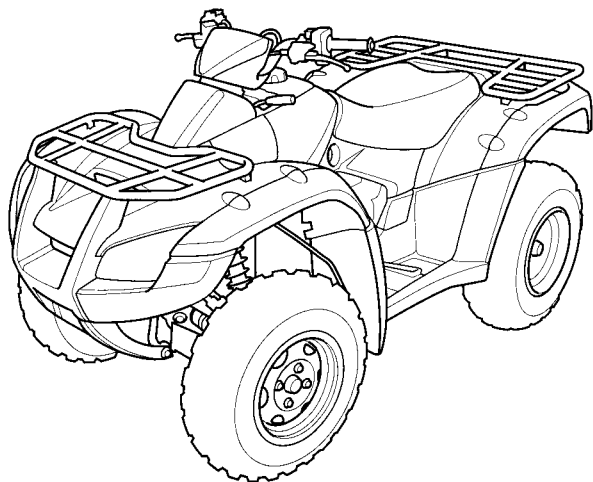


**2005
Honda TRX650FA/FGA
Fourtrax Rincon/with GPScape
OWNER'S MANUAL**



FOR OFF-ROAD USE ONLY

This vehicle is designed and manufactured for off-road use only.
USA 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 California exhaust 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 both an in-depth table of contents 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 255) 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 Honda dealer knows your ATV best and is dedicated to your complete satisfaction.

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

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

Happy riding!

California Proposition 65 Warning

WARNING: This product contains or emits chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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  and one of three signal words: **DANGER**, **WARNING**, or **CAUTION**.

A Few Words About Safety

These signal words mean:

▲ DANGER

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

▲ WARNING

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

▲ CAUTION

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.

ATV Safety	1
Important safety information you should know, plus a look at the safety-related labels on your ATV.	
Instruments & Controls.....	9
The location and function of indicators and controls on your ATV and operating instructions for various controls and features.	
GPScape System (TRX650FGA only)	45
Instructions for use of your ATV Navigation System.	
Before Riding.....	73
The importance of wearing a helmet and other protective gear, how to make sure you and your ATV are ready to ride, and important information about loading.	
Basic Operation & Riding	89
How to start and stop the engine, shift gears, and brake. Also, riding precautions.	

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Servicing Your Honda	125
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	207
How to store and transport your ATV and how to be an environmentally-responsible rider.	
Taking Care of the Unexpected	217
What to do if you have a flat tire, your engine won't start, etc.	
Technical Information	237
ID numbers, technical specifications, and other technical facts.	
Consumer Information	251
Information on warranties, emission controls, how to get Honda service manuals.	
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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.

Important Safety Information	2
Safety Labels.....	5

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 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.

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 74).

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 accidents involve inexperienced or untrained riders, we urge all riders to take a training course approved by the ATV Safety Institute (ASI). See page 76.

Contact an authorized ATV dealer or call 1-800-887-2887 (USA only) 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 off-road. 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 accidents. 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 and Ride

Alcohol and riding don't mix. Even one drink can reduce your ability to respond to changing conditions, and your reaction time gets worse with every additional drink. So don't drink and ride, and don't let your friends drink and ride 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.

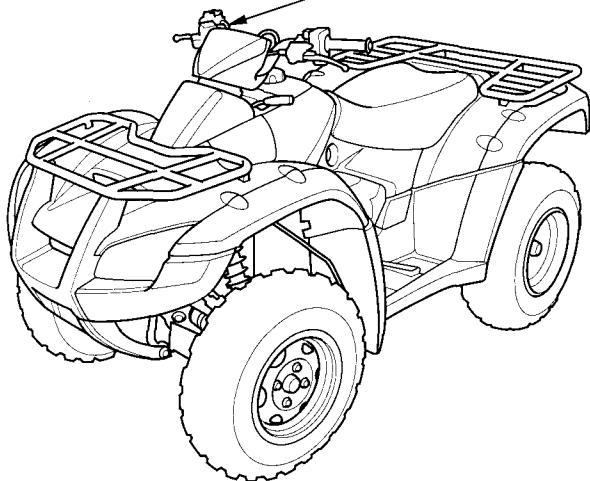
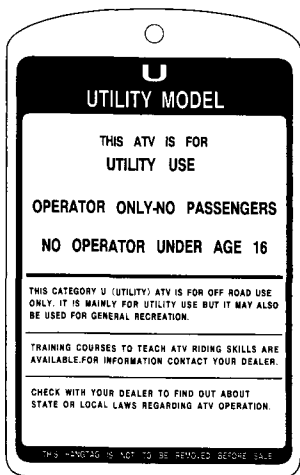
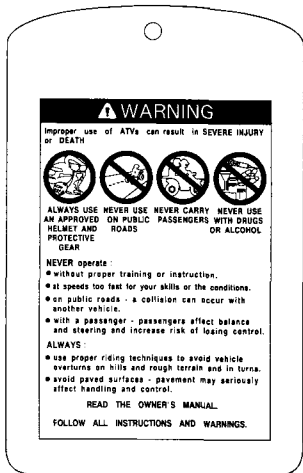
Safety Labels

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.

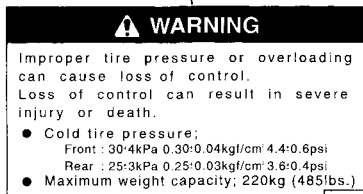
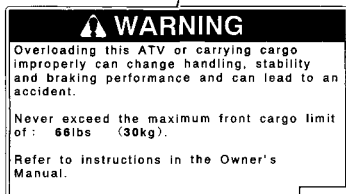
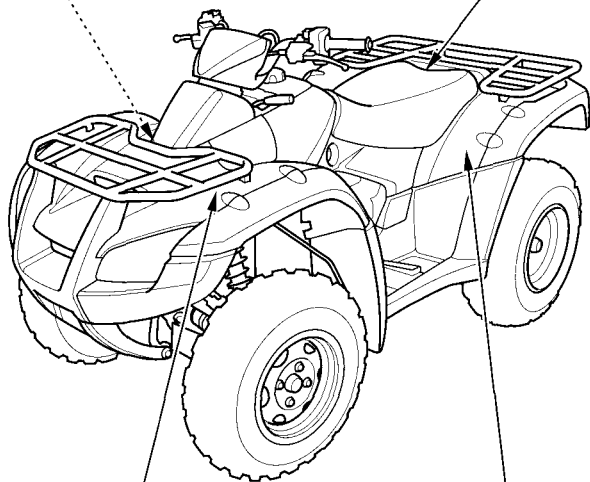
The labels should be considered permanent parts of the vehicle. If a label comes off or becomes hard to read, contact your Honda dealer for replacements.

Safety Labels

USA only



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.

