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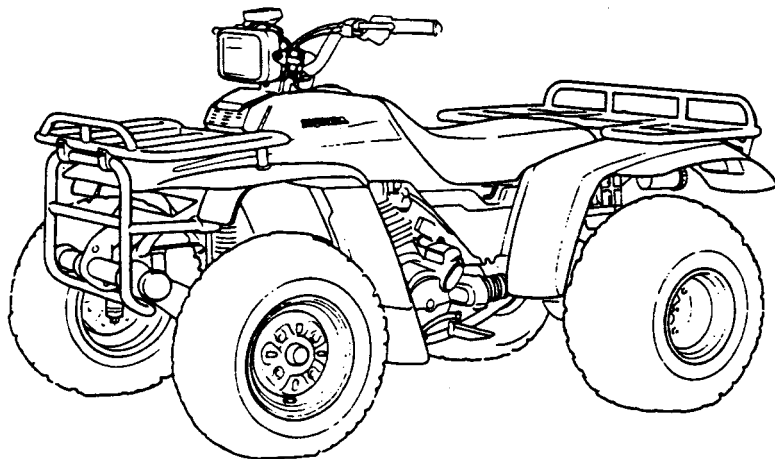
Owner's Manual



TRX250

**HONDA TRX 250
FOURTRAX 250
OWNER'S MANUAL**

1987



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//////////////////// PREFACE //////////////////////

This booklet is your guide to the basic operation and proper maintenance of your new Honda FOURTRAX 250. Please take the time to read it carefully. Details necessary for riding the Honda FOURTRAX are given to acquaint the new owner with special riding techniques to be learned. When service is required, remember that your Honda dealer knows your vehicle best. If you have the required mechanical "know-how" and tools, your dealer can supply you with an official Honda Service Manual to help you perform many maintenance and repair tasks.

Thank you for selecting a Honda. We wish you continued riding pleasure in the miles ahead.

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///////////////////////FOURTRAX SAFETY///////////////////////

Read these WARNING INFORMATION before you ride!

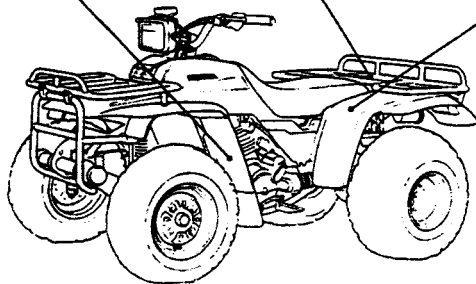
▲ WARNING

- OPERATOR USE ONLY. PASSENGERS PROHIBITED.
- ADULT SUPERVISION AND INSTRUCTION IS REQUIRED. NOT RECOMMENDED FOR CHILDREN UNDER 14.
- THIS VEHICLE IS DESIGNED AND MANUFACTURED FOR OFF-ROAD USE ONLY. OPERATION ON PUBLIC STREETS, ROADS OR HIGHWAYS IS ILLEGAL.
- ALWAYS WEAR A HELMET AND OTHER PROTECTIVE EQUIPMENT.
- DO NOT OPERATE THIS VEHICLE AFTER CONSUMING ALCOHOL OR DRUGS.
- GASOLINE IS FLAMMABLE. SHUT OFF ENGINE, AVOID SPARKS AND OPEN FLAME WHEN REFUELING.
- READ OWNER'S MANUAL CAREFULLY BEFORE RIDING. KEEP OWNER'S MANUAL WITH VEHICLE.

▲ WARNING
OPERATOR ONLY
NO PASSENGERS

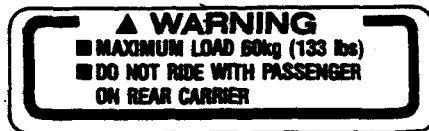
▲ WARNING

- COLD TIRE PRESSURE:
FRONT: 2.9 ± 0.4 psi 0.20 ± 0.03 kg/cm²
REAR: 2.2 ± 0.4 psi 0.15 ± 0.03 kg/cm²
- USE ONLY TIRES SPECIFIED IN OWNER'S MANUAL.
- MAXIMUM LOAD CAPACITY: 210 kg (460 lbs)
- OVERLOADING CAN ADVERSELY AFFECT VEHICLE HANDLING.



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WARNING

- * *FOURTRAX riding requires special efforts on your part to ensure your safety. Know these requirements before you ride.*
- * *Avoid riding on paved surfaces as handling can be seriously affected. If it is necessary, ride at reduced speeds and avoid sudden turns.*

SAFE RIDING RULES

- * Always make a pre-ride inspection (page 29) before you ride the FOURTRAX. You may prevent an accident or equipment damage.
- * Always obey local off-road riding laws and regulations.
- * Obtain permission to ride on private property. Avoid posted areas and obey "no trespassing" signs.
- * Do not ride fast on unfamiliar terrain or when visibility is limited. Before riding in a new area, check the terrain thoroughly. Never ride headlong past your limit of visibility. It is sometimes impossible to see obstructions, holes and depressions. Always exercise caution.
- * Your ability to operate the FOURTRAX safely is largely dependent upon your proper judgement.
- * Do not use the flag pole bracket as a trailer hitch.
- * Maintain a safe distance between your FOURTRAX and other off-road vehicles.
- * Do not ride on or near railroad tracks as it is difficult to hear an approaching train.

- * When you select reverse gear, make sure there are no obstacles or people behind you. When it is safe to proceed, ride slowly.
- * Alcohol, drugs and FOURTRAXs don't mix. Even the smallest amount of alcohol can impair your ability to operate your FOURTRAX safely. Likewise, drugs, even if prescribed by a physician, can be dangerous while operating a FOURTRAX. Consult your doctor to be sure it is safe to operate a motor vehicle after taking medication.

PROTECTIVE APPAREL

- * Always wear a helmet. You should also wear a face shield or goggles, boots, gloves and protective clothing.
- * The exhaust system becomes very hot during operation and it remains hot after operation. Never touch any part of the hot exhaust system. Wear clothing that fully covers your legs.

MODIFICATIONS

- * Modification of the FOURTRAX, or removal of original equipment, may render the vehicle unsafe or illegal.
- * Spark arresters and mufflers are required in most areas. Don't modify your exhaust system. Remember that excessive noise bothers everyone and creates a bad image for off-road vehicles.

POST-RIDE CLEANING AND INSPECTION

To ensure safe handling and braking efficiency, thoroughly clean the entire vehicle after riding, and then carefully check the brake system, steering system, suspension system, tires and underside of the vehicle. Replace or repair any part that is damaged. Also, carefully inspect the exhaust system; replace or repair the exhaust system if necessary.

LOADING AND ACCESSORIES

WARNING

- * *To prevent an accident, use extreme care when riding with accessories and cargo. Addition of accessories and cargo can reduce the FOURTRAX stability, performance, and safe operating speed. Slow down (10 mph or less) when loaded with cargo or pulling a trailer.*

The combined weight of the rider, cargo, and all accessories must not exceed 210 kg (460 lbs) which is the vehicle capacity load.

The following loading and towing capacity data is valid only when the riding terrain is level and flat. For different riding terrains, you must exercise your own judgement to load and ride the FOURTRAX safely. Never exceed the loading capacities given here.

1. Load cargo on the rear carrier as far forward as possible. Do not allow cargo to extend beyond the end of rear carrier.

Front carrier	30 kg (66 lbs)
Rear carrier	60 kg (133 lbs)

2. When towing a trailer, care should be taken to maintain balance and stability. Place cargo in the trailer so that it will not cause the front wheels to lift off the ground during travel.

Tow weight **383 kg (850 lbs)**

(Trailer plus cargo weight)

Tongue weight **14 kg (30 lbs)**

(Weight on hitch point)

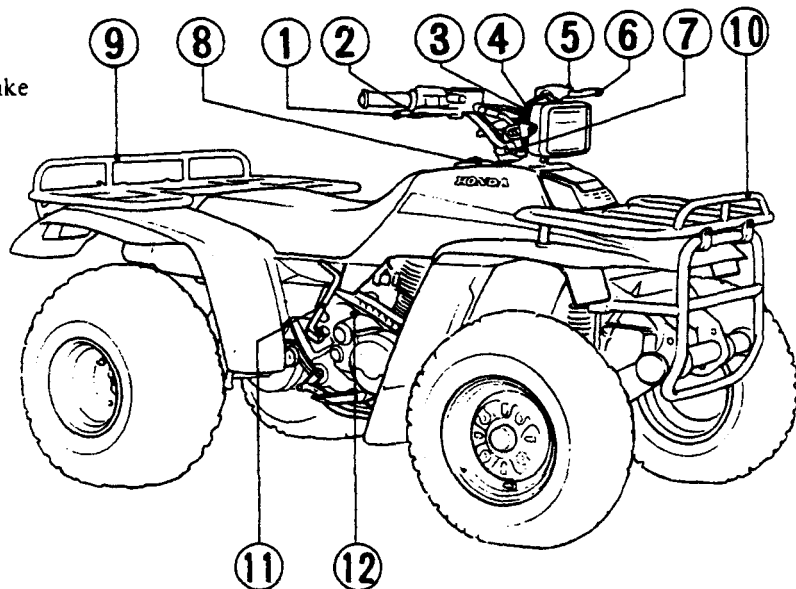
3. When towing a trailer and carrying cargo, the combined tongue weight and rear carrier cargo weight should not exceed 45 kg (100 lbs).
4. Do not obstruct the headlight beam with cargo.
5. Do not ride with a passenger on the front or rear carrier.

This FOURTRAX is not designed to carry a passenger.

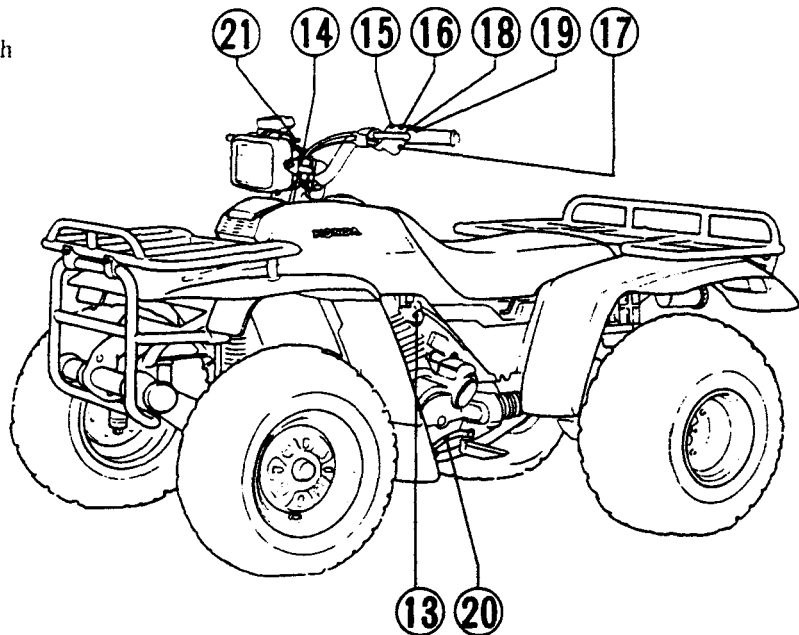
DESCRIPTION

PARTS LOCATION

- (1) Front brake lever
- (2) Throttle lever
- (3) Reverse indicator lamp
- (4) Neutral indicator lamp
- (5) Reverse selector lever
- (6) Rear brake lever/parking brake
- (7) Helmet holder
- (8) Fuel tank cap
- (9) Rear carrier
- (10) Front carrier
- (11) Kickstarter pedal
- (12) Oil filler cap



- (13) Fuel valve
- (14) Ignition switch
- (15) Headlight dimmer switch
- (16) Headlight switch
- (17) Engine stop switch
- (18) Starter button
- (19) Choke lever
- (20) Gearshift pedal
- (21) Engine oil temperature warning lamp



SERIAL NUMBERS

The frame and engine serial numbers are required by your dealer when ordering replacement parts. Record the numbers here for your reference.

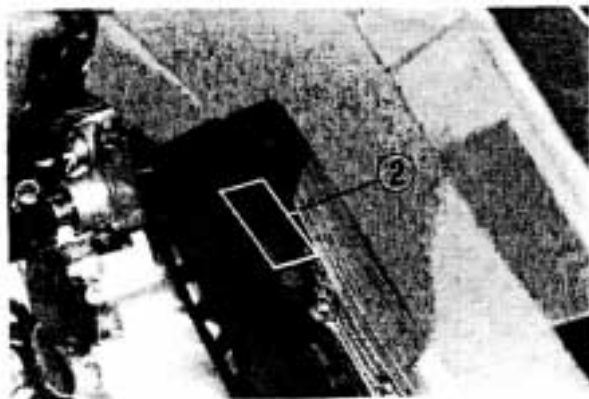
FRAME NO. _____

The frame serial number (1) is stamped on the front of the frame. The engine serial number (2) is stamped on the right crankcase.

ENGINE NO. _____



(1) Frame serial number



(2) Engine serial number

PARTS FUNCTION

Ignition Switch

The ignition switch (1) is on the handlebar upper holder.

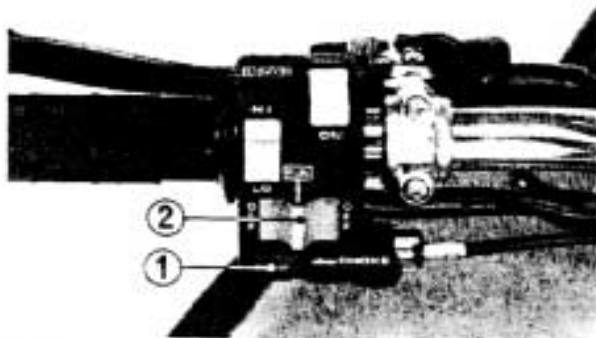


(1) Ignition Switch

Key Position	Function	Key Removal
OFF	Engine and headlight cannot be operated.	The key can be removed.
ON	Headlight can be turned on. With the engine stop switch at RUN and transmission in neutral, the engine can be started.	The key cannot be removed.

Starter Button

The starter button (1) is below the headlight switch. When the starter button is pressed, with the transmission in neutral and the ignition switch on, the starter motor will crank the engine.



(1) Starter button

(2) Engine stop switch

Engine Stop Switch

The three position engine stop switch (2) is next to the left handlebar grip. When the switch is in the RUN position, the engine will operate. When the switch is in either *OFF* position, the engine will not operate.

