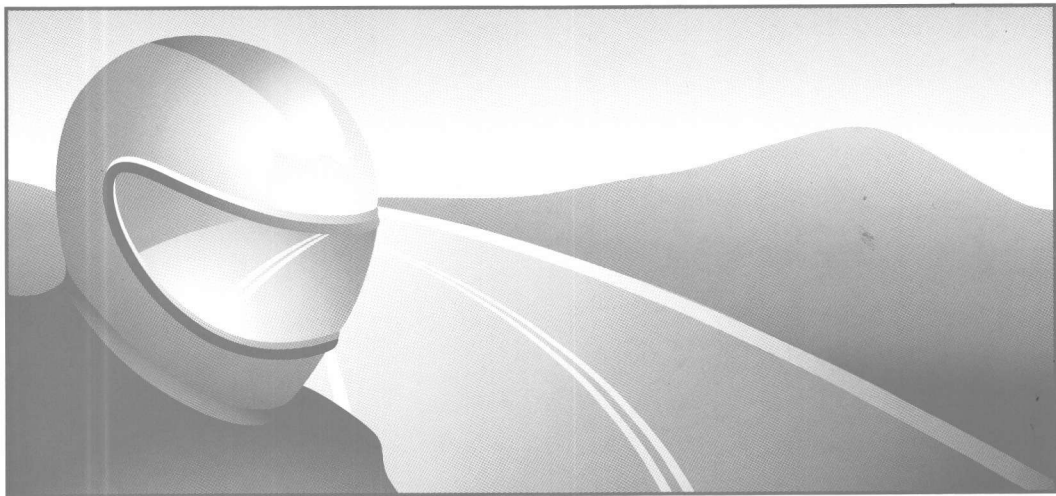




OWNER'S MANUAL



VT1300CS ABS

Honda VT1300CS ABS

OWNER'S MANUAL

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IMPORTANT INFORMATION

- **OPERATOR AND PASSENGER**

This motorcycle is designed to carry the operator and one passenger. Never exceed the maximum weight capacity as shown on the accessories and loading label.

- **ON-ROAD USE**

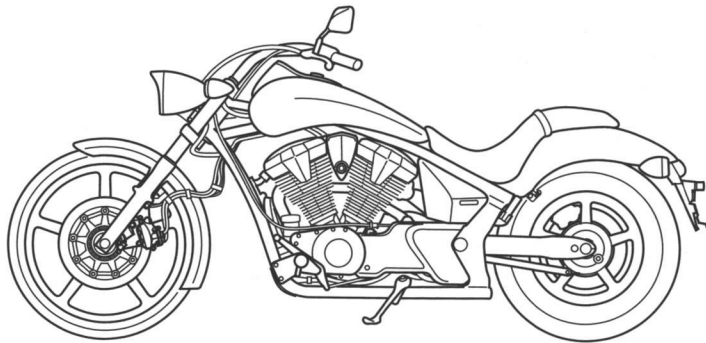
This motorcycle is designed to be used only on the road.

- **READ THIS OWNER'S MANUAL CAREFULLY**

Pay special attention to the safety messages that appear throughout the manual. These messages are fully explained in the "A Few Words About Safety" section which appears before the Contents page.

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

Honda VT1300CS ABS OWNER'S MANUAL



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WELCOME

The motorcycle presents you a challenge to master the machine, a challenge to adventure. You ride through the wind, linked to the road by a vehicle that responds to your commands as no other does. Unlike an automobile, there is no metal cage around you. Like an airplane, a pre-ride inspection and regular maintenance are essential to your safety. Your reward is freedom.

To meet the challenges safely, and to enjoy the adventure fully, you should become thoroughly familiar with this owner's manual **BEFORE YOU RIDE THE MOTORCYCLE**.

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

When service is required, remember that your Honda dealer knows your motorcycle best. If you have the required mechanical "know-how" and tools, your dealer can supply you with an official Honda Shop Manual to help you perform many maintenance and repair tasks.

Pleasant riding, and thank you for choosing a Honda !

- The following codes in this manual indicate each country.

SI	Singapore	
U	Australia	New Zealand

- The specifications may vary with each locale.

A FEW WORDS ABOUT SAFETY

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

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

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

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

- **Safety Labels** — on the motorcycle.
- **Safety Messages** — preceded by a safety alert symbol  and one of three signal words: **DANGER**, **WARNING**, or **CAUTION**.

These signal words mean:

 DANGER

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

 WARNING

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

 CAUTION

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

- **Safety Headings** — such as Important Safety Reminders or Important Safety Precautions.
- **Safety Section** — such as Motorcycle Safety.
- **Instructions** — how to use this motorcycle correctly and safely.

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

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MOTORCYCLE SAFETY

IMPORTANT SAFETY INFORMATION

Your motorcycle can provide many years of service and pleasure — if you take responsibility for your own safety and understand the challenges that you can meet on the road.

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

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 and make sure your passenger does the same. We also recommend that you wear eye protection, sturdy boots, gloves, and other protective gear (page 2).

Make Yourself Easy to See

Some drivers do not see motorcycles because they are not looking for them. To make yourself more visible, wear bright reflective clothing, position yourself so other drivers can see you, signal before turning or changing lanes, and use your horn when it will help others notice you.

Ride Within Your Limits

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

Don't Drink and Ride

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

Keep Your Bike in Safe Condition

For safe riding, it's important to inspect your motorcycle before every ride and perform all recommended maintenance. Never exceed load limits, and only use accessories that have been approved by Honda for this motorcycle. See page 4 for more details.

PROTECTIVE APPAREL

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

Following are suggestions to help you choose proper gear.

WARNING

Not wearing a helmet increases the chance of serious injury or death in a crash.

Be sure you and your passenger always wear a helmet, eye protection and other protective apparel when you ride.

Helmets and Eye Protection

Your helmet is your most important piece of riding gear because it offers the best protection against head injuries. A helmet should fit your head comfortably and securely. A bright-coloured helmet can make you more noticeable in traffic, as can reflective strips.

An open-face helmet offers some protection, but a full-face helmet offers more. Always wear a face shield or goggles to protect your eyes and help your vision.

Additional Riding Gear

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

- Sturdy boots with non-slip soles to help protect your feet and ankles.
- Leather gloves to keep your hands warm and help prevent blisters, cuts, burns and bruises.
- A motorcycle riding suit or jacket for comfort as well as protection. Bright-coloured and reflective clothing can help make you more noticeable in traffic. Be sure to avoid loose clothes that could get caught on any part of your motorcycle.

LOAD LIMITS AND GUIDELINES

Your motorcycle has been designed to carry you and one passenger. When you carry a passenger, you may feel some difference during acceleration and braking. But so long as you keep your motorcycle well-maintained, with good tyres and brakes, you can safely carry loads within the given limits and guidelines.

However, exceeding the weight limit or carrying an unbalanced load can seriously affect your motorcycle's handling, braking and stability. Non-Honda accessories, improper modifications, and poor maintenance can also reduce your safety margin.

The following pages give more specific information on loading, accessories and modifications.

Loading

How much weight you put on your motorcycle, and how you load it, are important to your safety. Anytime you ride with a passenger or cargo you should be aware of the following information.

WARNING

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

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

Load Limits

Following are the load limits for your motorcycle:

Maximum weight capacity:

198 kg (437 lb)

Includes the weight of the rider, passenger, all cargo and all accessories

Maximum cargo weight:

18 kg (40 lb)

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

Loading Guidelines

Your motorcycle is primarily intended for transporting you and a passenger. You may wish to secure a jacket or other small items to the seat when you are not riding with a passenger.

If you wish to carry more cargo, check with your Honda dealer for advice, and be sure to read the information regarding accessories on page 6 .

Improperly loading your motorcycle can affect its stability and handling. Even if your motorcycle is properly loaded, you should ride at reduced speeds and never exceed 130 km/h (80 mph) when carrying cargo.

Follow these guidelines whenever you carry a passenger or cargo:

- Check that both tyres are properly inflated (page 43).
- If you change your normal load, you may need to adjust the rear suspension (page 28).
- To prevent loose items from creating a hazard, make sure that all cargo is securely tied down before you ride away.
- Place cargo weight as close to the center of the motorcycle as possible.
- Balance cargo weight evenly on both sides.
- Do not attach large or heavy items (such as a sleeping bag or tent) to the handlebars, forks or fender.

Accessories and Modifications

Modifying your motorcycle or using non-Honda accessories can make your motorcycle unsafe. Before you consider making any modifications or adding an accessory, be sure to read the following information.

WARNING

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

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

Accessories

We strongly recommend that you use only Honda Genuine Accessories that have been specifically designed and tested for your motorcycle. Because Honda cannot test all other accessories, you must be personally responsible for proper selection, installation and use of non-Honda accessories. Check with your dealer for assistance and always follow these guidelines:

- Make sure the accessory does not obscure any lights, reduce ground clearance and banking angle, limit suspension travel or steering travel, alter your riding position or interfere with operating any controls.
- Be sure electrical equipment does not exceed the motorcycle's electrical system capacity (page 137). A blown fuse can cause a loss of lights or engine power.

- Do not pull a trailer or sidecar with your motorcycle. This motorcycle was not designed for these attachments, and their use can seriously impair your motorcycle's handling.

Modifications

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

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

IMAGE LABELS

〈Except SI type〉

The following pages describe the label meanings. Some labels warn you of potential hazards that could cause serious injury. Others provide important safety information. Read this information carefully and don't remove the labels.

If a label comes off or becomes hard to read, contact your Honda dealer for a replacement.

There is a specific symbol on each label. The meanings of each symbol and label are as follows.

	Read instructions contained in Owner's Manual carefully.
	Read instructions contained in Shop Manual carefully. In the interest of safety, take the motorcycle to be serviced only by a Honda dealer.
	DANGER (with RED background) You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.
	WARNING (with ORANGE background) You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.
	CAUTION (with YELLOW background) You CAN be HURT if you don't follow instructions.



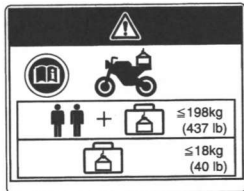
RADIATOR CAP LABEL

DANGER

NEVER OPEN WHEN HOT.

Hot coolant will scald you.

Relief pressure valve begins to open at 1.1 kgf/cm².