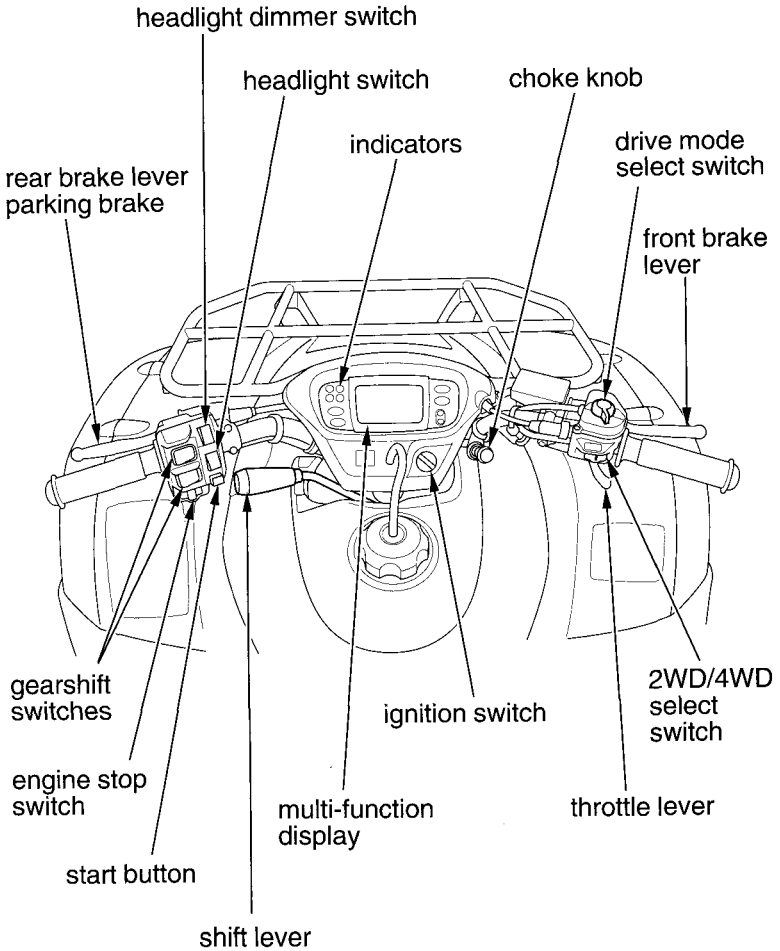
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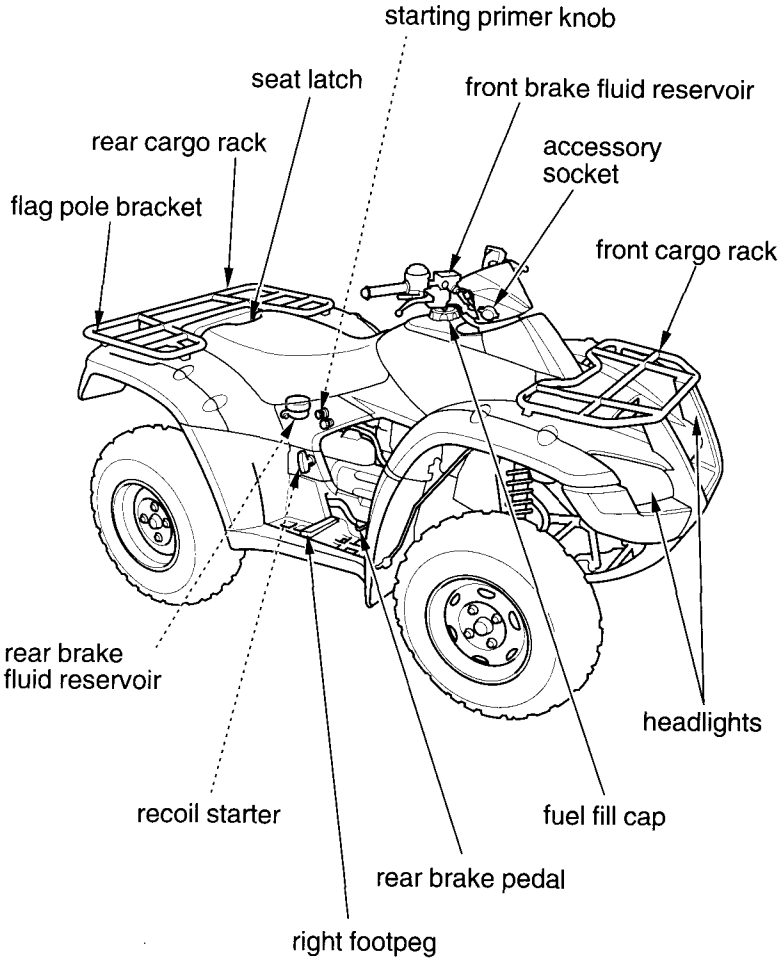
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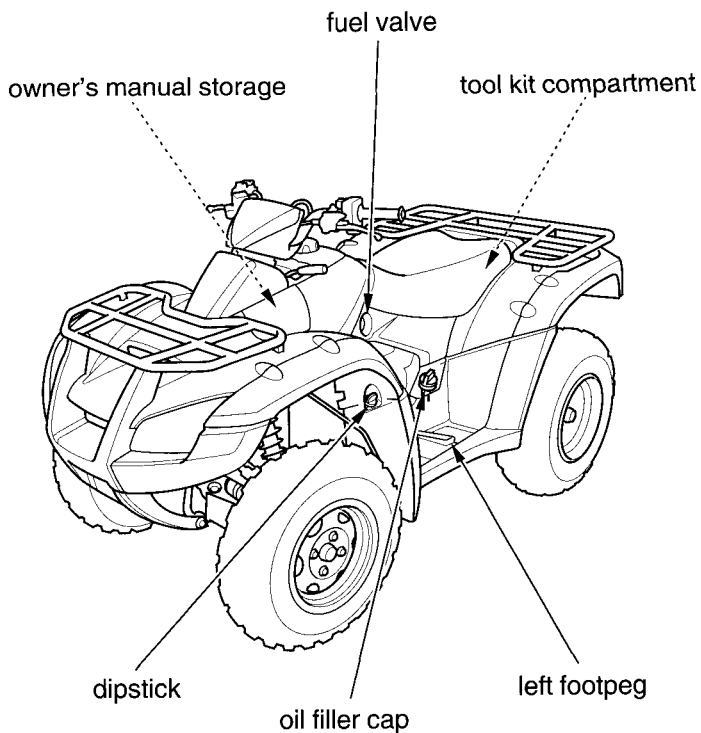
Component Locations



Component Locations



Component Locations

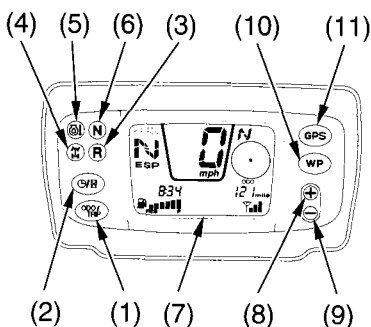
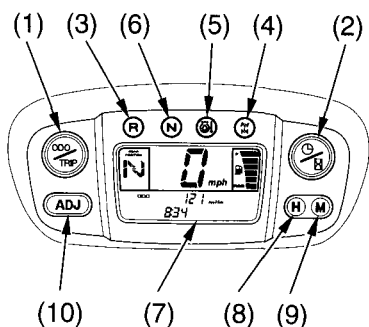


Indicators & Displays

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.

TRX650FA

TRX650FGA



- (1) odometer/tripmeter select button
- (2) hourmeter/digital clock select button
- (3) reverse indicator
- (4) 4WD indicator
- (5) oil/coolant high temperature indicator
- (6) neutral indicator
- (7) multi-function display
- (8) hour select button
plus button (TRX650FGA)
- (9) minute select button
minus button (TRX650FGA)
- (10) adjust button
WP button (TRX650FGA)
- (11) GPS button (TRX650FGA)

Indicators & Displays

Lamp Check

The oil/coolant high temperature indicator comes on when you turn the ignition switch ON (I) so you can check that it is working. The indicator remains on until after the engine is started (TRX 650 FA only). This indicator is identified in the table on page 16 with the words: *Lamp Check*.

When applicable, the reverse or neutral indicators come on when you turn the ignition switch ON (I) and remain on until you shift out of reverse or neutral.