This switch is intended primarily as a safety or emergency switch and should normally remain in the RUN position.

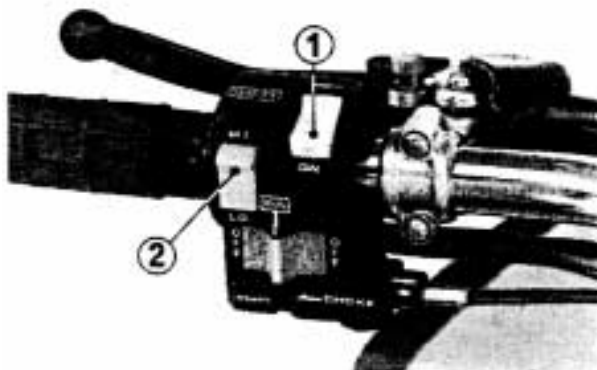
NOTE:

- * If your *FOURTRAX* is stopped with the ignition switch ON and the engine stop switch OFF, the headlight will still be on, resulting in battery discharge.

Headlight and Dimmer Switches

The headlight (1) and headlight dimmer (2) switches are above the engine stop switch.

Turn the headlight ON with the headlight switch, after the engine has been started, and select high beam (HI) or low beam (LO) with the headlight dimmer switch.



(1) Headlight switch (2) Headlight dimmer switch

Engine Oil Temperature Warning Lamp

When the engine oil temperature becomes too high the engine oil temperature warning lamp will light.

CAUTION:

** If the engine oil temperature warning lamp lights while you are riding, stop the engine immediately and let it cool. Failure to stop the engine immediately will adversely affect the service life of the engine.*

If the warning lamp goes on frequently while riding, have your FOURTRAX inspected by your authorized Honda dealer.

A heavy duty cooling fan is available as an optional part to provide more air flow through the radiator under adverse conditions.



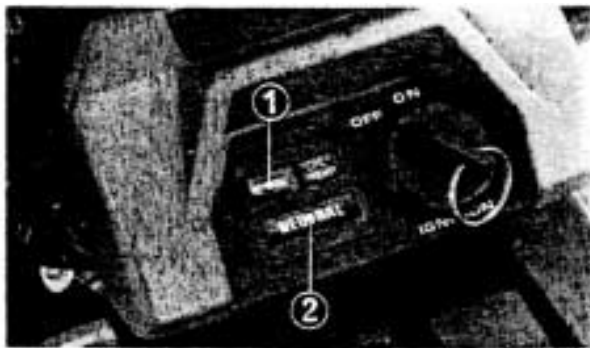
(1) Engine oil temperature warning lamp

Reverse Indicator Lamp

The FOURTRAX 250 is equipped with a reverse indicator lamp (1) to show when the transmission is in reverse. The reverse indicator lamp is on the handle-bar cover and will light when the transmission is in reverse with the ignition switch ON.

Neutral Indicator Lamp

The FOURTRAX 250 is equipped with a neutral indicator lamp (2) to show when the transmission is in neutral. The neutral indicator lamp is on the handle-bar cover and will light when the transmission is in neutral with the ignition switch ON.

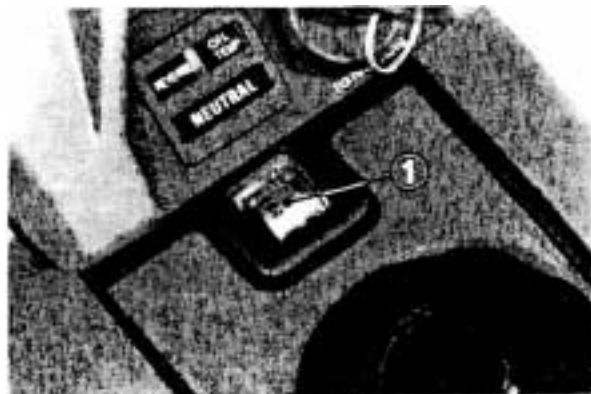


(1) Reverse indicator lamp

(2) Neutral indicator lamp

Fuel Gauge

The fuel gauge shows the approximate fuel supply available. At F (Full) there are 10.0 l (2.6 US gal.) including the reverse supply. When the gauge needle enters the red band (2), fuel is low and you should *refill the tank as soon as possible*. The amount of fuel left in the tank when the needle enters the red band is approximately 4.0 l (1.1 US gal.).



(1) Fuel gauge

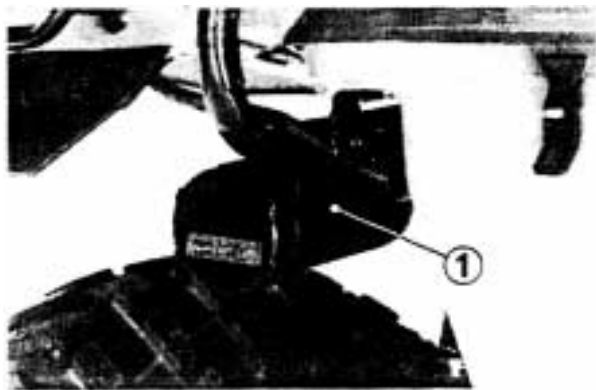
Owner's Manual Compartment

This owner's manual should be stored in the compartment under the rear fender.

When washing your FOURTRAX or riding through water, be careful not to flood this area with water.

NOTE:

- * The air pressure gauge should be stored in the owner's manual compartment.



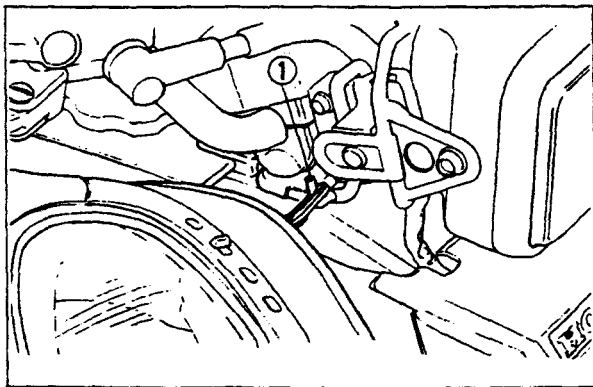
(1) Owner's manual compartment

Helmet Holder

The helmet holder (1) is under the right handlebar. To use the helmet holder, hang your helmet on holder hook.

WARNING

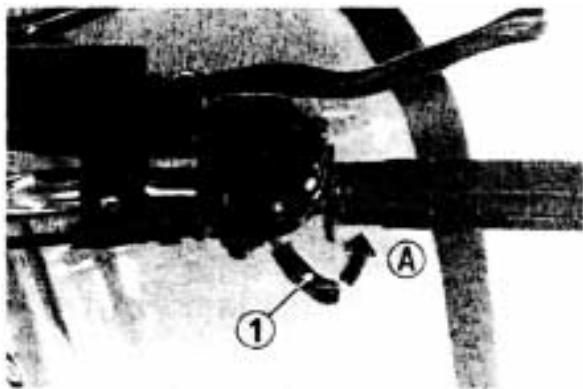
* *Do not operate the FOURTRAX with a helmet attached to the holder; your ability to steer will be impaired. The helmet holder is designed for use while the FOURTRAX is parked.*



(1) Helmet holder

Throttle Lever

The throttle lever (1) is next to the right handlebar grip and is operated by the rider's thumb. Pressing the lever forward opens the throttle. When the lever is released, spring tension closes the throttle automatically.



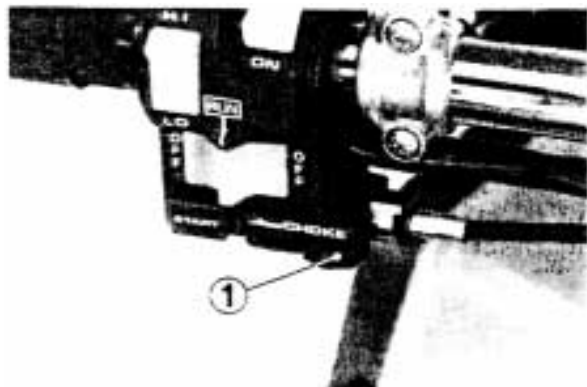
(1) Throttle lever

(A) Open

Choke Lever

The choke lever (1) is next to the left handlebar grip. Move the choke lever while pushing it to the left for starting the engine when cold. Move the lever while pushing it to the right as the engine attains normal operating temperature.

To restart a warm engine, it is not necessary to use the choke.



(1) Choke lever

Brake Lever/Parking Brake

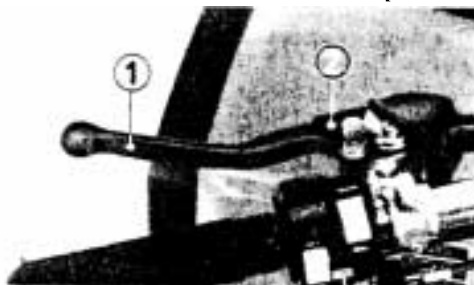
The front brake lever is at the right handlebar grip. The left brake lever (1) and the brake pedal both operate the rear brake. Either one can be used to stop the FOURTRAX. The left brake lever has the added feature of a lock (2) which allows the lever to be used as a parking brake.

Pull the left brake lever back and lock it with the lock. Always apply the parking brake when parking the FOURTRAX and when starting the engine.

The parking brake is unlocked by squeezing the left brake lever.

NOTE:

- * Use of the parking brake in freezing weather may cause the brakes to freeze in the locked position.



(1) Brake lever/Parking brake

(2) Lock

Gearshift Pedal

The gearshift pedal is near the left footpeg. One full stroke of the gearshift pedal will shift the transmission. The pedal automatically returns to the horizontal position when released. Each stroke of the pedal engages the next gear in sequence.

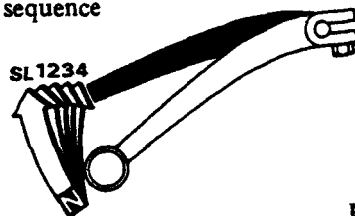
Raise the pedal to upshift to a higher gear and depress the pedal to downshift.

When the reverse selector knob is pushed in and the rear brake/parking brake lever is squeezed, the transmission can only be shifted from neutral to reverse gear by depressing the gearshift pedal.

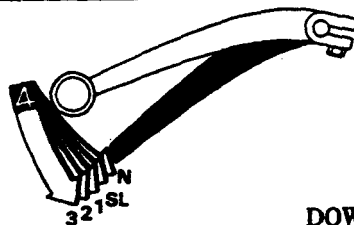
CAUTION

- * *Bring the FOURTRAX to a complete stop before shifting the transmission into reverse. If the transmission is shifted into reverse when the vehicle is moving, damage to the transmission will result.*

Shifting sequence

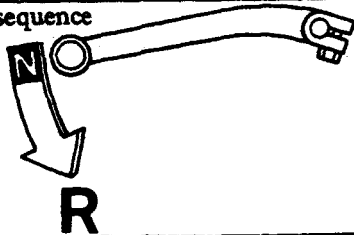


UPSHIFT



DOWNSHIFT

Reverse sequence

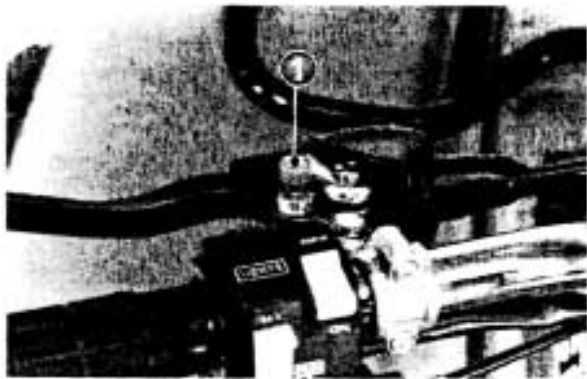


Reverse Selector Knob

The reverse selector knob is on the rear brake/parking brake lever.

When shifting the transmission into reverse, bring the FOURTRAX to a complete stop, push the reverse selector knob in and squeeze the rear brake/parking brake lever.

The transmission will be shifted into reverse by depressing the gearshift pedal.



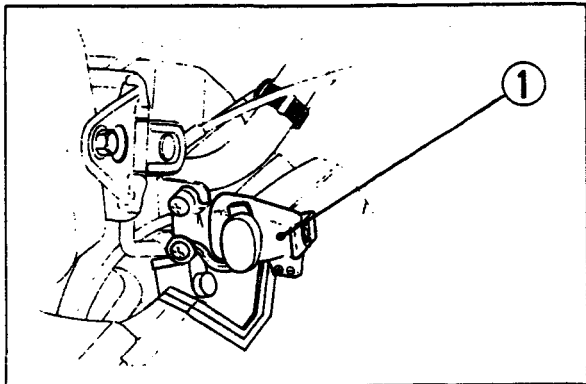
(1) Reverse selector knob

12V DC Power Supply

The direct current receptacle (1) is on the left side of the headlight. It provides 12V DC power at a maximum of 60 watts (5 Amps). The specified fuse is 15A.

WARNING

* *Never use a fuse with a different rating from that specified. Serious damage to the electrical system or a fire could result.*



(1) Receptacle

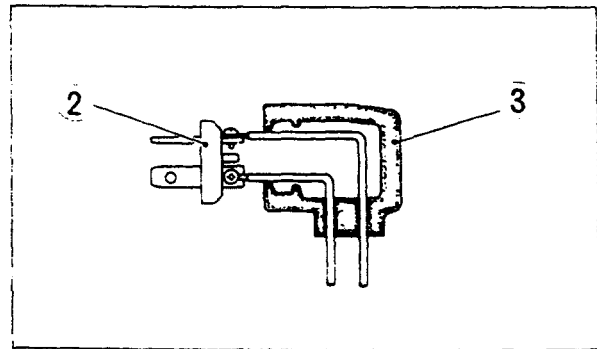
Accessories may be connected to the receptacle by using the special plug (2) that came with your FOUR-TRAX:

To attach the special plug to the accessory:

1. Install the accessory leads to the plug, making sure to connect the positive and negative leads to the corresponding plug terminals.

CAUTION

- * Do not install the positive and negative accessory leads in reverse when attaching them to the special plug.



(2) Special plug

(3) Plug cover

NOTE:

- * We recommend that you use AWG18-AWG20 electrical wire for attachment to the special plug.
2. With the ignition OFF, insert the plug into the plug receptacle, being careful not to twist the electrical leads coming from the accessory.

