check the coolant level and add coolant if needed (page 142). Check for leaks.

(cont'd)

Fuel	Check the level and add fuel (page 126) if needed. Also make sure the fuel fill cap is securely fastened. Check for leaks.	
Tires	Use a gauge to check the air pressure. Adjust if needed. Also look for signs of damage or excessive wear (page 173).	
Drivetrain Boots	Check for damage (pages 183, 184).	
Guards	Check for damage or looseness (pages 180, 181, 182).	
Nuts & Bolts	Check the wheels to see that the axle nuts are tightened. Use a wrench to make sure all accessible nuts, bolts, and fasteners are tight.	
Underbody & Exhaust System	Check for, and remove, any dirt, vegetation, or other debris that could be a fire hazard or interfere with the proper operation of the vehicle.	
Air Cleaner Housing Drain Tube	Check for deposits in the drain tube. If necessary, clean the tube (page 153) and check the air cleaner housing.	
Leaks, Loose Parts	Walk around your ATV and look for anything that appears unusual, such as a leak or loose cable.	

Cable	Check the cable housings for wear. Check the fittings for looseness. Replace or tighten as needed.	
Lights	Make sure the headlight, brake light and tail light are working properly.	
If you are carrying cargo, also check the following:		
Loading Limits	Make sure you do not exceed the load limits (page 62).	
Cargo	Check that all cargo is secure.	
Check these items after you get on the ATV:		
Throttle	Check the freeplay and adjust if needed. Press the throttle to make sure it moves smoothly without sticking, and snaps shut automatically when it is released, in all steering positions (page 154).	
Brakes	Squeeze the front brake lever and rear brake lever/parking brake lever and step on the rear brake pedal to check that the controls operate normally. Depress the rear brake pedal several times, then check for proper rear brake lever/parking brake lever freeplay (pages 170). Make sure there is no brake fluid leakage.	

(cont'd)

Headlight and Headlight Dimmer Switch	Check for proper function (page 37).
Engine Stop Switch	Check for proper function (page 36).
Steering	Check that the wheels turn properly as you steer the handlebar. Move the handlebar right and left and check that there is no excessive backlash.

Remember, be sure to take care of any problem you find, or have your dealer correct it before you ride.

Load Limits & Guidelines

Your Honda was designed as a rider-only ATV. It was not designed to carry a passenger. It can carry cargo on the cargo racks, however, carrying cargo anywhere else or carrying a passenger could interfere with your balance and control of the ATV.

In addition, exceeding the weight limits or carrying an unbalanced load can seriously affect your ATV's handling, braking and stability. Adding accessories or making modifications that change this ATV's design and performance can also make it unsafe. Also, the weight of any accessories will reduce the maximum load the ATV can carry.

More specific information on load limits, accessories, and modifications follows.

Loading

How much weight you put on your ATV, and how you load it, are important to your safety. If you decide to carry cargo, you should be aware of the following information.

Overloading, improper loading, or carrying a passenger can cause a crash and you can be seriously hurt or killed.

Follow all load limits and other loading guidelines in this manual.

Load Limits & Guidelines

Load Limits

Following are the load limits for your ATV:

There are limits to how much weight can be carried on your ATV and be pulled in a trailer.

The following load limits apply to standard equipment only. Modifying your ATV, using non-standard equipment, or riding on terrain that is not flat and smooth could further reduce these limits.

maximum weight capacity (includes the weight of the rider, all cargo, and accessories.)	485 lb (220 kg)	
front cargo rack weight limit	= 66 lb (30 kg)	
rear cargo rack weight limit	= 133 lb (60 kg)	
tow weight limit	= 850 lb (385 kg)	
(Combined weight of the trailer		
and all cargo in the trailer)		
tongue weight	= 30 lb (14 kg) recommended	
(Weight on the trailer tongue)	_	
tongue and rear cargo weight = 133 lb (60 kg) maximum		
(Combined weight on the		
trailer tongue and on the rear		
cargo rack)		

Tongue weight can be measured with an ordinary bathroom scale. Place the scale under the tongue, using either a tongue jack or other support to keep the trailer level.

The weight of added accessories will reduce the maximum cargo weight you can carry.

62 Before Riding

Loading Guidelines

Carrying cargo or pulling a trailer will affect how your ATV handles and greatly reduce its ability in accelerating, braking and making turns and other maneuvers.

Be sure to observe the weight limits and follow these guidelines:

- Check that the tires are properly inflated.
- Do not place cargo anywhere on the ATV other than on the front and rear racks. Otherwise, operating stability may be adversely affected.
- Never ride with a passenger on the front or rear cargo racks. The ATV is not designed to carry a passenger.
- Use the trailer hitch to tow another vehicle or trailer. Do not tow by tying a rope or cable to the rear rack.
- Load cargo on the rear rack as far forward as possible. Make sure cargo on the front rack does not interfere with handlebar movement.
- Do not allow cargo to extend beyond the edges of either the front or rear racks.
- Make sure all cargo is secured before riding.
- Balance cargo weight evenly on both sides.
- Never exceed the maximum weight limit.
- When towing a trailer, take care to maintain balance and stability. Distribute cargo between the front and rear of the trailer to obtain the recommended tongue weight.
- Allow extra room for starting, stopping and turning whenever you carry cargo or pull a trailer.
- Avoid riding on steep slopes when carrying cargo or pulling a trailer.
- Never cross a slope when towing a trailer.

Accessories & Modifications

Modifying your ATV or using non-Honda accessories can make your ATV unsafe.

Before you consider making any modifications or adding an accessory, be sure to read the following information.

Improper accessories or modifications can cause a crash in which you can be seriously hurt or killed.

Follow all instructions in this owner's manual regarding accessories and modifications.

Accessories

We strongly recommend that you use only Honda Accessories that have been specifically designed and tested for your ATV. Because Honda cannot test all other accessories, you must be personally responsible for proper selection, installation, and use of non-Honda accessories.

Check with your dealer for assistance and always follow these guidelines:

- Make sure the accessory does not obscure any lights, reduce ground clearance, limit suspension travel or steering travel, or interfere with operating any controls.
- Make sure the accessory does not interfere with your ability to shift body position on the seat or operate hand and foot controls.
- Do not add any electrical equipment that will exceed the vehicle's electrical system capacity (page 237). A blown fuse can cause a loss of lights or engine power (page 222).

64 Before Riding

Modifications

We strongly advise you not to remove any original equipment or modify your ATV in any way that would change its design or operation. Such changes could seriously impair your ATV's handling, stability, and braking, making it unsafe to ride.

We also advise you not to make any modifications or remove any equipment (such as the USDA qualified spark arrester or emission control system components) that would make your ATV illegal in your area.

Removing or modifying your lights, exhaust system, emission control system, or other equipment can also make your ATV illegal.

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Basic Operation & Riding

This section gives basic riding instructions, including how to start and stop your engine and how to use the throttle and brakes. It also provides important information on riding with cargo.

To protect your new engine and enjoy optimum performance and service life, refer to Break-in Guidelines (page 239).

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Basic Operation & Riding

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Safe Riding Precautions

Before riding your ATV for the first time, please review the *ATV Safety* section beginning on page 1, and the *Before Riding* section beginning on page 51.

Even if you have ridden other ATVs, take time to become familiar with how this ATV works and handles. Practice in a safe area until you build your skills and get accustomed to the ATV's size and weight.

Off-road Use Only

Your ATV and its tires are designed and manufactured for off-road use only, not for pavement. Riding on pavement can affect handling and control. You should not ride your ATV on pavement.

AWARNING

Operating this ATV on paved surfaces may seriously affect handling and control of the ATV, and may cause the vehicle to go out of control.

Never operate the ATV on any paved surfaces, including sidewalks, driveways, parking lots and streets.

When riding off-road, also remember to always obey local off-road riding laws and regulations. Obtain permission to ride on private property. Avoid posted areas and obey "no trespassing" signs.

Safe Riding Precautions

You should never ride your ATV on public streets, roads or highways, even if they are not paved. Drivers of street vehicles may have difficulty seeing and avoiding you, which could lead to a collision. In many states it is illegal to operate ATVs on public streets, roads and highways.

Operating this ATV on public streets, roads or highways could cause you to collide with another vehicle.

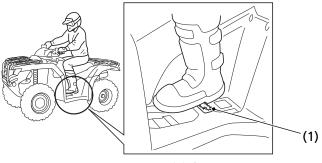
Never operate this ATV on any public street, road or highway, even a dirt or gravel one.

Keep Hands and Feet on Controls

Always keep both hands on the handlebars and both feet on the footpegs when riding your ATV. This is important to maintain your balance and to control the vehicle. Removing even one hand from the handlebars or one foot from the footpegs can reduce your ability to control the ATV or could cause you to lose your balance and fall off the ATV.

Removing hands from handlebars or feet from footpegs during operation can reduce your ability to control the ATV or could cause you to lose your balance and fall off of the ATV.

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



(1) footpeg

Control Speed

Riding at excessive speed increases the chance of a crash. In choosing a proper speed, you need to consider the capability of your vehicle, the terrain, visibility, and other operating conditions, plus your own skills and experience.

Operating this ATV at excessive speeds increases your chances of losing control of the ATV, which can result in a crash.

Always go at a speed that is proper for your vehicle, the terrain, visibility and other operating conditions, and your experience.

Safe Riding Precautions

Use Care on Unfamiliar or Rough Terrain

Before riding in a new area, always check the terrain thoroughly. Don't ride fast on unfamiliar terrain or when visibility is limited. (It's sometimes difficult to see obstructions like hidden rocks, bumps, or holes in time to react.)

Failure to use extra care when operating this ATV on unfamiliar terrain could result in the ATV overturning or going out of control.

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

Safe Riding Precautions

Never ride past the limit of visibility. Maintain a safe distance between your ATV and other off-road vehicles. Always exercise caution, and use extra care on rough, slippery, and loose terrain.

Failure to use extra care when operating on excessively rough, slippery or loose terrain could cause loss of traction or vehicle control, which could result in a crash, including an overturn.

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

Do Not Perform Stunts

You should always operate your ATV in a safe and reasonable manner. When riding, always keep all four wheels on the ground.

AWARNING

Attempting wheelies, jumps, and other stunts increases the chance of a crash, including an overturn.

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

Always follow the proper starting procedure described below.

For your safety, avoid starting or operating the engine in an enclosed area such as a garage. Your ATV's exhaust contains poisonous carbon monoxide gas which can collect rapidly in an enclosed area and cause illness or death.

Running the engine of your vehicle while in an enclosed or even partially enclosed area can cause a rapid build-up of toxic carbon monoxide gas.

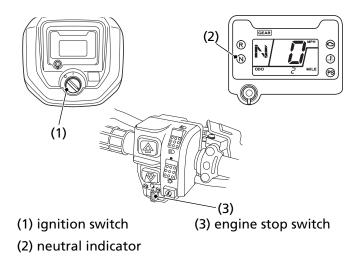
Breathing this colorless, odorless gas can quickly cause unconsciousness and lead to death.

Only run your vehicle's engine when it is located in a well ventilated area outdoors.

If you turn the ignition switch to the OFF (O) position while in reverse, the transmission will automatically return to neutral (N) when the ignition switch is turned to the ON (1) position.

The starter motor will operate when the transmission is in neutral or the front brake lever is pulled in.

Preparation



- 1. Before starting, make sure the vehicle is on a level surface and lock the parking brake (page 42).
- 2. Turn the ignition switch (1) to ON (1).

Confirm the following:

- The transmission is in neutral, and the neutral indicator (2) is ON.
- The engine stop switch (3) is set to RUN (Ω).

Starting Procedure

This ATV is fuel-injected with an automatic choke. Follow the procedure indicated below.

Any Air Temperature

• Press the start button with the throttle completely closed.

The engine will not start if the throttle is fully open (because the electronic control module cuts off the fuel supply).

Snapping the throttle or fast idling for more than 5 minutes may cause exhaust pipe and muffler discolorations.

Flooded Engine

If the engine fails to start after repeated attempts, it may be flooded with excess fuel. To clear a flooded engine:

- 1. Leave the engine stop switch set to RUN(Q).
- 2. Open the throttle fully.
- 3. Press the start button for 5 seconds.
- 4. Follow the normal starting procedure.
- 5. If the engine starts, then open the throttle slightly if idling is unstable.

If the engine does not start, wait 10 seconds, then follow steps 1 - 4 again.

If the engine still won't start, refer to *If Your Engine Quits or Won't Start*, page 208.

Bank Angle Sensor Ignition Cut-off System

Your vehicle's banking (lean angle) sensor system is designed to automatically stop the engine if the vehicle is overturned.

Before restarting the engine, you must turn the ignition switch to the OFF (O) position and then back to ON (1). The engine will not restart until you perform this procedure.

Stalled Engine

You can restart the engine while the vehicle is stopped by squeezing the front brake lever and pressing the start button.

Do not press the throttle lever while starting in gear. The engine will not start if the throttle is fully open (because the electronic control module cuts off the fuel supply).

Once you have started the engine, release the front brake lever, then apply throttle gradually.

How to Stop the Engine

Normal Engine Stop

To stop the engine, make sure the transmission is in neutral by checking that the neutral indicator light is on, then turn the ignition switch to OFF (O).

The engine stop switch should normally remain in the RUN (Ω) position even when the engine is OFF.

If your ATV is stopped with the engine stop switch OFF (\bigotimes) and the ignition switch ON (1), the battery will discharge.

Emergency Engine Stop

To stop the engine in an emergency, use the engine stop switch. To operate, slide the switch to either OFF (\bigotimes) position.

Shifting Gears

Your ATV has two shift modes: AUTO (automatic shift mode) and ESP (manual shift mode).

You can select the desired shift mode with the drive mode select switch.

AUTO (automatic shift mode):

Use this mode for everyday riding. The transmission automatically shifts to keep the engine at the best speed for the riding condition. The gear position indicator will show "D" for forward gears, "N" for neutral, and "R" for reverse. Select gear position with the gear shift switches.

In AUTO (automatic shift mode), you can temporarily shift up or down by using the shift switches.

ESP (manual shift mode):

In this mode, you can shift gears much like a manual transmission, but without operating a clutch. You can select five forward gears, neutral, and reverse by operating the gear shift switches.

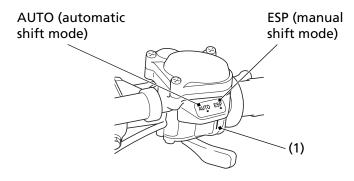
The gear position indicator will show "1, 2, 3, 4, or 5" for forward gears, "N" for neutral, and "R" for reverse.

When you tow a trailer, select the 1st shift position for proper performance.

Drive mode select (AUTO/ESP)

The drive mode select switch (1) is located on the right handlebar. To select the drive mode, release the throttle, then slide the drive mode select switch to the desired position. With the throttle fully closed, the drive mode can be changed while riding.

RIGHT HANDLEBAR



(1) drive mode select switch

Gear Position selection AUTO (D/N/R), Manual (1-5/N/R)

Two gearshift switches are located next to the left handlebar grip:Upshift (Δ) and downshift (∇).

To shift between a forward gear (D or 1), neutral (N), or reverse (R), bring the ATV to complete stop and press a shift switch to select gear position.

Select neutral (N) when you start the engine, or if it is necessary to stop briefly with the engine idling.

The gear position indicator shows "N".

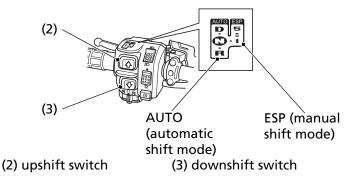
Shifting Gears

To select a forward gear (D or 1) from neutral (N), press the upshift switch (2) once.

- In AUTO (automatic shift mode) the gear position indicator shows "D"
- In ESP (manual shift mode) the gear position indicator shows "1"

To select reverse (R) from neutral (N), use the reverse switch and press the downshift switch (3) once. See *Riding in Reverse* (page 86).

LEFT HANDLEBAR



Driving in AUTO (automatic shift mode):

After starting the engine and letting it warm up, follow these procedures:

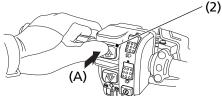
- 1. With the transmission in neutral, release the parking brake (page 43), but continue to squeeze the rear brake lever/parking brake lever.
- 2. With the throttle closed, select the AUTO (automatic shift mode), and then press the upshift switch once to shift into drive (D).
- 3. The gear position indicator shows "D".
- 4. Release the rear brake lever/parking brake lever and increase engine speed by gradually opening the throttle.

Driving in ESP (manual shift mode):

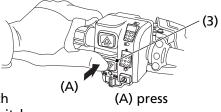
After starting the engine and letting it warm up, follow these procedures:

- 1. With the transmission in neutral, release the parking brake (page 43), but continue to squeeze the rear brake lever/parking brake lever.
- 2. With the throttle closed, select the ESP (manual shift mode), and then press the upshift switch (Δ) (2) once to shift into 1st gear.
- 3. The gear position indicator shows "1".
- 4. Release the rear brake lever/parking brake lever and increase engine speed by gradually opening the throttle.
- 5. When speed increases, release the throttle and upshift to 2nd gear by pressing the upshift switch once.
- 6. Repeat this sequence to progressively upshift to 3rd, 4th and 5th (top) gear.
- 7. To downshift, press the downshift switch (♥) (3) once. Remember to close the throttle each time you shift to the next lower gear.

UPSHIFTING SEQUENCE



DOWNSHIFTING SEQUENCE



(2) upshift switch

(3) downshift switch

Shifting Gears

You can temporarily shift up or down in AUTO (automatic shift mode) by using the shift switches.

The transmission cannot be upshifted from neutral to 1st gear or D-mode when the engine speed is above 2,200 rpm or the ground speed is above 3 mph (5 km/h).

