



OWNER'S MANUAL

READ THIS MANUAL CAREFULLY,
IT CONTAINS IMPORTANT SAFETY INFORMATION.



MINIMUM RECOMMENDED OPERATOR AGE: 16

05

**TRX350FM
FOURTRAX
350 4x4**

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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 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.

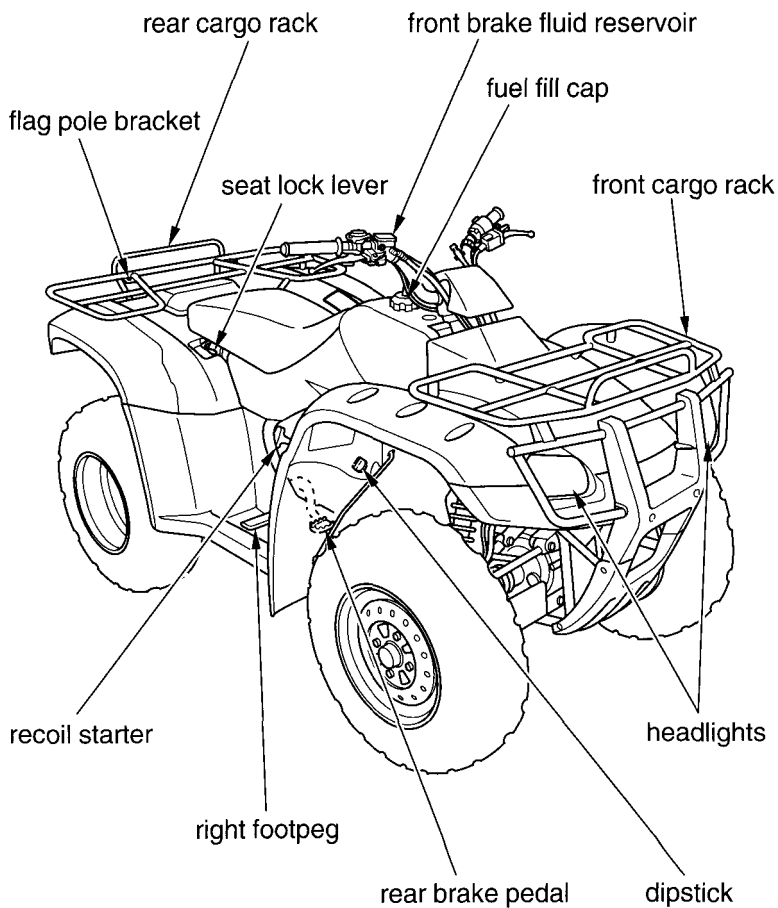
Always Wear a Helmet

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 38).

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.

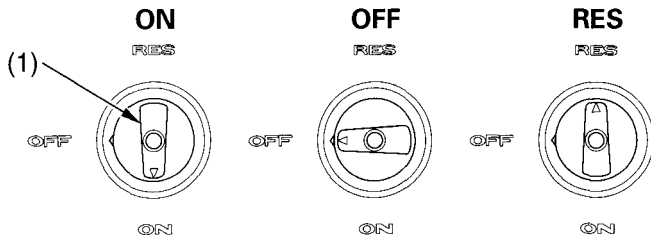
Component Locations



Controls & Features

Fuel Valve

LEFT SIDE



(1) fuel valve

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

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

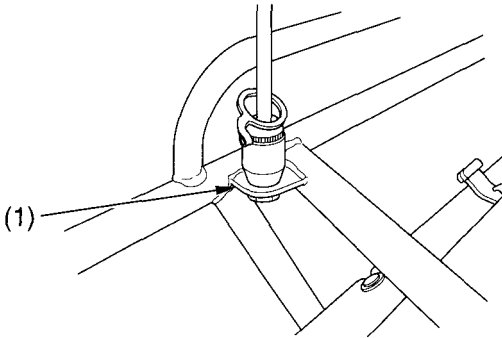
Remember to check that the fuel valve is in the ON position each time you refuel. If the valve is left in the RES position, you may run out of fuel with no reserve.

For complete information about fueling your ATV, see page 101.

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.

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.

WARNING

Operating this ATV after consuming alcohol or drugs can seriously affect your judgement, 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.

Basic Operation & Riding

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Starting & Stopping the Engine

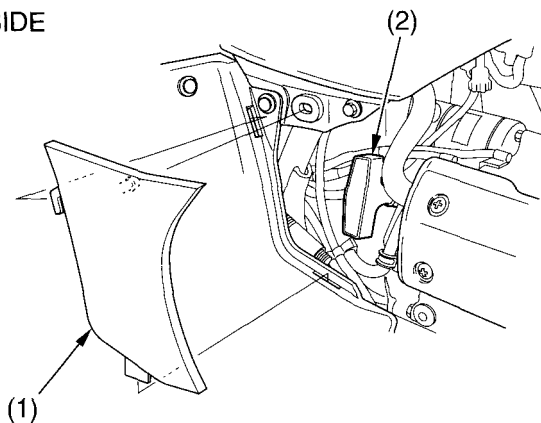
Using the Recoil Starter

The recoil starter is used to start the engine when the battery is low. To operate the recoil starter:

1. Unsnap and remove the right side cover (1).
2. Grasp the starter grip (2) firmly, then pull it out slowly approximately 4 in (100 mm).
3. Pull the grip up briskly and fully.
4. After the engine starts, allow the starter grip to return slowly.