CAUTION

- * Keep the electrical leads insulated and away from hot engine parts and sharp edges.
 - * Do not use accessories not designed for 12V DC power.
 - * Make sure the electrical leads extend from the bottom of the plug when inserting it in the receptacle.
3. When the receptacle is not being used, cover it with the rubber cap that came with your FOUR-TRAX to keep out dust, water and sand.

Headlight

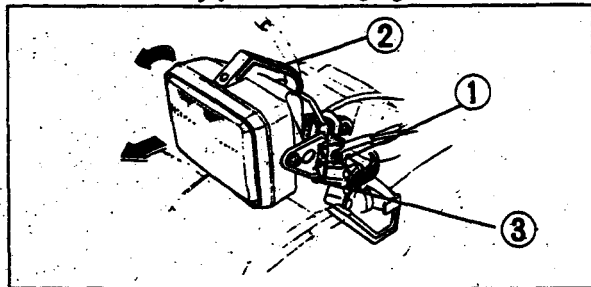
The headlight can be detached and used for work at night.

WARNING

- * Before riding the **FOURTRAX**, check to make sure the headlight is securely attached and the headlight cord is installed in the cord box (4). Do not ride the **FOURTRAX** with the headlight detached and do not ride with the headlight cord out of the cord box. If the cord is not installed in the cord box, it may interfere with the controls or wheels causing loss of control.

CAUTION

- * Use the headlight with the engine running to prevent the battery from discharging.



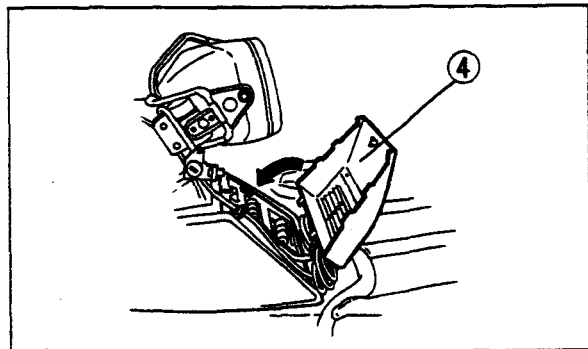
- (1) Lock pins (3) Rubber mount
(2) Headlight case bracket

To detach the headlight from the **FOURTRAX**

1. Pull the right and left lock pins (1) out.
2. Grasp the headlight case bracket (2) and pull the headlight forward to remove it from the rubber mounts (3).
3. Remove the headlight cord from the cord box (4).
4. To install the headlight onto the **FOURTRAX**, reverse the detaching procedure.

CAUTION

- * After installation, make sure that the headlight wire is not pinched.



- (4) Cord box

Fuse Replacement

The main fuse, located near the battery box, is 20A. When frequent fuse failure occurs, it usually indicates a short circuit or an overload in the electrical system. See your authorized Honda dealer for repair.

WARNING

- * *Never use a fuse with a different rating from that specified. Serious damage to the electrical system or a fire may result, causing a dangerous loss of lights or engine power.*

CAUTION

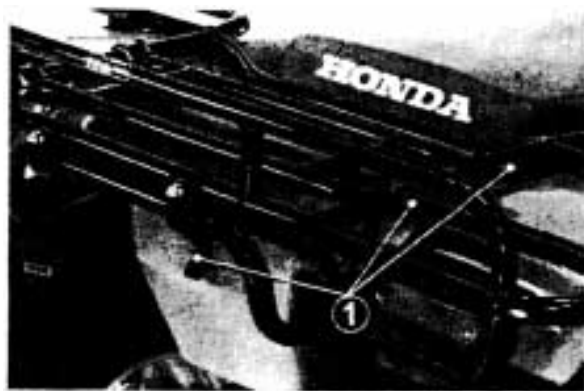
- * *Turn the ignition switch OFF before checking or replacing the fuse to prevent accidental short-circuiting.*

Storage Compartment

The storage compartment is at the rear of rear fender. Pull the rubbers (1) up to open.

WARNING

- * *Do not carry more than 2.3 kg (5 lbs) of cargo in the storage compartment.*



(1) Rubbers

FUEL

Fuel Valve

The three-way fuel valve (1) is on the left side of the carburetor.

OFF

With the fuel valve in the OFF position, fuel cannot flow from the tank to the carburetor. Turn the valve off whenever the FOURTRAX is not in use.

ON

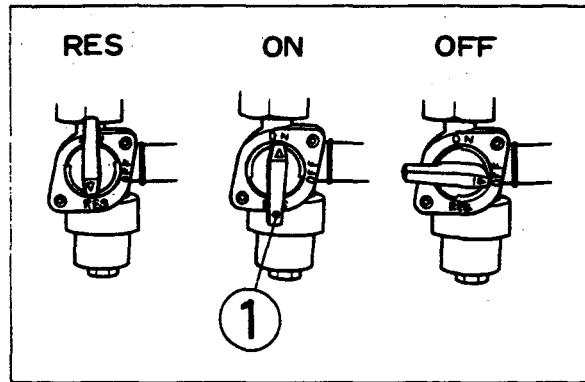
With the fuel valve in the ON position, fuel will flow from the main fuel supply to the carburetor.

RES

With the fuel valve in the RES position, fuel will flow from the reserve fuel supply to the carburetor. Use the reserve fuel only when the main supply is gone. Refill the tank as soon as possible after switching to RES. The reserve fuel supply is 2.0 l (0.52 US gal).

NOTE:

- * Do not operate the FOURTRAX with the fuel valve in the RES position after refueling. You may run out of fuel with no reserve.



(1) Fuel valve

Fuel Tank

Fuel tank capacity is 10.0 ℓ (2.6 US gal) including 2.0 ℓ (0.52 US gal) in the reserve supply. Remove the fuel tank cap (1) by twisting it counterclockwise. Automotive gasoline with a pump octane number ($R_{\frac{1}{2}}^M$) of 86 or higher, or research octane number of 91 or higher may be used.

If knocking or pinging occurs, try a different brand of gasoline or a higher octane grade.

After refueling, be sure to tighten the tank cap firmly by turning it clockwise until the arrow on the cap faces forward.

The fuel tank cap (1) has a lever (2) with ON and OFF positions to open or close the tank vent. The lever should be turned to ON to allow fuel to flow when running the engine.

Turning the lever to OFF will prevent fuel from flowing out the vent hole when transporting the FOUR-TRAX.

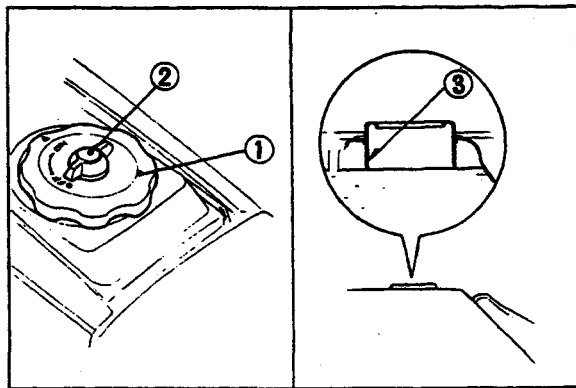
WARNING

- * *Gasoline is extremely flammable and is explosive under certain conditions. Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow open flames or sparks in the area where the vehicle is refueled or where gasoline is stored.*

- * *Do not overfill the tank (there should be no fuel in the filler neck (3)). After refueling, make sure the tank cap is closed securely.*
- * *Avoid repeated or prolonged contact with skin or breathing of vapor. KEEP OUT OF REACH OF CHILDREN.*

CAUTION:

- * *Should knocking or pinging persist while holding a steady speed on a level road, try changing brands of gasoline. If knocking or pinging still persists, consult your Honda dealer.*



(1) Fuel tank cap

(2) Vent lever

(3) Filler neck

Gasolines Containing Alcohol

If you decide to use a gasoline containing alcohol ("gasohol"), be sure its octane rating is at least as high as that recommended. There are two types of "gasohol": that containing ethanol, and that containing methanol. Do not use gasohol that contains more than 10% ethanol. Do not use gasoline containing methanol (methyl or wood alcohol) that does not also contain cosolvents and corrosion inhibitors for methanol. Never use gasoline containing more than 5% methanol, even if it has cosolvents and corrosion inhibitors.

NOTE:

- * Fuel system damage or vehicle performance problems resulting from the use of such fuels is not covered under new ATV Warranties. Honda cannot endorse the use of fuels containing methanol since evidence of their suitability is as yet incomplete.
- * Before purchasing fuel from an unfamiliar station, try to confirm whether the fuel contains alcohol, and to what percentage. If you notice any undesirable operating symptoms after using a gasoline that contains alcohol; or one that you think contains alcohol, switch to a higher octane gasoline as recommended.

ENGINE OIL

Engine Oil Level Check

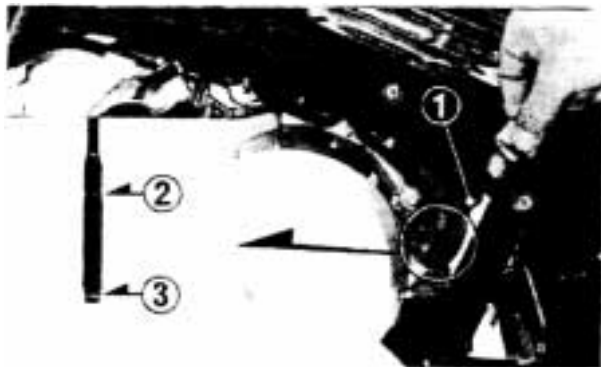
Check the engine oil level each day before operating the FOURTRAX.

The oil filler cap/dipstick (1) is on the right crankcase cover and contains a dipstick for measuring the oil level. The oil level must be maintained between the upper (2) and lower (3) level marks on the dipstick.

1. With the FOURTRAX on level ground, remove the oil filler cap/dipstick and wipe it clean.
2. Reinsert the dipstick without screwing it in. Remove the oil filler cap/dipstick again and check the oil level.
3. If required, add the specified oil up to the upper level mark. Do not overfill.
4. Reinstall the oil filler cap/dipstick.

CAUTION:

* *Running the engine with insufficient oil can cause serious engine damage.*



- (1) Oil filler cap/dipstick (3) Lower level mark
(2) Upper level mark

Engine Oil Recommendation

USE HONDA 4-STROKE OIL OR AN EQUIVALENT.

Use only high detergent, premium quality motor oil certified to meet or exceed US automobile manufacturers' requirements for Service Classification SE or SF.

Motor oils intended for Service SE or SF will show this designation on the container. The use of special oil additives is unnecessary and will only increase operating expenses.

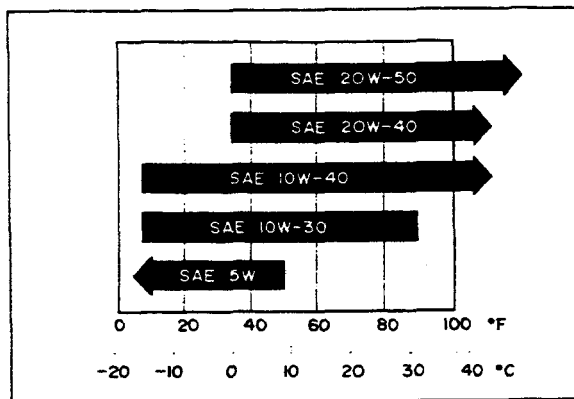
CAUTION:

- * *Engine oil is a major factor affecting the performance and service life of the engine. Non-detergent, vegetable, or castor based racing oils, are not recommended.*
- * *Do not use oils with graphite or molybdenum additives: they will adversely affect clutch operation.*

Recommended Oil Viscosity:

SAE 10W-40

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



TIRES

The tires are designed specifically for vigorous off-road use, they are not immune to punctures. Always select your riding area with care.

WARNING

- * *The FOURTRAX is not designed to be driven on paved surfaces. Handling and control will be severely affected.*

Check tire pressure frequently with the air pressure gauge supplied with this FOURTRAX.

Tires should be inflated to the recommended pressure.

NOTE:

- * Tire pressure should be checked when the tires are "cold," before you ride.

	Front	Rear
TIRE SIZE	21X7.00-10	25X12.00-9
TIRE BRAND	KT781A DUNLOP	KT885 DUNLOP
Recommended pressure	2.9 psi (20 kPa. 0.2 kg/cm ²)	2.2 psi (15 kPa. 0.15 kg/cm ²)
Max. pressure	3.3 psi (23 kPa. 0.23 kg/cm ²)	2.6 psi (18 kPa. 0.18 kg/cm ²)
Min. pressure	2.5 psi (17 kPa. 0.17 kg/cm ²)	1.8 psi (12 kPa. 0.12 kg/cm ²)

WARNING

- * *Maintain proper tire air pressure. Improperly inflated tires may adversely affect maneuverability and may cause loss of control.*
- * *When replacing tires use only the size, type and brand identified in the chart. The use of different sizes or types of tire can severely affect vehicle handling.*

If you have a flat tire, use the plug method to make temporary repairs. The plug method is the same as that for conventional tubeless tires. A plug type repair kit, which is available at most auto part stores or service stations, provides a plug, an installation tool, tire cement, and an instruction sheet. Follow the instructions provided in the repair kit to make a temporary repair until the tire can be permanently repaired by the cold patch method. Any tire which cannot be repaired by the plug method should be replaced.

Whenever the **FOURTRAX** is to be operated far from service facilities or available transportation, we recommend that the rider carry a tire pump and a suitable repair kit with the **FOURTRAX**.

Tire Tread Condition

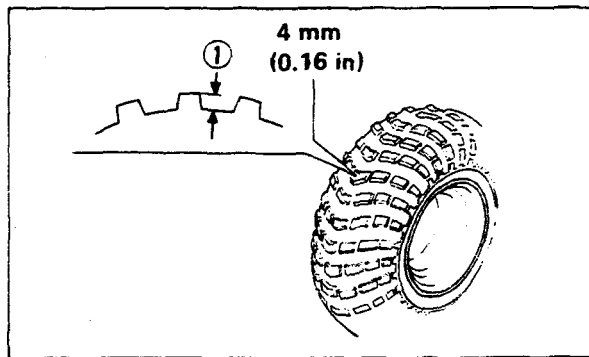
Measure the groove depth (1) of tires at the center as shown. Operating the vehicle with excessively worn tires will decrease traction and cause skidding.