The transmission cannot be downshifted from 1st gear or D-mode to neutral when the ground speed is above 3 mph (5 km/h) or engine speed is above 2,200 rpm.

In ESP (manual shift mode), if the ground speed decreases under a set speed (see table) the transmission will automatically downshift to the next lower gear.

Gear	Down Sh	ift Speed
Gear	mph	km/h
5th	9	15
4th	6	10
3rd	5	8
2nd	2	3

If the ATV is at a complete stop, 2nd gear, 3rd gear, 4th gear or 5th gear cannot be selected.

If the electric shift system malfunctions, the transmission cannot be shifted by pressing the gearshift switches. See your dealer. (In an emergency, a gear may be selected manually so you may move the vehicle. See *Emergency Gear Selection & Operation* page 214).

Shifting Gears

Learning when to shift gears comes with experience. Keep the following tips in mind:

- As a general rule, shift while moving in a straight line.
- Close the throttle completely before shifting. Improper shifting may damage the engine, transmission, and drivetrain.
- Upshift to a higher gear or reduce throttle before engine rpm (speed) gets too high. Learn the relationship between engine sound and the normal shifting points.
- Downshift to a lower gear before you feel the engine laboring (lugging) at low rpm.
- Avoid downshifting to help slow your ATV when engine rpm is high. Downshifting when engine speed is near its allowable maximum may over-rev the engine and possibly cause damage.
- To prevent transmission damage, do not coast or tow the ATV for long distances with the engine off.

Recommended Shift Points

Ride in the highest gear that lets the engine run and accelerate smoothly. This will give you good fuel economy and effective emissions control.

Riding in Reverse

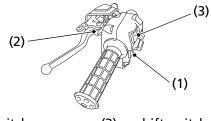
If you need to ride in reverse, make sure the area behind you is clear and only operate the ATV at low speed.

Improperly operating in reverse could cause you to hit an obstacle or person behind you, resulting in serious injury.

Make sure there are no obstacles or people behind you before selecting reverse gear. When it is safe to proceed, go slowly.

- 1. Bring the vehicle to a complete stop and hold the brakes.
- 2. Be sure there are no obstacles or people in the way.
- 3. Press and hold the reverse switch (2), then press the downshift switch (♥) (1) within 10 seconds to shift into "R" reverse gear. You can also shift into "R" reverse gear by pressing and holding the downshift switch (♥) (1), then pressing the reverse switch (2) within 0.5 seconds.

LEFT HANDLEBAR



(1) downshift switch

(3) upshift switch

(2) reverse switch

4. Make sure that the reverse indicator comes on and the gear position indicator shows "R".

NOTICE

Your ATV may be equipped with a reverse speed limiter, which helps the vehicle to maintain a safe speed while riding in reverse gear.

- 5. Release the rear brake lever/parking brake lever.
- 6. Open the throttle gradually and ride slowly. Do not open the throttle suddenly or make abrupt turns.
- 7. To stop, close the throttle and gradually apply both the front and rear brakes. Do not abruptly apply the rear brake alone.
- 8. Shift out of reverse and into "N" (neutral) or "D or 1" (forward gear)
 - To shift into "N" (neutral), press the upshift switch (会) (3) once.
 - To shift into "D or 1" (forward gear), press and hold the reverse switch (2), then press the upshift switch (公) (3) within 10 seconds.

You can also shift into "D or 1" (forward gear) by pressing and holding the upshift switch (\triangle) (3), then pressing the reverse switch (2) within 0.5 seconds.

Riding in Reverse

The reverse switch will not operate if you operate continuously with the reverse switch pressed.

Release the reverse switch once.

The transmission cannot be shifted from neutral back into reverse when the engine speed is above 2,200 rpm or speed of your ATV is above 3 mph (5 km/h).

The transmission cannot be shifted from reverse up to neutral when the engine speed is above 2,200 rpm or if the speed of your ATV is above 3 mph (5 km/h).

If you turn the ignition switch to the OFF (O) position while in reverse, the transmission will automatically return to neutral (N) when the ignition switch is turned to the ON (1) position.

Applying only the rear brake abruptly when operating in reverse gear could cause the front wheels to lift off the ground and the ATV could overturn backwards.

Carefully apply both the front and rear brakes when stopping in reverse gear.

Your ATV is equipped with disc brakes on both front wheels, which are hydraulically activated by operating the right brake lever. The single disc brake of the rear drivetrain is hydraulically activated by pressing down on the brake pedal and mechanically activated by operating the rear brake lever/parking brake lever.

Although the front and rear brakes have separate controls, all four wheels are interconnected when your ATV is in the 4WD mode. So operating any brake control in the 4WD mode will cause braking at both the front and rear wheels.

As a general rule, the front braking system provides about 70 percent of total stopping power.

For full braking effectiveness, use both the pedal and lever simultaneously. Using both braking systems will stop your ATV faster with greater stability.

To slow or stop, apply the brake lever and brake pedal smoothly, while downshifting to match your speed when your ATV is in the ESP (manual shift mode).

Gradually increase braking as you feel the brakes slowing your speed. The increase in engine compression from downshifting will help slow your ATV when your ATV is in the ESP (manual shift mode).

Applying the brakes too hard may cause the wheels to lock and slide, reducing control of your ATV. If this happens, release the brake controls, steer straight ahead until you regain control, then reapply the brakes more gently.

Braking

When possible, reduce your speed or complete braking before entering a turn. Avoid braking or closing the throttle quickly while turning. Either action may cause one or more wheels to slip and reduce your control of your ATV.

Your ability to brake in a turn and to brake hard in an emergency situation are important riding skills.

When descending a long, steep grade, use engine compression braking by downshifting (in the ESP mode), with intermittent use of both brakes. Continuous brake application can overheat the brakes and reduce their effectiveness.

Riding with your foot resting on the brake pedal or your hands on the brake levers may overheat the brakes, reducing effectiveness.

For information on how to apply the brakes in various riding situations, see the following section, *Riding Your ATV*.

Making Turns

Learn how to turn your ATV properly. Practice the techniques outlined in this section on level ground and at low speeds until you are confident in making turns.

Turning improperly can make the ATV go out of control, causing a collision or overturn.

- Always follow proper procedures for turning as described in this owner's manual.
- Practice turning at low speeds before attempting to turn at faster speeds.
- Do not turn at excessive speeds.

Riding Your ATV



Lean your body to the inside of a turn and forward.

To make a turn on level ground: Steer the handlebar and lean your body toward the inside of the turn. Leaning helps balance the vehicle, and it feels more comfortable. Leaning into a turn is an important technique to master in riding an ATV.

To make a sharp turn at low speed: It helps to shift your body slightly forward on the seat, and lean inside, as you steer the handlebar. Shifting weight forward allows the rear wheels to turn easier, and it also improves front-wheel steering.

<u>To make a turn from a full stop:</u> Apply the throttle gradually when you turn and start at the same time. Remember to shift your body forward to make sharp low-speed turns and whenever you turn while accelerating from a full stop.

Skidding or Sliding

The terrain surface can be a major factor affecting turns. Skidding during a turn is more likely to occur on slippery surfaces, such as snow, ice, mud, and loose gravel. If you skid on ice, you may lose all directional control. To avoid skidding on slippery terrain, keep your speed low and ride with caution.

Skidding or sliding improperly may cause you to lose control of this ATV. You may also regain traction unexpectedly, which may cause the ATV to overturn.

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

If your ATV skids sideways during a turn, steer in the direction of the skid. Avoid hard braking or accelerating until you have regained directional control.

Riding Up Hills

The ATV's ability to safely climb hills largely depends on the rider's skill and judgment. Begin by practicing on smooth, gentle slopes. As you gain experience, you'll learn the hazards and your own limitations. You may then proceed to ride on more difficult terrain. However, you must be able to decide which hills or hazards might cause the ATV to overturn. Avoid excessively steep hills.

Operating on excessively steep hills can cause the vehicle to overturn more easily than operating on level surfaces or small hills.

Never operate the ATV on hills too steep for the ATV or for your abilities.

When climbing hills, you must shift weight toward the front wheels to help keep them on the ground. To do this, shift your body slightly forward on the seat and lean forward. For greater weight shift, move your body farther forward and lean forward.

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

Always follow proper procedures for climbing hills as described in this owner's manual.

Riding Your ATV



Shift weight forward when climbing hills.

- Always check the terrain carefully before you start up any hill.
- Never climb hills with excessively slippery or loose surfaces.
- To climb a hill, take a running start in an appropriate gear and speed for the conditions. Maintain a steady speed as you ascend the hill.
- Never open the throttle suddenly or make sudden gear changes. The ATV could flip over backward.
- Never go over the top of any hill at high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.

Riding Your ATV

Stalling the ATV and/or Rolling Backwards:

If you incorrectly estimate climbing capability or terrain conditions, the ATV may not have enough power or traction to continue uphill. If this happens, the ATV can stall and/or roll backwards.

Stalling, rolling backwards or improperly dismounting while climbing a hill could result in the ATV overturning.

Always follow proper procedures for climbing a hill as described in this owner's manual.

What to do if the ATV stalls or rolls backwards when climbing a hill: If you are about to lose all forward speed:

- 1. Using the front and rear brakes together, bring the ATV to a stop with the vehicle pointed straight uphill.
- 2. Get off the ATV while you continue holding the brakes.
- 3. Shift into neutral, set the parking brake and turn the engine off. 4. Then, assess the situation.

If the ATV starts rolling backwards before you begin braking:

- 1. Keep your weight uphill.
- 2. Carefully apply the front brakes first, then carefully apply the rear brake. Do not apply either brake abruptly if you are rolling backwards, or the vehicle may overturn.

If the ATV continues sliding backwards:

After you've applied the brakes, get off and away from the vehicle.

Remember that operating any brake control in the 4WD mode will cause braking at both the front and rear wheels.

What to do after the ATV has stalled or rolled backwards: If the hill is too steep or too slippery, or if you have any doubt whether you can safely walk the ATV back down the hill, leave the vehicle where it is and get help. If possible, block the wheels so the vehicle doesn't roll backwards.

If the hill is not too steep and you have good footing, you may be able to walk the ATV back down the hill. Make sure your intended path is clear in case you lose control of the ATV.



Be sure your legs are clear of the wheels.

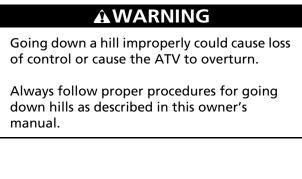
Body position for backing down a hill.

- 1. Stand with your body facing downhill, beside the vehicle so you can reach the rear brake lever/parking brake lever with your right hand.
- 2. Be sure your legs are clear of the wheels. Check your footing.
- 3. Slowly and carefully back the ATV down the hill using the rear brake lever/parking brake lever to control speed.
- 4. If you lose control of the ATV, for your safety, get away from the vehicle.

Riding Your ATV

Riding Down Hills

It's usually advisable to descend hills with the ATV pointed straight downhill. Avoid angles that would cause the vehicle to lean sharply to one side.





On downhills, shift your weight back.

As you approach a downhill, stop and survey the terrain below. Never ride past the limit of your visibility. Never go down a hill at high speed.

Riding Your ATV

When you've selected a safe downhill path, shift into a lower gear, shift your weight back with your arms extended and braced against the handlebar, then go down slowly with the throttle closed.

Use mainly the rear brake to control speed. Avoid using either the front brake or rear brake hard or abruptly when riding down hills.

Remember that operating any brake control in the 4WD mode will cause braking at both the front and rear wheels.

Remember, braking effectiveness is reduced on any hill with a loose surface.

Crossing or Turning on Hills or Slopes

Riding on hills or slopes is different from riding on level terrain. Be careful when riding on any hill. Make sure that you practice on gentle, smooth slopes before attempting to ride on steeper or more difficult terrain.

Improperly crossing hills or turning on hills could cause loss of control or cause the ATV to overturn.

Always follow proper procedures for crossing or turning on slopes as described in this owner's manual. Avoid crossing steep hills if possible.

Riding Your ATV

Crossing Hills or Slopes

- To maintain balance and stability when riding across a slope, you need to shift weight toward the uphill side of the vehicle. To do this, move your body off the center of the seat and lean toward the uphill side.
- On a slippery or loose surface, you may also need to steer slightly uphill to maintain a straight course across the slope.
- Avoid crossing hills that are excessively steep, slippery, or rough.



Shift weight uphill when crossing slopes.

Making Turns on Slopes

- Compared to riding on level ground, you may need to shift more weight and lean more when making turns on slopes.
- Do not make turns on any slopes until you have first mastered the techniques for making turns on level terrain.

Riding Over Obstacles

Before operating in a new area, check for obstacles. Watch out for bumps, rain ruts, potholes, and other obstacles in the terrain. When you approach any obstacle, reduce your speed and be prepared to stop.

Never try to ride over large obstacles, such as large rocks or fallen logs.

Improperly operating over obstacles could cause loss of control or a collision and could cause the ATV to overturn.

When you go over obstacles, always follow proper procedures as described in this owner's manual.

Riding Through Water

Your ATV is designed to travel through water up to approximately 10 inches (254 mm) deep. Before crossing a stream, make sure the water is not too deep or flowing too fast.

The ATV tires have some ability to float. Operating this ATV through deep or fastflowing water may cause a loss of traction and loss of control, which could lead to a crash.

Never operate this ATV in fast-flowing water or in water deeper than that specified in this owner's manual.

NOTICE

Water entering the muffler may damage the oxygen sensor and result in emissions control system malfunction. Have your ATV dealer inspect the oxygen sensor immediately after water enters the muffler.

- 1. Choose a path where both banks have gradual slopes.
- 2. Proceed through the water at a slow, steady speed.
- 3. Watch out for submerged obstacles and slippery rocks.
- 4. Avoid getting the spark plug or air cleaner wet, as this would cause the engine to stop.
- 5. After leaving the water, always test both the front and rear brakes.

102 Basic Operation & Riding

- Riding through water can make the brakes less effective than normal, and may reduce stopping ability.
- If necessary, apply the brakes repeatedly until they dry out and operate normally.

Parking

- 1. Look for level parking area. Make sure the ground surface is firm.
- 2. After bringing your ATV to a stop, hold the brakes while you shift into neutral.
- 3. Set the parking brake. (page 42)
- 4. Turn the ignition switch to OFF (O).

If it is necessary to start the engine when your ATV in gear and is stopped on a grade, rock the vehicle back and forth to allow shifting the transmission into neutral.

The brake light is activated by applying the parking brake. When using the parking brake, be sure to turn the ignition switch to OFF (O) to avoid discharging the battery.

Parking on a Steep Incline or a Loose or Slippery Surface

If you must park your ATV on a steep incline or loose or slippery surface, use the following procedure:

- 1. While holding the brakes, set the parking brake.
- 2. Turn the ignition switch to OFF (O) and release the brakes.
- 3. If the ATV begins to move, either while sitting on it or after you dismount, find a better parking location.
- 4. If rocks or other objects are available, you can block the wheels as shown for additional security.



Servicing Your Honda

To help keep your ATV in good shape, this section includes a Maintenance Schedule for required service and step-by-step instructions for specific maintenance tasks. You'll also find important safety precautions, information on fuels and oils, and tips for keeping your Honda looking good.

For information about replacing fuses, see page 222.

For information about the exhaust emission and noise requirements of the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB), see page 240.

Maintenance, replacement or repair of the emission control devices and systems may be performed by any ATV repair establishment or individual using parts that are "certified" to EPA standards.

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Servicing Your Honda

Service Procedures

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The Importance of Maintenance

A well-maintained ATV is essential for safe, economical, and troublefree riding. It will also help reduce air pollution. Careful pre-ride inspections and good maintenance are especially important because your ATV is designed to be ridden over rough off-road terrain.

To help you properly care for your ATV, this section of the manual provides a Maintenance Schedule. The service intervals in this schedule are based on average riding conditions.

Improperly maintaining this ATV or failing to correct a problem before you ride can cause a crash in which you can be seriously hurt or killed.

Always follow the inspection and maintenance recommendations and schedules in this owner's manual.

Frequent servicing of the air cleaner is especially important to help you avoid a possible costly engine repair.

If your ATV overturns or is involved in a crash, be sure your dealer inspects all major parts, even if you are able to make some repairs.

Maintenance Safety

This section includes instructions on how to perform some important maintenance tasks. If you have basic mechanical skills, you can perform many of these tasks with the tools provided with your ATV.

Other tasks that are more difficult and require special tools are best performed by professionals. Removing the wheels should normally be handled only by a Honda technician or other qualified mechanic. Instructions are included in this manual only to assist in emergency service.

Some of the most important safety precautions follow. However, we cannot warn you of every conceivable hazard that can arise in performing maintenance. Only you can decide whether or not you should perform a given task.

Failure to properly follow maintenance instructions and precautions can cause you to be seriously hurt or killed.

Always follow the procedures and precautions in this owner's manual.

Important Safety Precautions

Make sure the engine is off before you begin any maintenance or repairs. This will help eliminate several potential hazards:
 Carbon monoxide poisoning from engine exhaust. Be sure there is adequate ventilation whenever you operate the engine.
 Fire hazards due to debris accumulation. Built-up debris could catch fire and cause burns and other fire related injuries. Clean the vehicle immediately after each use to remove any debris from near the engine, exhaust system, and other potentially hot areas. Be careful not to make direct contact with hot surfaces or components while clearing debris. Wear protective gloves/clothing and use appropriate tools to clear debris.

Injury from moving parts. Do not run the engine unless instructed to do so.

- Read the instructions before you begin, and make sure you have the tools and skills required.
- To reduce the possibility of a fire or explosion, be careful when working around gasoline. Use only non-flammable solvent, not gasoline, to clean parts. Keep cigarettes, sparks, and flames away from all fuel-related parts.