If the starter grip does not return smoothly (because of dirt in the assembly), see your Honda dealer.

RIGHT SIDE



(1) right side cover

(2) recoil starter grip

Riding Your ATV

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.

WARNING

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.

WARNING

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.

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 181 .

Before You Service Your Honda

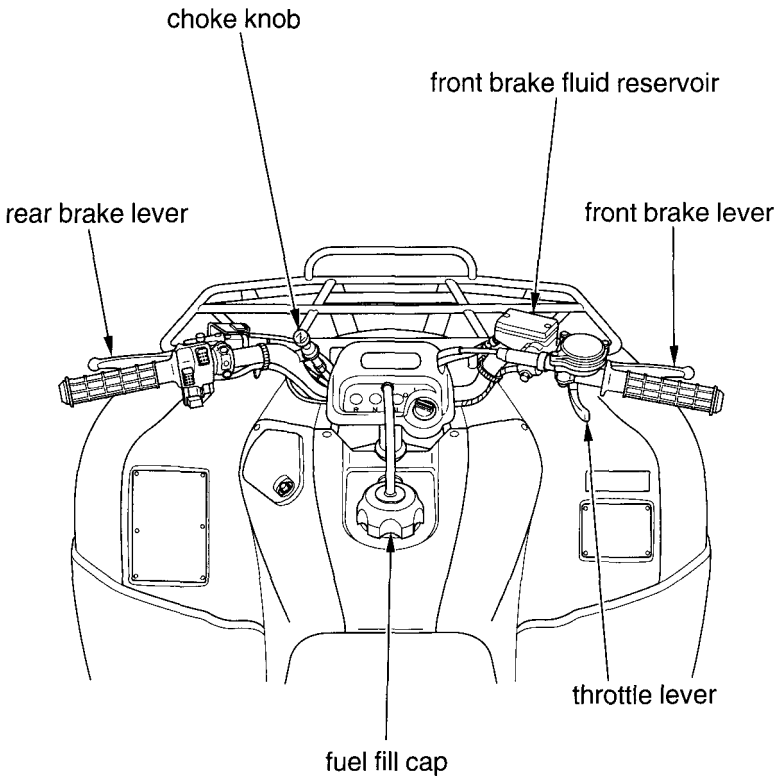
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(cont'd)

Component Locations



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 104) 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 90. When running in very dusty conditions, oil changes should be performed more frequently than specified in the maintenance schedule.

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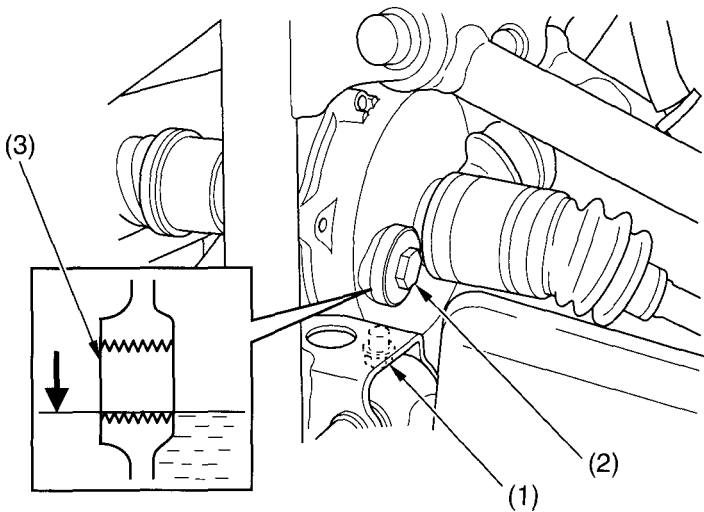


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Differential Oil

1. Park the ATV on level ground.
2. Place an oil drain pan under the oil drain plug (1).
3. Remove the oil filler cap (2) and the drain plug.
4. After the oil has completely drained, reinstall the drain plug and tighten it to the specified torque:
9 lbf·ft (12 N·m , 1.2 kgf·m)
5. Fill the differential with the recommended oil.
8.2 US oz (241 cm³)
Make sure the oil level is at the lower edge of the oil filler inspection hole (3).
6. Install the oil filler cap.



(1) oil drain plug
(2) oil filler cap

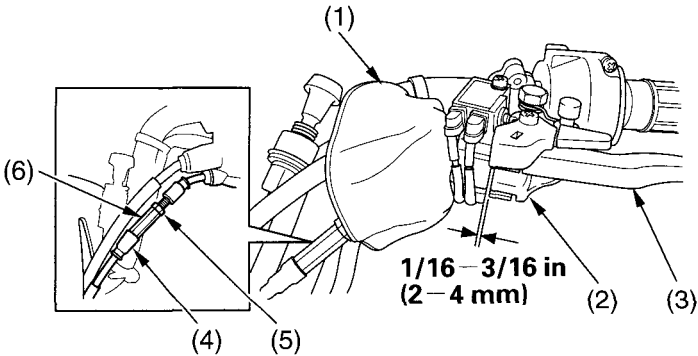
(3) oil filler inspection hole

Clutch System

Reverse Lock System Adjustment

Refer to *Safety Precautions* on page 87.