ACCESSORIES AND LOADING WARNING LABEL

ACCESSORIES AND LOADING

- The safety stability and handling of this motorcycle may be affected by the addition of accessories and luggage.
- Read carefully the instructions contained in user's manual and installation guide before installing any accessory.
- The total weight of accessories and luggage added to rider's and passenger's weight should not exceed 198 kg (437 lb) , which is the maximum weight capacity.
- The luggage weight must not exceed 18 kg (40 lb) under any circumstances.
- The fitting of large fork-mounted or large handlebar-mounted fairing is not recommended.



REAR CUSHION LABEL

GAS FILLED

Do not open.

Do not heat.

			225	225
	kPa		225	250
	90/90-21M/C 54H			
	DUNLOP: ELITE3 G			
	BRIDGESTONE: G701 F			
	170/80-15M/C 77H			
	DUNLOP: ELITE3			
	BRIDGESTONE: G702 F			

TYRE INFORMATION LABEL

Cold tyre pressure:

[Driver only]

Front 225 kPa (2.25 kgf/cm², 33 psi)

Rear 225 kPa (2.25 kgf/cm², 33 psi)

[Driver and passenger]

Front 225 kPa (2.25 kgf/cm², 33 psi)

Rear 250 kPa (2.50 kgf/cm², 36 psi)

Tyre size:

Front 90/90-21M/C 54H

Rear 170/80-15M/C 77H

Tyre brand: DUNLOP

Front ELITE3 G

Rear ELITE3

Tyre brand: BRIDGESTONE

Front G701 F

Rear G702 F



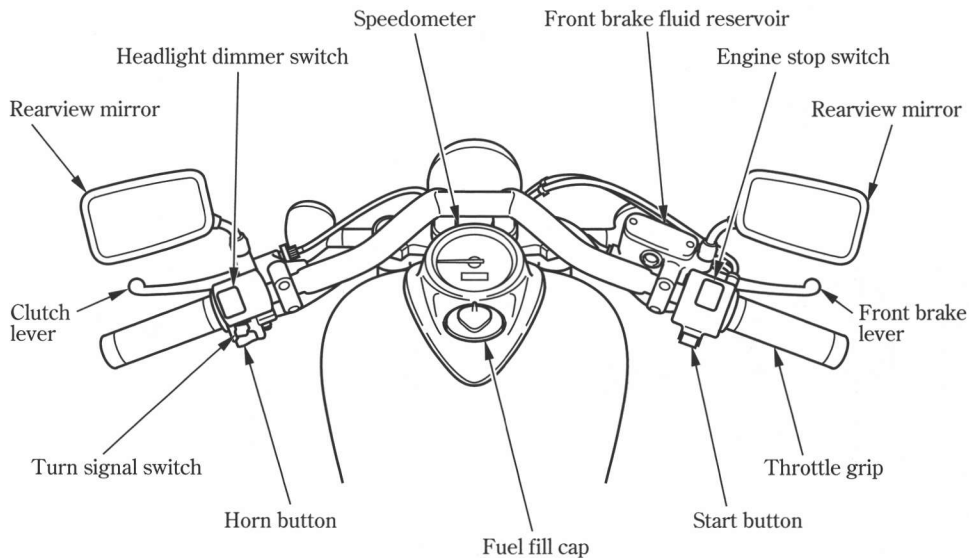
SAFETY REMINDER LABEL

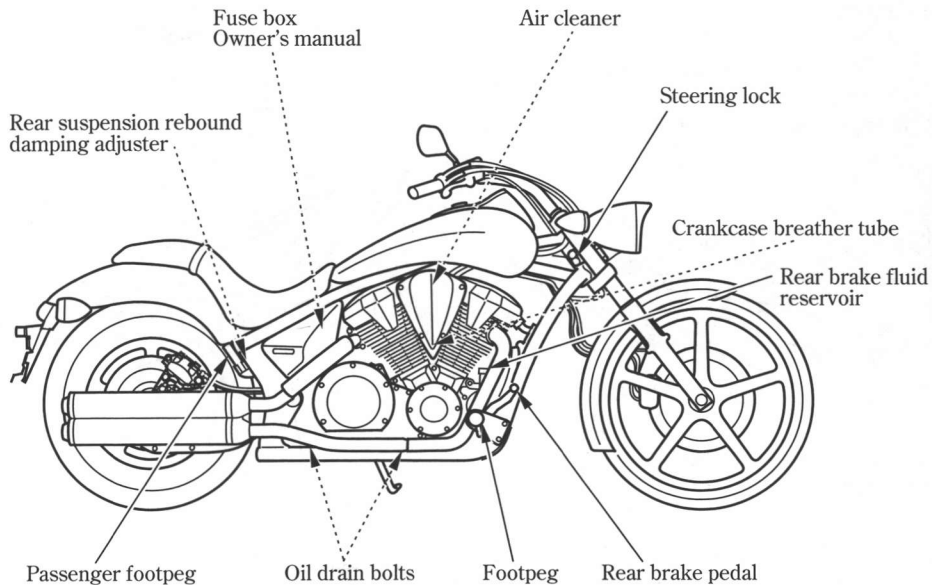
For your protection, always wear helmet and protective gear.

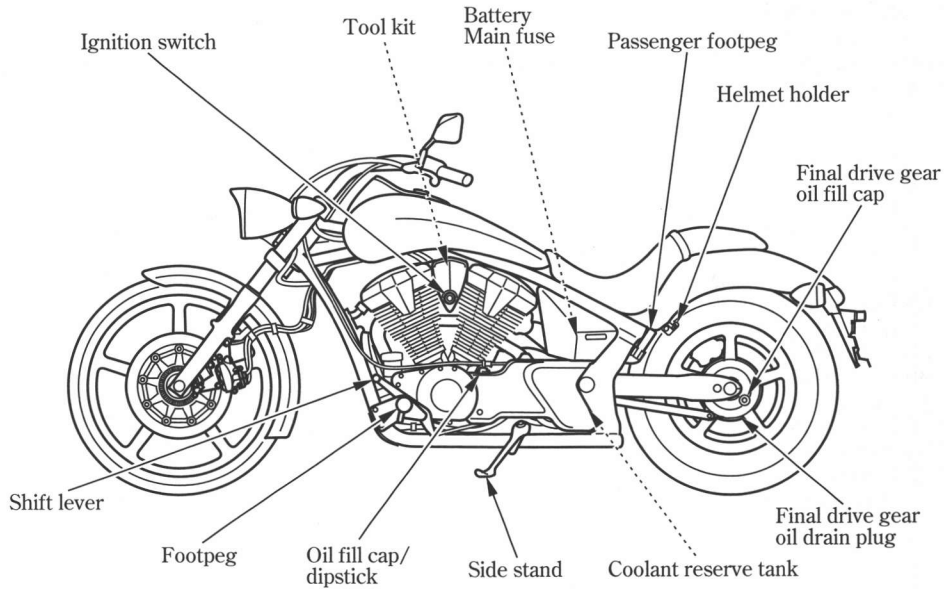
FUEL LABEL

UNLEADED PETROL ONLY

PARTS LOCATION



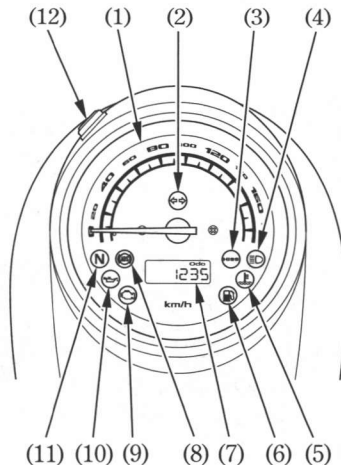




INSTRUMENTS AND INDICATORS

The indicators are contained in the instrument panel. Their functions are described in the tables on the following pages.

- (1) Speedometer
- (2) Turn signal indicator
- (3) Immobilizer system (HISS) indicator
- (4) High beam indicator
- (5) High coolant temperature indicator
- (6) Low fuel indicator
- (7) Odometer/Tripmeter/Digital clock display
- (8) Anti-lock brake system (ABS) indicator
- (9) PGM-FI malfunction indicator lamp (MIL)
- (10) Low oil pressure indicator
- (11) Neutral indicator
- (12) Odometer/Tripmeter/Digital clock select and reset button



(Ref.No.) Description	Function
(1) Speedometer	Shows riding speed.
(2) Turn signal indicator (green)	Flashes when the either turn signal operates.
(3) Immobilizer system (HISS) indicator (red)	This indicator lights for a few seconds when the ignition switch is turned ON and the engine stop switch is at  (RUN). It will then go off if the properly-coded key has been inserted. If an improperly-coded key has been inserted, the indicator will remain on and the engine will not start (page 52). When the blinking function of this indicator is valid and the ignition switch is OFF, it keeps blinking for 24 hours (page 53).
(4) High beam indicator (blue)	Lights when the headlight is on high beam.

(Ref.No.) Description	Function
(5) High coolant temperature indicator (red)	Lights when the coolant is over the specified temperature. If the indicator goes on while riding, stop the engine and check the reserve tank coolant level. Read pages 34 – 37 and do not ride the motorcycle until the problem has been corrected. NOTICE Exceeding maximum running temperature may cause serious engine damage.
(6) Low fuel indicator (amber)	Lights when there is only few fuel left in the fuel tank. The amount of fuel left in the tank when lights and with the vehicle set upright is approximately: 2.2 ℓ (0.58 US gal , 0.48 Imp gal)

(Ref.No.) Description	Function
(7) Odometer/Tripmeter/ Digital clock display	Shows odometer, tripmeter and digital clock. This display shows the initial display (page 22).
Odometer	Shows accumulated mileage (page 23).
Tripmeter A and B	Shows mileage per trip (page 23).
Digital clock	Shows hour and minute (page 25).
(8) Anti-lock Brake System (ABS) indicator (amber)	This indicator normally comes on when the ignition switch is turned ON, and goes off after you ride the motorcycle at speed above 10 km/h (6 mph). If there is a problem with the Anti-lock Brake System (ABS), this indicator lights or flashes and remains on (page 74).

(Ref.No.) Description	Function
(9) PGM-FI malfunction indicator lamp (MIL) (amber)	Lights when there is any abnormality in the PGM-FI (Programmed Fuel Injection) system. Should also light for a few seconds and then go off when the ignition switch is turned ON and engine stop switch is at  (RUN). If it comes on at any other time, reduce speed and take the motorcycle to your Honda dealer as soon as possible.
(10) Low oil pressure indicator (red)	Lights when the engine oil pressure is below normal operating range. Should light when ignition switch is ON and engine is not running. Should go out when the engine starts, except for occasional flickering at or near idling speed when engine is warm. NOTICE Running the engine with insufficient oil pressure may cause serious engine damage.
(11) Neutral indicator (green)	Lights when the transmission is in neutral. Should also light for a few seconds and then go off when the ignition switch is turned ON.