WARNING

** Replace tires before tread depth at the center of the tires reaches the following limit.*

Minimum tread depth

4 mm (0.16 in)



BATTERY

It is not necessary to check battery electrolyte level or add distilled water as the battery is a sealed type. If any loss of electrolyte is experienced or if your battery seems to be weak, causing slow starting or other electrical troubles, see your authorized Honda dealer.

CAUTION

- * *Do not attempt to remove the caps from the cells.*
- * *When the FOURTRAX is to be stored for an extended period of time, remove the battery from the vehicle and charge it fully. Then store it in a cool, dry place. If the battery is to be left on the vehicle, disconnect the negative cable from the battery terminal.*

WARNING

- * *Keep away from open flames or sparks when handling a battery.*

PRE-RIDE INSPECTION

WARNING

** Failure to conduct the listed maintenance checks and adjustments may lead to equipment failure that could cause an accident.*

Inspect your FOURTRAX every day before you ride it. The items listed here will only take a few minutes to check and in the long run can save time, expense, and possibly your life.

1. Engine oil level - if required add engine oil (page 24). Check for leaks.
2. Fuel level - fill the fuel tank when necessary (page 22). Check for leaks.
3. Brakes - check operation; make sure there is no brake fluid leakage. If necessary adjust free play (page 59).
4. Tires - check condition and pressure (page 26).
5. Throttle - check for smooth opening and closing in all steering positions (page 64).
6. Headlight and headlight dimmer switch - check for proper function (page 11).

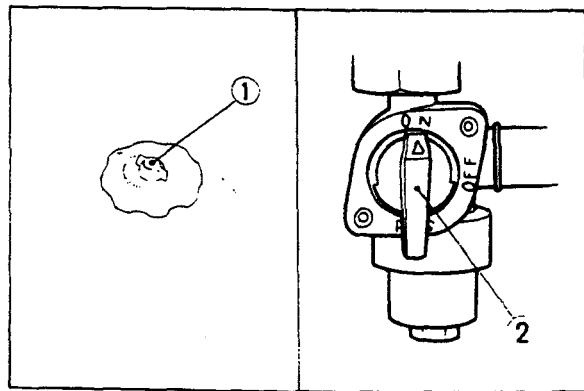
7. Engine stop switch - check for proper function (page 10).
8. Nuts, Bolts, Fasteners - check the wheels to see that the axle nuts are tightened and secured by cotter pins. Check the security of all other nuts, bolts and fasteners.
9. Steering -- check that the wheels turn properly as you steer the handlebars.
10. Check that all cargo is properly secured.

Correct any discrepancy before you ride. Contact your authorized Honda dealer for assistance if you cannot correct the problem.

STARTING THE ENGINE

WARNING

- * *Never run the engine in a closed area. The exhaust contains poisonous carbon monoxide gas that may cause loss of consciousness and lead to death.*
- * *Do not try to start the engine with the transmission in gear. You may injure yourself or damage the vehicle.*

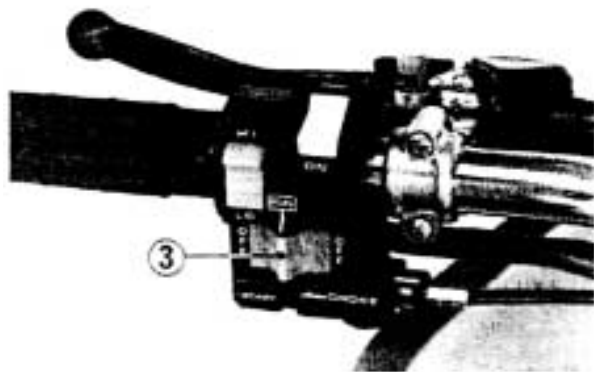


(1) Vent lever

(2) Fuel valve

Preparation

1. Select a level surface and lock the parking brake (page 15) before starting the engine.
2. Turn the fuel cap vent lever (1) and fuel valve (2) to ON.
3. Make sure the engine stop switch (3) is at RUN.



(3) Engine stop switch

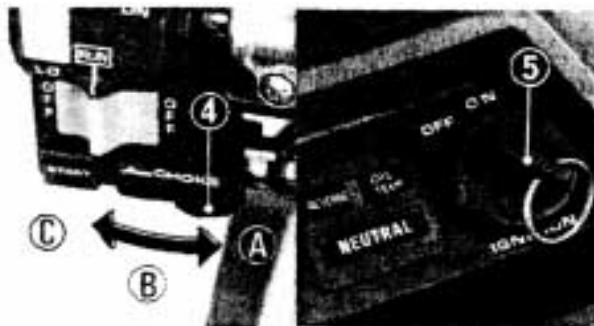
Starting Procedure (after Preparation)

To restart a warm engine, follow the procedure for High Air Temperature Starting.

Normal Air Temperature Starting

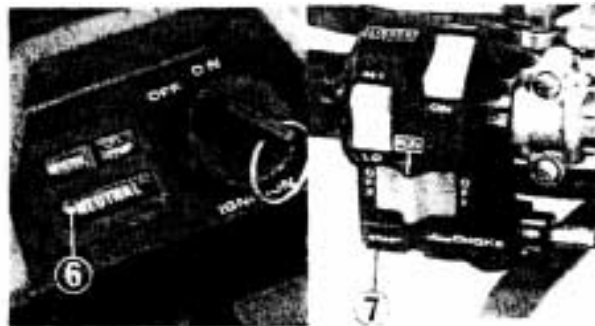
0° - 35°C (32° - 95°F)

1. Move the choke lever (4) to the halfway position (B).
2. Turn the ignition switch (5) to ON. Make sure that the transmission is in neutral by checking the neutral indicator lamp (6).
3. Keep the throttle fully closed.
4. Press the starter button (7) and start the engine.



(4) Choke lever

(5) Ignition switch



(6) Neutral indicator lamp

(7) Starter button

NOTE:

- * Do not use the electric starter for more than 5 seconds at a time. Release the starter button for approximately 10 seconds before pressing it again.
 - * The starter motor will operate only when the transmission is in neutral.
5. After the engine starts, continue warming up the engine until it will idle smoothly with the choke lever in the halfway position (B). Then move the choke lever all the way to Fully Closed (A). If idle is unstable open the throttle slightly.

High Air Temperature Starting

35°C (95°F) or above

1. Do not use the choke.
2. Start the engine by pressing the starter button.

Low Air Temperature Starting

0°C (32°F) or below

1. Move the choke lever (4) all the way to Fully Open (C).
2. Turn the ignition switch (5) to ON. Make sure that the transmission is in neutral by checking the neutral indicator lamp (6).
3. Keep the throttle fully closed.
4. Press the starter button (7) and start the engine.
5. Immediately after engine starts, move the choke lever (4) to the halfway position (B).
6. Continue warming up the engine until it will idle smoothly with the choke lever, in the halfway position. Then move the choke lever all the way to Fully Closed (A). If idle is unstable open the throttle slightly.

CAUTION

- * *Extended use of the choke may impair piston and cylinder wall lubrication.*
- * *Do not race the engine during the warm-up period. Racing a cold engine wastes fuel and increases engine wear.*

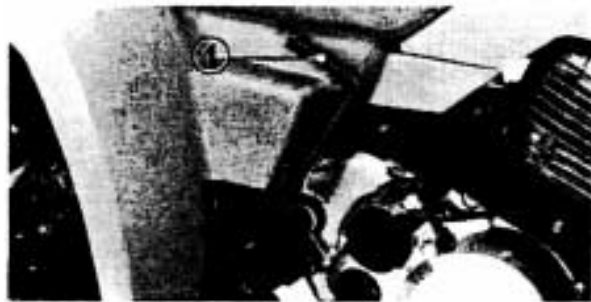
Kickstarting

If the engine does not start with the electric starter, use the kickstarter.

1. Follow the step under Preparation and 1–2 under Normal Air Temperature.

NOTE:

- * Do not use the choke when restarting a warm engine or when air temperature is 35°C (95°F) or above.
2. Start the engine by using the kickstarter pedal (1).
- NOTE:**
- * The engine will start only when the transmission is in neutral.



(1) Kickstarter pedal

Flooded Engine

If the engine does not start after several attempts, it may have become flooded with excess fuel. To clear the engine, turn the engine stop switch OFF, move the choke lever all the way to the right, hold the throttle fully open, and briefly press the starter button or crank the engine several times with kick-starter.

When the engine is cleared, wait 10 seconds then turn the ignition switch ON and repeat the normal starting procedure, but do not use the choke.

BREAK-IN

During the first few days of riding, operate your new FOURTRAX so that the engine neither pulls laboriously nor approaches maximum rpm in any gear. Avoid full throttle operation, and shift gears frequently to vary engine speed. Careful break-in during the initial operating period will measurably extend the service life of the engine.

RIDING

WARNING

- * Review *FOURTRAX Safety* (pages 1–4) before you ride.
- * Avoid “wheelies” and jumping as they may cause loss of control.
- * Ride with your feet on the footpegs at all times. If your feet are removed from the footpegs and touch the ground while the *FOURTRAX* is moving, they may come in contact with the rear wheels.
- * The *FOURTRAX 250* is not designed to be ridden on paved surfaces. Handling and control will be severely affected.
- * While carrying loads or pulling a trailer, use extreme caution when starting, stopping or turning the *FOURTRAX*.

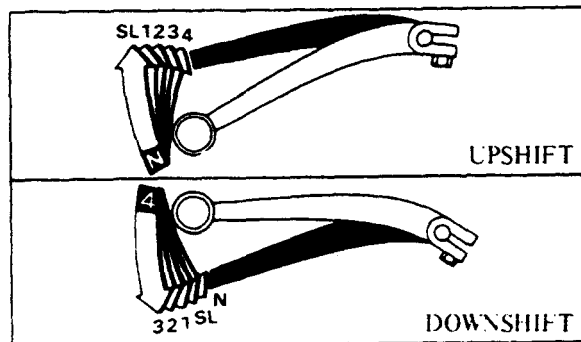
Under normal riding conditions it is not necessary or desirable to touch the ground for balance. For your initial riding practice, select a safe area free of obstacles with a level surface of dirt, sand or snow, etc.

1. Make sure the transmission is in neutral and set the parking brake.
2. After the engine has been warmed up, release the parking brake. The *FOURTRAX* is ready for riding.

3. While the engine is idling, raise the gearshift pedal to shift into SL (Super-low) gear.
4. Increase engine speed by gradually opening the throttle.
5. When your speed increases, close the throttle and shift to 2nd gear by raising the gearshift pedal.

CAUTION

- * Do not shift gears without closing the throttle. The engine and drive train could be damaged by overspeed and shock.



Shifting sequence

6. This sequence is repeated to progressively shift to 3rd and 4th (top) gear.

CAUTION

- * *Do not tow the FOURTRAX or coast for long distances while the engine is off. The transmission will not be properly lubricated and damage may result.*

Reverse Riding

For reverse riding practice, make sure there are no obstacles or people in the area.

1. Make sure the transmission is in neutral and set the parking brake.
2. Start the engine and release the parking brake.
3. While the engine is idling, press the reverse selector knob, squeeze the rear brake/parking brake lever and depress the gearshift pedal into the reverse gear.
4. Release the rear brake/parking brake lever.
5. Ride the FOURTRAX cautiously in reverse by gradually opening the throttle.

WARNING

- * *When backing up, open the throttle carefully to ride slowly and safely, being careful that there are no obstacles or people behind you.*
- * *Avoid sudden application of the throttle or abrupt turns.*
- * *Close the throttle and apply both front and rear brakes carefully to stop the FOURTRAX when riding in reverse. Applying the rear brake alone may cause the front wheel to lift off the ground.*
- * *Make sure the neutral indicator light comes on after shifting the transmission from reverse into neutral. If the neutral indicator light does not come on, move the FOURTRAX and then try to shift the transmission into neutral again.*

Turning Maneuvers

For better traction in off-road use, the FOURTRAX has been fitted with a rear axle which drives both rear wheels equally at all times.

When negotiating a turn, the wheel on the outside of the turn must travel a wider radius and thus a greater distance than the inside wheel. As the rear axle does not permit a differing rate of wheel rotation, it is not enough to merely steer the FOURTRAX into a turn. The new rider must learn to shift his or her weight and control the throttle to allow the rear tires to negotiate the turn. This is the primary technique to be mastered in riding the Honda FOURTRAX. For your initial riding practice, operate the FOURTRAX in low gear.

Practice turning the FOURTRAX at slow, constant speeds. Defer higher speeds until you are confident of your proficiency.

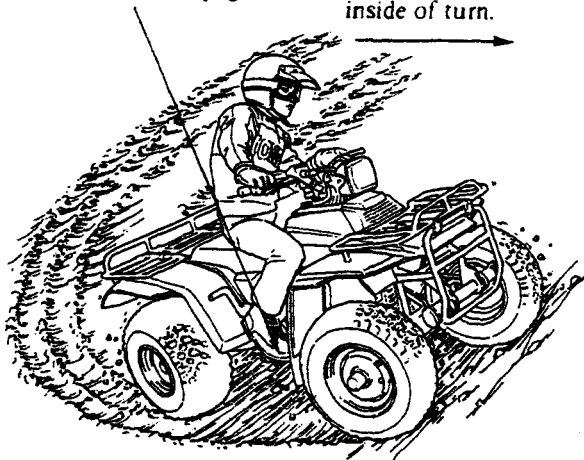
To turn, steer in the direction of the turn, leaning your body to the inside of the turn, while supporting your weight on the outer footpeg. Use the throttle to maintain power throughout the turn.

This technique allows the FOURTRAX to lean slightly toward the outside, altering the balance of traction between the rear wheels sufficiently to allow them to negotiate the turn.

Once this technique is learned, turning maneuvers can be performed within a relatively small area.

Support your weight
on the outer footpeg.

Lean towards
inside of turn.



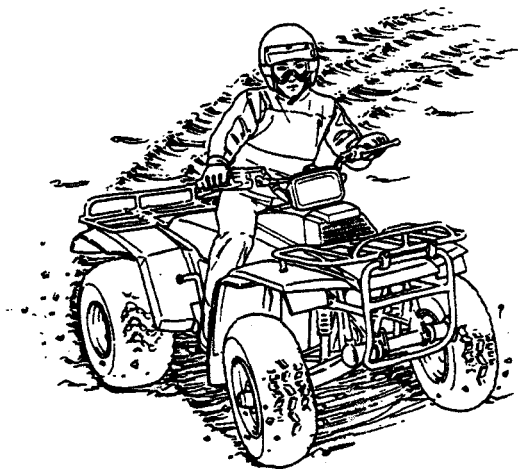
Incorrect turning techniques may cause the front wheels to slide straight ahead when steered without affecting the FOURTRAX's direction of travel. If this should occur, close the throttle and come to a stop. Then continue practicing the technique outlined on the preceding page.