Remember that your Honda dealer knows your ATV best and is fully equipped to maintain and repair it. To ensure the best quality and reliability, use only new Honda Genuine Parts or other equivalents for repair and replacement. If you have the tools and skills required for additional maintenance jobs, you can purchase an official Honda Service Manual (page 248).

The required Maintenance Schedule that follows specifies how often you should have your ATV serviced and what things need attention. It is essential to have your ATV serviced as scheduled to maintain safe, dependable performance and proper emission control.

The service intervals in this Maintenance Schedule are based on average riding conditions. Some items will need more frequent service if you ride in unusually wet or dusty areas or at full throttle. Consult your dealer for recommendations applicable to your individual needs and use.

Some items in the Maintenance Schedule can be performed with basic mechanical skills and hand tools. Procedures for these items are provided in this manual. Other items involve more extensive procedures and may require special training, tools, and equipment. We recommend that you have your dealer perform these tasks unless you have advanced mechanical skills and the required tools and equipment. Procedures for such items in this schedule are provided in an official Honda Service Manual available for purchase (page 248).

If you do not feel capable of performing a given task or need assistance, remember that your Honda dealer knows your ATV best and is fully equipped to maintain and repair it. If you decide to do your own maintenance, use only Honda Genuine Parts or their equivalents for repair or replacement to ensure the best quality and reliability.

Perform the pre-ride inspection (page 57) and owner maintenance on this section at each scheduled maintenance period.

Each item on the maintenance schedule requires some mechanical knowledge. Certain items (particularly those marked * and **) may require more technical information and tools. Consult your dealer.

- Should be serviced by your dealer, unless the owner has proper tools and service data and is mechanically qualified. Refer to the official Honda Service Manual (page 248).
- ****** In the interest of safety, we recommend these items be serviced only by your dealer.

Summary of Maintenance Schedule Notes & Procedures:

NOTES:

- 1. Service more frequently when riding in dusty areas, sand or snow.
- 2. Service more frequently after riding in very wet or muddy conditions.
- 3. Replace every 2 years. Replacement requires mechanical skill.
- 4. California type only

Maintenance Procedures:

I: inspect and clean, adjust, lubricate, or replace, if necessary

- C: clean
- A: adjust
- L: lubricate
- R: replace

	FREQUENCY			INITIAL	REGU	JLAR	
		COMES FIRST		MAINT.	MAINT. I	NTERVAL	
			mi	100	600	1200	Refer to
		⇒	km	150	1000	2000	page
			MONTH	1	6	12	
ITEN	15	NOTE	HOURS	20	100	200	
*	FUEL LINE					-	—
*	THROTTLE OPERATION					I	154
	AIR CLEANER	NOTE 1			С	С	148
	AIR CLEANER HOUSING DRAIN TUBE	NOTE 2			I	I	153
	SPARK PLUG				I	1	156
*	VALVE CLEARANCE			I	I	1	159
	ENGINE OIL			INITIAL=			128
				100 mi (operatin	150 km),		
				month: F		51 1	
	ENGINE OIL FILTER			REGULA	-		133
					0 mi (1,0		
				100 oper months:		urs or 12	
*	ENGINE IDLE SPEED					I	_
*	EVAPORATIVE EMISSION	NOTE 4			1	1	_
	CONTROL SYSTEM (For AC			I: EVERY	2 YEARS	i	
	type)						
	RADIATOR COOLANT	NOTE 3			-		141
*	COOLING SYSTEM	NOTE 2			-	-	—

Should be serviced by your dealer, unless the owner has proper tools and service data and is
mechanically qualified. Refer to the official Honda Service Manual (page 248).

	FREQUENCY			INITIAL	REGU	JLAR	
		COME	S FIRST	MAINT.	MAINT. I	NTERVAL	
			mi	100	600	1200	Refer to
		⇒	km	150	1000	2000	page
			MONTH	1	6	12	
ITEN	ns	NOTE	HOURS	20	100	200	
	DRIVETRAIN BOOTS				Ι	Ι	183
	FRONT/ REAR FINAL GEAR				(R: EVERY	I	136,
L					2 YEARS)	-	139
*	2WD/4WD SELECT SYSTEM						-
*	BRAKE FLUID	NOTE 3			I	1	164
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*	SUSPENSION				I	I	161
*	SPARK ARRESTER				C	С	160
*	NUTS, BOLTS, FASTENERS			I		I	—
**	WHEELS/TIRES			I	I	I	173
**	TIE-ROD AND JOINT			I	I	I	—
	BOOTS						
**	STEERING SHAFT HOLDER					I	—
**	BEARINGS STEERING SYSTEM					I	_

 Should be serviced by your dealer, unless the owner has proper tools and service data and is mechanically qualified. Refer to the official Honda Service Manual (page 248).

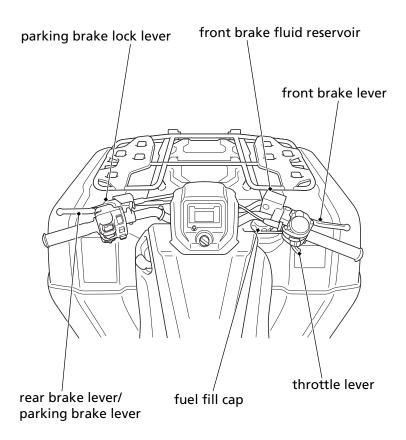
** In the interest of safety, we recommend these items be serviced only by your dealer.

Maintenance Record

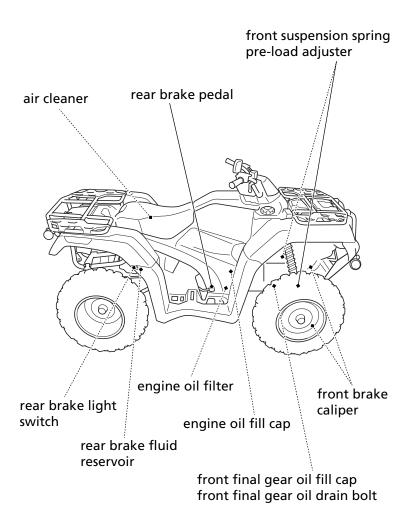
Keeping an accurate maintenance record will help ensure that your ATV is properly maintained. Retain detailed receipts to verify the maintenance was performed. If the ATV is sold, these receipts should be transferred with the ATV to the new owner. Make sure whoever performs the maintenance completes this record. All scheduled maintenance, including the 100 mile (150 km) or 1 month or 20 hours initial maintenance, is considered a normal owner operating cost and will be charged for by your dealer. Use the space under Notes to record anything you want to remind yourself about or mention to your dealer.

Miles (km) or	ODO or	Date	Performed	Notes
months or hours	HOUR		By:	
100 (150) or				
1 or 20				
600 (1,000) or				
6 or 100				
1,200 (2,000) or				
12 or 200				
1,800 (3,000) or				
18 or 300				
2,400 (4,000) or				
24 or 400				
3,000 (5,000) or				
30 or 500				
3,600 (6,000) or				
36 or 600				
4,200 (7,000) or				
42 or 700				
4,800 (8,000) or				
48 or 800				

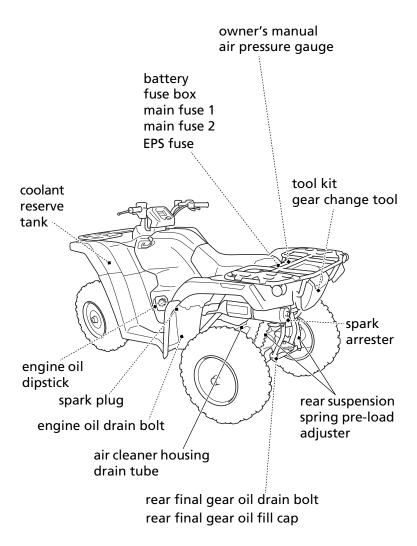
Maintenance Component Locations



Maintenance Component Locations



Maintenance Component Locations



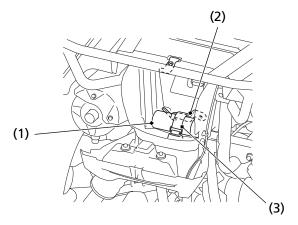
Tool Kit

The tool kit (1) and the gear change tool (2) are stored in the storage compartment (page 48).

After using the tool kit or the gear change tool, be sure to use the rubber band (3) to fasten the tool kit and the gear change tool securely.

An optional, larger tool kit may be available. Check with your dealer's parts department.

REAR



(1) tool kit(2) gear change tool

(3) rubber band

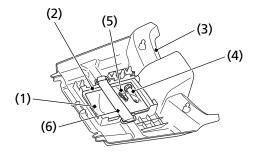
Owner's Manual Storage

Your ATV provides storage for the owner's manual so you'll have it with you for easy reference. Store your owner's manual (1) in the plastic document bag (2) under the rear fender cover (3).

The owner's manual, air pressure gauge (4), and fuse puller (5) should be stored in the plastic document bag and fastened with the rubber band (6).

To remove the rear fender cover, see page 123.

Be careful not to flood this area when washing your ATV. UNDER REAR FENDER COVER

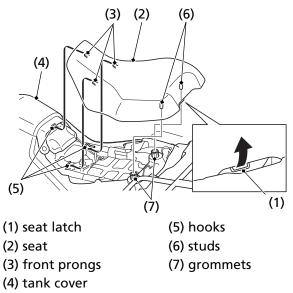


- (1) owner's manual
- (2) plastic document bag
- (3) rear fender cover
- (4) air pressure gauge
- (5) fuse puller
- (6) rubber band

Seat Removal

Refer to Safety Precautions on page 109.

The seat must be removed for the air cleaner, engine oil, engine oil filter, spark plug, battery, and fuse maintenance, and to remove the rear fender cover and tank cover assembly, to access the owner's manual, and air pressure gauge.



Removal

- 1. Pull the seat latch (1) at the rear of the seat.
- 2. Slide the seat (2) back and lift it.

Installation

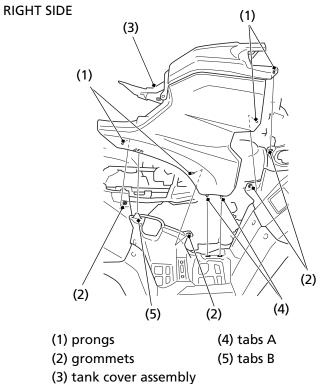
- 1. Insert the front prongs (3) into the backside of the tank cover (4) and hooks (5) on the frame, and press the studs (6) into the grommets (7).
- 2. Press down on the seat until locks.

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Tank Cover Assembly Removal

Refer to Safety Precautions on page 109.

The tank cover assembly must be removed for the engine oil, engine oil filter, and spark plug maintenance.

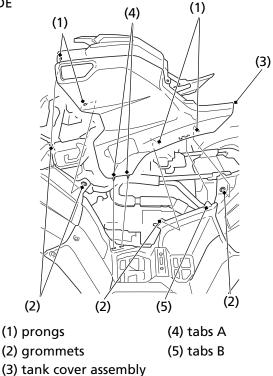


Removal

- 1. Remove the seat (page 120).
- 2. Remove the prongs (1) from the grommets (2).
- 3. Remove the tank cover assembly (3) by releasing the tabs A (4) and tabs B (5).

Tank Cover Assembly Removal





Installation

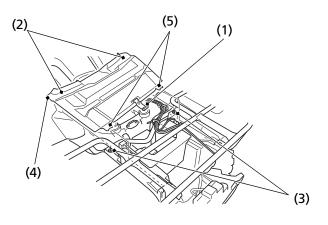
Install the parts in the reverse order of removal.

Make sure that all prongs and tabs are installed securely in position.

Rear Fender Cover Removal

Refer to Safety Precautions on page 109.

The rear fender cover must be removed for battery, fuse maintenance and to access the owner's manual, and air pressure gauge.



- (1) rubber strap
- (2) prongs

(4) rear fender cover(5) tabs

Removal

1. Remove the seat (page 120).

(3) grommets

- 2. Unhook the rubber strap (1).
- 3. Firmly pull the prongs (2) from their grommets (3).
- 4. Slide the rear fender cover (4) forward to disengage the tabs (5).
- 5. Remove the rear fender cover.

Installation

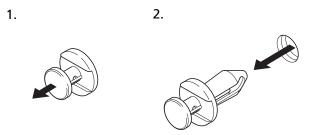
Install the parts in the reverse order of removal.

Clip Removal

Removal

1. Pull up the center pin to release the lock.

2. Pull out the clip of the hole.



Installation

- 1. Insert the clip into the hole.
- 2. Press down the center pin securely to lock the clip.

1.

2.





Refer to Safety Precautions on page 109.

Fuel Recommendation

type	unleaded
pump octane number	86 (or higher)

Use only unleaded fuel in your Honda. If you ride your Honda in a country where leaded fuel might be available, take precautions to use only unleaded fuel.

Your engine is designed to use any unleaded gasoline that has a pump octane number of 86 or higher. Gasoline pumps at service stations normally display the pump octane number. For information on the use of oxygenated fuels, see page 244.

Use of lower octane gasoline can cause persistent "pinging" or "spark knock" (a loud rapping noise) which, if severe, can lead to engine damage. Light pinging experienced while operating under a heavy load, such as climbing a hill, is no cause for concern.

If pinging or spark knock occurs at a steady engine speed under normal load, change brands of gasoline. If pinging or spark knock persists, consult your dealer.

Never use stale or contaminated gasoline or an oil/gasoline mixture. Avoid getting dirt, dust, or water in the fuel tank.

Fuel

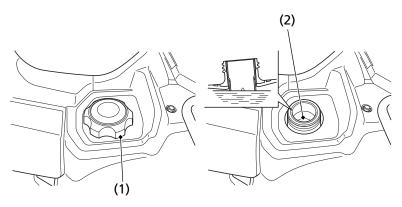
Fuel Capacity

Fuel tank capacity, including reserve: 3.88 US gal (14.7 ℓ) Reserve capacity: 1.29 US gal (4.9 ℓ)

When there is only one segment left in the fuel gauge (page 25), fuel will be low and you should refuel as soon as possible.

Refueling Procedure

Refer to Safety Precautions on page 109.



- (1) fuel fill cap
- (2) bottom of filler neck

- 1. To open the fuel fill cap (1), turn it counterclockwise.
- 2. Add fuel until the level reaches the bottom of the filler neck (2). Avoid overfilling the tank. There should be no fuel in the filler neck.

Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel.

- Stop the engine and keep heat, sparks and flames away.
- Only handle fuel outdoors.
- Wipe up spills immediately.
- 3. (Except California type)

After refueling, turn the fuel fill cap clockwise securely. (California type)

After refueling, turn the fuel fill cap clockwise until it clicks.

If you replace the fuel fill cap, use a Honda Genuine replacement part or equivalent.

NOTICE

Gasoline can damage the camouflage coating. Do not allow spilled gasoline to pool on camouflage colored bodywork. Also do not allow gasoline soaked rags to be placed on camouflage bodywork.

Engine Oil & Filter

Engine oil quality is a major factor that affects both the performance and the service life of the engine.

Using the proper oil (page 129) and filter and regularly checking, adding, and changing oil will help extend your engine's life. Even the best oil wears out. Changing oil helps get rid of dirt and deposits in the engine. Operating the engine with old or dirty oil can damage your engine. Running the engine with insufficient oil can cause serious damage to the engine and transmission.

Change the engine oil as specified in the maintenance schedule on page 112. When running in very dusty conditions, oil changes should be performed more frequently than specified in the maintenance schedule.

Oil Recommendation

API classification	SJ or higher except oils labeled as energy conserving or resource conserving on the circular API service label
viscosity (weight)	SAE 10W-30
JASO T 903 standard	MA
suggested oil*	Pro Honda GN4 4-stroke oil, or Honda 4-stroke oil, or an equivalent motorcycle oil.

- * Suggested oils are equal in performance to SJ oils that are not labeled as energy conserving or resource conserving on the circular API service label.
- Your ATV does not need oil additives. Use the recommended oil.
- Do not use oils with graphite or molybdenum additives. They may adversely affect clutch operation.
- Do not use API SJ or higher oils displaying a circular API "energy conserving" or "resource conserving" service label on the container. They may affect lubrication and clutch performance.

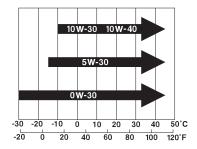


NOT RECOMMENDED RECOMMENDED

• Do not use non-detergent, vegetable, or castor based racing oils.

Engine Oil & Filter

Other viscosities shown in the following chart may be used when the average temperature in your riding area is within the indicated range.

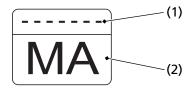


JASO T 903 standard

The JASO T 903 standard is an index for engine oils for 4-stroke motorcycle engines.

There are two classes: MA and MB.

Oil conforming to the standard is labeled on the oil container. For example, the following label shows the MA classification.



(1) oil code(2) oil classification

Checking & Adding Oil

Refer to Safety Precautions on page 109.

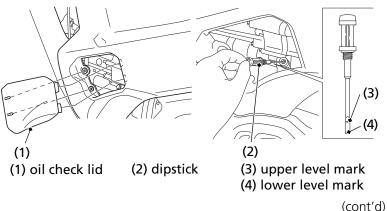
Check the engine oil level each day before operating your ATV and add if needed.

Before riding your ATV, check the engine oil level.

- 1. Park your ATV on a firm, level surface.
- 2. Start the engine in a well-ventilated area and let it idle for 3 5 minutes. If the air temperature is below 10°C (50°F), let the engine idle for an additional 5 minutes (a total of 10 minutes).
- 3. Stop the engine and wait 2 3 minutes.
- 4. Remove the oil check lid (1).
- 5. Remove the dipstick (2) from the front left crankcase cover and wipe it clean.
- 6. Insert the dipstick without screwing it in, then remove the dipstick and check the oil level. The oil level should be between the upper level mark (3) and the lower level mark (4) on the dipstick.