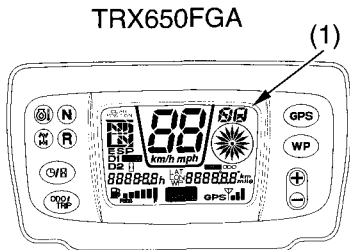
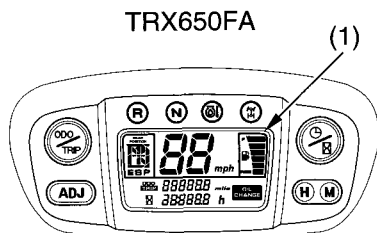
If one of these indicators does not come on when it should, have your Honda dealer check for problems.

Display Check

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

The displays are identified in the table on page 16 with the words: *Display Check*.

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



(1) multi-function display

Indicators & Displays

1	Odometer/tripmeter select button	Selects display of the odometer or tripmeter. Resets the tripmeter to zero (0) (page 23).
2	Hourmeter/digital clock select button	Selects display of the hourmeter or digital clock (pages 24 , 25).
3	Reverse indicator	Lights when the transmission is in reverse.
4	4WD indicator	Lights when the drive mode is in the 4WD mode. The 4WD indicator blinks if there is a possible problem with the 2WD/4WD select system. See your Honda dealer as soon as possible.
5	Oil/coolant high temperature indicator	Lights when engine oil and/or coolant temperature is high enough to adversely affect the service life of the engine. If the oil/coolant high 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 229. <i>Lamp check</i>
6	Neutral indicator	Lights when the transmission is in neutral.

Indicators & Displays

7	Multi-function display	The display includes the following functions. <i>Display Check</i> .
	Drive mode indicator	Shows the driving mode (page 20).
	Gear position indicator	Shows the gear position. (page 21)
	Speedometer	Shows riding speed.
	Fuel gauge	Shows approximate fuel supply available (page 28).
	Oil change indicator	Lights when specified maintenance interval for engine oil change is reached (page 22).
	Odometer	Shows accumulated mileage (page 23).
	Tripmeter	Shows mileage per trip (page 23).
	Hourmeter	Shows hours and tenths of hours of engine operation (page 24).
	Digital clock	Shows the time (hours and minutes) (page 25).

Indicators & Displays

8	Hour select button	Advances the hour displayed by the digital clock (page 25).
	Plus button (TRX650 FGA)	Advances the latitude and longitude when in the GPS mode.
9	Minute select button	Advances the minutes displayed by the digital clock (page 25).
	Minus button (TRX650 FGA)	Advances the latitude and longitude when in the GPS mode.
10	Adjust button	Used to set the digital clock (page 25).
	WP button (TRX650 FGA)	This button is used to input a waypoint or to erase waypoint data.
11	GPS button (TRX650 FGA)	This button is used to select the GPS navigation mode.

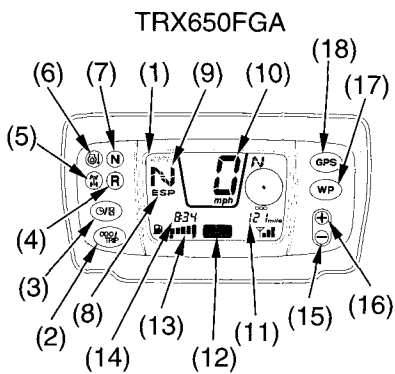
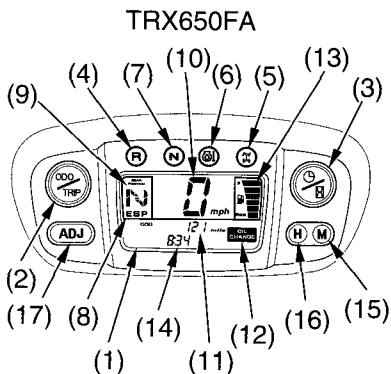
Indicators & Displays

Multi-function Display

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

Drive mode indicator	Speedometer	Digital clock
Gear position indicator	Odometer	Hourmeter
Oil change indicator	Tripmeter	Fuel gauge

The digital clock will reset if the battery is disconnected.



- | | |
|--|--|
| (1) multi-function display | (10) speedometer |
| (2) odometer/tripmeter select button | (11) odometer/tripmeter |
| (3) digital clock/hourmeter select button | (12) oil change indicator |
| (4) reverse indicator | (13) fuel gauge |
| (5) 4WD indicator | (14) hourmeter/digital clock |
| (6) oil/coolant high temperature indicator | (15) minute select button minus button (TRX650FGA) |
| (7) neutral indicator | (16) hour select button plus button (TRX650FGA) |
| (8) drive mode indicator | (17) adjust button WP button (TRX650FGA) |
| (9) gear position indicator | (18) GPS button (TRX650FGA) |

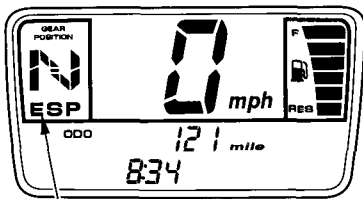
Indicators & Displays

Drive Mode Indicator

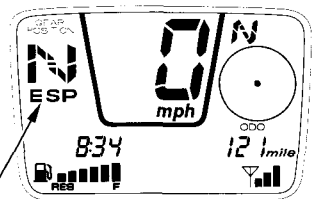
The drive mode indicator (1) shows the selected drive mode when the ignition switch is in the ON (I) position.

The drive mode indicator (1) displays ESP when the manual shift (ESP) mode is selected. The ESP display vanishes when the automatic shift (AUTO) mode is selected

TRX650FA



TRX650FGA



(1) drive mode indicator

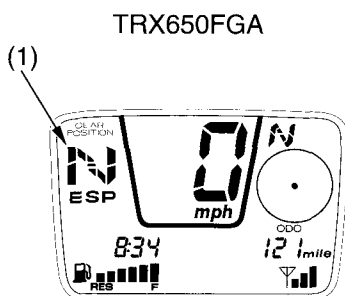
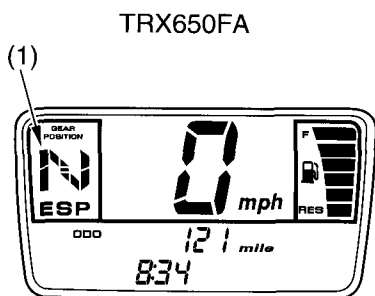
Indicators & Displays

Gear Position Indicator

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

The indicator displays: N for neutral, R for reverse, D for drive, and 1 – 3 for the three forward speed positions in the ESP mode.

“- -” 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 displayed on the gear position indicator properly.



(1) gear position indicator

Indicators & Displays

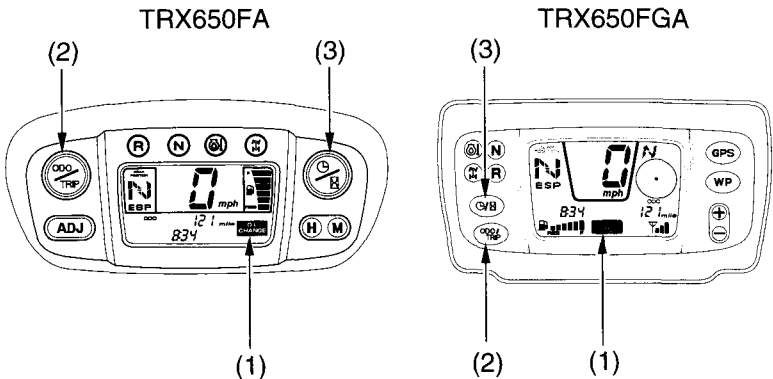
Oil Change Indicator

The oil change indicator (1) appears in the display when the mileage or operating hours on your ATV approaches the oil change interval specified on the maintenance schedule.

Reset the indicator after each oil change.