If the front wheels tend to skid in mud or snow, you may be able to improve control under these conditions by leaning forward, transferring additional weight to the front wheels.

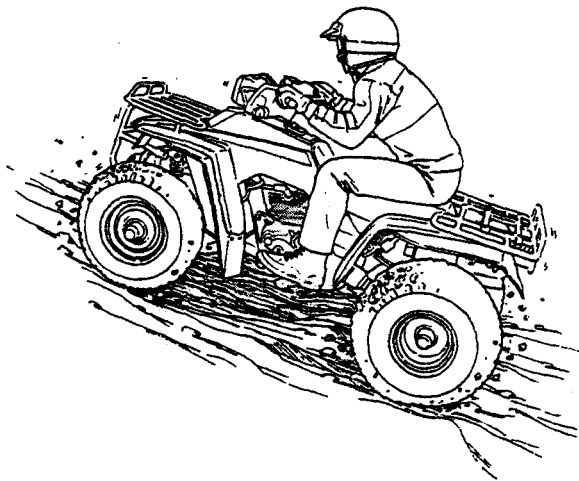
If the rear wheels inadvertently skid sideways, correct your slide by steering in the direction of the skid if you have room to perform this maneuver safely. Avoid braking or accelerating until you have regained directional control.

To avoid skids while traveling on slippery terrain, the rider must exercise a high degree of caution. Controlled skids and spins, when performed safely, add to the sport the rider can enjoy. However, as skidding maneuvers are inherently more hazardous than those performed under full traction, we must caution the rider to first master the basic techniques of handling before practicing any skidding maneuver.

Surface composition is, of course, a major factor affecting skidding capability. It is obviously easier to slide on packed snow than in deep sand. Surfaces with extremely low or extremely high coefficients of friction must not be used for skidding maneuvers. It is dangerous to skid on ice, because you may lose all directional control, and it is dangerous to skid on pavement, because you may regain traction suddenly and unexpectedly, which can cause you to lose your balance and overturn.



Climbing Hills



Practice climbing on evenly surfaced slopes of less than 20° . The FOURTRAX's capability in climbing hills or traversing any specific terrain is dependent upon rider skill. As you gain experience in handling the FOURTRAX and learn the hazards to be encountered and your own limitations, you may then proceed to ride more challenging terrain. However, you must first be able to discern and avoid any hill or hazard that would cause the FOURTRAX to overturn.

The riding technique for hill climbing involves transferring your weight toward the front wheels to keep them in contact with the ground. This may be done by leaning forward, or for greater weight transference, by standing on the footpegs and leaning forward.

Take a running start, in the appropriate gear and speed for the ascent, and climb at a steady rate of speed.

WARNING

- * *Do not apply power suddenly by opening the throttle or changing gears while ascending a hill, or the front wheels may rise from the ground. If the front wheels lift, rider control will be lessened and the FOURTRAX may overturn backward.*

If you should find that you have incorrectly estimated climbing capability and lack the power or traction to continue the ascent, then turn the FOURTRAX around if space permits, while you still have the forward speed to do so and descend. Avoid stalling part way up a hill, as maneuvering will then become more difficult.

WARNING

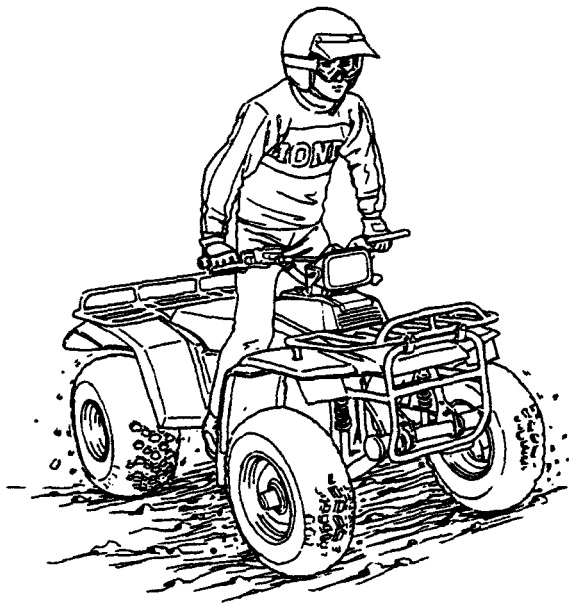
- * *Before attempting a turn on a hillside, the rider should first master turning techniques on level ground.*

If you do lose all forward speed and can neither continue uphill nor maneuver the FOURTRAX under its own power, dismount and physically turn the machine around. If it cannot be turned and must be backed down, first shift the transmission into neutral. However, we strongly recommend that the rider turn the FOURTRAX around rather than back it downhill.

WARNING

- * *To avoid overturning, the rider must exercise a high degree of caution when dismounting or moving the FOURTRAX on a hillside.*

- * *Applying the brakes or engaging the transmission while rolling backward downhill can easily cause the FOURTRAX to overturn and fall on the rider.*

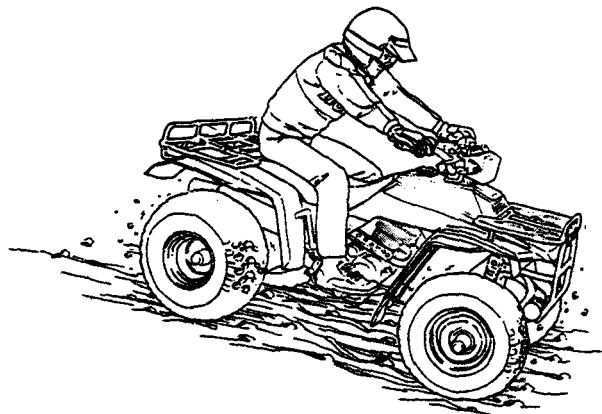


Descending Hills

It is usually advisable to descend hills with the FOURTRAX pointed directly downhill, avoiding angles that would cause the vehicle to lean sharply to one side. As you approach the point of descent, stop and survey the terrain below. Never ride headlong past your limit of visibility. When you have picked a safe path of descent, shift the transmission into low gear and descend slowly with the throttle closed. Sit back on the seat, with arms extended and braced on the handlebars.

When descending sand dunes, we recommend that the rider apply the brake intermittently to further reduce forward speed.

Braking effectiveness is, of course, reduced while descending any incline with a loose surface.



Traversing Slopes

When riding across a slope at right angles to the incline of the hill, lean your body uphill to maintain balance and stability. On a loose surface such as sand, it may become necessary to steer slightly uphill in order to maintain your course of travel.

WARNING

- * *Balance is more precarious while the FOURTRAX is tilted to one side. Avoid traversing slopes where there is slippery or difficult terrain.*



Riding Through Water

WARNING

- * *Do not ford any stream with fast flowing water. The tires may float, making it difficult to maintain control.*
- * *Do not ride the FOURTRAX through water beyond its limit.*

The Honda FOURTRAX can ford water to a depth of approximately 11 inches, although the rider must be careful to avoid getting the spark plug or air cleaner wet.

When crossing streams, choose a course where both banks have gradual inclines. Proceed at a slow, steady speed, and take care to avoid submerged obstacles and slippery rocks.

After riding through water, the brakes may be less effective than normal. Test the brakes after traveling through any water, and if necessary, apply the brakes repeatedly until the heat of friction has dried them, and the brakes regain their normal effectiveness.

If they do not dry out and regain their effectiveness, stop the FOURTRAX and shut the engine OFF. Set the parking brake ON and drain any trapped water by removing the drain bolt (1) from the bottom of the rear brake cover.

CAUTION:

- * *If any water drains, it is an indication that the rear brake seals must be replaced. Have these seals checked by your Honda dealer as soon as possible.*



(1) Drain bolt

High Altitude Riding

When operating this vehicle at high altitudes, the air-fuel mixture becomes overly rich. Above 6,000 feet (1,800 m) driveability and performance may be reduced and fuel consumption increased. The carburetor can be modified to compensate for this high altitude richness. However, the carburetor must be returned to standard factory specifications when lower altitude riding is desired. (See page 50.)

CAUTION:

- * *Sustained operation at altitudes below 5,000 feet (1,500 m) with high altitude carburetor modifications may cause engine overheating and damage.*

PARKING

1. Stop the vehicle, shift the transmission into neutral, turn the fuel valve, fuel cap lever, and ignition switch OFF.
2. Pull the parking brake lever and lock it. (See page 15.)

WARNING

- * *Do not park on an incline. If you must park on a hill, place the **FOURTRAX** across the incline so that it neither faces downhill nor uphill.*

MAINTENANCE SCHEDULE

Perform the Pre-ride Inspection (Page 28) at each scheduled maintenance period.

I: Inspect and Clean, Adjust, Lubricate or Replace, if necessary C: Clean R: Replace A: Adjust L: Lubricate			INITIAL SERVICE PERIOD (First week of operation)	REGULAR SERVICE PERIOD (Every 30 operating days)	Refer to page
*	FUEL LINE	YEAR I			—
*	FUEL STRAINER SCREEN	YEAR C			—
*	THROTTLE OPERATION		I	I	64
*	CARBURETOR CHOKE			I	—
	AIR CLEANER	NOTE (1)		C	54
	AIR CLEANER CASE DRAIN TUBE	NOTE (2)		I	58
	SPARK PLUG			I	53
*	VALVE CLEARANCE		I	I	55
	ENGINE OIL		R	R	48
	ENGINE OIL FILTER		R	R	48
*	CARBURETOR IDLE SPEED		I	I	50
	FINAL DRIVE OIL	YEAR I 2 YEARS R			65
	BRAKE FLUID	2 YEARS R		I	61
*	BRAKE SHOE WEAR	YEAR I NOTE (2)			59, 60

I: Inspect and Clean, Adjust, Lubricate or Replace, if necessary C: Clean R: Replace A: Adjust L: Lubricate			INITIAL SERVICE PERIOD (First week of operation)	REGULAR SERVICE PERIOD (Every 30 operating days)	Refer to page
	BRAKE SYSTEM		I	I	59-61
*	REVERSE LOCK SYSTEM		I	I	-
	SKID PLATE, GUARD PLATE			I	66
*	CLUTCH SYSTEM		I	I	58
*	SUSPENSION			I, L	-
*	SPARK ARRESTER	NOTE (3)		C	-
*	NUT, BOLT, FASTENER		I	I	-
**	WHEEL		I	I	-
**	STEERING SHAFT HOLDER BEARING	YEAR 1			-
**	STEERING SYSTEM	YEAR 1			-

- * SHOULD BE SERVICED BY AUTHORIZED HONDA DEALER, UNLESS THE OWNER HAS PROPER TOOLS AND SERVICE DATA AND IS MECHANICALLY QUALIFIED. REFER TO THE OFFICIAL HONDA SERVICE MANUAL.
- ** IN THE INTEREST OF SAFETY, WE RECOMMEND THESE ITEMS BE SERVICED ONLY BY AN AUTHORIZED HONDA DEALER.

NOTE: (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) USA only.

WARNING

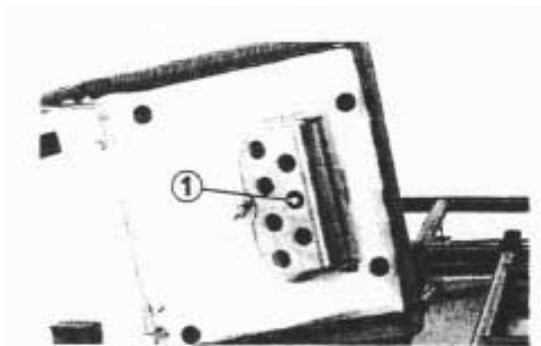
- * *Always turn the engine off before performing any maintenance operations unless otherwise stated.*
- * *To maintain the safety and reliability of your HONDA FOURTRAX do not modify it and use only new genuine HONDA parts or their equivalent when servicing or repairing.*
The use of replacement parts which are not of equivalent quality may impair the operation of your FOURTRAX.

TOOL KIT

The tool kit (1) is stored in the compartment under the seat. The tools provided are sufficient to perform routine maintenance and simple repairs. Any extensive work requiring additional tools should be performed by an authorized Honda motorcycle dealer.

Listed below are the items included in the tool kit:

- Screw driver blade
- Handle for screw driver
- 10 x 12 mm open end wrench
- 14 x 17 mm open end wrench
- Pliers
- 7 mm box wrench/plug wrench
- Handle
- Tool bag



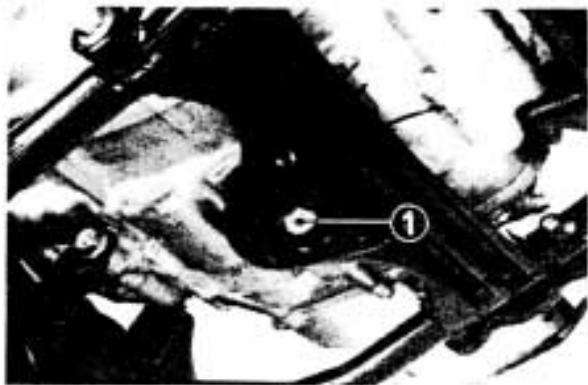
(1) Tool kit

ENGINE OIL AND FILTER

Engine oil should be changed in accordance with the maintenance schedule. Use motor oils of the grade and viscosity recommended on Page 25.

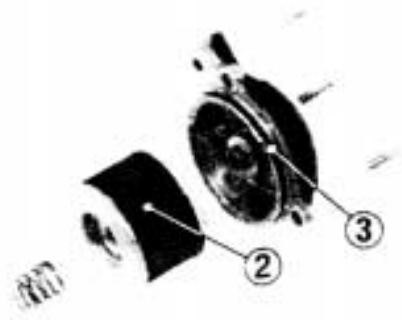
When changing oil, drain the oil from the crankcase while the engine is still warm. This will ensure complete and rapid draining.

1. With the FOURTRAX on level ground, remove the oil filler cap from the right crankcase cover.
2. Place an oil drain pan under the crankcase and remove the oil drain plug (1).



(1) Oil drain plug

3. Remove the oil filter cover by removing the screws. Let the remaining oil drain out. Discard the oil filter (2).
4. Check that the oil filter cover O-ring (3) is in good condition and then install the new oil filter with the rubber on oil filter facing out and install the cover using the screws. Tighten the screws securely.
5. Fill the crankcase with approximately 2.1 liters (2.2 US qt) of the recommended oil.