LEFT SIDE

LEFT SIDE



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Engine Oil & Filter

7. If the oil level is near or below the lower level mark, remove the seat (page 120) and the tank cover assembly (page 121). Remove the oil fill cap (5) from the front right crankcase cover and add the specified oil into the fill cap hole, up to the upper level mark on the dipstick.

Do not over fill.

- 8. Reinstall the oil fill cap and dipstick.
- 9. Install the tank cover assembly.
- 10. Install the seat.
- 11. Install the oil check lid.

NOTICE

Running the engine with an improper oil level can cause serious engine damage.

RIGHT SIDE



(5) oil fill cap

Changing Engine Oil & Filter

Refer to Safety Precautions on page 109.

Your ATV's oil filter has very specific performance requirements. Use a new Honda Genuine oil filter specified for your model or a filter of equal quality.

NOTICE

Using the wrong oil filter may result in leaks or engine damage.

This procedure requires mechanical skill and professional tools such as a torque wrench as well as a means for disposing of the drained fluid (page 204). If you do not have the skills or the tools, see your dealer.

Change the oil with the engine warm to assure complete and rapid draining.

Drain the Engine Oil:

- 1. With the ATV on the level ground, remove the seat (page 120) and the tank cover assembly (page 121), and then remove the oil fill cap from the front right crankcase cover.
- 2. Place an oil drain pan under the crankcase and remove the engine oil drain bolt (1) and sealing washer (2).

UNDER ENGINE



(1) engine oil drain bolt

(2) sealing washer

Engine Oil & Filter

Install a New Engine Oil Filter:

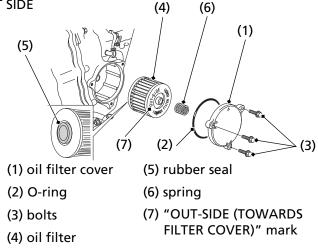
Place shop towels under the oil filter cover because oil will flow out.

- 1. Remove the oil filter cover (1) and O-ring (2) by removing the bolts (3). Let the remaining oil drain out. Discard the oil filter (4) in an approved manner (page 204).
- 2. Apply engine oil to a new O-ring and install it to the oil filter cover. Then install a new oil filter. Use only the Honda Genuine oil filter or a filter of equivalent quality specified for your model. Using the wrong Honda filter or a non-Honda filter which is not of equivalent quality may cause engine damage.
- 3. Install a new oil filter with the rubber seal (5) facing inward, toward the engine. Make sure the spring (6) and the "OUT-SIDE (TOWARDS FILTER COVER)" mark (7) faces away from the engine, toward the oil filter cover.

NOTICE

Improper installation of the oil filter can cause serious engine damage.

RIGHT SIDE



- 4. Reinstall the oil filter cover, making sure the bolts are tightened to the specified torque:
 - 9 lbf·ft (12 N·m, 1.2 kgf·m)
- 5. Pour the drained oil into a suitable container and dispose of it in an approved manner (page 204).

NOTICE

Improper disposal of drained fluids is harmful to the environment.

Add Engine Oil:

1. Reinstall the oil drain bolt with the new sealing washer and tighten it to the specified torque:

18 lbf·ft (25 N·m, 2.5 kgf·m)

2. Fill the crankcase with the recommended grade oil approximately:

3.8 US qt (3.6 l)

- 3. Reinstall the oil fill cap and dipstick.
- 4. Start the engine and let it idle for 3 5 minutes.
- 5. Stop the engine, wait 2 3 minutes and check the oil level. Make sure the oil is between the upper and lower level marks on the dipstick. If necessary, add more oil but do not overfill.
- 6. Check that there are no oil leaks.
- 7. Install the tank cover assembly (page 121).
- 8. Install the seat (page 120).

If a torque wrench is not used for installation, see your dealer as soon as possible to verify proper assembly.

Oil Recommendation

type	hypoid gear oil
viscosity (weight)	SAE 80W-90
suggested oil	Honda shaft drive oil or equivalent

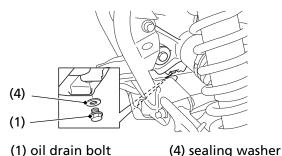
Changing Oil

Refer to Safety Precautions on page 109.

Change the oil with the rear final gear at normal operating temperature to assure complete and rapid draining.

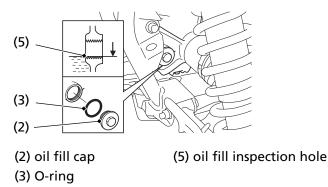
1. Park your ATV on a firm, level surface.

REAR



- 2. Place an oil drain pan under the oil drain bolt (1).
- 3. Remove the oil fill cap (2), O-ring (3), drain bolt and sealing washer (4).

REAR



4. After the oil has completely drained, reinstall the drain bolt with a new sealing washer and tighten it to the specified torque:
9 lbf·ft (12 N·m, 1.2 kgf·m)

(cont'd)

Rear Final Gear Oil

5. Fill the rear final gear with the recommended oil.

4.2 US oz (125 cm³)

Make sure the oil level is at the lower edge of the oil fill inspection hole (5).

6. Coat a new O-ring with grease and install it into the fill cap groove and tighten it to the specified torque:

9 lbf·ft (12 N·m, 1.2 kgf·m)

7. Pour the drained oil into a suitable container and dispose of it in an approved manner (page 204).

NOTICE

Improper disposal of drained fluids is harmful to the environment.

Oil Recommendation

type	hypoid gear oil
viscosity (weight)	SAE 80W-90
suggested oil	Honda shaft drive oil or equivalent

Changing Oil

Refer to Safety Precautions on page 109.

Change the oil with the front final gear at normal operating temperature to assure complete and rapid draining.

Front Final Gear Oil

- 1. Park your ATV on a firm, level surface.
- 2. Place an oil drain pan under the oil drain bolt (1).
- 3. Remove the oil fill cap (2), O-ring, drain bolt and sealing washer.
- 4. After the oil has completely drained, reinstall the drain bolt with a new sealing washer and tighten it to the specified torque:
 9 lbf·ft (12 N·m, 1.2 kgf·m)
- 5. Pour the drained oil into a suitable container and dispose of it in an approved manner (page 204).

NOTICE

Improper disposal of drained fluids is harmful to the environment.

6. Fill the front final gear with the recommended oil.

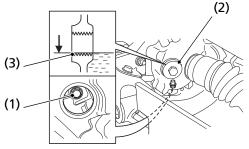
7.1 US oz (210 cm³)

Make sure the oil level is at the lower edge of the oil fill inspection hole (3).

7. Coat a new O-ring with grease and install it into the fill cap groove and tighten it to the specified torque:

9 lbf·ft (12 N·m, 1.2 kgf·m)

FRONT



(1) oil drain bolt (2) oil fill cap (3) oil fill inspection hole

Your ATV's liquid cooling system dissipates engine heat through the coolant jacket that surrounds the cylinder and cylinder head.

Maintaining the coolant will allow the cooling system to work properly and prevent freezing, overheating, and corrosion.

Coolant Recommendation

Use Pro Honda HP Coolant or an equivalent high quality ethylene glycol antifreeze containing corrosion protection inhibitors specifically recommended for use in aluminum engines. Check the antifreeze container label.

Use only distilled water as a part of the coolant solution. Water that is high in mineral content or salt may be harmful to the aluminum engine.

NOTICE

Using coolant with silicate inhibitors may cause premature wear of water pump seals or blockage of radiator passages. Using tap water may cause engine damage.

The factory provides a 50/50 solution of antifreeze and water in this ATV. This coolant solution is recommended for most operating temperatures and provides good corrosion protection.

Decreasing the concentration of antifreeze to less than 40% will not provide proper corrosion protection.

Coolant

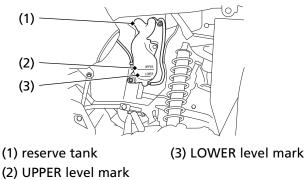
Increasing the concentration of antifreeze is not recommended because it decreases cooling system performance. Higher concentrations of antifreeze (up to 60%) should only be used to provide additional protection against freezing. Check the cooling system frequently during freezing weather.

Checking & Adding Coolant

Refer to Safety Precautions on page 109.

Check the engine coolant level each day before operating your ATV and add if needed.

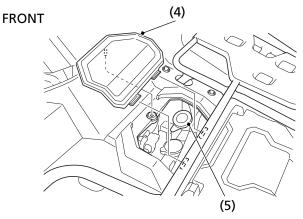
LEFT FRONT



- 1. Make sure the vehicle is on level ground.
- 2. With the engine at normal operating temperature, check the coolant level in the reserve tank (1). It should be between the UPPER (2) and LOWER (3) level marks.

If the reserve tank is empty, or if coolant loss is excessive, check for leaks and see your dealer for repair.

- 3. Remove the radiator cap lid (4) and reserve tank cap (5). Always add coolant to the reserve tank. Do not attempt to add coolant by removing the radiator cap.
- 4. Add coolant to the reserve tank as required to bring the coolant level to the UPPER level mark.



- (4) radiator cap lid
- (5) reserve tank cap
- 5. After adding coolant, install the parts in the reverse order of removal.

Coolant Replacement

Refer to Safety Precautions on page 109.

Coolant should be replaced by your dealer, unless you have the proper tools and service data, and are mechanically qualified. Refer to the official Honda Service Manual (page 248).

Removing the radiator cap while the engine is hot can cause the coolant to spray out, seriously scalding you.

Always let the engine and radiator cool down before removing the radiator cap.

To properly dispose of drained coolant, refer to You & the Environment, page 204.

NOTICE

Improper disposal of drained fluids is harmful to the environment.

Radiator Core

Refer to Safety Precautions on page 109.

Check the air passages for clogging or damage. Remove insects, mud, or any obstruction with low water pressure. Have the radiator checked by your dealer if the air flow is restricted over more than 20% of the radiator surface.

Clean the radiator core after riding the ATV in mud.

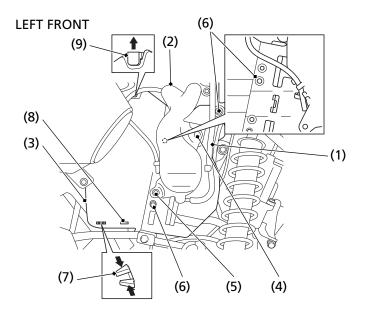
To clean the radiator core and radiator grill cover:

- 1. Unhook the reserve tank tube (1).
- 2. Remove the reserve tank (2) from the left radiator grill cover (3) by removing the bolt (4) and clip (5).
- 3. Remove the clips (6).
- 4. Unhook the tab A (7) and tab B (8) on both of the left and right side.
- 5. Unhook the left side of the center radiator grill cover hook (9) and slide the left radiator grill cover.
- 6. Remove the left radiator grill cover.

NOTICE

Do not apply pressured water directly to the radiator core. The pressured water can damage the radiator core.

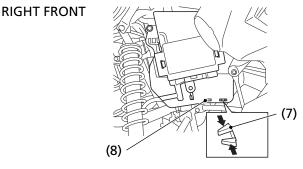
(cont'd)



- (1) reserve tank tube
- (2) reserve tank
- (3) left radiator grill cover
- (4) bolt
- (5) clip

- (6) clips
- (7) tab A
- (8) tab B
- (9) center radiator grill cover hook

Coolant

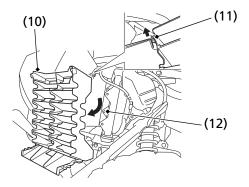


(7) tab A

(8) tab B

- 7. Remove the center radiator grill cover (10) by unhooking the right side of the center radiator grill cover hook (11).
- 8. Wash the radiator core (12) and center radiator grill cover.

LEFT FRONT



- (10) center radiator grill cover (11) center radiator grill cover hook (12) radiator core
- 9. Install the removed parts in reverse order of removal.

Refer to Safety Precautions on page 109.

Proper air cleaner maintenance is very important for off-road vehicles.

A dirty, water-soaked, worn-out, or defective air cleaner will allow dirt, dust, mud, and other impurities to pass into the engine.

Service the air cleaner more frequently if you ride in unusually wet or dusty areas. Your dealer can help you determine the correct service interval for your riding conditions.

Your ATV's air cleaner has very specific performance requirements. Use a new Honda Genuine air cleaner specified for your model or an air cleaner of equal quality.

NOTICE

Using the wrong air cleaner may result in premature engine wear.

Proper air cleaner maintenance can prevent premature engine wear or damage, expensive repairs, low engine power, poor gas mileage, and spark plug fouling.

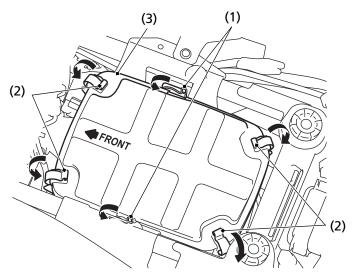
NOTICE

Improper or lack of proper air cleaner maintenance can cause poor performance and premature engine wear.

Cleaning

1. Remove the seat (page 120).

UNDER SEAT



(1) spring hooks(2) retainer clips

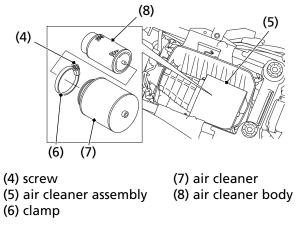
(3) air cleaner housing cover

- 2. Unlatch the spring hooks (1) and retainer clips (2).
- 3. Remove the air cleaner housing cover (3).

(cont'd)

- 4. Loosen the screw (4) and remove the air cleaner assembly (5) from the air cleaner housing.
- 5. Remove the clamp (6).
- 6. Remove the air cleaner (7) from the air cleaner body (8).
- 7. Gently wash the air cleaner in clean, non-flammable (high flash point) solvent such as kerosene not gasoline. After cleaning, gently squeeze out the remaining solvent. Avoid twisting or wringing the air cleaner. This can tear the foam.
- 8. Inspect for tears or cracks in the foam or seams of the air cleaner. Replace the air cleaner if it is damaged.
- 9. Allow the air cleaner to dry thoroughly before applying oil. A wet air cleaner will not fully absorb the oil.
- 10. Pour clean Pro Honda Foam Filter Oil or an equivalent over the entire surface of the air cleaner. Use both hands to evenly spread the oil into the air cleaner. Gently squeeze out any excess oil. (To keep your hands dry, place the air cleaner in a clean plastic bag before spreading the oil into the air cleaner.)

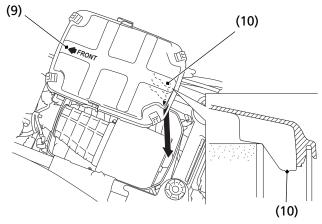




11. Install the air cleaner on the air cleaner body.

- 12. Install the clamp.
- 13. Insert the air cleaner assembly into the air cleaner housing.
- 14. Fasten the screw.
- 15. Reassemble by reversing the disassembly sequence.
 - Install the air cleaner housing cover with the FRONT mark (9) facing forward and fit the cut out of the tab (10) at the end of the air cleaner.

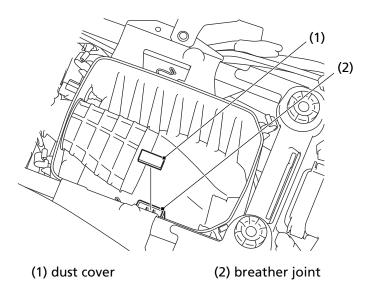
UNDER SEAT



(9) FRONT mark (10) tab

Dust Cover

UNDER SEAT

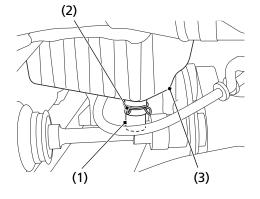


Do not push the dust cover (1) too far into the breather joint (2). If the dust cover is dirty, clean it.

Air Cleaner Housing Drain Tube

The air cleaner housing drain tube should be serviced in accordance with the Maintenance Schedule. (Riding through water may require more frequent inspection.) If deposits can be seen in the drain tube, the tube must be cleaned before starting the vehicle.

REAR



(1) drain tube (2) clip (3) air cleaner housing

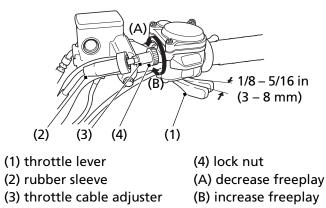
- 1. Remove the drain tube (1) by removing the clip (2) under the air cleaner housing (3).
- 2. Drain the deposits.
- 3. Reinstall the drain tube, securing it with the clip.

Throttle

Throttle Freeplay

Refer to Safety Precautions on page 109.

RIGHT HANDLEBAR



Inspection

Check freeplay at the throttle lever (1). Freeplay:

1/8 - 5/16 in (3 - 8 mm)

Adjustment

- 1. Slide the rubber sleeve (2) back to expose the throttle cable adjuster (3).
- 2. Loosen the lock nut (4).
- 3. Turn the adjuster to obtain the correct freeplay.
- 4. Tighten the lock nut and reinstall the sleeve.
- 5. After adjustment, check for smooth operation of the throttle lever from fully closed to fully open in all steering positions.

Throttle Inspection

Refer to Safety Precautions on page 109.

- 1. Check that the throttle assembly is positioned properly and the securing bolts are tight.
- 2. Check for smooth operation of the throttle lever from fully open to fully closed in all steering positions. If there is a problem, see your dealer.
- 3. Inspect the condition of the throttle cable from the throttle lever down to the throttle body. If the cable is kinked or chafed, have it replaced.
- 4. Check the throttle cable for tension or stress in all steering positions.
- 5. Lubricate the throttle cable with a commercially available cable lubricant to prevent premature wear and corrosion.