To reset the indicator, press and hold both the odometer/tripmeter select button (2) and digital clock/hourmeter select button (3) for more than 2 seconds. The indicator will disappear.

If the oil is changed before the oil change indicator appears, be sure to reset the oil change indicator after changing the oil. The indicator will appear for 2 seconds, then disappear. This means the indicator is reset.



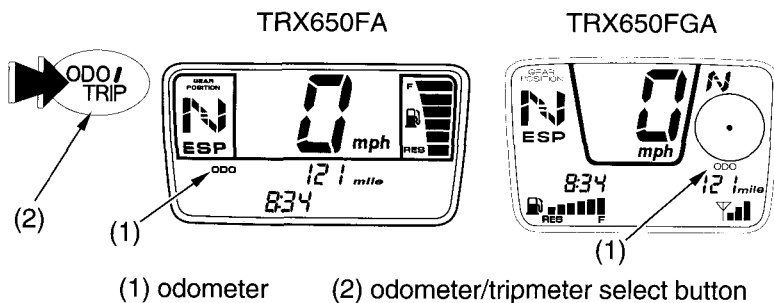
- (1) oil change indicator
- (2) odometer/tripmeter select button

- (3) digital clock/hourmeter select button

Indicators & Displays

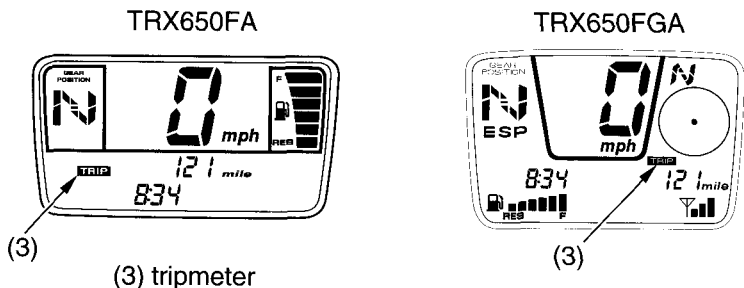
Odometer

When selected, the odometer (1) registers total distance traveled in miles while the ignition is ON (1). To change the display from tripmeter to odometer, press and release the Odometer/Tripmeter select button (2).



Tripmeter

When selected, the tripmeter (3) shows mileage per trip while the ignition is ON (1). To change the display from odometer to tripmeter, press and release the Odometer/Tripmeter select button (2). To reset the tripmeter to zero, press the Odometer/Tripmeter select button and hold it in for at least two seconds.

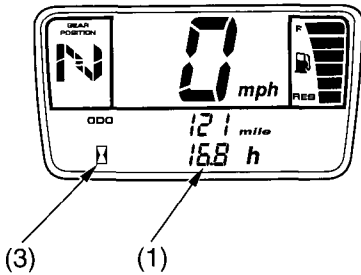


Indicators & Displays

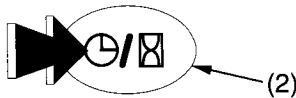
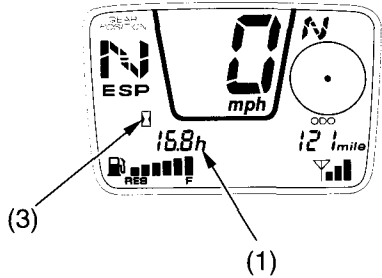
Hourmeter

When selected, the hourmeter (1) shows accumulated hours while the ignition is ON (1). The hourmeter provides accurate service period information for initial and regular maintenance. To change the display from the digital clock to the hourmeter, press and release the hourmeter/digital clock select button (2). The hourmeter mark (3) will appear.

TRX650FA



TRX650FGA



- (1) hourmeter
- (2) hourmeter/digital clock select button

- (3) hourmeter mark

Indicators & Displays

Digital Clock

Shows hour and minute while the ignition is ON (1).

To change the display from hourmeter to digital clock, press and release the hourmeter/digital clock select button (1).

To adjust the time, proceed as follows for TRX650FA :

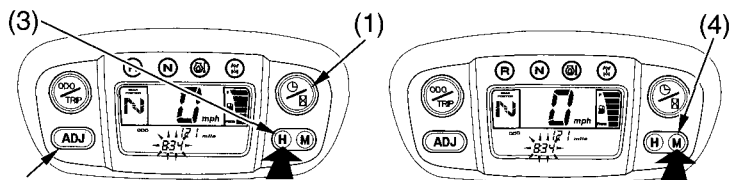
1. Turn the ignition switch ON (1).
2. To select the adjust mode, push the adjust button (2) once.
3. To advance the hour display one unit at a time, press and release the hour select button (3).

To advance the hour display automatically, press and hold the hour select button. After two seconds, the hour display will begin advancing. Release the button when the display reaches the desired hour.

4. To advance the minute display one unit at a time, press and release the minute select button (4).

To advance the minute display automatically, press and hold the minute select button. After two seconds, the minute display will begin advancing. Release the button when the display reaches the desired minute.

5. To zero the minute display, press and hold both the hour and minute buttons simultaneously for two seconds.



- (1) hourmeter/digital clock select button
(2) adjust button

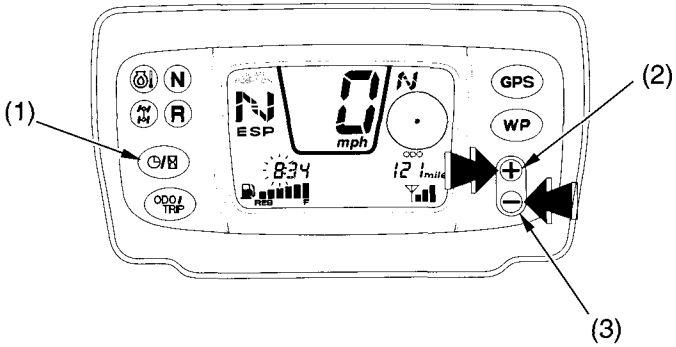
- (3) hour select button
(4) minute select button

Indicators & Displays

To adjust the time manually, proceed as follows for TRX650FAG :

1. Turn the ignition switch ON (1).
2. Press and hold the hourmeter/digital clock select button for more than 2 seconds. The clock will be set in the adjust mode with the display flashing.
3. To advance the hour display one unit at a time, press and release the plus button (2) or minus button (3).

To advance the hour display automatically, press and hold the plus button or minus button. After two seconds, the hour display will begin advancing. Release the button when the display reaches the desired hour.

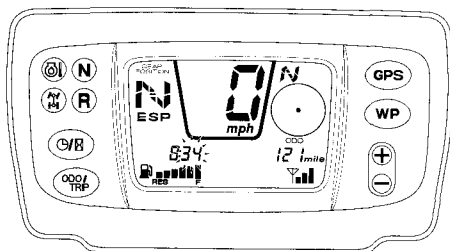


- (1) hourmeter/digital clock
select button
(2) plus button

- (3) minus button

Indicators & Displays

4. Press the hourmeter/digital clock select button when the display reaches the desired hour appears. The minutes display will be flashing.



5. To advance the minute display one unit at a time, press and release the plus button or minus button.
To advance the minute display automatically, press and hold the plus button or minus button. After two seconds, the minute display will begin advancing. Release the button when the display reaches the desired minute.
6. Press the hourmeter/digital clock select button when the display reaches the desired minutes appears. The display will stop flashing.
 - Your ATV's digital clock has an automatic adjustment function whenever the GPS mode is selected and the system's satellite status is 3D Navigation (page 72).