(2) Oil filter

(3) O-ring

6. Install the oil filler cap.
7. Start the engine and let it idle for 2–3 minutes.
8. Stop the engine and make sure that oil level is between the upper and lower marks on the dipstick.
If necessary, add more oil but do not overfill.

CAUTION

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

FUEL STRAINER

The fuel strainer is on the left side of the carburetor. The fine mesh screen of the strainer prevents dirt from entering the carburetor passages. Dirt which accumulates in the fuel strainer must be removed periodically, or the fuel flow will eventually be restricted.

WARNING

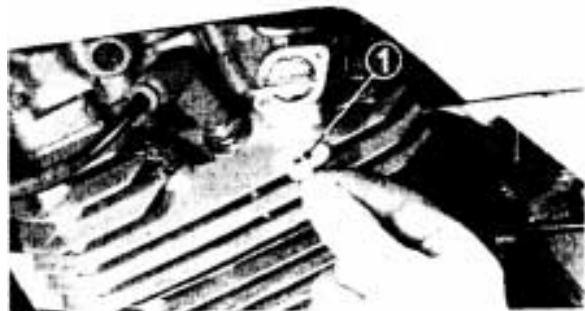
** Gasoline is extremely flammable and is explosive under certain conditions. Perform this operation in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area.*

1. Turn the fuel valve OFF.
2. Remove the strainer cap.
3. Remove the filter screen (1).
4. Wash the screen in non-flammable or high flash point solvent.

WARNING

** Never use gasoline or low-flash point solvents for cleaning the fuel strainer. A fire or explosion could result.*

5. Reassemble by reversing the disassembly sequence.
6. Turn the fuel valve ON, and check for leaks. Correct if necessary.



(1) Filter screen

CARBURETOR

The engine must be warm for accurate idle adjustment. Ten minutes of stop-and-go riding is sufficient.

NOTE:

* Do not attempt to compensate for faults in other systems by carburetor adjustment. See your authorized Honda dealer for regularly scheduled carburetor adjustments.

1. Warm up the engine.
2. Adjust idle speed with the throttle stop screw (1).
IDLE SPEED: $1,400 \pm 100$ rpm
3. To adjust the fuel mixture, turn the pilot screw clockwise until you hear the engine miss or decrease in speed, then counterclockwise until the engine again misses or decreases in speed. Center the pilot screw exactly between these two extreme positions.

Usually the correct setting (between extremes of rich and lean) will be found to be $2\frac{3}{8}$ turns open from a fully closed position.

If idle speed changes after adjusting the fuel mixture, readjust the throttle stop screw.



(1) Throttle stop screw

HIGH ALTITUDE

When operating this FOURTRAX at high altitude the air-fuel mixture becomes overly rich.

Above 6,000 feet (1,800 m) driveability and performance may be reduced and fuel consumption increased.

A high altitude jet is available for carburetor modification to compensate for this high altitude richness. Although installation and adjustment procedures are offered here. We strongly urge that this carburetor modification be performed by your authorized Honda dealer, unless you are mechanically proficient and have the necessary tools.



(1) Main jet

CAUTION:

- * Sustained operation at lower altitudes below 5,000 feet (1,500 m) with the high altitude jet installed may cause engine overheating and damage.

Altitude	Main jet	Pilot screw
Below 6,000 feet	No. 128	Factory preset
Above 5,000 feet	No. 122	Screw in 1/4 from factory preset

Installation: Above 5,000 ft (1,500 m)

1. Turn the fuel valve OFF.
2. Place the carburetor drain tube in a suitable container. Turn the carburetor drain screw counterclockwise and drain the carburetor.

WARNING

- * Gasoline is extremely flammable and is explosive under certain conditions. Perform this operation in a well-ventilated area. Do not smoke or allow flames or sparks in the area.

3. Remove the seat by moving the seat lever. Remove the screw on the carburetor bands.
4. Remove the screw on air cleaner vent tube bands.
5. Remove the air cleaner case by removing two bolts (2).
6. Remove the vent tube and remove the carburetor.
7. Remove the float chamber.
8. Remove the standard main jet (1) and install the high altitude main jet.
9. Install the carburetor, vent tube and air cleaner case in reverse order of removal.
10. Make sure the drain screw is turned fully clockwise and turn the fuel valve ON.
11. Check to see if the throttle returns without hesitation and the throttle valve comes down to the lowest position without fail.
12. Make sure that the fuel tube and overflow tube are correctly routed as they were originally installed.
13. Start the engine. Adjust the idle speed (page 50).

NOTE:

- * Adjust the idle speed at high altitude to ensure proper high altitude operation.

Removal: Below 6,000 ft (1,800 m)

1. Follow installation steps 1–7.
2. Reinstall the standard main jet.
3. Reinstall the carburetor. Adjust the idle speed (page 50).

NOTE:

- * Adjust the idle speed at low altitude to ensure proper low altitude operation.



(2) Bolts

SPARK PLUG

Standard spark plug

DR8ES-L (NGK) X24ESR-U (ND)

CAUTION:

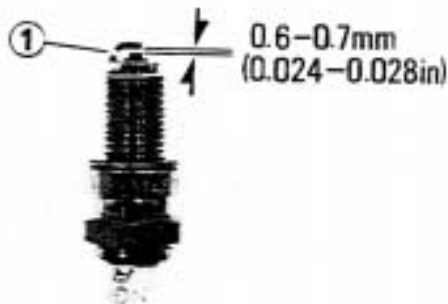
* *The use of spark plugs of incorrect size or heat range can cause serious engine damage.*

1. Disconnect the spark plug cap.
2. Clean any dirt from around the spark plug base.
3. Remove the plug with the wrench provided in the tool kit.
4. Visually inspect the spark plug electrodes for wear. The center electrode should have square edges and the side electrode should not be eroded. If the electrodes and insulator tip appear unusually fouled or burned, we suggest that you contact an authorized Honda dealer for inspection of the TRX. Discard the spark plug if there is apparent wear or if the insulator is cracked or chipped.
5. Make sure that the spark plug gap is 0.6–0.7 mm (0.024–0.028 in) using a wire-type feeler gauge. If adjustment is necessary, bend the side electrode (1) carefully.

6. With the plug washer attached, thread the spark plug in by hand to prevent cross-threading.
7. Tighten a new spark plug 1/2 turn with the spark plug wrench to compress the washer. If you are reusing a plug, it should only take 1/8–1/4 turn after the plug seats.

CAUTION:

* *The spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the engine.*



(1) Side electrode

AIR CLEANER

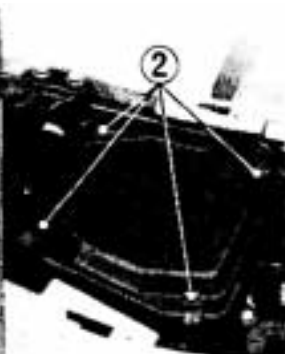
The air cleaner element accumulates dust and must be cleaned periodically. If the FOURTRAX is ridden in dusty areas, the element must be cleaned at more frequent intervals than specified in the MAINTENANCE SCHEDULE.

To clean the filter element:

1. Remove the seat by pulling the lever (1).
2. Remove the four retainer clips (2) attaching the air cleaner case.
3. Remove the screws (3) and remove the air cleaner assembly from the frame.
4. Remove the filter element, wash it in non-flammable or high flash point solvent and allow it to dry thoroughly.



(1) Lever



(2) Retainer clips



(3) Screws

WARNING

- * *Never use gasoline or low flash point solvents for cleaning the air cleaner element. A fire or explosion could result.*
5. Soak the filter element in clean gear oil (SAE 80 SAE90) until saturated, then squeeze out the excess oil.
 6. Reassemble by reversing the disassembly sequence.

CAUTION:

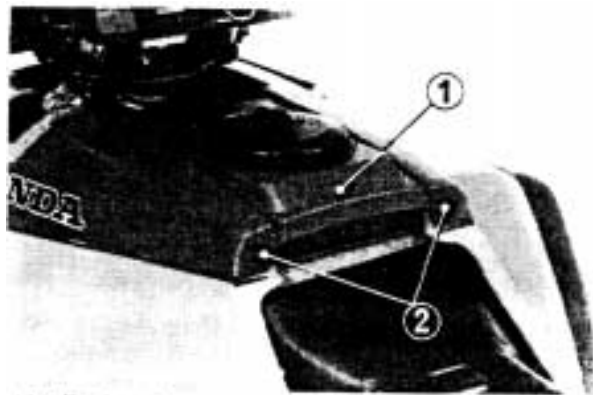
- * *Do not twist the filter element when squeezing the excess oil from the filter element.*

VALVES

Valve clearance should be maintained at 0.08 mm (0.003 in). Excessive clearance will cause noise. Insufficient clearance will cause loss of power and could cause valve damage.

NOTE:

- * Check and adjust valve clearances while the engine is cold. The clearance will change as the temperature rises.

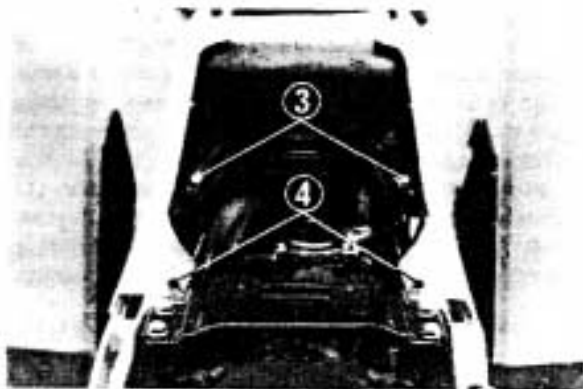


(1) Fuel tank cover
(2) Screws

1. Turn the fuel valve OFF and disconnect the fuel line at the fuel valve.
2. Remove the fuel tank cover (1) by removing the two screws (2).
3. Remove the two fuel tank mounting bolts (3) and remove rear fender bolts (4).

WARNING

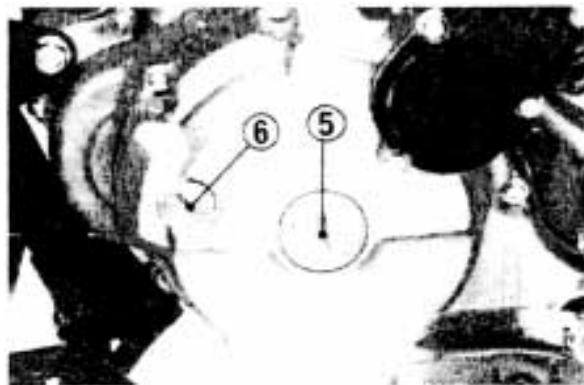
- * *Gasoline is extremely flammable and is explosive under certain conditions. Perform this operation in a well-ventilated area. Do not smoke or allow flames or sparks in the area.*



(3) Tank mounting bolts
(4) Rear fender bolts

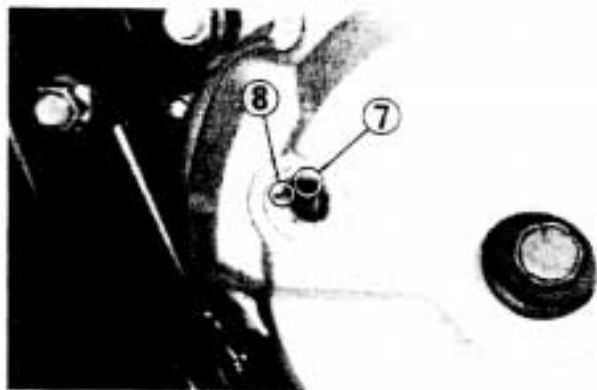
4. Remove the fuel tank.
5. Remove the screw on air vent tube.
6. Remove the air cleaner case by removing two bolts.
7. Remove the air vent tube.
8. Remove the crankshaft hole cap (5) and timing mark hole cap (6).
9. Remove the valve adjuster covers.
10. Rotate the alternator rotor clockwise until the T mark (7) on the alternator rotor lines up with the timing index mark (8) on the cover. In this position, the piston may either be on the compression or the exhaust stroke. The adjustment must be made when the piston is on top of the compression stroke and both the intake and exhaust valves are closed. This can be determined by moving the rocker arms by hand. If they are free, it is an indication that the valves are closed and that the piston is on the compression stroke. If they are tight and the valves are open, rotate the alternator rotor 360° (one complete revolution) and realign the T mark to the timing index mark.

11. Check the clearance of both valves by inserting a 0.08 mm (0.003 in) feeler gauge (12) between the adjusting screw and valve stem.

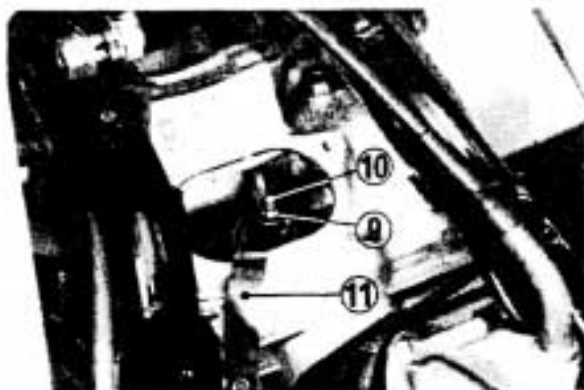


(5) Crankshaft hole cap
(6) Timing mark hole cap

12. If adjustment is necessary, loosen the adjusting screw lock nut (9) and turn the screw (10) so that there is a slight resistance when the feeler gauge (11) is inserted.
13. After adjustment, tighten the lock nut while holding the adjusting screw to prevent it from turning.
14. Recheck the clearance to make sure that it has not changed.
15. Reinstall the removed parts.



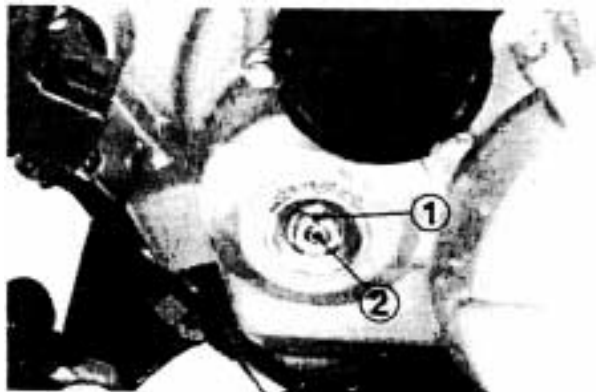
(7) T mark (8) Index mark



(9) Lock nut (11) Feeler gauge
(10) Adjusting screw

CLUTCH

1. Make sure the ignition switch is OFF.
2. Loosen the lock nut (1), and turn the clutch adjuster (2) counterclockwise until you feel resistance. Then turn the adjuster 1/4 turn clockwise, and tighten the lock nut to hold the adjuster in this position.
3. After adjustment, start the engine and test ride the FOURTRAX to be certain that the clutch is operating properly.