Spark Plug Recommendation

standard spark plug	BKR5E-11 (NGK) or
	K16PR-U11 (DENSO)

Use only the recommended type of spark plug in the recommended heat range.

NOTICE

Using spark plugs with an improper heat range can cause engine damage.

Spark Plug Inspection & Replacement

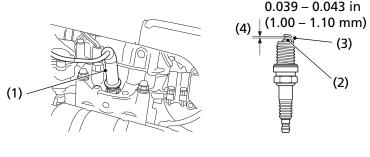
Refer to Safety Precautions on page 109.

- 1. Remove the seat (page 120) and tank cover assembly (page 121).
- 2. Clean any dirt from around the spark plug base.
- 3. Disconnect the spark plug cap (1). Take care to avoid damaging the spark plug wire when disconnecting the cap.
- 4. Using a spark plug wrench provided in the tool kit, remove the spark plug.
- 5. Inspect the electrodes and center porcelain for deposits, corrosion, or carbon fouling. If the corrosion or deposits are heavy, replace the plug. Clean a carbon or wet-fouled plug with a plug cleaner, if available, or a wire brush. Inspect the spark plug electrodes for wear. The center electrode (2) should have a flat tip and sharp edges, and the side electrode (3) should not be eroded. If the electrodes and insulator tip appear unusually fouled or burned, we suggest that you contact your dealer.
- 6. Discard the spark plug if there is apparent wear or if the insulator is cracked or chipped.

7. Using a wire-type feeler gauge, check the spark plug gap (4). If adjustment is necessary, bend the side electrode carefully. The gap should be:

0.039 - 0.043 in (1.00 - 1.10 mm)

LEFT SIDE



- (1) spark plug cap
- (2) center electrode

(3) side electrode(4) spark plug gap

8. With the plug washer attached, thread the spark plug in by hand to prevent cross-threading.

(cont'd)

Spark Plug

- 9. Tighten the spark plug:
 - If the old plug is good:
 - 1/8 turn after it seats.
 - If installing a new plug, tighten it twice to prevent loosening:
 - a) First, tighten the plug:

NGK: 3/4 turn after it seats.

DENSO: 1/2 turn after it seats.

- b) Then, loosen the plug.
- c) Next, tighten the plug again: 1/8 turn after it seats.

NOTICE

An improperly tightened spark plug can damage the engine. If a plug is too loose, the piston may be damaged. If a plug is too tight, the threads may be damaged.

- 10. Connect the spark plug cap. Take care to avoid pinching any cables or wires.
- 11. Install the remaining parts in the reverse order of removal.

Valve Inspection

Refer to Safety Precautions on page 109.

Valve clearance should be:

intake: 0.006 ± 0.001 in (0.15 ± 0.02 mm) exhaust: 0.009 ± 0.001 in (0.23 ± 0.02 mm)

Excessive clearance will cause noise. Insufficient clearance will cause loss of power and possibly damage the valves.

For those who are mechanically proficient and have the proper tools, instructions on adjusting valve clearances are given in the official Honda Service Manual. Otherwise, the valves should be adjusted by your dealer.

Spark Arrester

Refer to Safety Precautions on page 109.

The spark arrester must be serviced every 100 operating hours to maintain its efficiency.

Regular servicing prevents carbon build up (which can diminish engine performance) and also complies with USDA regulations for regular maintenance to assure proper function. The spark arrester prevents random sparks from the combustion process in your engine from reaching the environment.

The use of safety glasses is recommended for this procedure.

Because of the possible fire hazard, check that there are no combustible materials in the area before purging the spark arrester.

REAR



(1) bolt

- 1. Select a well-ventilated area free of combustible materials and make sure the exhaust pipe is cool.
- 2. Remove the bolt (1).
- 3. Start the engine and rev it up approximately twenty times while momentarily creating exhaust system back pressure by blocking the end of the muffler with a shop towel.
- 4. Stop the engine and allow the exhaust pipe to cool.
- 5. Reinstall the bolt securely.

Your front and rear suspension systems use springs and hydraulic damping devices that suspend your weight and most of the weight of your ATV.

The oil damper systems hydraulically control the natural compression and rebound of the suspension springs so that traction and comfort are maintained as the wheels ride over rough terrain.

The spring pre-loads for your front and rear suspension systems adjust the amount of force required to begin compression of the spring.

Consider adjusting your suspensions pre-load whenever you change your normal load, by adding or subtracting cargo, accessories, or when riding conditions change.

The way you ride your ATV and the type of ride you want to experience can also influence your suspension needs.

Lower spring pre-load provides a softer ride and is usually preferred for light loads and smooth terrain. Higher spring pre-load provides a firmer ride and is recommended for heavy loads and rough terrain.

Suspension Adjustment

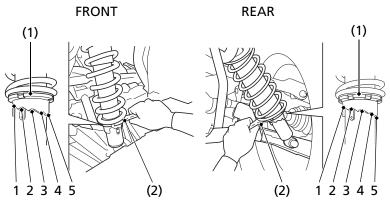
Using a pin spanner, which is available from your dealer, the suspensions can be adjusted for rider weight and riding conditions by changing the spring pre-load.

Do not attempt to disassemble, service, or dispose of the damper; see your dealer. The instructions found in this owner's manual are limited to adjustments of the shock assembly only.

Suspension

Suspension Spring Pre-Load

Refer to Safety Precautions on page 109.



- (1) spring pre-load adjuster
- (2) pin spanner

The spring pre-load adjuster (1) has 5 positions for different load or riding conditions.

Use the pin spanner (2) to adjust the shock spring pre-load.

Position 1: for a light load and smooth terrain. Position 2: standard position. Positions 3 to 5: for when the ATV is more heavily loaded. (Also increase spring pre-load for stiffer suspension.)

Make sure that both shock absorbers are adjusted to the same position.

Always adjust the shock absorber position in sequence (1-2-3-4-5 or 5-4-3-2-1). Attempting to adjust directly from 1 to 5 or 5 to 1 may damage the shock absorber.

Brakes

The hydraulic disc brakes (front) and a single hydraulic/mechanical disc brake (rear) on your ATV dissipate the heat generated by the friction of the brake pads on the discs as the wheels are slowed.

As the brake pads wear, the brake fluid level will drop. A leak in the system will also cause the level to drop.

There are no adjustments to perform, but fluid level and pad wear must be inspected periodically. The system must be inspected frequently to ensure there are no fluid leaks.

If the brake lever or brake pedal freeplay does not feel within the normal range while riding, check the brake pads for wear (page 168).

Worn pads should be replaced. If the pads are not worn beyond the recommended limit, there is probably air in the brake system. See your dealer to have the air bled from the system.

Brake Fluid Recommendation

brake fluid Honda DOT 4 Brake Fluid

The recommended brake fluid is Honda DOT 4 Brake Fluid, or any brake fluid of equal quality and performance. Use fresh brake fluid from a sealed container. Be sure to read the label before opening the sealed container. An opened container may be contaminated or may have absorbed moisture from the air.

Fluid Level Inspection

Refer to Safety Precautions on page 109.

If your inspection indicates a low fluid level, have your dealer add the recommended fluid.

Do not add or replace brake fluid, except in an emergency. If you do add fluid, have your dealer check the system as soon as possible.

NOTICE

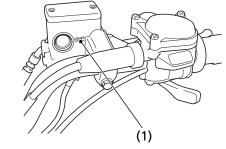
Brake fluid can damage plastic and painted surfaces. Handle with care.

Wipe up spills immediately. Avoid brake fluid contact with skin or eyes. If it comes in contact with your eyes, wash them out with clean water and immediately call a doctor. If it comes in contact with your skin, wash with clean water and, if necessary, call a doctor.

Brakes

Front Brake Fluid Level

RIGHT HANDLEBAR

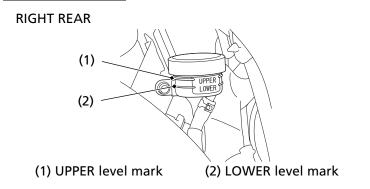


(1) LOWER level mark

With the ATV on a level surface, check the fluid level. It should be above the LOWER level mark (1). If the level is at or below the LOWER level mark, check the brake pads for wear (page 168).

Worn brake pads should be replaced. If the pads are not worn, have your brake system inspected for leaks.

Rear Brake Fluid Level



With the ATV on a level surface, check the fluid level. It should be between the UPPER (1) and LOWER (2) level marks. If the level is at or below the LOWER level mark, check the brake pads for wear (page 168).

Worn brake pads should be replaced. If the pads are not worn, have your brake system inspected for leaks.

Other Inspections

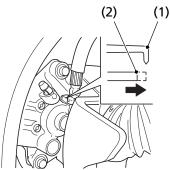
- Make sure there are no fluid leaks.
- Check for deterioration or cracks in the hoses and fittings. If the hoses are worn or cracked, have them replaced by your dealer.

Brake Pad Wear

Refer to Safety Precautions on page 109.

Brake pad wear will depend upon the severity of usage and riding conditions. The pads will wear faster in wet or muddy conditions. Inspect the pads visually during all regular service intervals to determine the pad wear.

RIGHT FRONT (Left side similar)



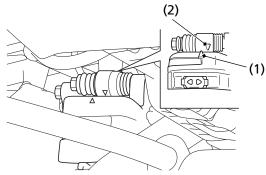
(1) wear indicator

(2) edge of reference mark

Check the wear indicator (1). If the wear indicator aligns with the edge of the reference mark (2), both pads must be replaced, see your dealer for this replacement.

Always inspect both pads in both the right and left front brake calipers.

RIGHT REAR



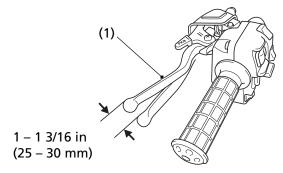
(1) wear indicator

(2) reference mark

Check the wear indicator (1). If the wear indicator aligns with the reference mark (2), both pads must be replaced, see your dealer for this replacement.

Rear Brake Lever Freeplay

LEFT HANDLEBAR

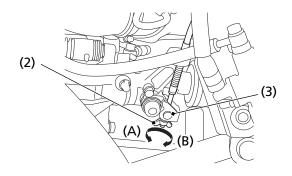


(1) rear brake lever/parking brake lever

Inspection

- 1. Press down on the rear brake pedal several times.
- 2. Measure the distance the rear brake lever/parking brake lever (1) moves before the brake starts to take hold. Freeplay (measurement at the tip of the end of the brake lever) should be:
 - 1 1 3/16 in (25 30 mm)
- 3. If necessary, adjust to the specified range.

Adjustment RIGHT REAR



- (2) brake lever adjusting nut(3) brake arm pin
- (A) increase freeplay(B) decrease freeplay

Turn the brake lever adjusting nut (2), located on the brake operating rod at the brake caliper. Make sure the cutout on the adjusting nut is properly seated on the brake arm pin (3).

Other Inspections

- Check that the brake lever and brake pedal assemblies are positioned properly and the securing bolts are tight.
- Make sure that the brake cables, brake arm, spring, parking brake lever, and fasteners are in good condition.

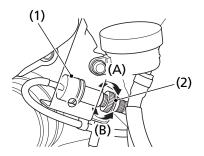
Brake Light Switch Adjustment

Refer to Safety Precautions on page 109.

Rear Brake Only:

Check the operation of the rear brake light switch (1) at the right side behind the engine from time to time. Adjustment is done by turning the adjusting nut (2). Hold the rear brake light switch and turn the nut in direction (A) if the switch operates too late and in direction (B) if the switch operates too soon.

RIGHT REAR



(1) rear brake light switch

(2) adjusting nut

To safely operate your ATV, your tires must be the proper type and size, in good condition with adequate tread, and correctly inflated.

Using tires that are excessively worn or improperly inflated can cause a crash in which you can be seriously hurt or killed.

Follow all instructions in this owner's manual regarding tire inflation and maintenance.

This ATV is equipped with low pressure tubeless tires. Although the tires are designed specifically for off-road use, they are not immune to punctures. Always select your riding area with care.

The following pages give detailed information on how and when to check your air pressure, how to inspect your tires for wear and damage, and our recommendations for tire repair and replacement.

Air Pressure

Refer to Safety Precautions on page 109.

Properly inflated tires provide the best combination of handling, tread life, and riding comfort. Generally, underinflated tires wear unevenly, adversely affect handling, and are more likely to fail from being overheated. Overinflated tires make your ATV ride harshly, are more prone to damage from surface hazards, and wear unevenly.

Make sure the air valve caps are secure. If necessary, install new caps.

Always check air pressure when your tires are "cold." If you check air pressure when your tires are "warm" — even if your ATV has only been ridden for a few miles — the readings will be higher. If you let air out of warm tires to match the recommended cold tire pressures, the tires will be underinflated. Be sure to check tire pressure at the riding site, since changes in altitude can affect air pressure.

The recommended "cold" tire pressures are:

	FRONT	REAR
RECOMMENDED PRESSURE	4.4 psi (30 kPa)	4.4 psi (30 kPa)

Tires

A manually operated tire pump should be used rather than the high pressure system found in service stations. This will minimize the possibility of tire damage from overinflation. If you use a high pressure system at a service station, add air in small amounts and check the pressure increase frequently to prevent possible tire damage from overinflation.

Operating this ATV with improper tires, or with uneven tire pressure may cause loss of control, and you could be seriously injured or killed.

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

Inspection

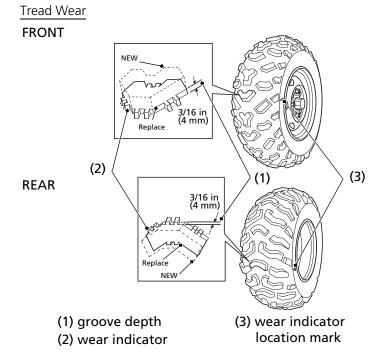
Refer to Safety Precautions on page 109.

Whenever you check the tire pressures, you should also look for:

- Bumps or bulges in the side of the tire or the tread. Replace any tire that has a bump or bulge.
- Cuts, slits, or cracks in the tires. Replace the tire if you can see fabric or cord.
- Nails or other foreign objects embedded in the side of the tire or tread.
- Excessive tread wear.

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Also, if you hit a pothole or other hard object while riding, stop as soon as you safely can and carefully inspect the tires for damage.



To check the condition of a tire tread, measure the groove depth (1) in the center of the tire, or check the wear indicator (2). For best performance, you should replace a tire before the tread depth at the center reaches the following limits:

front	3/16 in (4 mm)
rear	3/16 in (4 mm)

Tire Repair

Refer to Safety Precautions on page 109.

A tire that is repaired, either temporarily or permanently, will have lower speed and performance limits than a new or undamaged tire.

A temporary repair can sometimes be made in an emergency situation. However, since a temporary repair may not hold, you must ride very slowly, preferably without any cargo, and have the tire replaced or permanently repaired as soon as possible. (For more information on temporary repairs, see *If You Have a Flat Tire*, page 216.)

A permanent repair, such as an internal plug patch, can be made if a tire has only a small puncture in the tread area. However you may not be able to safely carry as much weight. If you choose to have a tire repaired, be sure the repair work is performed by a professional.

If you have a tire professionally repaired at a non-Honda facility, we recommend that you have the work checked by your dealer.

Tire Replacement

Refer to Safety Precautions on page 109.

The tires that came on your ATV were designed to match the performance capabilities of your ATV and provide the best combination of handling, braking, and comfort.

It is best to replace all four tires, however if that is not possible, you must replace the tires in pairs (front or rear) with tires of the same size and type as the originals. Never replace just one tire.

Installing improper tires on your ATV can affect handling and stability. This can cause a crash in which you can be seriously hurt or killed.

Always use the size and type of tires recommended in this owner's manual.

The recommended tires for your ATV are:

front	AT24 × 8-12★★	MAXXIS M977
rear	AT24 × 10-11★★	MAXXIS M978

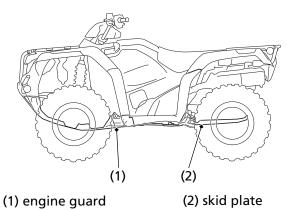
When you replace a tire, remember:

Have the tire replaced by your dealer if possible.

If you have a tire professionally replaced at a non-Honda facility, we recommended that you have the work checked by your dealer.

Skid Plate & Engine Guard

Refer to Safety Precautions on page 109.



The engine guard (1) protects the frame, front final gear case and engine crankcase.

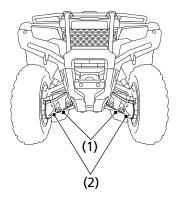
The skid plate (2) protects the rear final gear case. Check the guard and plate for cracks, damage, or looseness at intervals shown in the Maintenance Schedule.

Have the engine guard and skid plate replaced if they are cracked or damaged. If the guard and plate bolts are loose, tighten them securely.

Front Boot Guards & Front Driveshaft Guards

Refer to Safety Precautions on page 109.

FRONT



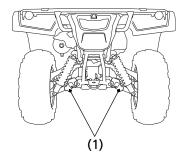
(1) front boot guards (2) front driveshaft guards

Check the front boot guards (1) and front driveshaft guards (2) for cracks, damage or looseness.

Tighten any loose fasteners. Replace the front boot guards and front driveshaft guards as required.

Rear Boot Guards

Refer to Safety Precautions on page 109.

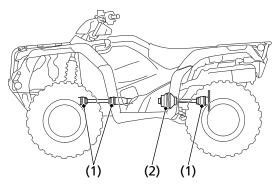


(1) rear boot guards

Check the rear boot guards (1) for cracks, damage or looseness. Tighten any loose fasteners. Replace the rear boot guards as required.

Propeller Shaft Boots & Yoke Joint Boot

Refer to Safety Precautions on page 109.