Indicators & Displays

Fuel Gauge

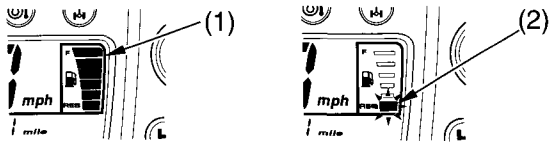
The fuel gauge liquid crystal display (1) shows the approximate fuel supply available. The fuel tank capacity is:

4.49 US gal (17.0 ℓ)

When segment RES (2) flashes, you should refill the tank as soon as possible. The amount of fuel remaining when the flashing starts is approximately:

1.08 US gal (4.1 ℓ)

TRX650FA



TRX650FGA

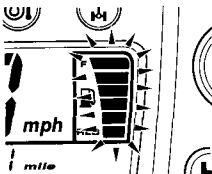


(1) fuel gauge

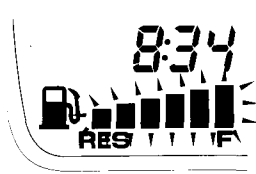
(2) segment RES

All segments will flash, when the fuel gauge function is fails. See your Honda dealer.

TRX650FA



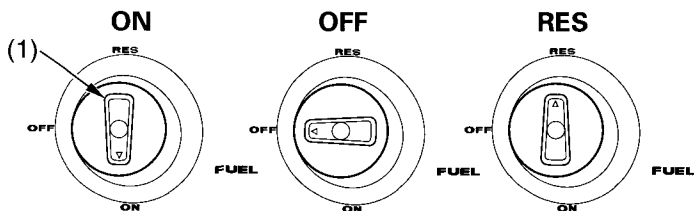
TRX650FGA



Controls & Features

Fuel Valve

LEFT SIDE



(1) fuel valve

The manual fuel valve is located on the left side under the fuel tank.

The three-way fuel valve is used to control the flow of fuel from the fuel tank to the carburetor.

ON – normal position for riding.

OFF – for parking, storing, or transportation.

RES – for extra fuel to get to a gas supply for refueling.

Reserve Fuel

Remember to check that the fuel valve is in the ON position each time you refuel. If the valve is left in the RES position, you may run out of fuel with no reserve.

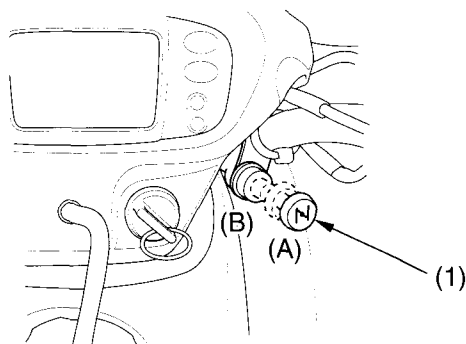
For complete information about fueling your ATV, see page 141.

Controls & Features

Choke Knob



CENTER OF HANDLEBAR



(1) choke knob

(A) fully ON
(B) fully OFF

The choke knob may be used when starting the engine. See page 97 .

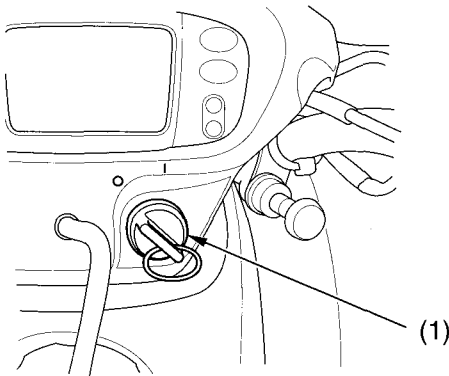
Controls & Features

Ignition Switch

The ignition switch is used for starting and stopping the engine (page 96). Insert the key and turn it to the right for the ON (I) position.

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

CENTER OF HANDLEBAR



(1) ignition switch

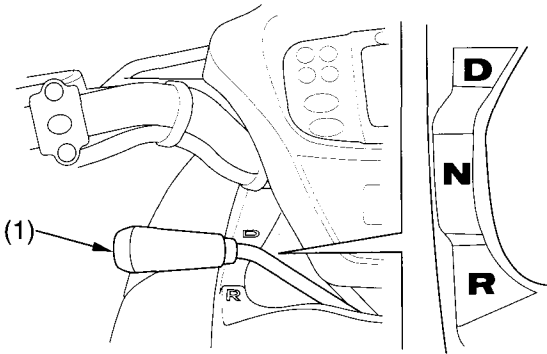
I ON
O OFF

Controls & Features

Shift Lever

The shift lever (1) has three positions: Drive (D), Neutral (N), and Reverse (R).

See *Shifting Gears* (page102) and *Riding in Reverse* (page108).

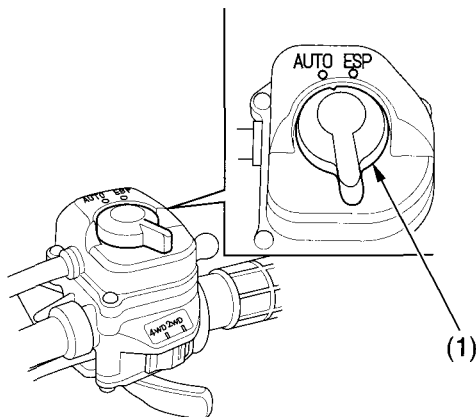


(1) shift lever

Controls & Features

Drive Mode Select Switch

The drive mode select switch (1) has two positions, AUTO and ESP. See *Shifting Gears* page 102.



(1) drive mode select switch

Controls & Features

2WD/4WD Select Switch

Your ATV is equipped with a 2WD/4WD select switch, which permits a choice between the “2WD” and “4WD” drive modes. Select a drive mode that’s suitable for your riding.

The 2WD/4WD select switch (1) is located above the throttle lever. To select the drive mode, slide the 2WD/4WD select switch to the desired position.

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

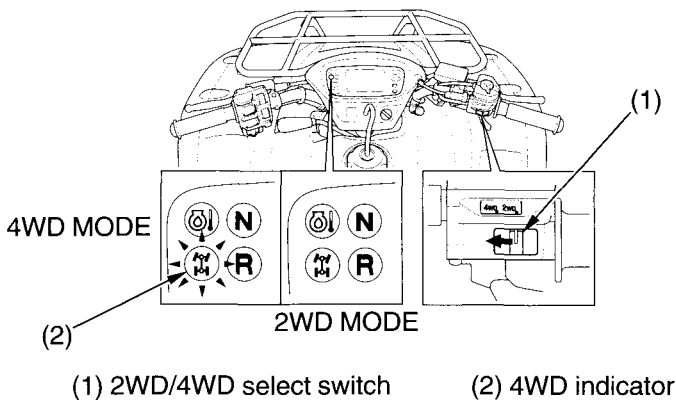
2WD mode : the 4WD indicator goes off.

4WD mode : the 4WD indicator goes on.

4WD can only be engaged while the engine is running.

It remains engaged until the 2WD mode is selected or the engine is stopped.

Upon starting, your ATV will be in the 2WD mode, regardless of the 2WD/4WD select switch position.

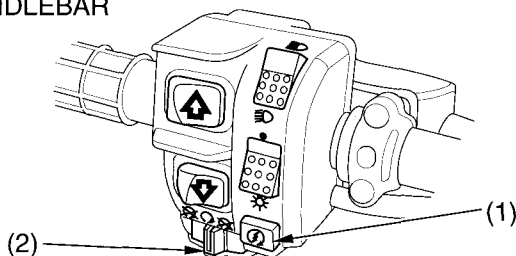


Controls & Features

Start Button



LEFT HANDLEBAR



(1) start button

(2) engine stop switch

⚡ START

⊗ OFF

○ RUN

The start button (1) is used for starting the engine. Pushing the button in starts the engine. See *Starting Procedure*, page 97.