(1) Lock nut

(2) Clutch adjuster

AIR CLEANER CASE DRAIN TUBE

- Remove drain tube by removing clip (1) and drain the deposits.
- Reinstall the drain plug.

NOTE:

- * Service more frequently before starting the engine, or when deposits can be seen in the transparent section (2) of the drain tube.



(1) Clip

(2) Transparent section

BRAKES

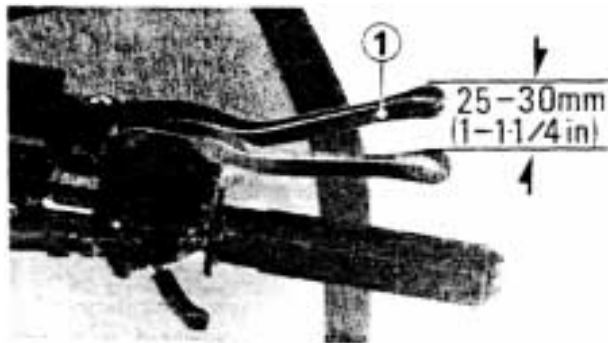
Front Brake Lever

This FOURTRAX has hydraulic front drum brakes. As the brake shoe linings wear, brake fluid level drops, automatically compensating for wear.

Fluid level and shoe lining wear must be inspected periodically. The system must be inspected frequently to ensure there are no fluid leaks.

1. Measure the distance the brake lever moves before the brake starts to take hold.

Free play, measured at the tip of the front brake lever (1), should be within 25–30 mm (1–1 1/4 in)



(1) Front brake lever

2. Remove the brake shoe lining inspection hole cap (2) and inspect the lining thickness.

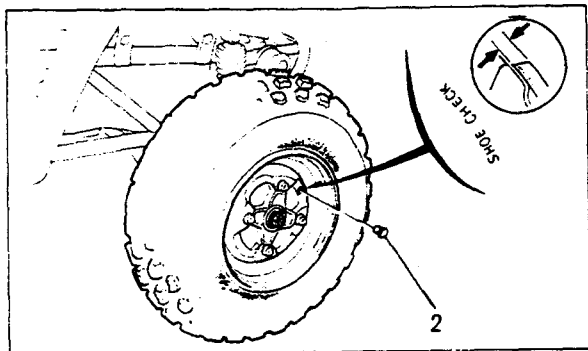
Lining Thickness:

Standard: 4.0 mm (0.16 in)

Service Limit: 2.0 mm (0.08 in)

NOTE:

- * If either lining is worn beyond the limit, both brake shoes must be replaced.
3. If the brake lever free play is excessive and the brake linings are not worn beyond the recommended limit, adjust the brake shoe lining-to-drum clearance.



(2) Lining inspection hole cap

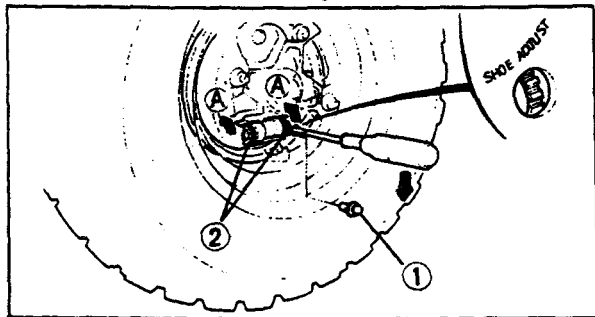
4. Recheck the brake lever free play. If free play is still excessive after adjusting the brake lining clearance, there is probably air in the brake system and it must be bled out. See your authorized Honda dealer for this service.

Adjustment:

1. Pump the brake lever 2-3 times firmly and release it.
2. Remove the adjusting hole cap (1).
3. Turn both brake shoe adjusters (2) up with a screwdriver until the front brake locks.

NOTE:

- * Do not work on both adjusters at the same time.



- (1) Adjustment hole cap (2) Adjusters
(A) Brake locks

4. Back the adjusters off three clicks and pump the brake lever several times.
5. Turn the wheel manually and make sure it does not drag.
6. Adjust the other front brake.
7. Install the rubber cap.

Brake Fluid Level:

WARNING

- * *Brake fluid may cause irritation. Avoid contact with skin or eyes. In case of contact, flush thoroughly with water and call a doctor if your eyes were exposed.*

Brake fluid must be added to the reservoir whenever the fluid level begins to reach the lower level mark (1).

Remove the screws, reservoir cover, and diaphragm. Fill the reservoir with DOT 3 or 4 BRAKE FLUID from a sealed container up to the upper level mark (2). Reinstall the diaphragm and cover. Tighten the screws securely.

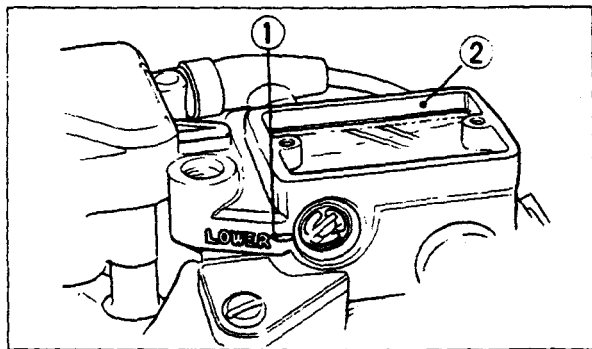
CAUTION

- * *When adding brake fluid, be sure the reservoir is horizontal before the cover is removed or brake fluid may spill out.*

- * Use only DOT 3 or 4 brake fluid from a sealed container.
- * Handle brake fluid with care because it can damage paint and instrument lenses.
- * Never allow contaminants (dirt, water, etc.) to enter the brake fluid reservoir.

Other Checks:

Make sure there are no fluid leaks. Check for deterioration or cracks in the hose and fittings.



- (1) Lower level mark
- (2) Upper level mark

Rear Brake Pedal

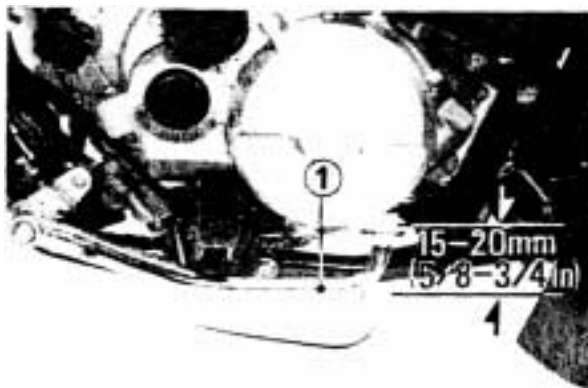
Measure the distance the rear brake pedal moves before the brake starts to take hold.

Free play, measured at the end of the pedal (1), should be within 15–20 mm (5/8–3/4 in.).

Adjust by turning the brake pedal adjusting nut (2) located on the brake operating rod at the rear of the frame.

NOTE:

- * Make sure the cut-out on the adjusting nut is seated on the brake arm pin.

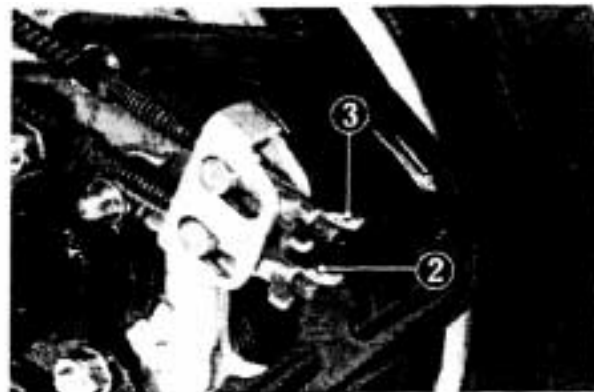


(1) Rear brake pedal

Other Checks:

Check the brake cable for kinks or signs of wear that could cause sticking or failure. Lubricate the brake cable with a commercially available cable lubricant to prevent premature wear and corrosion.

Make sure the brake arm, spring, and fasteners are in good condition.



(2) Brake pedal adjusting nut

(3) Brake lever adjusting nut

Rear Brake Lever/Parking Brake

Measure the distance the rear brake lever moves before the brake starts to take hold.

Free play, measured at the tip of the brake lever (4), should be within 15–20 mm (5/8–3/4 in). Minor adjustments can be made with the upper adjuster (6) on the front brake lever. Loosen the lock nut (5) and turn the upper adjuster (6). Major adjustments should be made using the lower adjuster (7) located on the brake arm (8).

Other Checks:

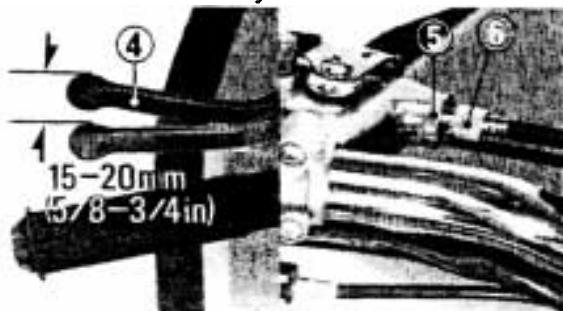
Check the brake cable for kinks or signs of wear that could cause sticking or failure. Lubricate the brake cable with a commercially available cable lubricant to

prevent wear and corrosion. Make sure the brake arm, spring, and fasteners are in good condition.

Wear Indicator:

When the brake is applied, an arrow (10) attached to the brake arm (8) moves toward a reference mark (9) on the brake panel.

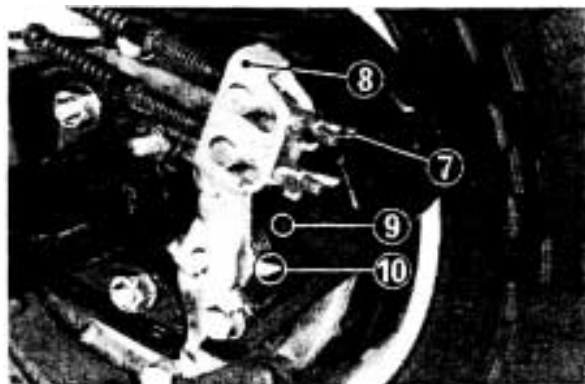
If the arrow aligns with the reference mark on full application of the brake, the brake shoes must be replaced. See your authorized Honda dealer for this service.



(4) Rear brake lever

(5) Lock nut

(6) Upper adjuster



(7) Lower adjuster

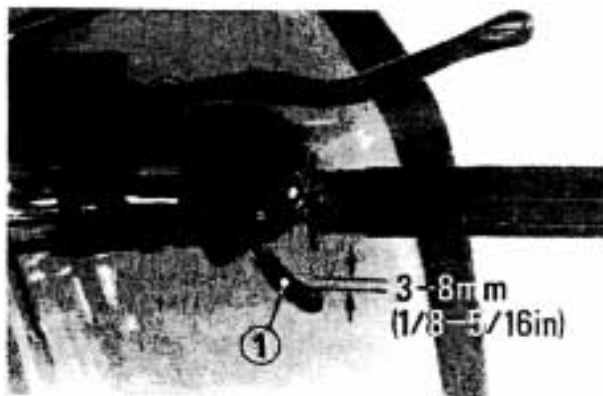
(10) Arrow

(8) Brake arm

(9) Reference mark

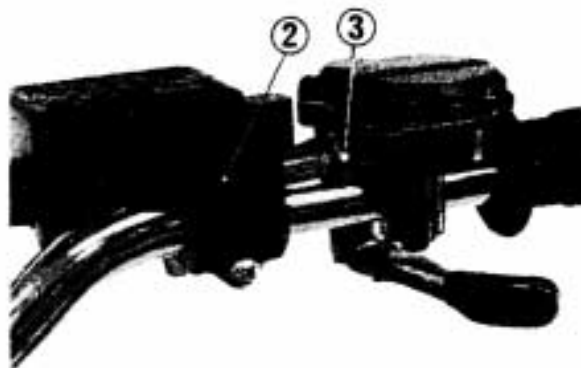
THROTTLE CABLE

Inspect the throttle cable for condition and operation. Replace the cable if it has become worn or kinked. Lubricate the cable with a commercially available cable lubricant to prevent premature wear and corrosion. Free play, measured at the tip of the throttle lever (1), should be maintained at 3–8 mm (1/8–5/16 in).



(1) Throttle lever

The cable adjuster (3) is located near the right gri. Slide the rubber sleeve (2) back to expose the throttle cable adjuster (3). Turn the adjuster to obtain the correct free play. Reinstall the sleeve after adjustment.



(2) Rubber sleeve

(3) Cable adjuster

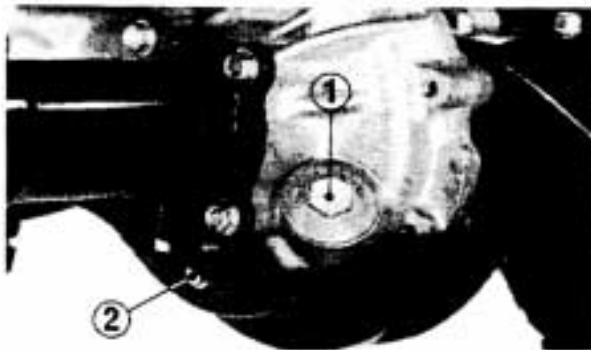
FINAL DRIVE OIL

Change the oil when specified by the maintenance schedule.

NOTE:

* Change the oil with the final drive warm and the TRX on level ground to assure complete and rapid draining.

1. To drain the oil, remove the oil filler cap (1) and drain plug (2).
2. After the oil has completely drained, install the drain plug.