(Ref.No.) Description	Function
(12) Odometer/Tripmeter/ Digital clock select and reset button	Use this button for the following purpose. • To select display mode (page 23) • To reset tripmeter (page 23) • To adjust time (page 25) • To switch blinking of the immobilizer system (HISS) indicator (page 53)

Initial Display

When the ignition switch is turned ON, the display will temporarily show all the modes and digital segments so you can make sure the liquid crystal display is functioning properly.



(1)

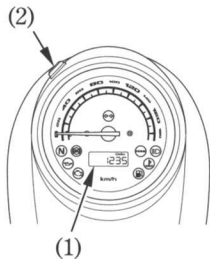
(1) Odometer/Tripmeter/Digital clock display

Odometer/Tripmeter/Digital clock Display

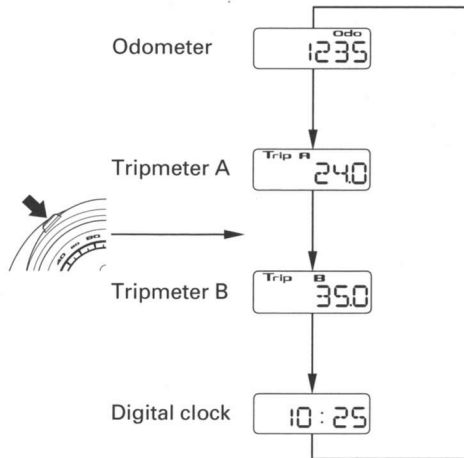
The display (1) has three functions: odometer, tripmeter and digital clock.

The tripmeter has two sub modes, "Trip A" and "Trip B".

Push the button (2) to select the "Odo", "Trip A", "Trip B" or "Digital clock" mode.

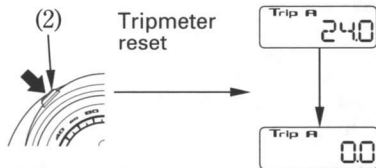


- (1) Odometer/Tripmeter/Digital clock display
- (2) Odometer/Tripmeter/Digital clock select and reset button



To reset the tripmeter, push and hold the button for more than 2 seconds with the display in the “Trip A” or “Trip B” mode.

Tripmeter will reset if the battery is disconnected.

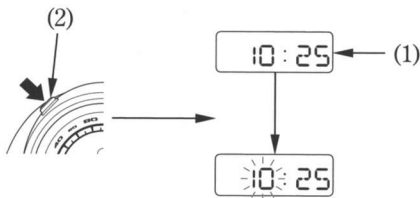


(2) Odometer/Tripmeter/Digital clock select and reset button

Digital Clock

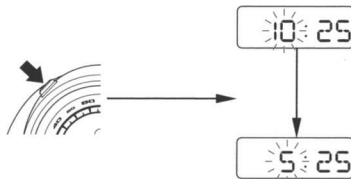
Shows hour and minute. To adjust the time, proceed as follows:

1. Turn the ignition switch ON.
2. Show the digital clock (1).
3. Push and hold the button (2) for more than 2 seconds. The clock will be set in the adjust mode with the hour display flashing.

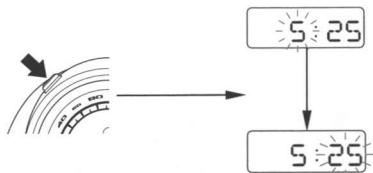


- (1) Digital clock
(2) Odometer/Tripmeter/Digital clock select and reset button

4. To set the hour, push the button until the desired hour is displayed.
 - The time is advanced by one hour, each time the button is pushed.

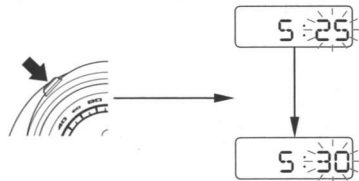


5. Push and hold the button for more than 2 seconds. The minute display will start flashing.



6. To set the minute, push the button until the desired minute. The minute display will return to "00" when "60" is reached without affecting the hour display.

- The time advances by one minute, each time the button is pushed.



7. To end the adjustment, push and hold the button for more than 2 seconds or turn the ignition switch OFF. The display will stop flashing automatically and the adjustment will be cancelled if the button is not pushed for about 30 seconds.

The clock will be reset 1:00 if the battery is disconnected.

MAJOR COMPONENTS

(Information you need to operate this motorcycle)

SUSPENSION

Rebound Damping:

To reduce (SOFT) :

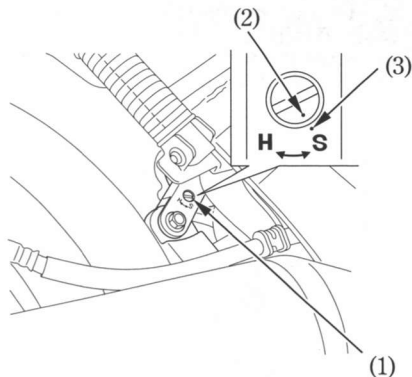
Turn the adjuster counterclockwise toward SOFT (S) for a light load and smooth road condition.

To increase (HARD) :

Turn the adjuster clockwise toward HARD (H) for a firmer ride and rough road condition.

To adjust the adjuster to the standard position, proceed as follows :

1. Turn the damping adjuster (1) clockwise until it will no longer turn (lightly seats). This is the full hard setting.
2. The adjuster is set in the standard position when the adjuster is turned counterclockwise approximately 3/4 turn so that its punch mark (2) aligns with the reference punch mark (3).



- (1) Damping adjuster
- (2) Punch mark
- (3) Reference punch mark

The rear shock absorber assembly includes a damper unit that contains high pressure nitrogen gas. Do not attempt to disassemble or service the damper; it cannot be rebuilt and must be replaced when worn out. Disposal should only be done by your Honda dealer. The instructions found in this owner's manual are limited to adjustment of the shock assembly only.

BRAKES

Both the front and rear brakes are the hydraulic disc types.

As the brake pads wear, the brake fluid level drops.

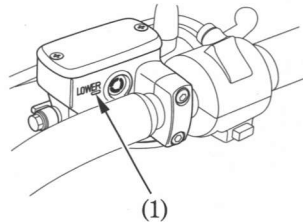
There are no adjustments to perform, but fluid level and pad wear must be inspected periodically. The system must be inspected frequently to ensure there are no fluid leaks. If the brake lever or pedal free travel becomes excessive and the brake pads are not worn beyond the recommended limit (page 112), there is probably air in the brake system and it must be bled. See your Honda dealer for this service.

Front Brake Fluid Level:

With the motorcycle in an upright position, check the fluid level. It should be above the LOWER level mark (1). If the level is at or below the LOWER level mark, check the brake pads for wear (page 112).

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

The recommended brake fluid is Honda DOT 4 brake fluid from a sealed container, or an equivalent.



(1) LOWER level mark

Rear Brake Fluid Level:

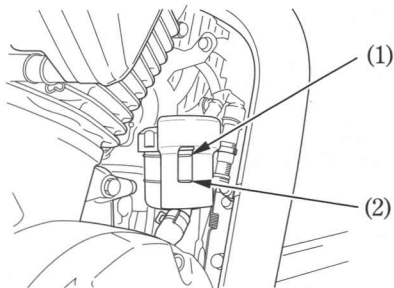
With the motorcycle in an upright position, check the fluid level. It should be between the UPPER (1) and LOWER (2) level marks. If the level is at or below the LOWER level mark, check the rear brake pads for wear (page 113).

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

The recommended brake fluid is Honda DOT 4 brake fluid from a sealed container, or an equivalent.

Other Checks:

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

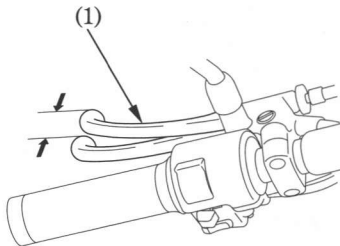


- (1) UPPER level mark
- (2) LOWER level mark

CLUTCH

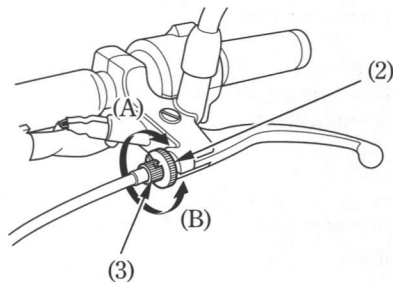
Clutch adjustment may be required if the motorcycle stalls when shifting into gear or tends to creep; or if the clutch slips, causing acceleration to lag behind engine speed. Minor adjustments can be made with the clutch cable adjuster (3) at the clutch lever (1).

Normal clutch lever freeplay is:
10–20 mm (0.4–0.8 in)



(1) Clutch lever

1. Loosen the lock nut (2) and turn the clutch cable adjuster. Tighten the lock nut and check the adjustment.
2. If the adjuster is threaded out near its limit or if the correct freeplay cannot be obtained, loosen the lock nut and turn in the clutch cable adjuster completely. Tighten the lock nut.



(2) Lock nut

(3) Clutch cable adjuster

(A) Increase freeplay

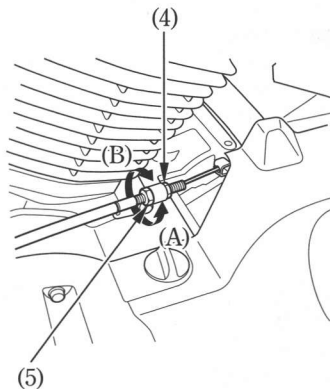
(B) Decrease freeplay

3. Loosen the lock nut (4) at the lower end of the cable. Turn the adjusting nut (5) to obtain the specified freeplay. Tighten the lock nut and check the adjustment.
4. Start the engine, pull in the clutch lever and shift into gear. Make sure the engine does not stall and the motorcycle does not creep. Gradually release the clutch lever and open the throttle. The motorcycle should begin to move smoothly and accelerate gradually.

If proper adjustment cannot be obtained or the clutch does not work correctly, see your Honda dealer.