(1) propeller shaft boots(2) yoke joint boot

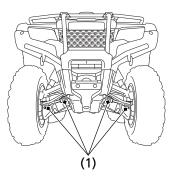
Check the propeller shaft boots (1) and yoke joint boot (2) for damage or leaking grease. If necessary, have your dealer replace them.

Drivetrain Boots

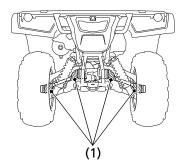
Front Driveshaft Boots & Rear Driveshaft Boots

Refer to Safety Precautions on page 109.

FRONT



REAR



(1) driveshaft boots

Check the driveshaft boots (1) for cuts, damage, or leaking grease. If necessary, have your dealer replace them.

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Your ATV has a maintenance-free type battery. You do not have to check the battery electrolyte level or add distilled water as you would with a conventional-type battery.

NOTICE

Your battery is a maintenance-free type and can be permanently damaged if the cap strip is removed.

Electrical accessories use current from the battery, even when the ignition is OFF (O). Limited operation also allows the battery to discharge.

If you have electrical accessories on your ATV or do not ride frequently, we recommend that you charge the battery frequently (see *Battery Charging*, page 189).

If you do not expect to ride your ATV for at least two weeks, we recommend you remove the battery, or at least disconnect the battery cables (negative cable first).

If you plan to store your ATV, see *Battery Storage*, page 186.

If your battery seems weak and/or is leaking electrolyte (causing slow starting or other electrical problems), see your dealer.

WARNING: Battery posts, terminals and related accessories contain lead and lead compounds. **Wash your hands after handling.**

Battery Storage

Refer to Safety Precautions on page 109.

If you plan to store your ATV, we recommend you remove the battery and store it where it can be charged at least every 30 days to maintain its service life.

If you do not remove the battery, we recommend disconnecting the battery cables (negative cable first).

You will get the best storage results from removing the battery and slow charging it every 30 days (see *Battery Charging*, page 189).

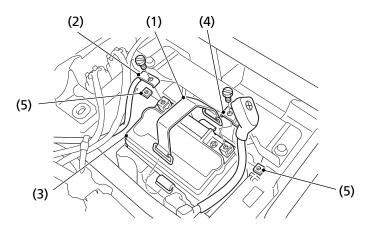
Before you remove the battery, be sure to read all the information that follows, as well as the information on the battery label.

The battery gives off explosive hydrogen gas during normal operation.

A spark or flame can cause the battery to explode with enough force to kill or seriously hurt you.

Wear protective clothing and a face shield, or have a skilled mechanic do the battery maintenance. The battery is located in a compartment under the rear fender cover.

UNDER REAR FENDER COVER



- (1) rubber band
- (2) negative (–) terminal lead
- (3) battery

(4) positive (+) terminal lead (5) terminal nuts

Removal

- 1. Make sure the ignition switch is OFF (O).
- 2. Remove the seat (page 120).
- 3. Remove the rear fender cover (page 123).
- 4. Release the rings and remove the rubber band (1).
- 5. Disconnect the negative (–) terminal lead (2) from the battery (3) first, then disconnect the positive (+) terminal lead (4).

(cont'd)

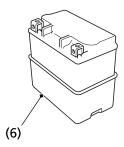
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Battery

- 6. Remove the battery and take care not to drop the terminal nuts (5).
- 7. Charge the battery (see following section).
- 8. Store your battery in an easy-to-reach location off the floor, in an area protected from freezing temperature and direct sunlight.
- 9. Clean the compartment after removing the battery for storage. Dry the compartment.
- 10. Slow charge the battery (see following section) once every 30 days.

Installation

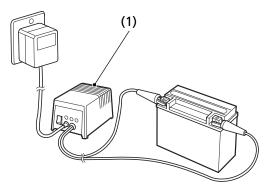
- 1. Check that the battery rubber (6) for damage. If necessary, replace the battery rubber.
- 2. Make sure the battery rubber is properly installed.
- 3. Reinstall the battery in the reverse order of removal. Be sure to connect the positive (+) terminal first, then the negative (–) terminal.
- 4. Make sure all bolts and other fasteners are secure.
- 5. Install the removed parts in reverse order of removal.



(6) battery rubber

Battery Charging

Refer to Safety Precautions on page 109.



⁽¹⁾ charger

Be sure to read the information that came with your battery charger and follow the instructions on the battery. Improper charging may damage the battery.

We recommend using a charger (1) designed specifically for your Honda, which can be purchased from your dealer. These units can be left connected for long periods without risking damage to the battery. However, do not intentionally leave the charger connected longer than the time period recommended in the charger's instructions. Avoid using an automotive-type battery charger. An automotive charger can overheat an ATV battery and cause premature damage.

Appearance Care

Frequent cleaning and polishing will keep your Honda looking newer longer.

Frequent cleaning also identifies you as an owner who values their ATV.

A clean ATV is also easier to inspect and service.

General Recommendations

Refer to Safety Precautions on page 109.

- To clean your ATV, you may use:
 - water
 - Hondabrite
 - a mild, neutral detergent and water
 - a mild spray and wipe cleaner/polisher
 - a mild spray and rinse cleaner/degreaser and water
- Avoid products that contain harsh detergents or chemical solvents that could damage the metal, paint, plastic, and camouflage coating on your ATV (Honda MUV).
- If your ATV is still warm from recent operation, give the engine and exhaust system time to cool off.
- Park in a shady area. Washing your ATV in bright sunlight may cause the finish to fade because water droplets intensify the sun's brightness.
- Spotting is also more likely because surface water can dry before you have time to wipe it off.
- Clean your ATV regularly to protect surface finishes.
- We recommend the use of a low pressure garden hose to wash your ATV. High pressure washers (like those at coin-operated car washers) can damage certain parts of your ATV.

NOTICE

High pressure water (or air) can damage certain parts of your ATV. Water entering the muffler may damage the oxygen sensor.

• After cleaning, inspect for damage, wear, and leaks (fuel, oil, coolant and brake fluid).

Washing Your ATV with a Mild Detergent

Refer to Safety Precautions on page 109.

- 1. Cover or plug the exhaust outlet prior to washing your ATV.
- 2. Rinse your ATV thoroughly with cool water to remove loose dirt.
- 3. Fill a bucket with cool water. Mix in a mild, neutral detergent, such as dish washing liquid or a product made especially for washing motorcycles or automobiles.
- 4. Wash your ATV with a sponge or soft towel. As you wash, check for heavy grime. If necessary, use a mild cleaner/degreaser to remove the grime.
- 5. After washing, rinse your ATV thoroughly with plenty of clean water to remove any residue. Detergent residue can corrode alloy parts.
- 6. Dry your ATV with a chamois or a soft towel. Leaving water on the surface to air dry can cause dulling and water spots. As you dry, inspect for chips and scratches.
- 7. Remove the cover or the plug from exhaust outlet. Then, start the engine and let it idle for several minutes. The engine heat will help dry moist areas.
- 8. As a precaution, ride your ATV at a slow speed and apply the brakes several times. This will help dry the brakes and restore normal braking performance.

Appearance Care

The headlights' inside lens may fog temporarily after washing or while riding in the rain. This does not impact the headlight function.

Any condensation inside the headlight should dissipate after a few minutes of running the engine with the headlights on. However, if you see a large amount of water or ice accumulated inside the lenses, have your vehicle inspected by your dealer.

Spray Cleaning Your ATV

Refer to Safety Precautions on page 109.

Avoid using spray cleaner products on the tires or suspension components.

Suggestions for using spray cleaner(s) follow:

ATV condition	Recommended Cleaning
Dust and fingerprint	Apply a spray cleaner/polish
smudges.	and wipe paint, chrome, glass,
	and clear plastic.
Light road grimes.	Spray any difficult-to-reach or very dirty areas with a spray cleaner/degreaser.
	Rinse and dry.
	Apply a spray cleaner/polish
	and wipe with a non-abrasive cloth.
Heavy grime. Oil leaks. Brake dust.	Use a spray cleaner/degreaser. If necessary, rub with a
	sponge. Binso and dry
	Rinse and dry.
	Apply a spray cleaner/polish and wipe with a non-abrasive cloth.
Dull, corroded chrome or aluminum.	Apply a high quality chrome/ aluminum polish and wipe with a non-abrasive cloth.

Finishing Touches

Refer to Safety Precautions on page 109.

After washing your ATV, consider using a commercially available spray cleaner/polish or quality liquid or paste wax to finish the job. Use only a non-abrasive polish or wax made specifically for motorcycles or automobiles. Apply the polish or wax according to the instructions on the container.

If a surface on your ATV is chipped or scratched, your dealer has touch-up paint to match your ATV's color. Be sure to use your ATV's color code (page 233) when you buy touch-up paint.

If the frame has a chip that exposes the metal, first apply primer (to prevent corrosion) and then apply the touch-up paint. Several thin layers of touch-up paint are better than one thick coat.

Exhaust Pipe and Muffler Maintenance

The exhaust pipe and muffler are stainless steel but may become stained by mud or dust.

To remove mud or dust, use a wet sponge and a liquid kitchen abrasive, then rinse well with clean water. Dry with chamois or a soft towel.

If necessary, remove heat stains by using a commercially available fine texture compound. Then, rinse by the same manner as removing mud or dust. Here's helpful advice on how to prepare for an off-road adventure, how to transport and store your Honda, and how to be an environmentally responsible ATV owner.

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What to Take on the Trail	197
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Preparing for a Ride

A safe and enjoyable ride begins with good planning and preparation. Always ride with at least one other person in case you have trouble, and let someone know where you're going and when you expect to return.

Before riding in an unfamiliar area, find out in advance if you need special permits, get maps so you can study the terrain, and talk to other riders who know the area. The Forest Service and the Bureau of Land Management, riding clubs, and off-road magazines are good sources of information.

What to Take to the Riding Area

Along with your ATV and riding gear, you should take along some tools and supplies in case you have a problem. For some of the difficulties you might encounter, see *Taking Care of the Unexpected*, which begins on page 205.

We recommend that you always take water, food, a first aid kit, and your owner's manual. Other items you should consider loading on your truck or trailer include:

- a tool kit
- tire repair supplies and tools, and tires
- extra parts, control levers, cables, and spark plugs
- wire, duct tape, and rope
- extra gasoline

For safety, all refueling should be done at a gas station on the way to the riding area or at your base camp.

What to Take on the Trail

What you take with you during a ride depends on the kind of terrain, how long you expect to ride, how far you might go from your base camp or help, and how experienced you or your companions are in making repairs.

If you decide to take some tools, spare parts, or other supplies on the trail, be sure you can carry them safely and know how to use them. Also, be sure to follow the loading guidelines and weight limit (page 62).

Transporting Your Honda

Do not tow your ATV behind a car or other vehicle.

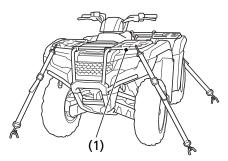
When you transport your ATV, we recommend that you carry the vehicle in its normal operating position (on all four wheels). Do not incline the vehicle upright on its rear end. This can damage the vehicle, and leaking gasoline could be a hazard.

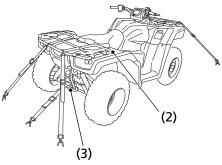
Follow these procedures:

1. Set the parking brake.

Transporting Your Honda

- 2. Secure the vehicle with tie-down straps in the areas shown.
 - Suitable tie-down straps are available from your dealer.
 - Ordinary rope is not recommended because it can stretch under load.
 - Using tie-down straps in any other areas can damage your ATV.
- 3. Rock the vehicle back and forth to make sure the tie-down straps are tight and the vehicle is secure.





(3) trailer hitch

(1) front cargo rack(2) rear cargo rack

Storing Your Honda

If you won't be riding for an extended period, such as during the winter, thoroughly inspect your ATV and correct any problem before storing it. That way, needed repairs won't be forgotten and it will be easier to get your ATV running again.

For more information about storage, refer to the *Honda Winter Storage Guide*, available from your dealer.

We suggest you perform the following procedures to keep your ATV in top condition. These storage procedures will reduce the deterioration that can occur during storage.

Preparation for Storage

Refer to Safety Precautions on page 109.

- 1. Change the engine oil and filter (page 131).
- 2. Make sure the cooling system is filled with a 50/50% antifreeze solution (page 141).
- 3. Fill the fuel tank. Make sure the fuel fill cap is properly installed.
- 4. To prevent rusting in the cylinder, perform the following:
 - Remove the spark plug cap from the spark plug (page 156).
 - Remove the spark plug. Do not connect the spark plug to the spark plug cap.
 - Pour a tablespoon (15 20 cc) of clean engine oil into the cylinder and cover the spark plug hole with a piece of cloth.
 - With the engine stop switch in the RUN (Ω) position, press the start button several times to crank the engine and distribute the oil.
 - Reinstall the spark plug and spark plug cap.

(cont'd) Tips **201**

Storing Your Honda

5. Remove the battery and charge it fully. Store it in an area protected from freezing temperatures and direct sunlight. Slow charge the battery (page 189) once a month.

The battery gives off explosive hydrogen gas during normal operation.

A spark or flame can cause the battery to explode with enough force to kill or seriously hurt you.

Wear protective clothing and a face shield, or have a skilled mechanic do the battery maintenance.

- 6. Wash and dry your ATV. Wax all painted surfaces.
- 7. Inflate the tires to their recommended pressures (page 175).
- 8. Store your ATV in an unheated area, free of dampness, away from sunlight, with a minimum of daily temperature variation.
- 9. Place your ATV on blocks to lift all tires off the floor.
- 10. Cover your ATV with a porous material. Avoid using plastic or similar non-breathing, coated materials that restrict air flow and allow heat and moisture to accumulate.

NOTICE

Do not store your ATV in an upright position for extended periods of time. The ATV should be stored with all four tires on the ground. This can damage the vehicle, and leaking gasoline could be a hazard.

Removal from Storage

Refer to Safety Precautions on page 109.

- 1. Uncover and clean your ATV.
- 2. If your ATV has been stored for more than four months change the engine oil (page 133).
- 3. If your ATV has been stored for more than two months ask your dealer to drain and replace the fuel.
- 4. Charge the battery (page 189) as required. Install the battery.
- 5. Perform a pre-ride inspection (page 57), then test-ride your ATV at low speeds.

You & the Environment

Owning and riding an ATV can be enjoyable, but you must do your part to protect nature. When you show respect for the land, wildlife, and other people, you also help preserve the sport of off-road riding.

Following are tips on how you can be an environmentally responsible ATV owner.

- **Tread Lightly.** Stay on existing roads and trails, avoid surfaces that are easily damaged, and ride only in areas approved for offroad vehicles.
- Keep the Noise Down. Loud vehicles can be offensive. Ride as quietly as possible, don't remove your spark arrester, and don't modify the muffler or any other part of your air intake and exhaust systems. Such modifications not only increase noise, they also reduce engine performance and may be illegal.
- Choose Sensible Cleaners. Use a biodegradable detergent when you wash your ATV. Avoid aerosol spray cleaners that contain chlorofluorocarbons (CFCs) which damage the atmosphere's protective ozone layer. Don't throw cleaning solvents away; see the following guidelines for proper disposal.
- **Recycle Wastes.** It's illegal and thoughtless to put used engine oil in the trash, down a drain, or on the ground. Used oil, gasoline, and cleaning solvents contain poisons that can hurt refuse workers and contaminate our drinking water, lakes, rivers, and oceans. Before changing your oil, make sure you have the proper containers. Put oil and other toxic wastes in separate sealed containers and take them to a recycling center. Call your local or state office of public works or environmental services to find a recycling center in your area and to get instructions on how to dispose of non-recyclable wastes.

Taking Care of the Unexpected

With all the challenges you can encounter off-road, there's a chance that sometime something may go wrong. This section gives practical advice to help you deal with a wide range of problems. Take time to read this section before you ride. Also review the tips in *Preparing for a Ride* (page 196).

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Taking Care of the Unexpected

General Guidelines

Keeping your ATV well-maintained is the best way to reduce the possibility of having a problem while riding. However, problems can arise even with well-maintained machines.

Remember to take along your owner's manual, the tool kit that came with your ATV, and any other items (such as tire repair supplies and additional tools) that might help you solve a problem on your own.

If something goes wrong during a ride, the first thing to do is stop as soon as you safely can. Do not continue riding if you have a flat tire, or you hear an unusual noise, or your ATV just doesn't feel right. If you continue riding, you could cause more damage and endanger your own safety.

After stopping, take time to assess the situation. Carefully inspect your ATV to identify the problem, then consider your options before you decide what to do.

If a problem is relatively minor and you have the tools, supplies, and skills to make a permanent repair, you may be able to fix it on the trail and continue riding. Or, you may be able to make a temporary repair that allows you to slowly ride back to your base where you can make a permanent repair or get help.

When a problem is more serious — or you don't have the tools, supplies, experience, or time to deal with it — you need to choose the safest way to get yourself and your ATV back to base. For example, if you are close enough, you (or you and another person) might be able to push it back.

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Taking Care of the Unexpected

Should you ever have a problem while riding, please follow these guidelines:

- Always put personal safety first.
- Take time to assess the situation and your options before deciding what to do.
- If the problem is relatively minor and you have the tools, supplies, and skills to make a temporary repair, be sure to have permanent repairs made as soon as possible.
- Do not continue riding if you are hurt or your ATV is not in safe riding condition.

Additional recommendations for specific problems follow.

If Your Engine Quits or Won't Start

Proper operation and maintenance can prevent starting and engine performance problems. In many cases, the cause of the problem may be a simple operational oversight.

If you have a problem starting the engine — or experience poor engine performance — the following information may help you. If you can't correct the problem, see your dealer.

If your ATV won't start, listen as you press the start button. If you don't hear the starter motor turning, refer to the *Starter motor doesn't operate* symptom. If you can hear the starter motor working normally, refer to the *Starter motor works, but the engine won't start* symptom.