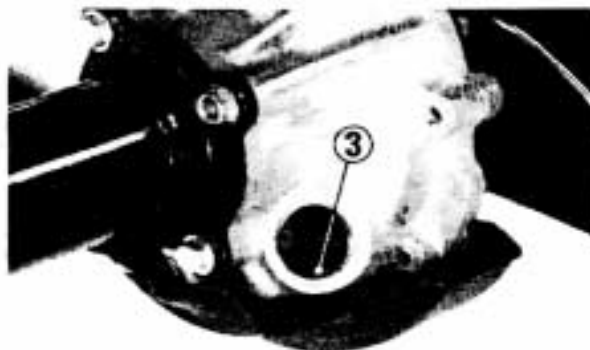
- (1) Oil filler cap
(2) Oil drain plug

Drain Plug Torque:

10–14 N·m (1.0–1.4 kg·m, 7–10 ft·lb)

3. Fill the final drive with approximately 100 cc (3.3 US oz) of the recommended oil.
Make sure the recommended oil is filled up to the lower edge of the inspection hole (3).
4. Install the oil filler cap.

Recommended oil: HYPOID GEAR OIL SAE80



- (3) Inspection hole

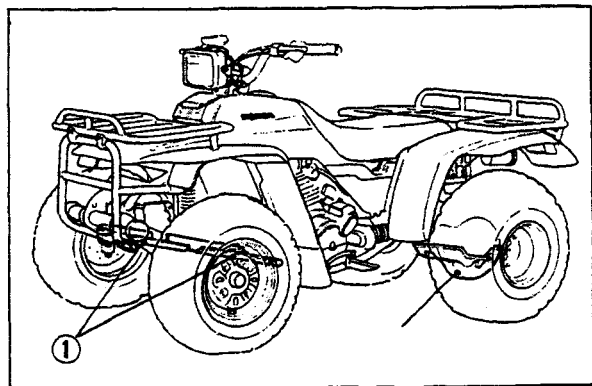
ENGINE UNDER GUARD AND SKID PLATE

The engine under guard (1) and skid plate (2) protect the engine and rear differential from rocks.

Check the under guard and plate for cracks, damage or looseness at intervals shown in the Maintenance Schedule (page 29).

Replace the under guard and plate with new ones if they are cracked or damaged.

If the under guard and plate bolts are loose, tighten them securely.

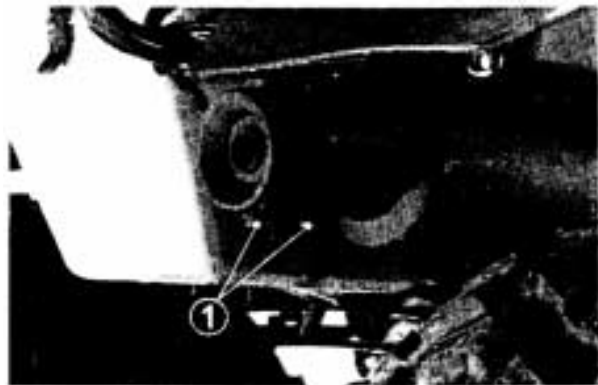


(1) Engine under guard (2) Skid plate

SPARK ARRESTER (USA ONLY)

The exhaust system must be periodically purged of accumulated carbon.

1. Remove the spark arrester fasteners (1) and the spark arrester lid.
2. Start the engine and rev approximately twenty times.



(1) Fasteners

WARNING

- * *Do not perform this operation immediately after the engine has been run because the exhaust system becomes very hot.*
 - * *Because of the increased fire hazard ensure that there are no combustible materials in the area when purging the spark arrester.*
 - * *Wear eye protection.*
 - * *Do not stand behind the vehicle while purging the carbon from the spark arrester.*
 - * *Never run the engine in a closed area. The exhaust contains poisonous carbon monoxide gas that may cause loss of consciousness and lead to death.*
3. After clearing the spark arrester of carbon, reinstall the spark arrester lid and fasteners.

STORAGE GUIDE

Storage

Extended storage, such as for winter, requires that you take certain steps to reduce the effects of deterioration from non-use of the FOURTRAX. In addition, necessary repairs should be made **BEFORE** storing the FOURTRAX; otherwise, these repairs may be forgotten by the time the FOURTRAX is removed from storage.

1. Change the engine oil and filter.

WARNING

** Gasoline is flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks near the equipment while draining fuel.*

2. Drain the fuel tank and carburetor. Spray the inside of the tank with an aerosol rust-inhibiting oil. Reinstall the fuel cap on the tank.

3. Remove the spark plug and pour a tablespoon (15-20 cc) of clean engine oil into the cylinder. Operate the starter for a few seconds to distribute the oil, then reinstall the spark plug.

NOTE:

* When turning the engine over, the Engine Stop Switch should be OFF and the spark plug placed in its cable cap and grounded to prevent damage to the ignition system.

4. Remove the battery. Store in an area protected from freezing temperatures and direct sunlight. Check the electrolyte level and slow charge the battery once a month.
5. Wash and dry the FOURTRAX.

6. Inflate the tires to their recommended pressures. Place the FOURTRAX on blocks to raise both front and rear tires off the ground.
7. Cover the FOURTRAX (don't use plastic or other coated materials) and store in an unheated area, free of dampness with a minimum of daily temperature variation. Do not store the FOURTRAX in direct sunlight.

Removal from Storage

1. Uncover and clean the FOURTRAX. Change the engine oil if more than 4 months have passed since the start of storage.
2. Check the voltage and slow charge the battery if it is below 12.8V. Install the battery.
3. Drain any excess aerosol rust-inhibiting oil from the fuel tank. Fill the fuel tank with fresh gasoline.
4. Perform all Pre-ride Inspection checks (page 29). Test ride the FOURTRAX at low speeds in a safe riding area.

TRANSPORTING

1. Turn the fuel tank cap lever and fuel valve OFF.
2. Place the carburetor drain tube in a suitable container.
3. Turn the drain screw counterclockwise to drain the gasoline from the carburetor.

WARNING

- * *Gasoline is flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks near the equipment while draining fuel.*
- * *Never incline the machine with the front wheels up without draining the fuel and removing the battery. Fuel vapor or spilled fuel may ignite and the battery may leak electrolyte.*

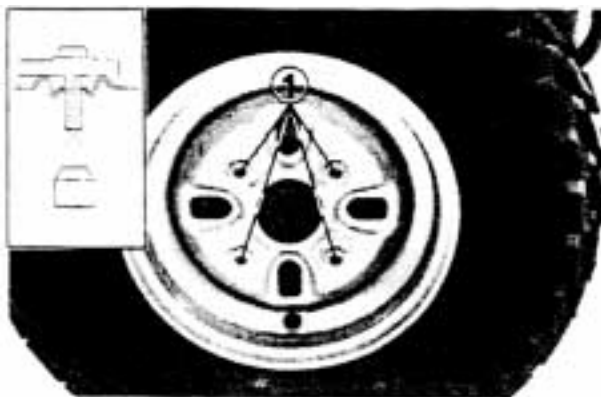
4. After draining, turn the drain screw clockwise until tight.

NOTE:

- * Be sure the fuel drain is closed (screw turned clockwise) before refueling the FOURTRAX.
 - * It is not necessary to drain the engine oil from the crankcase, as no appreciable oil leakage will occur when the FOURTRAX is inclined with the front wheels up.
5. Remove the battery, disconnecting the negative (-) terminal first, then the positive (+) terminal. When reinstalling the battery, connect the positive (+) terminal first, then the negative (-).
 6. If wheel removal is required when transporting, follow the procedures on the following pages.

Front Wheel Removal

1. Place a support block under the engine to raise the front wheels off the ground.
2. Loosen the wheel nuts (1) and remove the wheel.



(1) Wheel nuts

Installation Notes:

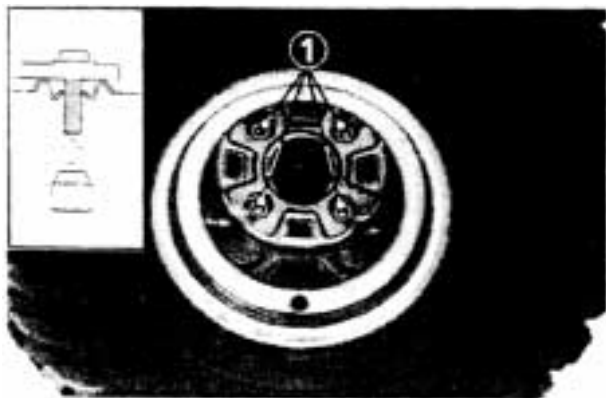
Reinstall the front wheels and tighten the wheel nuts (1) in a crisscross pattern to 60–70 N·m (6.0–7.0 kg·m, 43–50 ft·lb).

WARNING

- * *If a torque wrench was not used for installation, see your dealer as soon as possible to verify proper assembly.*
- * *Install the wheel nuts with their tapers on the inside as shown.*

Rear Wheel Removal

1. Place a support block under the vehicle and raise the rear wheels off the ground.
2. Loosen the wheel nuts (1).
3. Remove the wheel.



(1) Wheel nuts

Installation Notes:

Reinstall the rear wheels and tighten the wheel nuts (1) in a cross pattern to 60–70 N·m (6.0–7.0 kg·m, 43–50 ft·lb).

WARNING

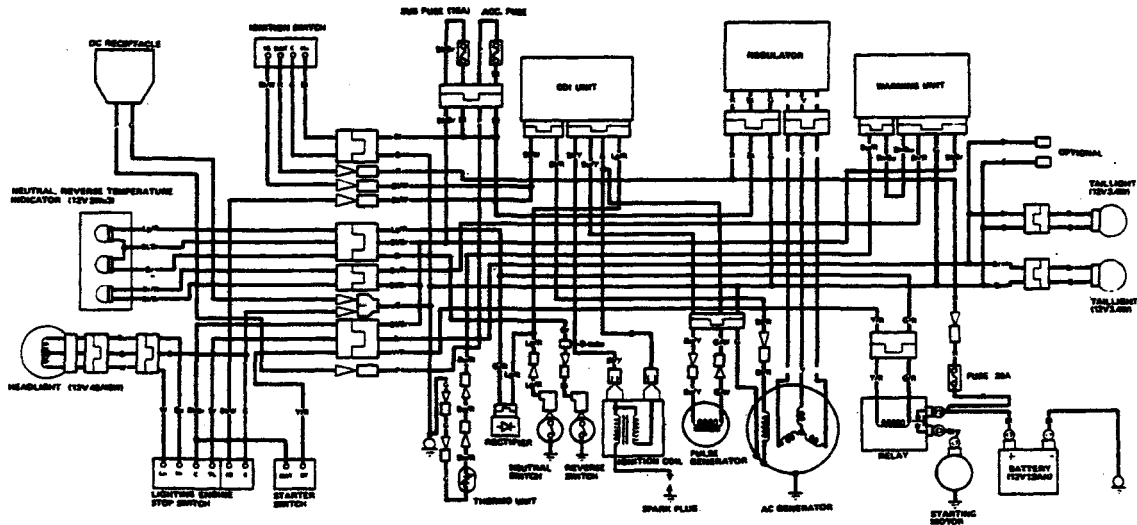
- * *If a torque wrench was not used for installation, see your dealer as soon as possible to verify proper assembly.*
- * *Install the wheel nuts with their tapers on the inside as shown.*

//////////////////////////////////// SPECIFICATIONS //////////////////////////////////////

DIMENSIONS	
Overall length	1,875 mm (73.8iin)
Overall width	1,080 mm (42.5 in)
Overall height	1,020 mm (40.2 in)
Wheelbase	1,235 mm (48.6 in)
WEIGHT	
Dry weight	218 kg (481 lbs)
CAPACITIES	
Engine oil	2.5 l (2.6 US qt)
Fuel tank	10.0 l (2.6 US gal)
Fuel reserve capacity	2.0 l (0.52 US gal)
Passenger capacity	Operator only
ENGINE	
Bore and stroke	74 x 57.3 mm (2.9 x 2.3 in)
Compression ratio	9.0 : 1
Displacement	246 cc (15 cu-in)
Spark plug gap	0.6–0.7 mm (0.023–0.028 in)
Valve clearance	0.08 mm (0.003 in)

CHASSIS AND SUSPENSION	
Caster angle	8°
Trail length	42 mm (1.65 in)
Tire size, front	21 x 7.00-10
rear	25 x 12.00-9
POWER TRANSMISSION	
Primary reduction	2.407
Final reduction	5.684
Gear ratio, 1st	2.389
2nd	1.609
3rd	1.179
4th	0.906
SL	4.083
Reverse gear ratio	5.397

////////////////////////WIRING DIAGRAM////////////////////////////////////



	IS	BAT	E	Stb
OFF	○	○		
ON		○	○	
Color	SWR	R	G	B

SWITCH CONTINUITY												
LIGHTING SWITCH				ENGINE SWITCH			ENGINE SWITCH		STARTER SWITCH			
	C	TL	WLL		W	Lo		E	W		BAT	ST
OFF				IN			OFF			POSS		
ON							ON			POSS		
Color	WV	Gr	Y	Lo			OFF			Color	W	YR
					Gr	W	Color	S	W			

B	BLACK	9	BROWN
Y	YELLOW	0	ORANGE
Bu	BLUE	10	LIGHT BLUE
G	GREEN	11	LIGHT GREEN
R	RED	P	PINK
W	WHITE	21	GRAY

//////////////////////////////////// WARRANTY SERVICE //////////////////////////////////////

Owner Satisfaction

Your satisfaction and goodwill are important to your dealer and to us. All Honda warranty details are explained in the Distributor's Limited Warranty. Normally, any problems with the product will be handled by your dealer's service department. Sometimes, however, in spite of the best intentions of all concerned, misunderstandings can occur. If your problem has not been handled to your satisfaction, we suggest you take the following action:

- Discuss your problem with a member of dealership management. Often complaints can be quickly resolved at that level. If the problem has already been reviewed with the Service Manager, contact the owner of the dealership or the General Manager.
- If your problem still has not been resolved to your satisfaction, contact the Customer Relations Department at the zone office of American Honda Motor Co., Inc. in your area. Zone office locations are shown on the following page. We will need the following information in order to assist you:
 - Your name, address, and telephone number
 - Product model and serial number
 - Date of purchase
 - Dealer name and address
 - Nature of the problem

After reviewing all the facts involved, you will be advised of what action can be taken. Please bear in mind that your problem will likely be resolved at the dealership, using the dealer's facilities, equipment, and personnel, so it is very important that your initial contact be with the dealer.

Your purchase of a Honda product is greatly appreciated by both the dealer and American Honda Motor Co., Inc. We want to assist you in every way possible to assure your complete satisfaction with your purchase.

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