Other Checks:

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



- (4) Lock nut
(5) Adjusting nut

- (A) Increase freeplay
(B) Decrease freeplay

COOLANT

Coolant Recommendation

〈Except SI type〉

The owner must properly maintain the coolant to prevent freezing, overheating, and corrosion. Use only high quality ethylene glycol antifreeze containing corrosion protection inhibitors specifically recommended for use in aluminum engines. (SEE ANTIFREEZE CONTAINER LABEL).

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

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

Using tap water may cause engine damage.

The factory provides a 50/50 solution of antifreeze and distilled water in this motorcycle. This coolant solution is recommended for most operating temperatures and provides good corrosion protection. A higher concentration of antifreeze decreases the cooling system performance and is recommended only when additional protection against freezing is needed. A concentration of less than 40/60 (40% antifreeze) will not provide proper corrosion protection. During freezing temperatures, check the cooling system frequently and add higher concentrations of antifreeze (up to a maximum of 60% antifreeze) if required.

〈SI type〉

Use only genuine HONDA PRE-MIX COOLANT containing corrosion inhibitors, specifically recommended for aluminum engines when adding or replacing the coolant.

Genuine HONDA PRE-MIX COOLANT is excellent at preventing corrosion and overheating. The effects last for up to 2 years.

The coolant should be inspected and replaced properly by following the maintenance schedule (page 81).

Use any genuine HONDA PRE-MIX COOLANT without diluting with water.

NOTICE

Do not use non-ethylene glycol coolant, tap water, nor mineral water when adding or replacing the coolant.

Use of improper coolant may cause damage, such as corrosions in the engine, blockage of the cooling passage or radiator and premature wear of the water pump seal.

Inspection

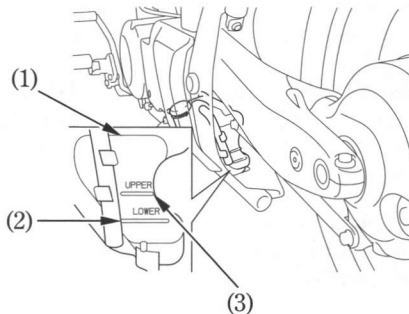
The reserve tank (1) is behind the left rear cover.

Check the coolant level in the reserve tank (1) while the engine is at the normal operating temperature with the motorcycle in an upright position. If the coolant level is below the LOWER level mark (2), remove the left rear cover and the reserve tank cap (page 37).

Add coolant mixture until it reaches the UPPER level mark (3).

Always add coolant to the reserve tank. Do not attempt to add coolant by removing the radiator cap.

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



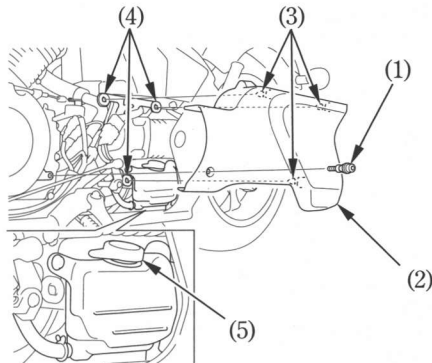
- (1) Reserve tank
- (2) LOWER level mark
- (3) UPPER level mark

Removal:

1. Remove the bolt (1).
2. Carefully pull the left rear cover (2) out until the prongs (3) are clear of the grommets (4).
3. Remove the left rear cover.
4. Remove the reserve tank cap (5).

Installation:

1. Install the reserve tank cap.
2. Position the left rear cover so the prongs are aligned with the grommets.
3. Push the prongs in.
4. Install the bolt.



- | | |
|---------------------|----------------------|
| (1) Bolt | (4) Grommets |
| (2) Left rear cover | (5) Reserve tank cap |
| (3) Prongs | |

FUEL

Fuel Tank

The fuel tank capacity including the reserve supply is:

16.5 l (4.36 US gal , 3.63 Imp gal)

To open the fuel fill cap (1), open the tank cap cover (2), insert the ignition key (3) and turn it clockwise. The fuel fill cap will pop up and can be lifted off.

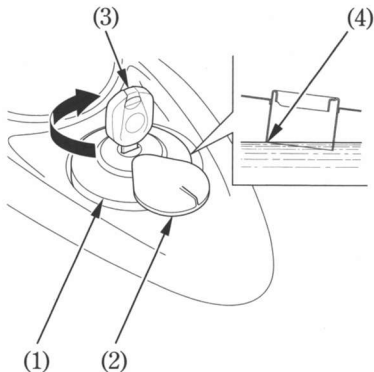
Do not overfill the tank. There should be no fuel in the filler neck (4).

After refueling, to close the fuel fill cap, align the latch in the cap with the slot in the filler neck. Push the fuel fill cap into the filler neck until it snaps closed and locks. Remove the key.

WARNING

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

- Stop the engine and keep heat, sparks, and flame away.
- Refuel only outdoors.
- Wipe up spills immediately.



- (1) Fuel fill cap
(2) Tank cap cover

- (3) Ignition key
(4) Filler neck

Use unleaded petrol with a research octane number of 91 or higher.

The use of leaded petrol will cause premature damage to the catalytic converters.

NOTICE

If “spark knock” or “pinking” occurs at a steady engine speed under normal load, change brands of petrol. If spark knock or pinking persists, consult your Honda dealer. Failure to do so is considered misuse, and damage caused by misuse is not covered by Honda’s Limited Warranty.

Petrol Containing Alcohol

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

The use of petrol containing more than 10 % ethanol (or more than 5 % methanol) may:

- Damage the painting of the fuel tank.
- Damage the rubber tubes of the fuel line.
- Cause corrosion of the fuel tank.
- Cause poor drivability.

Before buying fuel from an unfamiliar station, try to find out if the fuel contains alcohol. If it does, confirm the type and percentage of alcohol used. If you notice any undesirable operating symptoms while using a petrol that contains alcohol, or one that you think contains alcohol, switch to a petrol that you know does not contain alcohol.

ENGINE OIL

Engine Oil Level Check

Check the engine oil level each day before riding the motorcycle.

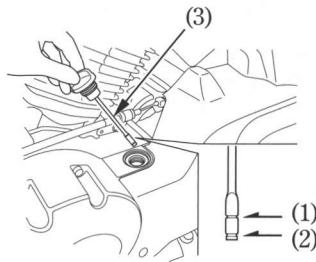
The level must be maintained between the upper (1) and lower (2) level marks on the oil fill cap/dipstick (3).

1. Start the engine and let it idle for 3–5 minutes. Make sure the low oil pressure indicator goes off. If the low oil pressure indicator remains on, stop the engine immediately.
2. Stop the engine and hold the motorcycle in an upright position on firm, level ground.
3. After 2–3 minutes, remove the oil fill cap/dipstick, wipe it clean, and reinsert the oil fill cap/dipstick without screwing it in. Remove the oil fill cap/dipstick. The oil level should be between the upper and lower level marks on the oil fill cap/dipstick.

4. If required, add the specified oil (see page 86) up to the upper level mark. Do not overfill.
5. Reinstall the oil fill cap/dipstick. Check for oil leaks.

NOTICE

Running the engine with insufficient oil pressure may cause serious engine damage.



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

FINAL DRIVE OIL

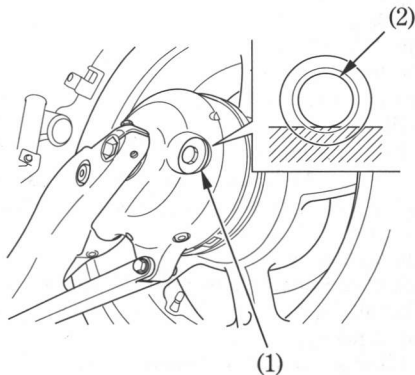
Oil Level Check

Check the final drive oil level when specified by the maintenance schedule (page 82).

1. Place the motorcycle on its side stand on a firm, level surface.
2. Remove the oil fill cap (1).
3. Check that the oil level reaches the lower edge of the oil fill inspection hole (2).

If the level is low, check for leaks. Pour fresh oil through the oil fill inspection hole until it reaches the lower edge of the opening.

Recommended Oil:
HYPOID GEAR OIL SAE 80



(1) Oil fill cap

(2) Oil fill inspection hole

TUBELESS TYRES

To safely operate your motorcycle, your tyres must be the proper type and size, in good condition with adequate tread, and correctly inflated for the load you are carrying. The following pages give more detailed information on how and when to check your air pressure, how to inspect your tyres for damage, and what to do when your tyres need to be repaired or replaced.

WARNING

Using tyres 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 tyre inflation and maintenance.

Air Pressure

Keeping your tyres properly inflated provides the best combination of handling, tread life and riding comfort. Generally, underinflated tyres wear unevenly, adversely affect handling, and are more likely to fail from being overheated.

Overinflated tyres make your motorcycle ride harshly, are more prone to damage from road hazards, and wear unevenly.

We recommend that you visually check your tyres before every ride and use a gauge to measure air pressure at least once a month or any time you think the tyres might be low.

Tubeless tyres have some self-sealing ability if they are punctured. However, because leakage is often very slow, you should look closely for punctures whenever a tyre is not fully inflated.

Always check air pressure when your tyres are “cold” — when the motorcycle has been parked for at least three hours. If you check air pressure when your tyres are “warm” — when the motorcycle has been ridden for even a few miles — the readings will be higher than if the tyres were “cold”. This is normal, so do not let air out of the tyres to match the recommended cold air pressures given below. If you do, the tyres will be underinflated.

The recommended “cold” tyre pressures are:

kPa (kgf/cm ² , psi)	
Driver only	Front 225 (2.25 , 33)
	Rear 225 (2.25 , 33)
Driver and one passenger	Front 225 (2.25 , 33)
	Rear 250 (2.50 , 36)

Inspection

Whenever you check the tyre pressures, you should also examine the tyre treads and sidewalls for wear, damage, and foreign objects:

Look for:

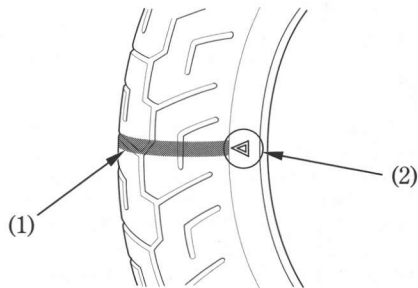
- Bumps or bulges in the side of the tyre or the tread. Replace the tyre if you find any bumps or bulges.
- Cuts, splits or cracks in the tyre. Replace the tyre if you can see fabric or cord.
- Excessive tread wear.