If Your Engine Quits or Won't Start

	1 11 1	
SYMPTOM: Starter motor doesn't operate.		
POSSIBLE CAUSE	WHAT TO DO	
ignition switch OFF	Turn the ignition switch ON.	
engine stop switch OFF	Slide the engine stop switch to	
	RUN.	
transmission not in	Shift into neutral or squeeze	
neutral	the front brake lever.	
blown fuse	Replace with a new fuse of the	
	same rating (page 222).	
battery lead loose	Tighten the battery lead.	
low (or dead) battery	Charge the battery (page 189).	
	If charging doesn't help, see	
	your dealer.	
faulty starter motor	If all possible causes are	
	negative, the starter motor	
	may be faulty. See your dealer.	

SYMPTOM: Starter motor works, but the engine won't start.		
POSSIBLE CAUSE	WHAT TO DO	
out of fuel	Fill the fuel tank.	
flooded engine	See <i>Flooded Engine</i> (page 77).	
loose or unconnected spark plug cap	Install the spark plug cap securely. If the engine still won't start, see your dealer.	
loose battery cables	Tighten the battery terminal bolts.	
weak battery	Charge the battery (page 189). If charging doesn't help, see your dealer.	

If Your Engine Quits or Won't Start

SYMPTOM: Engine starts, but runs poorly.		
POSSIBLE CAUSE WHAT TO DO		
high coolant	Check the coolant	
temperature	temperature gauge and high	
	coolant temperature indicator.	
	Refer to <i>If the High Coolant</i>	
	Temperature Indicator Lights,	
	page 220.	
runs erratically, misfires	See your dealer.	
blubbers (rich fuel	See your dealer.	
mixture)		
sooty exhaust (rich fuel	See your dealer.	
mixture)		
detonates or pings	If applicable, switch to the	
under load	recommended octane gasoline	
	(page 125) or change your	
	brand of gasoline. If the	
	problem persists, see your	
	dealer.	
afterburn (backfires)	See your dealer.	
pre-ignition (runs on	See your dealer.	
after ignition switched		
OFF)		

SYMPTOM: Engine starts, but runs poorly or dies when hot.		
POSSIBLE CAUSE	WHAT TO DO	
poor or inadequate fuel flow due to clogged fuel filter	See your dealer. (ensure clean fuel supply)	

If the Transmission Is Not Functioning Properly

When the automatic transmission is not shifting properly, the gear position indicator will show "-" and blink.

See your dealer to check and restore the automatic transmission.

If the gear position indicator shows "-" and blinks, or one or both shift switches do not function while riding, perform the following:

- 1. Stop the ATV.
- 2. Turn the ignition switch to the OFF (O) position.
- 3. After the engine stops, turn the ignition switch to the ON (1) position.
- 4. Check the gear position indicator.

If these efforts do not restore proper operation, have your ATV inspected by your dealer.

When the "-" is blinking in the gear position indicator: Restart the engine; drive the ATV to a location where it can be loaded and transported to your dealer.

When the display on the gear position indicator returns to normal: You may drive on the ATV as usual after restarting the engine. However, we urge you to have your ATV inspected by your dealer. If one or both switches are not functioning after restarting the engine, see Emergency Gear Selection & Operation, page 214.

If the Transmission Is Not Functioning Properly

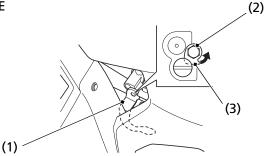
If the ATV does not move, even through "-" is not blinking in the gear position indicator:

If your ATV won't move, it is possible the transmission system has malfunctioned.

Use the following procedure to manually override the clutch of the transmission.

- 1. Shift the transmission into 2nd gear.
- 2. Apply the parking brake (page 43).
- 3. Turn the ignition switch to the OFF (O) position.
- 4. Remove the oil check lid (page 131).
- 5. Using the gear change tool (1), loosen the screw (2) and release the lock plate (3).

LEFT SIDE



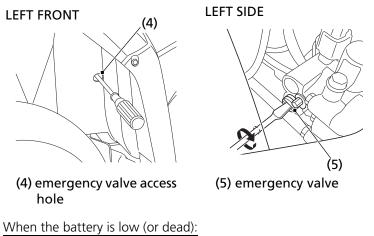
(1) gear change tool

(3) lock plate

- (2) screw
- 6. Locate the emergency valve access hole (4) inside the left front fender. Using a screwdriver, turn the emergency valve (5) all the way in. With the engine running, slowly open the throttle to move the ATV forward.

If the Transmission Is Not Functioning Properly

7. See your dealer as soon as possible.



• See If the Battery Is Low (or Dead), page 229.

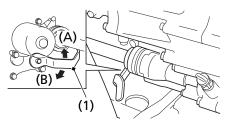
Emergency Gear Selection & Operation

If the shift switches do not operate, use the following procedure to manually select a gear so you may drive the vehicle to a location where it can be loaded and transported to your dealer.

- 1. Turn the ignition switch to the ON (1) position.
- 2. Remove the seat (page 120), and tank cover assembly (page 121).
- 3. Remove the gear change tool from the storage compartment (page 118).
- 4. Check the neutral indicator. If the transmission is in neutral, go to step 5. If the transmission is not in neutral, use the gear change tool to shift to neutral so you will be able to start the engine. Refer to How to Shift Gears Manually: (page 215).
- 5. Apply the parking brake.
- 6. Press the start button to start the engine.
- 7. Set 2nd gear position. Refer to *How to Shift Gears Manually:* (page 215).
- 8. Return the gear change tool to the storage location.
- 9. Install the tank cover assembly and seat.
- 10. Get on the ATV. Ride it at a safe speed to a place where it can be repaired or serviced.

Emergency Gear Selection & Operation

How to Shift Gears Manually:



(1) gear change tool

(A) downshift (counterclockwise)(B) upshift (clockwise)

- With the ATV unoccupied, align the hexagonal hole of the gear change tool (1) with the hexagonal end of the secondary spindle which is located on the front crankcase.
- To downshift, turn the gear change tool to direction (A). To upshift, turn the gear change tool to direction (B).
- If the transmission does not shift, rock the vehicle back and forth and try again.
- Return the gear change tool to the storage location.

Do not attempt to shift gears manually using the gear change tool while riding.

If the transmission is shifted manually when the electric shift system is functioning, the system will shut down automatically and the shift switches will not operate. To reactivate the system, turn the ignition switch to the OFF (O) position, then turn it back to the ON (I) position.

If You Have a Flat Tire

How you handle a flat tire on the trail depends on how serious the tire damage is, and what tools and supplies you have with you.

If you have a slow leak or a minor puncture, use the plug method to make a temporary repair. (The plug method is applied from the outside of the tire and is the same as that for conventional tubeless tires.)

A plug-type repair kit, available at most auto parts stores or service stations, provides a plug, an installation tool, tire cement, and an instruction sheet. Follow the instructions provided with the repair kit to make a temporary repair.

As soon as possible, have the tire permanently repaired by your dealer. Any tire that cannot be repaired should be replaced.

Whenever the ATV is to be operated far from service facilities or available transportation, we recommend that you carry a tire pump and a repair kit with the vehicle.

If the leak is more serious, or a temporary repair doesn't hold, the tire must be replaced. The tire will also need to be replaced if it is damaged (page 179). Replacing a tire involves removing and reinstalling the wheel (page 218).

If you are unable to repair a flat tire on the trail, you will need to send for help. We strongly recommend that you do not try to ride with a flat tire. The ATV will be hard to handle, and if the tire comes off the rim, it may lock up the wheel and cause you to crash.

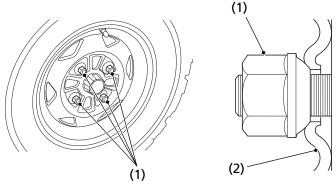
Riding your ATV with a temporary tire repair can be risky.

If the temporary repair fails, you can crash and be seriously injured or killed. If you must ride with a temporary tire repair, ride slowly and carefully until the tire is permanently repaired or replaced.

If You Have a Flat Tire

Emergency Wheel Removal/Installation

Refer to Safety Precautions on page 109.



(1) wheel nuts

(2) wheel rim

Removal

- 1. Park your ATV on a firm, level surface.
- 2. Loosen but do not remove the wheel nuts (1).
- 3. Raise the front (or rear) wheels off the ground and place a support block under the vehicle.
- 4. Remove the wheel nuts.
- 5. Remove the wheel.
 - Avoid getting grease, oil, or dirt on the front brake disc or pad surfaces when removing and installing each wheel. Any contamination can cause poor brake performance or rapid pad wear after reassembly.

Installation

- 1. Position the wheel.
- 2. Position the wheel nuts so that the tapered sides face the wheel rim (2).
- 3. Hand-tighten the wheel nuts on the wheel, then lower the ATV to the ground before tightening the nuts in a crisscross (rather than circular) pattern to the specified torque:

47 lbf·ft (64 N·m, 6.5 kgf·m)

If a torque wrench was not used for installation, see your dealer as soon as possible to verify proper assembly. Improper assembly may lead to loss of braking capability.

If the High Coolant Temperature Indicator Lights

Normally, the high coolant temperature indicator will only light momentarily when you turn the ignition to ON (1).

High coolant temperature may be caused by restriction of air flow to the radiator (such as mud caked on the radiator), extended idling, an oil leak, a coolant leak, a low oil level, a low coolant level, or extended operation under adverse conditions.

If the all segment of the coolant temperature gauge and high coolant temperature indicator are on while you're riding, don't ignore it. Pull safely to a stop. Stop the engine as soon as it's safe to do so, and let it cool.

NOTICE

Continuing to ride with high coolant temperature or an overheated engine can cause serious engine damage.

- A steaming engine indicates a coolant leak. Shut the engine off and wait until the steaming stops. Look for a leak, but don't touch the engine or radiator system. Let everything cool off first.
- Check for any restriction of air flow to the radiator.
- If there's no obvious problem, leave the engine on so the fan and coolant circulating system can continue working. Monitor the coolant temperature gauge and high coolant temperature indicator. The indicator may turn off after a brief stop with no load on the engine.
- Check the radiator fan. If the fan is not working, turn the engine off. Open the fuse box (page 223) and check the radiator fan fuse. If the fuse is blown, replace it with the proper (same rating) spare fuse. Start the engine. If the all segment of the coolant temperature gauge and high coolant temperature indicator stays on, turn the engine off. If the radiator fan is working, visually check the coolant level in the reserve tank, located under the left front fender. It isn't necessary to touch the radiator system.

If the High Coolant Temperature Indicator Lights

• If the reserve tank is low or empty, don't ride without adding coolant (page 142). After adding coolant, turn the engine on and check the coolant temperature gauge and high coolant temperature indicator.

If the indicator doesn't turn off, do not ride. The engine needs repair.

Transport your ATV to your dealer (page 198).

If the temperature drops to normal, check the coolant level. If it has gone down, add more coolant.

- Check for an oil leak.
- Check the oil level. If necessary, add the recommended oil (page 133) to the upper level mark. If you must leave your ATV to get oil, secure it as much as possible.
- Start the engine, and check that the coolant temperature gauge and high coolant temperature indicator goes off.

If you are able to resume riding, continue to monitor the coolant temperature gauge and high coolant temperature indicator frequently.

If there is an oil leak — do not ride the ATV until the leak is repaired by your dealer (page 198).

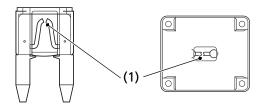
If there's a mild coolant leak, you can ride for awhile, carefully watching the coolant temperature gauge and indicator. Be prepared to stop and add more coolant or water. If the leak is bad, transport your ATV to your dealer (page 198).

If a Fuse Blows

All of the electrical circuits on your ATV have fuses to protect them from damage caused by excess current flow (short circuit or overload).

If something electrical on your ATV stops working, the first thing you should check for is a blown fuse (1).

Check all the fuses before looking elsewhere for another possible cause of the problem. Replace any blown fuses and check component operation.



(1) blown fuse

The main fuse and the circuit fuses are located under the rear fender cover.

The EPS (Electric Power Steering) block fuse is located under the rear fender cover.

main fuse 1	30 A
main fuse 2	10 A
ES (shift motor) fuse	30 A
other fuses	20 A × 2, 10 A
EPS (Electric Power	40 A
Steering) fuse	

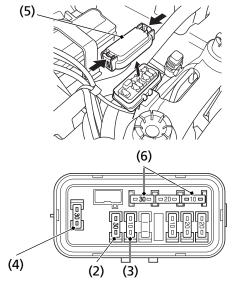
Recommended Fuses

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Main and ES (shift motor) Fuses Access

- 1. To prevent an accidental short circuit, turn the ignition switch to OFF (O) before checking or replacing the fuses.
- 2. Remove the seat (page 120).
- 3. Remove the rear fender cover (page 123).
- 4. To access the main fuses (2) (3) and ES (shift motor) fuse (4), remove the fuse box cover (5).

UNDER REAR FENDER COVER



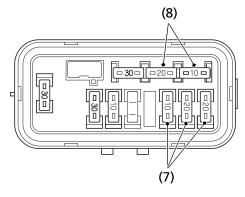
- (2) main fuse 1 (3) main fuse 2
- (5) fuse box cover(6) spare fuses
- (4) ES (shift motor) fuse
- fuse
- 5. Pull the main fuse out.
 - If it is blown, install the spare fuses (6).

(cont'd)

Taking Care of the Unexpected 223

If a Fuse Blows

Circuit Fuses Access



(7) circuit fuses

(8) spare fuses

6. To check or replace a circuit fuse (7), pull the old fuse out of its retaining clips.

If the fuse is blown, replace it with a spare fuse (8) of the same rating.

If you do not have a replacement fuse with the proper rating for the circuit, install one with a lower rating.

NOTICE

Replacing a fuse with one that has a higher rating greatly increases the chance of damage to the electrical system.

- 7. Install the fuse box cover.
- 8. Install the rear fender cover.
- 9. Install the seat.

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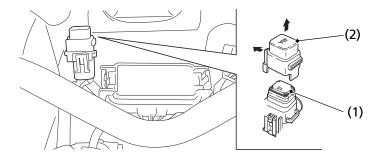
EPS (Electric Power Steering) Fuse Access

- 1. Turn the ignition switch to OFF (O) before checking the fuse.
- 2. Remove the seat (page 120).
- 3. Remove the rear fender cover (page 123).
- 4. To access the EPS block fuse (1), remove the EPS block fuse cover (2).

If the EPS block fuse is blown, see your dealer for this service.

- 5. Install the EPS block fuse cover.
- 6. Install the rear fender cover.
- 7. Install the seat.

UNDER REAR FENDER COVER



(1) EPS block fuse

(2) EPS block fuse cover

If a Fuse Blows

If you do not have a spare fuse and you cannot ride the ATV without fixing the problem, take a fuse of the same rating or a lower rating from one of the other circuits that you can do without temporarily.

If you replace a blown fuse with a spare fuse that has a lower rating, replace the fuse with the correct rating as soon as you can. Also remember to replace any spare fuses that were installed.

If the replacement fuse of the same rating burns out in a short time, there is probably a serious electrical problem on your ATV. Leave the blown fuse in that circuit and have your ATV checked by your dealer.

If You Crash

Personal safety is your first priority after a crash. If you or anyone else has been injured, take time to assess the severity of the injuries and whether it is safe to continue riding. If you cannot ride safely, send someone for help. Do not ride if you will risk further injury.

If you decide you are capable of riding safely, carefully inspect your ATV for damage and determine if it is safe to ride. Check the tightness of critical nuts and bolts securing such parts as the handlebar, control levers, brakes, and wheels.

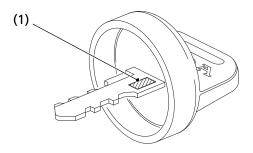
If there is minor damage, or you are unsure about possible damage but decide to try riding the ATV back to your base, ride slowly and cautiously.

Sometimes, crash damage is hidden or not immediately apparent. When you get home, thoroughly check your ATV and correct any problems you find. Also, be sure to have your dealer check the frame and suspension after any serious crash.

If You Lose Your Key

Be sure to record your key number (1). Store the spare key and recorded key number in a safe location. You'll need this number to have a duplicate key made.

If you lose your key and aren't carrying a duplicate, either get your spare or have one made. If you don't know your key number, call the dealer where you purchased your Honda ATV. They may have it listed in their records. If they don't, transport your ATV to them or the nearest dealer. The dealer will probably have to remove the ignition switch assembly to find the key number so they can make a key for you.



(1) key number

If the Battery Is Low (or Dead)

Jump starting is not recommended, especially if you use an automobile battery. The greater amperage of an automobile battery when the car engine is running can damage your ATV's electrical system.

Bump starting is also not recommended.

If you can't charge the battery or it appears unable to hold a charge, contact your dealer.

If a Component Fails

The brake levers or pedal, control cables, and other components can be damaged as you ride in dense brush or over rocky terrain. Making a trailside repair depends on how serious the damage is and what tools and supplies you have with you.

- If any component of the brake system is damaged, you may be able to ride carefully back to your base using the other brake components for slowing or stopping.
- If you damage a throttle cable or other critical component, your ATV may be unsafe to ride. Carefully assess the damage and make any repairs that you can. But if there is any doubt, it's best to be conservative and safe.

Technical Information

This section contains dimensions, capacities, and other technical data, plus information on government requirements and how to break-in your ATV.

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Specifications	
Break-in Guidelines	239
Emission Control Systems	240
Oxygenated Fuels	244

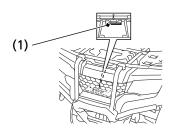
Vehicle Identification

Serial Numbers

FRONT

The VIN and engine serial number may be required when ordering replacement parts. You may record these numbers in the Quick Reference section at the rear of this manual.