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 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, press the switch to either OFF (⊗) position. The switch must be in the RUN (○) position to start the engine, and it should normally remain in the RUN (○) position even when the engine is OFF (○).

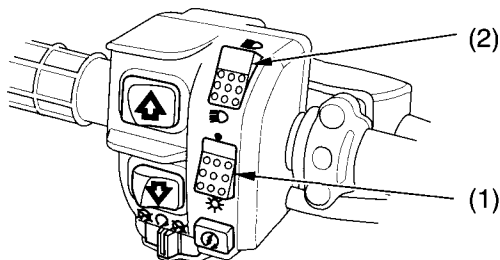
If your ATV is stopped with the ignition switch ON (|) and the engine stop switch OFF (⊗), the battery will discharge. Turn the ignition switch OFF (○) to prevent battery discharge.

Controls & Features

Headlight Switch

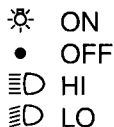


LEFT HANDLEBAR



(1) headlight switch

(2) headlight dimmer switch



The headlight switch (1) is used to turn the headlight ON (☀) or OFF (•). To operate, turn the switch to ON (☀) or OFF (•).

Headlight Dimmer Switch

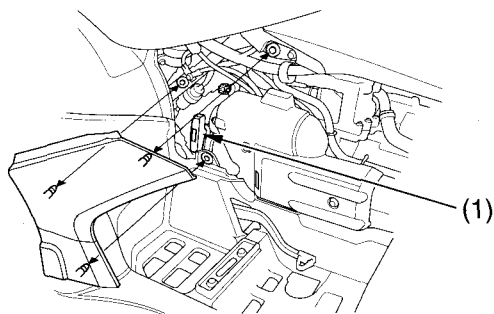


The headlight dimmer switch (2) is used to change between the high and low beams of the headlight. To operate, turn the switch to HI (≡D) for high beam, LO (≡D) for low beam.

Controls & Features

Recoil Starter

RIGHT SIDE

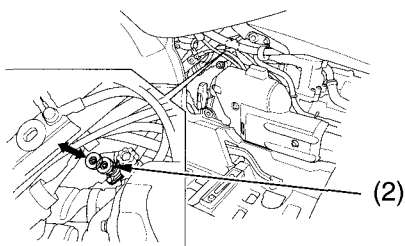


(1) recoil starter

The recoil starter (1) is used to start the engine when the battery is low. See *Using the Recoil Starter*, page 101.

Starting Primer Knob

RIGHT SIDE



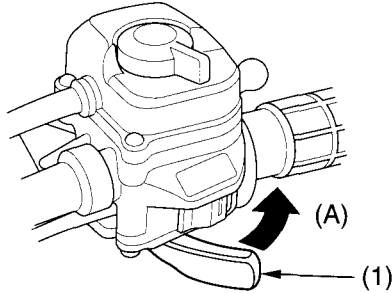
(2) starting primer knob

The starting primer knob (2) is located on the carburetor float bowl. The knob may be used when starting the engine in extremely cold weather (-15°C , 5°F). See *Starting Procedure*, page 97 .

Controls & Features

Throttle Lever

RIGHT HANDLEBAR



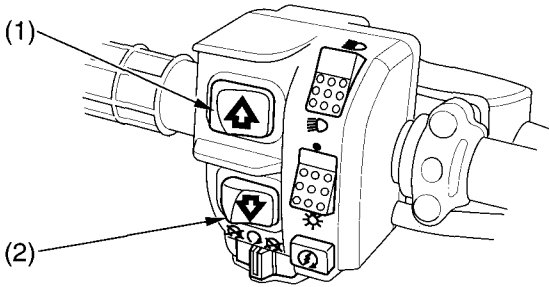
- (1) throttle lever
- (A) to open the throttle

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

Controls & Features

Gearshift Switch

Two gearshift switches are used in the ESP (manual shift) mode. These switches are used to select the next higher or lower gear in the transmission. To operate, press the upshift switch to engage the next higher gear or press the downshift switch to engage the next lower gear. See *Shifting Gears*, page 102.



(1) upshift switch

(2) downshift switch

Controls & Features

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 110.

Rear Brake Lever

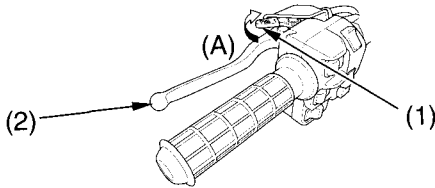
The rear brake lever is used to slow or stop your ATV. To operate, pull the lever. For information on braking techniques, see page 110.

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 110.

Controls & Features

Parking Brake



(1) lock lever

(2) rear brake lever/parking lever (A) to lock

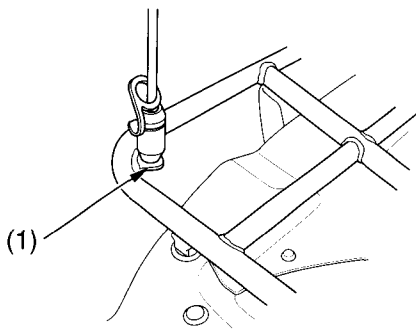
The lock lever (1) on the rear brake lever (2) allows it to be used as a parking brake. To operate, first squeeze the rear brake lever using your left hand and then lock it with the lock lever using your right hand. See *Parking* page 124.

The brakelights are activated by applying the parking brake. When using the parking brake, be sure to turn the ignition switch OFF (○) to avoid discharging the battery.

Controls & Features

Flag Pole Bracket

RIGHT REAR



(1) flag pole bracket

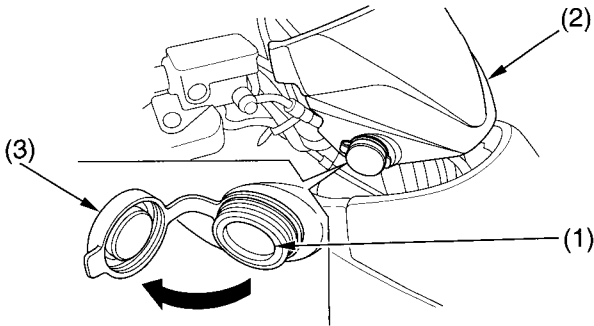
Flag poles are optional equipment available from your Honda dealer. To mount a pole in the bracket (1), follow the instructions that come with the flag pole kit.

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

Controls & Features

Accessory Socket

RIGHT FRONT



(1) accessory socket
(2) meter cover

(3) cap

The accessory socket (1) is attached to the right side of the meter cover (2). You can use the accessory socket to power a trouble light, spotlight, CB radio, or cell phone, etc.

NOTICE

Do not plug in any heat-generating accessory such as an automobile cigarette lighter because it can damage the socket.

To use the accessory socket, turn the ignition switch ON (1) to start the engine. Then turn the headlights OFF, and open the accessory socket cap (3).

(cont'd)

Controls & Features

Be sure the engine is on and the headlights are turned off before using the accessory socket, otherwise you may drain the battery.

The accessory socket's rated capacity is DC 12V, 120 Watts (10A) or less. If you exceed this limit, you may blow a fuse. See *If a Fuse Blows*, page 231 .

When you are done using an accessory, unplug it, and cover the socket with the cap.

Be careful not to flood this accessory socket when washing your ATV.

GPScape System (TRX650FGA only)

This section explains the GPScape navigation system. Instructions for the topics listed on this page are included.