Also, if you hit a pothole or hard object, pull to the side of the road as soon as you can safely and carefully inspect the tyres for damage.

Tread Wear

Replace tyres before tread depth at the center of the tyre reaches the following limit:

Minimum tread depth	
Front:	1.5 mm (0.06 in)
Rear:	2.0 mm (0.08 in)



- (1) Wear indicator
- (2) Wear indicator location mark

Tyre Repair

If a tyre is punctured or damaged, you should replace it, not repair it. As discussed below, a tyre that is repaired, either temporarily or permanently, will have lower speed and performance limits than a new tyre.

A temporary repair, such as an external tubeless tyre plug, may not be safe for normal speeds and riding conditions. If a temporary or emergency repair is made to a tyre, you should ride slowly and cautiously to a dealer and have the tyre replaced. If possible, you should not carry a passenger or cargo until a new tyre is installed.

Even if a tyre is professionally repaired with a permanent internal patch plug, it will not be as good as a new tyre. You should not exceed 80 km/h (50 mph) for the first 24 hours, or 130 km/h (80 mph) at any time thereafter. In addition, you may not be able to safely carry as much weight as with a new tyre. Therefore, we strongly recommend that you replace a damaged tyre. If you choose to have a tyre repaired, be sure the wheel is balanced before you ride.

Tyre Replacement

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

WARNING

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

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

The recommended tyres for your motorcycle are:

Front: 90/90—21M/C 54H

DUNLOP

ELITE3 G

BRIDGESTONE

G701 F

Rear: 170/80—15M/C 77H

DUNLOP

ELITE3

BRIDGESTONE

G702 F

Type: bias-ply, tubeless

Whenever you replace a tyre, use one that is equivalent to the original and be sure the wheel is balanced after the new tyre is installed.

Important Safety Reminders

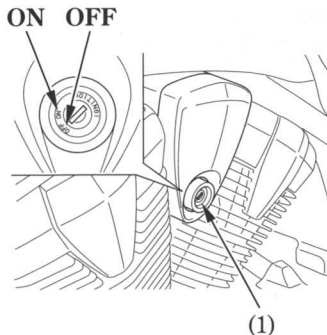
- Do not install a tube inside a tubeless tyre on this motorcycle. Excessive heat build-up can cause the tube to burst.
- Use only tubeless tyres on this motorcycle. The rims are designed for tubeless tyres, and during hard acceleration or braking, a tube-type tyre could slip on the rim and cause the tyre to rapidly deflate.

ESSENTIAL INDIVIDUAL COMPONENTS

IGNITION SWITCH

The ignition switch (1) is located under the left side of the fuel tank.

The headlight, position light (except U type), taillight and license light will come on whenever you turn the ignition switch ON. If your motorcycle is stopped with the ignition switch ON and the engine is not running, the headlight, position light (except U type), taillight and license light will still be on, resulting in battery discharge.



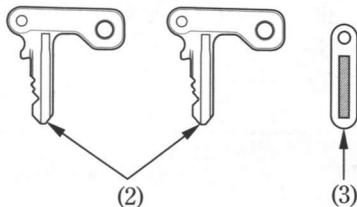
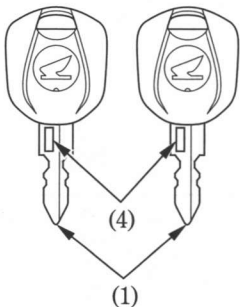
(1) Ignition switch

Key Position	Function	Key Removal
OFF	Engine and lights cannot be operated.	Key can be removed
ON	Engine and light can be operated.	Key cannot be removed

KEYS

This motorcycle has two ignition keys (1), two steering lock keys (2) and steering lock key number plate (3).

You will need the ignition key number (4) and steering lock key number if you ever have to replace a key. Store the plate in a safe place and be sure to record your key numbers at following space.



(1) Ignition keys

(4) Ignition key numbers

(2) Steering lock keys

(3) Key number plate

To reproduce keys, bring all keys, key number plate, recorded key numbers and motorcycle to your Honda dealer.

Up to four ignition keys can be registered with the immobilizer system (HISS), including the ones in hand.

If all ignition keys are lost, the PGM-FI unit/ignition control module must be replaced. To avoid this possibility we recommend that if only one key is left, you immediately have it reproduced to ensure that a back-up is available.

These keys contain electronic circuits that are activated by the immobilizer system (HISS). They will not work to start the engine if the circuits are damaged.

- Do not drop the keys or set heavy objects on them.
- Do not grind, drill or in any way alter the original shape of the keys.
- Keep the keys away from magnetic objects.

IMMOBILIZER SYSTEM (HISS)

HISS is the abbreviation of Honda Ignition Security System.

The immobilizer system (HISS) protects your motorcycle from theft. A properly-coded key must be used in the ignition switch for the engine to start. If an improperly-coded key (or other device) is used the engine's starting circuit is disabled.

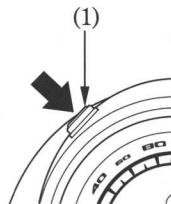
When the ignition switch is turned ON and the engine stop switch is at “  ” (RUN), the immobilizer system (HISS) indicator lights for a few seconds, then goes off. If the indicator remains on, it means the system does not recognize the coding of the key. Turn the ignition switch to OFF, remove the key, reinsert and turn the switch ON again.

The immobilizer system has such a function that keeps the immobilizer system (HISS) indicator blinking at 2 second intervals for 24 hours. This blinking function can be turned on or off.

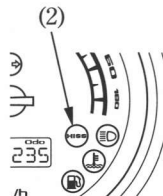
To alter the blinking function:

1. Turn the ignition switch ON.
2. While pressing the button (1), simultaneously turn the ignition switch OFF when the display function mode is odometer.

The immobilizer system (HISS) indicator (2) instantly flash, the function is enabled.



(1) Odometer/Tripmeter/Digital clock select and reset button



(2) Immobilizer system (HISS) indicator

If the system repeatedly does not recognize the coding of your key, contact your Honda dealer.

- The system may not recognize the key's coding if any other immobilizer key is near the ignition switch. To make sure the system recognizes the key code, keep each immobilizer key on a separate ring.
- Do not attempt to alter the immobilizer system (HISS) or add other devices to it. Electrical problems could result, making it impossible to start your motorcycle.
- If all keys are lost, the PGM-FI unit/ignition control module must be replaced.

EC Directives

This immobilizer system complies with the R & TTE (Radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity) Directive.



The declaration of conformity to R & TTE Directive is provided to the owner at the time of purchase. The declaration of conformity should be kept at a safe place. When the declaration of conformity is lost or is not provided, contact your Honda dealer.

RIGHT HANDLEBAR CONTROLS

Engine Stop Switch

The engine stop switch (1) is next to the throttle grip. When the switch is in the

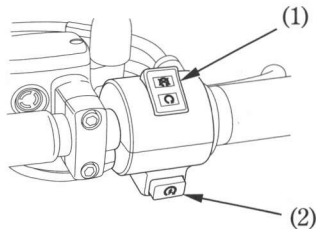
○ (RUN) position, the engine will operate. When the switch is in the ⊗ (OFF) position, the engine will not operate. This switch is intended primarily as a safety or emergency switch and should normally remain in the ○ (RUN) position.

If your motorcycle is stopped with the ignition switch ON and the engine stop switch ⊗ (OFF), the headlight, position light (except U type), taillight and license light will still be on, resulting in battery discharge.

Start Button

The start button (2) is below the engine stop switch.

When the start button is pressed, the starter motor cranks the engine, the headlight will automatically go out, but the position light (except U type), taillight and license light will stay on. If the engine stop switch is in the ⊗ (OFF) position, the starter motor will not operate. See page 67 for the starting procedure.



(1) Engine stop switch

(2) Start button

LEFT HANDLEBAR CONTROLS

Headlight Dimmer Switch (1)

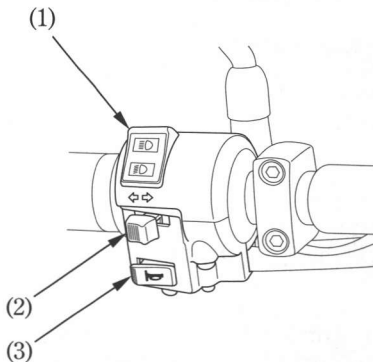
Push the headlight dimmer switch to  to select high beam or to  to select low beam.

Turn Signal Switch (2)

Move to  to signal a left turn,  to signal a right turn. Press to turn signal off.

Horn Button (3)

Press the button to sound the horn.



- (1) Headlight dimmer switch
- (2) Turn signal switch
- (3) Horn button

FEATURES

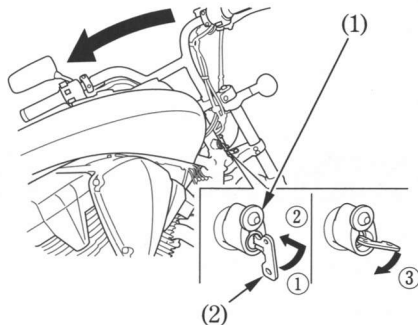
(Not required for operation)

STEERING LOCK

The steering lock (1) is on the steering column.

To lock the steering, turn the handlebar all the way to the left, insert the steering lock key into the lock, turn the key counterclockwise as far as possible. Then, press the lock all the way in, turn the key back to the original position, and remove the key.

To unlock the steering, perform the locking sequence in the reverse order.



(1) Steering lock

(2) Steering lock key

HELMET HOLDER

The helmet holder (1) is on the left side below the seat. The helmet holder is designed to secure your helmet while parked.

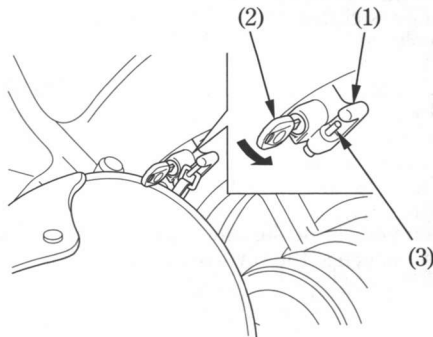
Insert the ignition key (2) and turn it counterclockwise to unlock.

Hang your helmet on the holder pin (3) and push it in to lock. Remove the key.

⚠ WARNING

Riding with a helmet attached to the holder can interfere with the rear wheel or suspension and could cause a crash in which you can be seriously hurt or killed.