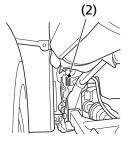
The VIN (1) is stamped on the front of the frame.



(1) VIN

The engine number (2) is stamped on the upper side of the rear crankcase.

LEFT REAR



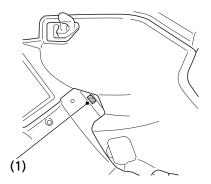
(2) engine number

Color Label & Code

The color label (1) is attached on the left side of the frame.

The color code is helpful when ordering replacement parts. You may record the color code in the Quick Reference section at the rear of this manual.

LEFT SIDE



(1) color label

Dimensions	
overall length	84.5 in (2,147 mm)
overall width	47.4 in (1,205 mm)
overall height	47.2 in (1,200 mm)
wheelbase	50.9 in (1,294 mm)
ground clearance	9.6 in (244 mm)

Fuel & Lubricants		
fuel	unleaded gasoline, pump octane	
recommendation	number of 86 or higher	
fuel tank capacity	3.88 US gal (14.7 ℓ)	
	including reserve	
fuel tank reserve	1.29 US gal (4.9 ℓ)	
engine oil	after disassembly:	
capacity	4.2 US qt (4.0 ℓ)	
	after draining:	
	3.6 US qt (3.4 ℓ)	
	after draining & oil filter change:	
	3.8 US qt (3.6 ℓ)	
engine oil	API Service Classification SJ or	
recommendation	higher except oils labeled as energy	
	conserving or resource conserving	
	on the circular API service label, SAE	
	10W-30, JASO T 903 standard MA,	
	Pro Honda GN4 4-stroke oil, or	
	Honda 4-stroke oil, or an equivalent	
	motorcycle oil	

Fuel & Lubricants (cont'd)		
cooling system recommendation	Pro Honda HP Coolant or an equivalent high quality ethylene glycol antifreeze containing corrosion protection inhibitors specifically recommended for use in aluminum engines	
cooling system capacity	1.7 US qt (1.6 ℓ)	

Capacities	
passenger capacity	operator only
maximum weight capacity	485 lb (220 kg) rider, all cargo and accessories

Engine Specifications			
displacement	25.6 cu-in (420 cm ³)		
bore & stroke	3.41 × 2.81	in	
	(86.5 × 71.5 mm)		
compression ratio	9.9 : 1		
spark plug	BKR5E-11 (NGK) or		
(standard)	K16PR-U11 (DENSO)		
spark plug gap	0.039 – 0.043 in (1.00 – 1.10 mm)		
valve clearance	intake:	0.006 ± 0.001 in	
(cold)		(0.15 ± 0.02 mm)	
	exhaust:	0.009 ± 0.001 in	
		(0.23 ± 0.02 mm)	
idle speed	1,400 ± 100 rpm		
	(non-adjustable)		

Power Transmission		
primary reduction		2.680
secondary reduction	1	1.480
final reduction	front	3.231
	rear	3.154
transmission ratio	1st	3.058
	2nd	2.157
	3rd	1.541
	4th	1.178
	5th	0.848
	reverse	3.996
final drive		shaft

Chassis & Suspension		
caster	1°	
trail	-0.1 in (-3 mm)	
tire size, front	AT24 × 8-12★★	MAXXIS M977
tire size, rear	AT24 × 10-11★★	MAXXIS M978
tire pressure,	front:	
front & rear (cold)	4.4 psi (30 kPa)	
	rear:	
	4.4 psi (30 kPa)	

Electrical	
battery	GYZ16H
	12 V-16 Ah (10HR)
generator	0.45 kW/5,000 rpm

Lights	
headlight	12 V 35/35 W × 2
brake/tail light	LED
neutral indicator	LED
reverse indicator	LED
high coolant	LED
temperature	
indicator	
PGM-FI indicator	LED
PS (Electric Power	LED
Steering)	
indicator	

Fuses	
main 1	30 A
main 2	10 A
ES (shift motor)	30 A
other	20 A × 2, 10 A
EPS (Electric	40 A
Power Steering)	

Torque Specification	1
engine oil drain	18 lbf·ft (25 N·m, 2.5 kgf·m)
bolt	
engine oil filter	9 lbf·ft (12 N·m, 1.2 kgf·m)
cover bolts	
rear final gear oil	9 lbf·ft (12 N·m, 1.2 kgf·m)
drain bolt	
rear final gear oil	9 lbf·ft (12 N·m, 1.2 kgf·m)
fill cap	
front final gear oil	9 lbf·ft (12 N·m, 1.2 kgf·m)
drain bolt	
front final gear oil	9 lbf·ft (12 N·m, 1.2 kgf·m)
fill cap	
wheel nuts	47 lbf·ft (64 N·m, 6.5 kgf·m)

Help assure your ATV's future reliability and performance by paying extra attention to how you ride during the first operating day or 15 miles (25 km).

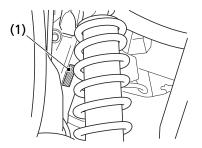
During this period, avoid full-throttle starts, rapid acceleration, and constant rpm operation.

Exhaust Emission Requirements

The U.S. Environmental Protection Agency (EPA), the California Air Resources Board (CARB) require that your ATV comply with applicable exhaust emissions standards during its useful life, when operated and maintained according to the instructions provided.

The Vehicle Emission Control Information Label (1) is attached on the left front of the frame.

LEFT FRONT



(1) vehicle emission control information label

Source of Exhaust Emissions

The combustion process produces carbon monoxide (CO), oxides of nitrogen (NOx) and hydrocarbons (HC). Control of hydrocarbons and oxides of nitrogen is very important because, under certain conditions, they react to form photochemical smog when subjected to sunlight. Carbon monoxide does not react in the same way, but it is toxic.

Honda Motor Co., Ltd. utilizes various systems to reduce carbon monoxide, oxides of nitrogen and hydrocarbons.

Exhaust Emission Control System

The exhaust emission control system includes a PGM-FI system and oxygen sensor.

No adjustment to this system should be made although periodic inspection of the components is recommended.

The exhaust emission control system is separate from the crankcase emission control system.

Evaporative Emission Control System (USA - 50 States [meets California])

An evaporative emissions control system uses a canister filled with charcoal to adsorb fuel vapor from the fuel tank while the engine is off. The vapor is drawn into the engine and burned while driving.

Models sold in and used in California:

An add-on or modified part must be compliant with applicable ARB evaporative emission control standards. A violation of this requirement is punishable by civil and/or criminal punishment.

Crankcase Emission Control System

The engine is equipped with a Closed Crankcase System to prevent discharging crankcase vapors into the atmosphere. Blow-by gas is returned to the combustion chamber through the air cleaner, throttle body and intake-manifold.

Problems That May Affect ATV Exhaust Emissions

If you are aware of any of the following symptoms, have the vehicle inspected and repaired by your ATV dealer.

Symptoms:

- 1. Hard starting or stalling after starting
- 2. Rough idle
- 3. Misfiring or backfiring during acceleration
- 4. After-burning (backfiring)
- 5. Poor performance (driveability) and poor fuel economy

Federal regulations prohibit removing or disabling a device or element of design that may affect your engine's emission performance unless your ATV will be used exclusively in competition. If you modify your engine for use in sanctioned competition events, you must deface or destroy the emission control information label.

If you loan, sell, or give your competition modified Honda ATV to someone else, according to applicable law, you must inform the new owner/operator in writing that the vehicle is to be used for competition only.

Noise Emission Control System

TAMPERING WITH THE NOISE CONTROL SYSTEM IS PROHIBITED: State laws prohibit, the following acts or the causing thereof: (1) The removal or rendering inoperative by any person, other than for purposes of maintenance, repair or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use; or (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE FOLLOWING ACTS:

- Removal of, or puncturing the muffler, baffles, header pipes, or any other component which conducts exhaust gases.
- Removal of, or puncturing of any part of the intake system.
- Lack of proper maintenance.
- Removing or disabling any emissions compliance component, or replacing any compliance component with a non-compliant component.

Fuel Permeation Emission Control System

This vehicle complies with the Fuel Permeation Emission Control regulations of the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB).

The fuel tank, fuel hoses, and fuel vapor charge hoses used on this vehicle incorporate fuel permeation control technologies.

Tampering with the fuel tank, fuel hoses, or fuel vapor charge hoses to reduce or defeat the effectiveness of the fuel permeation technologies is prohibited by federal regulations.

Oxygenated Fuels

Some conventional gasolines are being blended with alcohol or an ether compound. These gasolines are collectively referred to as oxygenated fuels. To meet clean air standards, some areas of the United States use oxygenated fuels to help reduce emissions. If you use an oxygenated fuel, be sure it is unleaded and meets the

minimum octane rating requirement.

Before using an oxygenated fuel, try to confirm the fuel's contents. Some states/provinces require this information to be posted on the pump.

The following are percentages of oxygenates for non-road vehicles:

ETHANOL (ethyl or grain alcohol) up to 10% by volume.

You may use gasoline containing up to 10% ethanol by volume. Gasoline containing ethanol may be marketed under the name "Gasohol".

Do not use gasoline containing more than 10% ethanol by volume. The use of gasoline containing a higher percentage (e.g. E15, E20, E85) of ethanol has not been approved for use in this vehicle and may cause starting and/or performance problems and can also damage metal, rubber, and plastic parts of the fuel system and are not be covered by the Distributor's Limited Warranty. Do not use gasoline containing METHANOL (methyl alcohol). Gasoline containing methanol may cause starting and/or performance problems. It may also damage metal, rubber, and plastic parts of your fuel system.

If you notice any undesirable operating symptoms, try another service station or switch to another brand of gasoline.

Fuel system damage or performance problems resulting from the use of an oxygenated fuel containing more than the percentages of oxygenates mentioned above are not covered under warranty.

Oxygenated fuels can damage paint and plastic. Be careful not to spill fuel when filling the fuel tank. Wipe up any spills immediately.

NOTICE

Oxygenated fuels can damage paint and plastic. Damage caused by spilled fuel is not covered by warranty.

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246 Technical Information

This section contains information on your warranty and how to get an official Honda service manual.

Authorized Manuals	248
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Authorized Manuals

The Service Manual used by your authorized dealer is available from your Honda dealer or Helm, Inc.

Also available but not necessary to service your model is the Honda Common Service Manual which explains theory of operation and basic service information for various systems on Honda motorcycles, scooters, ATVs, SxSs and PWCs.

The Winter Storage Guide in conjunction with the Owner's Manual and Service Manual can help you prepare your Honda motorcycle, scooter, ATV, and SxS for winter storage.

These Honda manuals are written for the professional technician, but most mechanically capable owners should find them easy to use if they have the proper tools and observe proper safety standards. Special Honda tools are necessary for some procedures.

Description
2014-2025 Rancher Service Manual
Common Service Manual (61CSM00)
Winter Storage Guide (S9507)
2025 Rancher 4X4 AT IRS Owner's Manual

Order online: www.helminc.com

Order Toll Free: 1-888-CYCLE93 (1-888-292-5393)

(NOTE: For Credit Card Orders Only) Monday - Friday 8:00 AM - 6:00 PM EST Your new Honda is covered by these warranties:

- TRX Limited Warranty
- Emission Control System Warranty

There are responsibilities, restrictions, and exclusions which apply to these warranties. Please read the Warranties Booklet given to you by your Honda dealer at the time of purchase. Be sure to keep your Honda owner's card with your Warranties Booklet.

It is important to realize that your warranty applies to defects in material or workmanship of your Honda. Your warranty coverage does not apply to normal wear or deterioration associated with using the ATV.

Your warranty coverage will not be voided if you choose to perform your own maintenance. However, you should have the proper tools and service information, and be mechanically qualified. Failures that occur due directly to improper maintenance are not covered.

Almost all of your warranty coverage can be extended through the HondaCare[®] Protection Plan. For more information, see your dealer.

Warranty Service

Please remember that recommended maintenance interval servicing is not included in your warranty coverage. Additionally, your warranty does not apply to the normal wear of items (such as brakes, tires, etc.).

If you believe you have a problem with your ATV, call the service department of your dealer. Make an appointment for an inspection and diagnosis. Remember, as the owner of the ATV, you will be asked to authorize that inspection. Your dealer will give you the results of the inspection. If the problem is covered under warranty, your dealer will perform the warranty repairs for you.

If you have questions about warranty coverage or the nature of the repair, it is best to talk to the Service Manager of your dealer.

Sometimes, in spite of the best intentions of all concerned, a misunderstanding may occur. If you aren't satisfied with your dealer's handling of the situation, we suggest you discuss your problem with the appropriate member of the dealership's management team. If the problem has already been reviewed with the Service Manager, Parts Manager, Sales Manager, etc., contact the Owner of the dealership or their designated representative.

Contacting Honda

Your owner's manual was written to cover most of the questions you might ask about your Honda. Any questions not answered in the owner's manual can be answered by your dealer. If your dealer doesn't have the answer right away, they will get it for you.

If you have a difference of opinion with your dealer, please remember that each dealership is independently owned and operated. That's why it's important to work to resolve any differences at the dealership level.

If you wish to contact Honda directly to comment on your experiences with your Honda or with your dealer, please send your comments using one of the following methods:



POST MAIL

Powersports Customer Relations American Honda Motor Co., Inc. 4900 Marconi Drive Alpharetta, GA 30005-8847



PHONE

Telephone: (866) 784-1870



ONLINE CUSTOMER SERVICE

Website: https://powersports.honda.com/contact-us

Contacting Honda

Please include the following information in your letter:

- name, address, and telephone number
- product model, year, and VIN
- date of purchase
- dealer name and address

We will likely ask your dealer to respond, or possibly acknowledge your comments directly.

Once you purchase your new Honda, get familiar with the organization of your Honda dealer so you can utilize the full range of services available.

The service department is there to perform regular maintenance and unexpected repairs. It has the latest available service information from Honda. The service department will also handle warranty inspections and repairs.

The parts department offers Honda Genuine Parts, Pro Honda products, Honda Accessories. The same quality that went into your Honda can be found in Honda Genuine replacement parts. You'll also find comparable quality in the accessories and products available from the parts department.

The sales department offers the HondaCare[®] Protection Plan to extend almost all of your warranty coverage.

Your Honda dealer can inform you about competition and other riding events in your area. You'll also find that your dealer is a source of information about safety training available in your local area.

We're sure you'll be as pleased with the service your Honda dealer continues to provide after the sale as you are with the quality and dependability of your Honda. This page intentionally left blank.

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The following is a brief, but important collection of information you need to know about your Honda. You'll also find space to record important notes.

How To Avoid Costly Repairs

The engine of your Honda can be the most expensive component to repair. Proper maintenance, especially the use of the recommended fluids and filters, prevents premature wear and damage.

Frequent causes of costly repairs are:

- Engine oil insufficient quantity, improper oil.
- Air cleaner dirty, leaking because of improper installation (poor seal).

Record important information on the following page:

Engine No.	
VIN	
Color Label	
Owner's Name	
Address	
City/State	
Phone	
Dealer's Name	
Address	
City/State	
Phone	
Service Mgr.	

Scheduled	Initial: 100 miles (150 km)	
Maintenance	Regular: every 600 miles (1,000 km)	
Pre-ride	Check the following items each time	
Inspection	before you ride (page 57): engine oil,	
	radiator coolant, fuel, tires, drivetrain	
	boots, guards, nuts & bolts, underbody &	
	exhaust system, air cleaner housing drain	
	tube, leaks, loose parts, cables, lights,	
	throttle, brakes, reverse assist lever,	
	switches, steering.	
Fuel/Capacity	unleaded gasoline, pump octane number	
	86 or higher	
	3.88 US gal (14.7 ℓ)	
	reserve:	
	1.29 US gal (4.9 ℓ)	
Engine Oil/	API Service Classification SJ or higher	
Capacity	except oils labeled as energy conserving	
	or resource conserving on the circular API	
	service label, SAE 10W-30, JASO T 903	
	standard MA, Pro Honda GN4 4-stroke oil	
	or equivalent	
	after draining:	
	3.6 US qt (3.4 ℓ)	
	after draining & oil filter change:	
Maximum	3.8 US qt (3.6 ℓ)	
	485 lb (220 kg)	
Weight Capacity	rider, all cargo and accessories	

Tires	Front:	AT24 × 8-12★★	
		MAXXIS M977	
	Rear:	AT24 × 10-11★★	
		MAXXIS M978	
Tire Pressure	Front:	4.4 psi	
(cold)		(30 kPa)	
	Rear:	4.4 psi	
		(30 kPa)	
Spark Plugs	standard:		
	BKR5E-11 (NGK) or		
	K16PR-U11 (DENSO)		
Coolant	ethylene glycol antifreeze (silicate-free)		
	for aluminum engines in 50/50 solution		
	with Pro Honda HP Coolant or an		
	equivalent distilled water		
Fuses	main 1:	30 A	
	main 2:	10 A	
	ES (shift motor):	30 A	
	other:	20 A × 2, 10 A	
	EPS (Electric Power		
	Steering):	40 A	

These symbols are used in Controls & Features section:

SYMBOL	COMPONENT	SEE PAGE
I	ON — ignition switch	34
0	OFF — ignition switch	34
4wd 2wd	2WD/4WD select lever	35
(3)	START button	36
O O	RUN — engine stop switch	36
×	OFF — engine stop switch	36
-Å-	ON — headlight switch	37
•	OFF — headlight switch	37
≣D	HI — headlight dimmer switch	37
≣D	LO — headlight dimmer switch	37
AUTO	automatic shift mode — drive mode select switch	39
ESP	manual shift mode — drive mode select switch	39
\$	upshift switch — gearshift switch	40
∇	downshift switch — gearshift switch	40
PKB	parking brake lock lever	42

WARNING: Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.