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Basic Waypoint Selection	63
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Compass Direction Indicator.....	70
Automatic Clock Adjustment.....	72

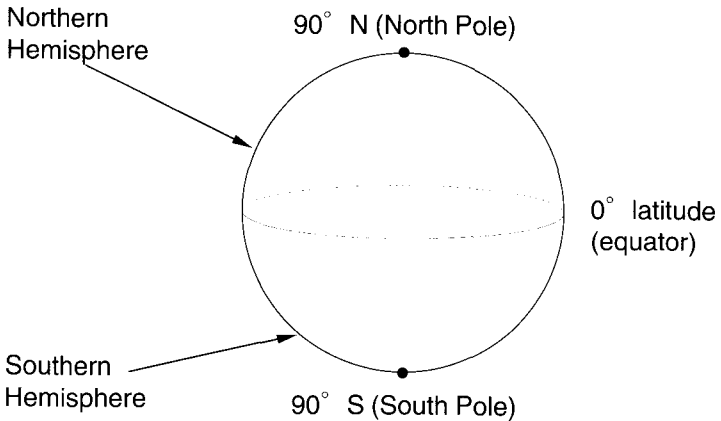
Introduction

Any location on Earth may be described by two positioning coordinates. These two coordinates, measured by degrees, minutes, and seconds, are:

- latitude
- longitude

Latitudes are horizontal circles drawn around the Earth. The zero degree latitude (the equator) divides the globe into the Northern and Southern hemispheres.

LATITUDE

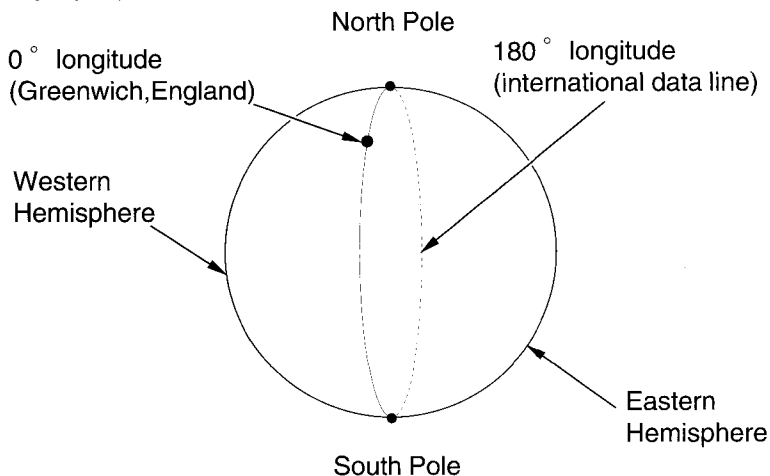


Each circle contains 360° (degree)
Each degree contains 60' (minutes)
Each minute contains 60'' (seconds)

Introduction

Longitudes, also called meridians, are vertical circles extended from the North Pole to the South Pole. The zero degree longitude, which passes through Greenwich, England, divides the Earth into the Eastern and Western hemispheres. The 180 degree longitude, half way around the planet, is the international date line.

LONGITUDE



Each longitude 69 miles wide
Each time zone equals 15° longitude

Introduction

Your ATV GPScape System receives signals from the Global Positioning System (GPS), a U.S. government network that orbits the Earth, then uses those signals to calculate your current position as well as the distance and direction to other locations (destinations).

In addition to latitude and longitude, GPScape also calculates altitude (above sea level).

The primary uses of your GPScape System are:

- making your current location for future use as a waypoint (navigating position)
- inputting the latitude and longitude of a destination as a waypoint
- using the system to guide you to a waypoint

We're sure you'll enjoy using your GPScape System. It is an excellent navigation aid, but successful navigation also requires your careful attention to the terrain you are riding and your good judgment.

Important Safety Information

The GPScope System is designed to provide information to help you reach selected destinations. While this system provides the direction and distance to a destination, it does not provide an actual path. You must use your own observation of the terrain and good judgment in choosing a safe path to reach the destination.

Also, be aware that the system can distract your attention from operating your ATV if you focus too much on the display or operate the system's controls while riding. Do not look at the display unless you decide you can do so safely.

WARNING

Using the GPScope System while you are riding can take your attention away from the terrain, causing a crash in which you could be seriously injured or killed.

- Do not look at the display for more than a second or so at a time while riding.
- Stop your ATV if you need more time to look at the display or operate the system controls.

System Limitations

Your GPScape System uses signals from the Global Positioning System operated by the U.S. Department of Defense. For security reasons, certain inaccuracies are built into GPS that your navigation system must constantly compensate for. This can cause occasional positioning errors of up to several hundred feet.

Since GPScape receives information from satellites orbiting the Earth, your system's receiver requires a relatively unobstructed view of the sky. Obstructions that will limit your system's sky view include (but are not limited to) buildings, canopies, heavy rain or snow, or tree foliage.

System Start-up

Position Fix

The GPScape System uses satellite information to compute your present position (called a position fix).

Depending on the elapsed time since the ignition was last switched OFF (\circ), there are three approximate response times for the system to acquire your position fix.

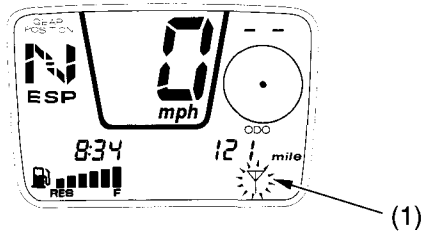
Time Elapsed Since Ignition Switched OFF	Approximate Time for System to Acquire Position Fix After Turning Ignition ON
less than 2 hours	25 seconds
more than 2 hours, less than a month	2 minutes
more than a month	8 minutes

If your ATV is transported with the ignition switch OFF (\circ) for over 60 miles (100 km) or if your ATV is not started for at least three months, we recommend that you reset your system by following the procedure on the following page, *System Failure to Display a position Fix*.

System Start-up

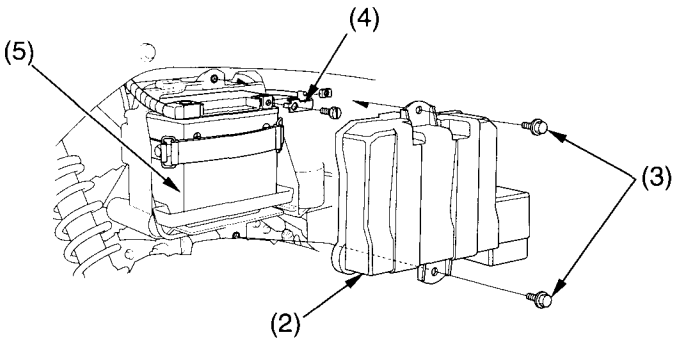
System Failure to Display a Position Fix

If the receiver does not get a position fix within about 8 minutes (flashing antenna mark (1) as shown in the illustration), make sure there are no overhead obstructions (building, trees, canopy, etc.) and then perform the following:



(1) antenna mark

1. Turn the ignition switch OFF (○).
2. Remove the battery cover (2) by removing the bolts (3).
3. Disconnect the negative (–) terminal lead (4) from the battery (5) and wait for 1 minute.



(2) battery cover
(3) bolts



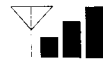
(4) negative (–) terminal lead
(5) battery

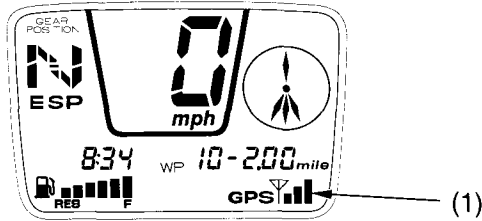
System Start-up

4. Reconnect the negative (–) terminal lead and install in the reverse order of removal.
 - If you can not obtain a position fix after performing this procedure, see your Honda dealer.