Use the helmet holder only while parked. Do not ride with a helmet secured by the holder.



- (1) Helmet holder
- (2) Ignition key
- (3) Holder pin

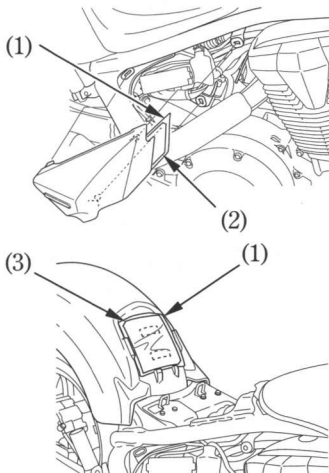
DOCUMENTS

The document bags (1) are in the document compartment inside of the right side cover and rear fender under the seat.

This owner's manual (2) should be stored in the document bag and attached to the inside of the right side cover. Remove the right side cover (page 60).

Other documents (3) should be stored in the document bag and attached to the rear fender under the seat. Remove the seat (page 61).

When washing your motorcycle, be careful not to flood this area with water.



- (1) Document bags
- (2) Owner's manual
- (3) Other documents

SIDE COVERS

The left side cover (1) must be removed to service the main fuse and the battery.

The right side cover (2) must be removed to access the owner's manual and fuse box.

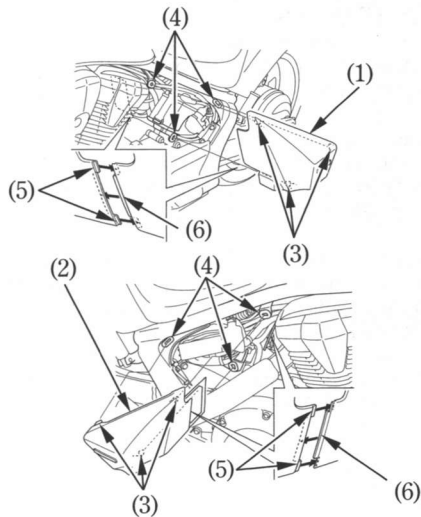
Immediately after stopping the engine, the engine, exhaust pipe and muffler are too hot. Be careful not to burn yourself.

Removal:

1. Carefully pull the side cover out until the prongs (3) are clear of the grommets (4).
2. Remove the side cover.

Installation:

1. Align the right side cover tabs (5) with the left side cover tab (6).
2. Position the right side cover so the prongs are aligned with the grommets.
3. Push the prongs in.



- | | |
|----------------------|---------------------------|
| (1) Left side cover | (4) Grommets |
| (2) Right side cover | (5) Right side cover tabs |
| (3) Prongs | (6) Left side cover tab |

SEAT

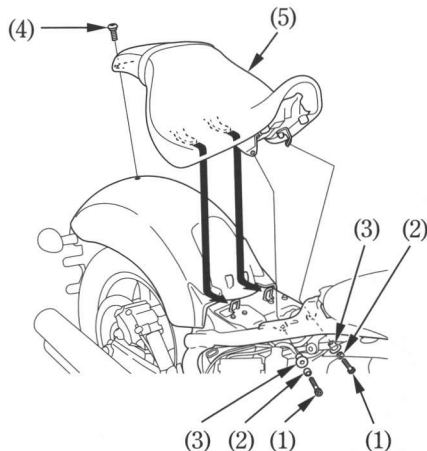
The seat must be removed to access the other documents and to check the colour label.

Removal:

1. Remove the right and left side covers (page 60).
2. Remove the bolts A (1), collars A (2) and collars B (3).
3. Remove the bolt B (4).
4. Pull the seat (5) back and up.

Installation:

- Installation can be done in the reverse order of removal.
- Be careful not to scratch the rear fender during seat installation or removal.
- Be careful not to get the seat caught between the stay and bolts while installing the seat.



- (1) Bolts A
(2) Collars A
(3) Collars B

- (4) Bolt B
(5) Seat

HEADLIGHT AIM VERTICAL ADJUSTMENT

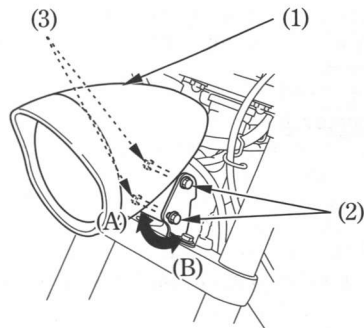
Vertical adjustment can be made by moving the headlight case (1) as necessary.

To move the headlight case, loosen the bolts (2) and nuts (3).

After adjustment, hand tighten the bolts and nuts first, then tighten the specified torque:

10 N·m (1.0 kgf·m , 7 lbf·ft)

Obey local laws and regulations.



(1) Headlight case

(2) Bolts

(3) Nuts

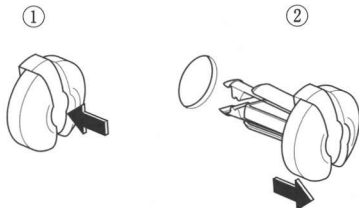
(A) Up

(B) Down

CLIP

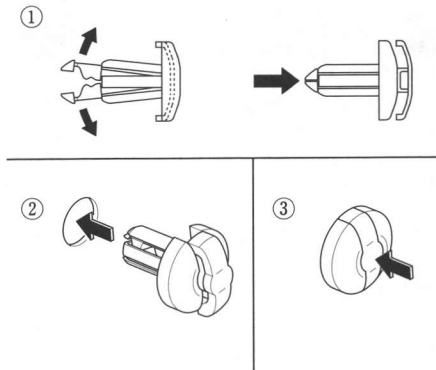
Removal:

- ① Press down on the center pin to release the lock.
- ② Pull out the clip A from the hole.



Installation:

- ① Slightly open the retaining pawls and then push them out.
- ② Insert the clip A into the hole.
- ③ Lightly press down on the center pin to lock the clip A.



OPERATION

PRE-RIDE INSPECTION

For your safety, it is very important to take a few moments before each ride to walk around your motorcycle and check its condition. If you detect any problem, be sure you take care of it, or have it corrected by your Honda dealer.

WARNING

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

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

1. Engine oil level—add engine oil if required (page 41). Check for leaks.
2. Fuel level—fill fuel tank when necessary (page 38). Check for leaks.
3. Coolant level—add coolant if required. Check for leaks (pages 34 – 37).
4. Front and rear brakes—check operation; make sure there is no brake fluid leakage (pages 30 – 31).
5. Tyres—check condition and pressure (pages 43 – 48).
6. Throttle—check for smooth opening and full closing in all steering positions (page 97).
7. Lights and horn—check that headlight, brake/tail light, position light (except U type), license light, turn signals, indicators and horn function properly.
8. Engine stop switch—check for proper function (page 55).
9. Side stand ignition cut-off system—check for proper function (page 102).

STARTING THE ENGINE

Always follow the proper starting procedure described below.

This motorcycle is equipped with a side stand ignition cut-off system. The engine cannot be started if the side stand is down, unless the transmission is in neutral. If the side stand is up, the engine can be started in neutral or in gear with the clutch lever pulled in. After starting with the side stand down, the engine will shut off if the transmission is put in gear before raising the side stand.

To protect the catalytic converters in your motorcycle's exhaust system, avoid extending idling and the use of leaded petrol.

Your motorcycle's exhaust contains poisonous carbon monoxide gas. High levels of carbon monoxide can collect rapidly in enclosed areas such as a garage. Do not run the engine with the garage door closed. Even with the door open, run the engine only long enough to move your motorcycle out of the garage.

Do not use the electric starter for more than 5 seconds at a time. Release the start button for approximately 10 seconds before pressing it again.

Preparation

Before starting, insert the key, turn the ignition switch ON and confirm the following:

- The transmission is in neutral (neutral indicator is ON).
- The engine stop switch is at  (RUN).
- The low oil pressure indicator is ON.
- The PGM-FI malfunction indicator lamp (MIL) is OFF.
- The high coolant temperature indicator is OFF.
- The immobilizer system (HISS) indicator is OFF.
- The Anti-lock Brake System (ABS) indicator is ON.

The low oil pressure indicator should go off a few seconds after the engine starts. If the low oil pressure indicator lights during operation, stop the engine immediately and check the engine oil level.

The Anti-lock Brake System (ABS) indicator should go off after you ride the motorcycle at a speed above 10 km/h (6 mph).

NOTICE

Operating the engine with insufficient oil pressure can cause serious engine damage.

Starting Procedure

This motorcycle has a fuel-injected engine with an automatic choke. Follow the procedure indicated below.

Any Air Temperature:

- With the throttle completely closed, press the start button.

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

Snapping the throttle or fast idling for more than about 5 minutes at normal air temperature may cause exhaust pipe discoloration.

Flooded Engine

If the engine fails to start after repeated attempts, it may be flooded.

1. Leave the engine stop switch set to  (RUN).
2. Open throttle fully.
3. Press the start button for 5 seconds.
4. Follow the normal starting procedure.

If the engine starts with unstable idle, open the throttle slightly.

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

Ignition Cut Off

Your motorcycle is designed to automatically stop the engine and fuel pump if the motorcycle is over-turned (a banking sensor cuts off the ignition system). Before restarting the engine, you must turn the ignition switch to the OFF position and then back to ON.

RUNNING-IN

Help assure your motorcycle's future reliability and performance by paying extra attention to how you ride during the first 500 km (300 miles).

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

RIDING

Review Motorcycle Safety (pages 1 – 12) before you ride.

Make sure you understand the function of the side stand mechanism. (See MAINTENANCE SCHEDULE on page 82 and explanation for SIDE STAND on page 102).

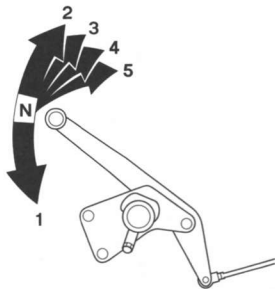
Make sure flammable materials such as dry grass or leaves do not come in contact with the exhaust system when riding, idling, or parking your motorcycle.

1. After the engine has been warmed up, the motorcycle is ready for riding.
2. While the engine is idling, pull in the clutch lever and depress the shift lever to shift into 1st (low) gear.

3. Slowly release the clutch lever and at the same time gradually increase engine speed by opening the throttle. Coordination of the throttle and clutch lever will assure a smooth positive start.
4. When the motorcycle attains a moderate speed, close the throttle, pull in the clutch lever and shift to 2nd gear by raising the shift lever.