LEFT HANDLEBAR



- | | |
|--------------------------|-------------------|
| (1) dust cover | (4) rubber sleeve |
| (2) reverse assist lever | (5) lock nut |
| (3) rear brake lever | (6) adjusting nut |

1. Turn over the dust cover (1).
2. Check the reverse assist lever (2) freeplay, measured at the rear brake lever (3) end near the cable:
1/16 - 3/16 in (2 - 4 mm)
3. To adjust, slide the rubber sleeve (4), loosen the lock nut (5) and turn the adjusting nut (6).
After adjustment, tighten the lock nut securely.
4. Return the dust cover and rubber sleeve.

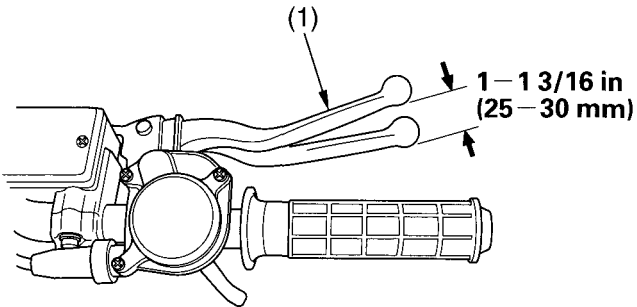
Other Checks

Check the reverse assist lever and cable for loose connections or other damage. If the cable is worn or kinked, have it replaced by your Honda dealer.

Brakes

Front Brake Lever Freeplay & Shoe Lining Clearance

RIGHT HANDLEBAR



(1) front brake lever

1. Measure the distance the brake lever moves before the brakes start to take hold. Freeplay, measured at the tip of the front brake lever (1) should be:
1 - 1 3/16 in (25 - 30 mm)

(cont'd)

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

WARNING

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.

Battery Storage

Refer to *Safety Precautions* on page 87.

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 (trickle) charging it every 30 days (see *Battery Charging*, page 156).

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

WARNING

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.

Preparing for a Ride

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 47).

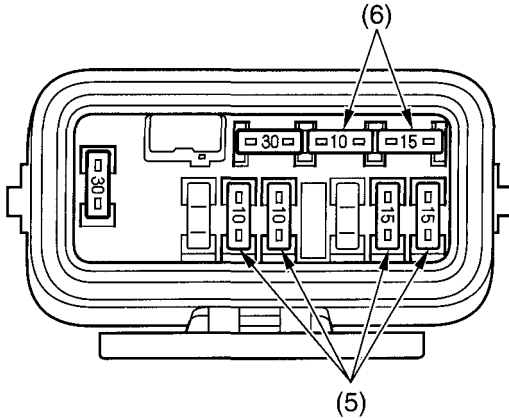
Taking Care of the Unexpected

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 a Fuse Blows



(5) circuit fuses

(6) spare fuses

Circuit Fuse Access

6. To check or replace a circuit fuse (5), pull the old fuse out of its retaining clips.

If the fuse is blown, replace it with a spare fuse (6) of the same rating or lower.

7. Install the fuse box cover.

8. Install the rear fender lid.

9. Install the seat.

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.

Specifications

Chassis & Suspension	
caster	4.0°
trail	0.7 in (17 mm)
tire size, front	AT24 × 8-12 ★★
tire size, rear	AT24 × 9-11 ★★
tire pressure, front & rear (cold)	3.6 psi (25 kPa , 0.25 kgf/cm ²)
maximum tire pressure, front & rear (cold)	4.0 psi (28 kPa , 0.28 kgf/cm ²)
minimum tire pressure, front & rear (cold)	3.2 psi (22 kPa , 0.22 kgf/cm ²)

Electrical	
battery	12 V – 12 Ah
generator	0.245 kW/5,000 rpm

Lights	
headlight	12 V 30/30 W × 2
brake/tail light	12 V 21/5 W × 2
neutral indicator	12 V 1.7 W USA LED Canada
reverse indicator	12 V 1.7 W USA LED Canada
oil high temperature indicator	12 V 1.7 W USA LED Canada

Authorized Manuals

The Service Manual used by your authorized Honda dealer is available from Helm, Inc. (USA only, Canada: See your Honda dealer to order authorized manuals.)

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 common to all Honda motorcycles, motor scooters and ATVs.

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.

Publication Item No.	Description	Price Each*
61HN405	2005 TRX350TM/TE/FM/FE Service Manual	\$48.00
61CM002	Common Service Manual	\$48.00
31HN5650	2005 TRX350FM Owner's Manual	\$16.00

** Prices are subject to change without notice and without incurring obligation.*

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