Satellite Status

The satellite status indicates the amount of information received from GPS satellites in one of three possible categories:

Display	Status	
	Not Usable	The system is signaling (flashing antenna mark) that your position fix is not available.
	2D Navigation	The system has determined latitude and longitude, but is unable to determine altitude. 2D Navigation is not as accurate as 3D Navigation.
	3D Navigation	The system has determined latitude, longitude, and altitude. The receiver is ready to provide navigational information.

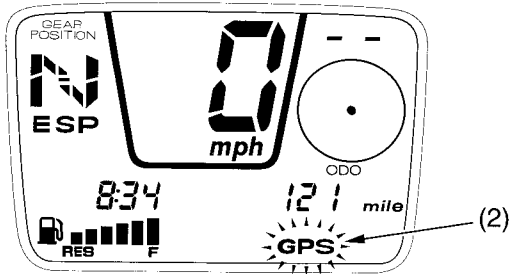


(1) satellite status (signal strength indicator)

- If there are large obstacles nearby or overhead, move to a new location with a clear view of the sky.

Satellite Status

If the GPS mark (2) blinks as shown in the illustration.
See your Honda dealer to check and restore the GPScape System.



(2) GPS mark

GPS Mode

A waypoint is a geographical position (location) on the surface of the Earth. GPScape allows you to log up to 100 positions as navigational waypoints. You may then use GPScape to show you the direction of any selected waypoint, and how far you are from that waypoint via straight-line travel.

You may mark such waypoints as home, base camp, your favorite riding, fishing, or hunting spots, as well as locations of wildlife sightings. Because you have 100 waypoints available, you may mark several intersections or landmarks as waypoints during a trail ride.

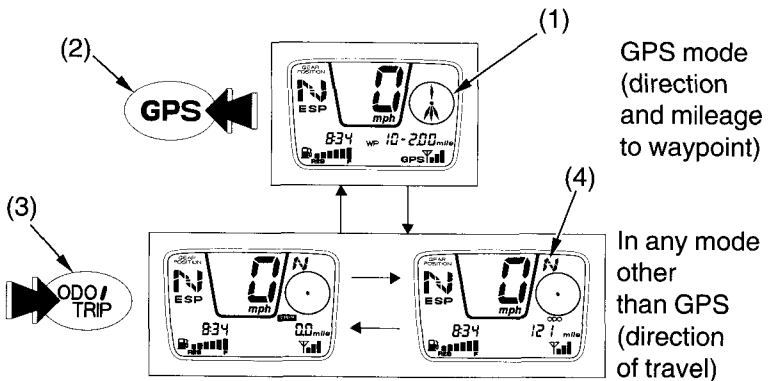
GPS Mode

The GPS mode (1) shows the shortest distance to your selected waypoint. And, when your ATV is moving (one mph or faster), the GPS mode also displays an electronic arrow to indicate the direction to the selected waypoint.

Push the GPS button (2) to switch between the GPS mode and the other two modes: odometer and tripmeter.

To change the display to odometer or tripmeter, press and release the odometer/tripmeter select button (3) while the display is in the GPS mode. The display will change to the previous display mode (odometer or tripmeter).

Any time you are not in the GPS mode, the compass direction indicator (4) will function while your ATV is moving (one mph or faster) (page 70).




- (1) GPS mode
- (2) GPS button

- (3) odometer/tripmeter select button
- (4) compass direction indicator

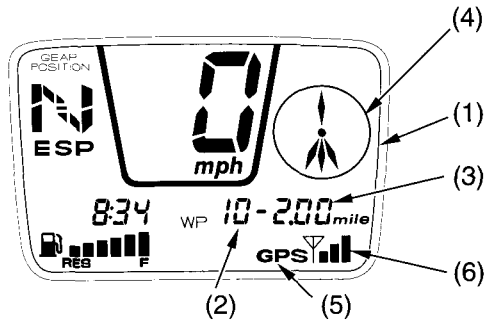
GPS Mode

GPS Mode Display

The GPS mode display (1) includes the following functions:

GPS Function	Digital Readout
waypoint number (2)	0 – 99
distance to waypoint (3)	“- - -” (3 digits for miles, and if applicable, tenths and hundredths, with a floating decimal)
direction to waypoint (4)	

The GPS mark (5) appears in the display while the GPS mode is selected. The signal strength indicator (6) appears as long as the GPS signal is active.



(1) GPS mode display

(2) waypoint number

(3) distance to waypoint

(4) direction to waypoint

(5) GPS mark

(6) signal strength indicator

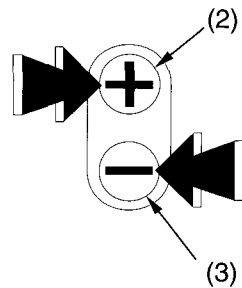
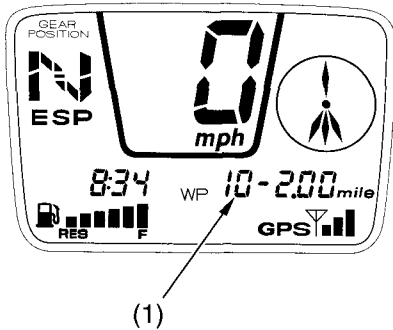
GPS Mode

Waypoint Number Display

A waypoint number appears in the display when the GPS mode is selected. You can store up to 100 waypoints, numbered from 0-99. To mark a waypoint, see page 63.

To select a waypoint number:

- To select a higher waypoint number, press and release the plus button (2).
- To select a lower waypoint number, press and release the minus button (3).
- To fast scroll: press and hold the plus or minus button until the desired waypoint number appears.



(1) waypoint number
(2) plus button

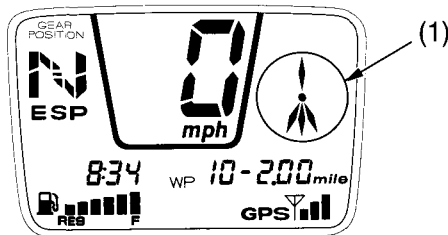
(3) minus button

GPS Mode

Direction to Waypoint Display

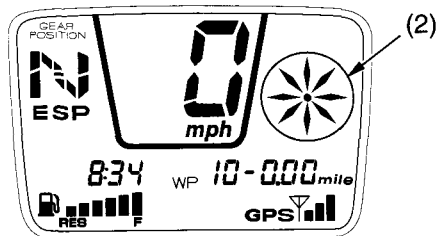
The direction to waypoint display (1) uses an electronic arrow to point to your destination. The display has 16 possible directions.

While operating in reverse, GPS will continue to direct you as if your ATV is still moving in a forward direction. However, the system will calculate an accurate distance and display a directional arrow to the selected waypoint.



(1) direction to waypoint

When your ATV approaches within about 16 feet of the waypoint, the direction to waypoint display will change from a directional arrow to an eight-point star (2) as shown in the illustration.

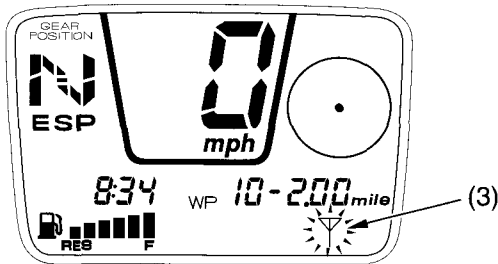


(2) eight-point star

GPS Mode

If the receiver loses a position fix (because of a large obstacle nearby or overhead), the direction to waypoint display will disappear as shown in the illustration and the antenna mark (3) will flash.

- The distance to waypoint display will continue to display the last value shown before the loss of the position fix.



(3) antenna mark

If the receiver reacquires a position fix, the direction to waypoint display will appear as shown in the illustration.