This sequence is repeated to progressively shift to 3rd, 4th and 5th (top) gears.

5. Coordinate the throttle and brakes for smooth deceleration.
6. Both front and rear brakes should be used at the same time and should not be applied strongly enough to lock the wheel, or braking effectiveness will be reduced and control of the motorcycle be difficult.



BRAKING

This motorcycle is equipped with a Combined Brake System. Operating the front brake lever applies the front brake. Operating the rear brake pedal applies the rear brake and a portion of the front brake. For full braking effectiveness, use both the lever and pedal simultaneously, as you would with a conventional motorcycle braking system.

As with a conventional motorcycle braking system, excessively hard application of the brake controls may cause wheel lock, reducing control of the motorcycle.

For normal braking, apply both the brake pedal and lever while down-shifting to match your road speed. For maximum braking, close the throttle and firmly apply the pedal and lever; pull in the clutch lever before coming to a complete stop to prevent stalling the engine.

Important Safety Reminders:

- Independent operation of only the brake lever or brake pedal reduces stopping performance.
- Extreme application of the brake controls may cause wheel lock, reducing control of the motorcycle.
- When possible, reduce speed or brake before entering a turn; closing the throttle or braking in mid-turn may cause wheel slip. Wheel slip will reduce control of the motorcycle.

- When riding in wet or rainy conditions, or on loose surfaces, the ability to maneuver and stop will be reduced. All of your actions should be smooth under these conditions. Rapid acceleration, braking or turning may cause loss of control. For your safety, exercise extreme caution when braking, accelerating or turning.
- When descending a long, steep grade, use engine compression braking by downshifting, with intermittent use of both brakes.
Continuous brake application can overheat the brakes and reduce their effectiveness.
- Riding with your foot resting on the brake pedal or your hand on the brake lever may actuate the brakelight, giving a false indication to other drivers. It may also overheat the brakes, reducing effectiveness.

Anti-lock Brake System (ABS)

This model is also equipped with an Anti-lock Brake System (ABS) designed to help prevent wheel lock up during hard braking on uneven or other poor surfaces while running straight. Although the wheel may not lock up—if you are braking too hard in a turn the motorcycle can still lose traction, causing a loss of control.

In some situations, a motorcycle with ABS may require a longer stopping distance to stop on loose or uneven surfaces than an equivalent motorcycle without ABS.

ABS cannot make up for road conditions, bad judgment, or improper operation of the brakes. It is still your responsibility to ride at reasonable speeds for weather, road surface, and traffic conditions, and to leave a margin of safety.

ABS is self-checking and always on.

- ABS may be activated by riding over a sharp drop or rise in the road level. It is important to follow the tyre recommendations (page 47). The ABS computer works by comparing wheel speed. Non-recommended tyres can affect wheel speed and may confuse the ABS computer.
- ABS does not function at low speeds (approximately 10 km/h (6 mph) or below).
- ABS does not function if the battery is discharged.

Anti-lock Brake System (ABS) Indicator

Normally, Anti-lock Brake System (ABS) indicator comes on when the ignition is turned ON, and goes off after you ride the motorcycle at speed above 10 km/h (6 mph). If there is an ABS problem, the indicator lights or flashes and remains on. The ABS system does not operate when the ABS indicator is on.

If the ABS indicator comes on while riding, stop the motorcycle in a safe place and turn off the engine.

Turn the ignition ON again. The indicator should come on, and go off after you ride the motorcycle at speeds above 10 km/h (6 mph). If it does not go off, ABS is not functioning, but the brakes still work provide normal stopping ability. However, you should have the system checked by Honda dealer as soon as possible.

The ABS indicator may flash if you turn the rear wheel while the motorcycle is upright on the stand. This is normal. Turn the ignition OFF, then turn it ON. The indicator should come on, then go off after you run the motorcycle above 30 km/h (19 mph).

PARKING

1. After stopping the motorcycle, shift the transmission into neutral, turn the handlebar fully to the left, turn the ignition switch OFF and remove the key.
2. Use the side stand to support the motorcycle while parked.

Park the motorcycle on firm, level ground to prevent it from falling over.

If you must park on a slight incline, aim the front of the motorcycle uphill to reduce the possibility of rolling off the side stand or overturning.

3. Lock the steering to help prevent theft (page 57).

Make sure flammable materials such as dry grass or leaves do not come in contact with the exhaust system when parking your motorcycle.

To avoid possible heat damage to your motorcycle or personal belongings, do not cover the exhaust muffler with a protective cover or any clothing within 20 minutes after shutting off the engine.

ANTI-THEFT TIPS

1. Always lock the steering and never leave the keys in the steering lock and ignition switch. This sounds simple but people do forget.
2. Be sure the registration information for your motorcycle is accurate and current.
3. Park your motorcycle in a locked garage whenever possible.
4. Use an additional anti-theft device of good quality.
5. Put your name, address, and phone number in this Owner's Manual and keep it on your motorcycle at all times.
Many times stolen motorcycles are identified by information in the Owner's Manuals that are still with them.

NAME: _____

ADDRESS: _____

PHONE NO: _____

MAINTENANCE

THE IMPORTANCE OF MAINTENANCE

A well-maintained motorcycle is essential for safe, economical and trouble-free riding. It will also help reduce air pollution.

To help you properly care for your motorcycle, the following pages include a Maintenance Schedule and a Maintenance Record for regularly scheduled maintenance.

These instructions are based on the assumption that the motorcycle will be used exclusively for its designed purpose. Sustained high speed operation or operation in unusually wet or dusty conditions will require more frequent service than specified in the Maintenance Schedule. Consult your Honda dealer for recommendations applicable to your individual needs and use.

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

WARNING

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

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

MAINTENANCE SAFETY

This section includes instructions on some important maintenance tasks. You can perform some of these tasks with the tools provided — if you have basic mechanical skills.

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

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

WARNING

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

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

SAFETY PRECAUTIONS

- Make sure the engine is off before you begin any maintenance or repairs. This will help eliminate several potential hazards:

- * **Carbon monoxide poisoning from engine exhaust.**

Be sure there is adequate ventilation whenever you operate the engine.

- * **Burns from hot parts.**

Let the engine and exhaust system cool before touching.

- * **Injury from moving parts.**

Do not run the engine unless instructed to do so.

- Read the instructions before you begin, and make sure you have the tools and skills required.
- To help prevent the motorcycle from falling over, park it on a firm, level surface, using the side stand or a maintenance stand to provide support.

- To reduce the possibility of a fire or explosion, be careful when working around petrol or batteries. Use only nonflammable solvent, not petrol, to clean parts. Keep cigarettes, sparks and flames away from the battery and all fuel-related parts.

Remember that your Honda dealer knows your motorcycle best and is fully equipped to maintain and repair it.

To ensure the best quality and reliability, use only new Honda Genuine Parts or their equivalents for repair and replacement.

MAINTENANCE SCHEDULE

Perform the Pre-ride Inspection (page 64) at each scheduled maintenance period.

I: INSPECT AND CLEAN, ADJUST, LUBRICATE OR REPLACE IF NECESSARY

C: CLEAN R: REPLACE A: ADJUST L: LUBRICATE

The following items require some mechanical knowledge. Certain items (particularly those marked * and **) may require more technical information and tools. Consult your Honda dealer.

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

Honda recommends that your Honda dealer should road test your motorcycle after each periodic maintenance is carried out.

- NOTES:
- (1) At higher odometer readings, repeat at the frequency interval established here.
 - (2) Service more frequently when riding in unusually wet or dusty areas.
 - (3) Service more frequently when riding in rain or at full throttle.
 - (4) Replace every 2 years, or at indicated odometer interval, whichever comes first. Replacement requires mechanical skill.

ITEM \ FREQUENCY		WHICHEVER → COMES FIRST ↓ NOTE	ODOMETER READING [NOTE (1)]										Refer to page
			× 1,000 km	1	6	12	18	24	30	36			
			× 1,000 mi	0.6	4	8	12	16	20	24			
			MONTH		6	12	18	24	30	36			
*	FUEL LINE					I		I		I	—		
*	THROTTLE OPERATION					I		I		I	97		
	AIR CLEANER	NOTE (2)					R			R	99		
	CRANKCASE BREATHER	NOTE (3)			C	C	C	C	C	C	91		
	SPARK PLUGS				I	R	I	R	I	R	92		
*	VALVE CLEARANCE			I		I		I		I	—		
	ENGINE OIL			R		R		R		R	86		
	ENGINE OIL FILTER			R		R		R		R	88		
*	ENGINE IDLE SPEED			I	I	I	I	I	I	I	—		
	RADIATOR COOLANT	NOTE (4)				I		I		R	34, 98		
*	COOLING SYSTEM					I		I		I	—		
*	SECONDARY AIR SUPPLY SYSTEM					I		I		I	—		

ITEM		FREQUENCY	WHICHEVER → COMES FIRST ↓ NOTE	ODOMETER READING [NOTE (1)]									
				× 1,000 km	1	6	12	18	24	30	36	Refer to page	
				× 1,000 mi	0.6	4	8	12	16	20	24		
			MONTH		6	12	18	24	30	36			
	FINAL DRIVE OIL					I		I		R	42, 96		
	BRAKE FLUID	NOTE (4)			I	I	R	I	I	R	30, 31		
	BRAKE PADS WEAR				I	I	I	I	I	I	112, 113		
	BRAKE SYSTEM			I		I		I		I	30, 31, 112, 113		
*	BRAKELIGHT SWITCH					I		I		I	119		
*	HEADLIGHT AIM					I		I		I	62		
	CLUTCH SYSTEM			I	I	I	I	I	I	I	32		
	SIDE STAND					I		I		I	102		
*	SUSPENSION					I		I		I	101		
*	NUTS, BOLTS, FASTENERS			I		I		I		I	—		
**	WHEELS/TYRES					I		I		I	—		
**	STEERING HEAD BEARINGS			I		I		I		I	—		

TOOL KIT

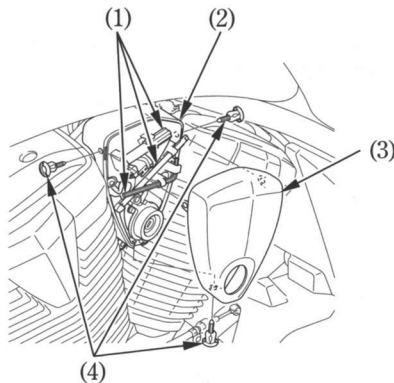
The tool kit (1) is stored on the face of the ignition switch case (2) behind the ignition switch cover (3).

Remove the clips (4) (page 63).

Remove the ignition switch cover.

Some roadside repairs, minor adjustments and parts replacement can be performed with the tools contained in the kit.

- 5 mm Hex wrench
- No. 2 Phillips screwdriver
- Screwdriver handle



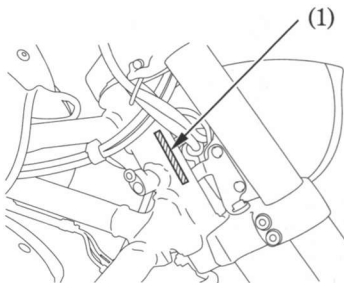
- (1) Tool kit
- (2) Ignition switch case
- (3) Ignition switch cover
- (4) Clips

SERIAL NUMBERS

The frame and engine serial numbers are required when registering your motorcycle. They may also be required by your dealer when ordering replacement parts.

Record the numbers here for your reference.

FRAME NO. _____

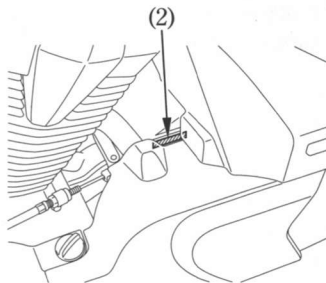


(1) Frame number

The frame number (1) is stamped on the right side of the steering head.

The engine number (2) is stamped on top of the crankcase.

ENGINE NO. _____



(2) Engine number

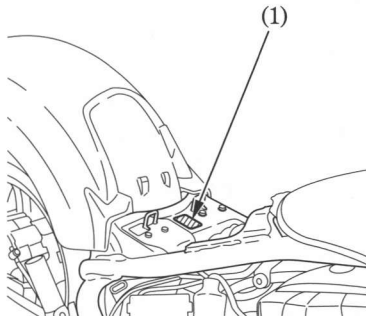
COLOUR LABEL

The colour label (1) is attached to the frame under the seat (page 61).

It is helpful when ordering replacement parts. Record the colour and code here for your reference.

COLOUR _____

CODE _____



(1) Colour label

ENGINE OIL

Refer to the Safety Precautions on page 79 .

Oil Recommendation

API classification	SG or higher except oils labeled as energy conserving on the circular API service label
Viscosity	SAE 10W-30
JASO T 903 standard	MA

Suggested Oil
Honda "4-STROKE MOTORCYCLE OIL" or equivalent.

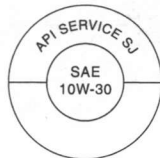
Your motorcycle does not need oil additives. Use the recommended oil.

Do not use oils with graphite or molybdenum additives. They may adversely affect clutch operation.

Do not use API SH or higher oils displaying a circular API "energy conserving" service label on the container. They may affect lubrication and clutch performance.



NOT RECOMMENDED

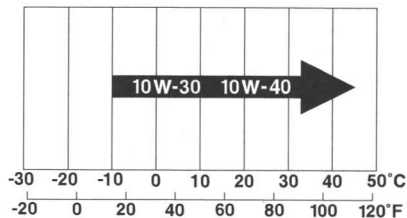


OK

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

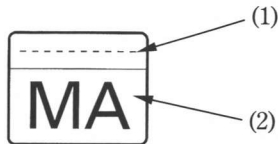
Viscosity:

Viscosity grade of engine oil should be based on average atmospheric temperature in your riding area. The following provides a guide to the selection of the proper grade or viscosity of oil to be used at various atmospheric temperatures.



JASO T 903 standard

The JASO T 903 standard is an index for engine oils for 4-stroke motorcycle engines. There are two classes: MA and MB. Oil conforming to the standard is labeled on the oil container. For example, the following label shows the MA classification.



PRODUCT MEETING JASO T 903
COMPANY GUARANTEEING THIS MA PERFORMANCE:

- (1) Code number of the sales company of the oil
- (2) Oil classification

Engine Oil and Filter

Engine oil quality is the chief factor affecting engine service life. Change the engine oil as specified in the maintenance schedule (page 81).

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

Please dispose of used engine oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local recycling center or service station for reclamation. Do not throw it in the trash or pour it on the ground or down a drain.

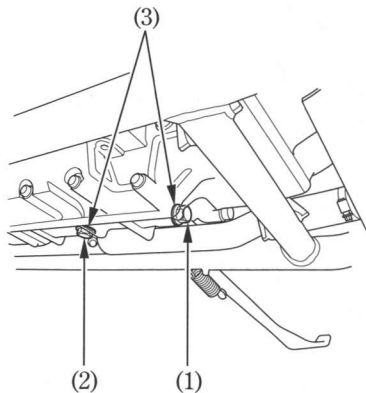
Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

Changing the oil filter requires a special oil filter tool and a torque wrench. If you do not have these tools and the necessary skill, we recommend that you have your Honda dealer perform this service.

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

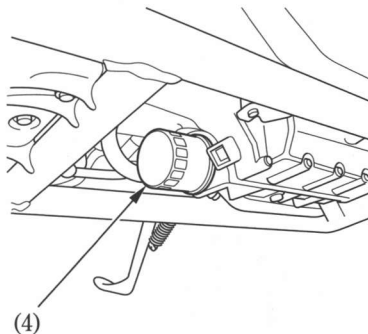
Change the engine oil with the engine at normal operating temperature and the motorcycle on its side stand to assure complete and rapid draining.

1. Place a drain pan under the crankcase.
2. To drain the oil, remove the oil fill cap/dipstick and oil drain plug (1), (2) and sealing washers (3).



- (1) Oil drain plug (front)
(2) Oil drain plug (rear)
(3) Sealing washers

3. Remove the oil filter (4) with a filter wrench and let the remaining oil drain out. Discard the oil filter.

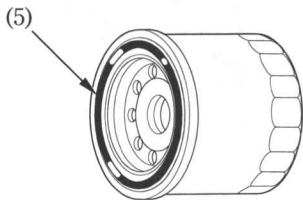


- (4) Oil filter

4. Apply a thin coat of engine oil to the new oil filter rubber seal (5).
5. Using a special tool and a torque wrench, install the new oil filter and tighten to a torque of:

26 N·m (2.7 kgf·m , 19 lbf·ft)

Use only the Honda Genuine oil filter or a filter of equivalent quality specified for your model. Using the wrong Honda filter or a non-Honda filter which is not of equivalent quality may cause engine damage.



(5) Oil filter rubber seal

6. Check that the sealing washers on the drain plugs are in good condition and install the plugs. Replace the sealing washers every other time the oil is changed, or each time if necessary.
Engine oil drain plugs torque:
30 N·m (3.1 kgf·m , 22 lbf·ft)
7. Fill the crankcase with the recommended grade oil; approximately:
3.7 ℓ (3.9 US qt , 3.3 Imp qt)
8. Install the oil fill cap/dipstick.
9. Start the engine and let it idle for 3—5 minutes.
10. 2—3 minutes after stopping the engine, check that the oil level is at the upper level mark on the oil fill cap/dipstick with the motorcycle upright on firm, level ground. Make sure there are no oil leaks.

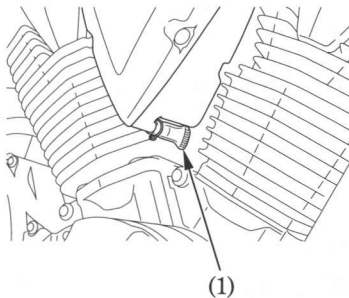
CRANKCASE BREATHER

Refer to the Safety Precautions on page 79 .

1. Remove the drain tube (1) and drain deposits into a suitable container.
2. Reinstall the drain tube.

Service more frequently when riding in rain or at full throttle.

Service the breather if you can see deposits in the transparent section of the drain tube.



(1) Drain tube

SPARK PLUGS

Refer to the Safety Precautions on page 79 .

Recommended plugs:

Standard:

DCPR6E (NGK) or
XU20EPR - U (DENSO)

For extended high speed riding:

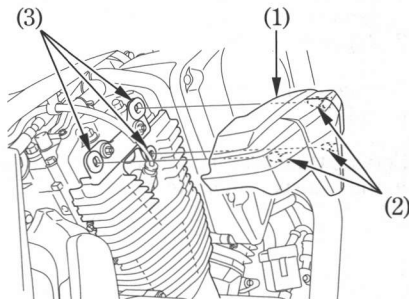
DCPR7E (NGK) or
XU22EPR - U (DENSO)

NOTICE

Never use a spark plug with an improper heat range. Severe engine damage could result.

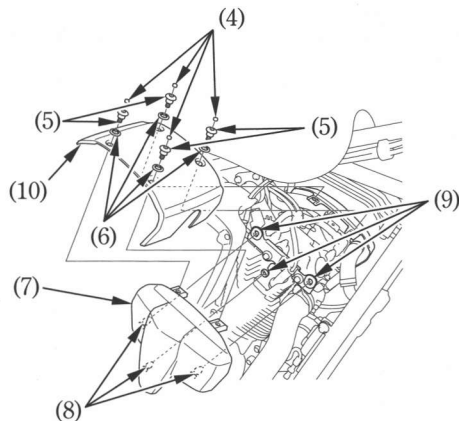
To inspect or replace the spark plugs, use an appropriate spark plug wrench or see your Honda dealer.

1. Carefully pull the rear over head covers (1) on both sides out until the prongs (2) are clear of the grommets (3).



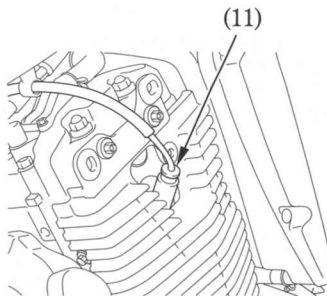
- (1) Rear over head cover
- (2) Prongs
- (3) Grommets

2. Remove the caps (4), bolts (5) and washers (6).
3. Carefully pull the front over head covers (7) on both sides out until the prongs (8) are clear of the grommets (9).
4. Remove the front over head center cover (10).



- | | |
|-------------------------------|--------------------------------------|
| (4) Caps | (8) Prongs |
| (5) Bolts | (9) Grommets |
| (6) Washers | (10) Front over head
center cover |
| (7) Front over head
covers | |

5. Disconnect the spark plug caps (11) from the spark plugs.
Remove the spark plugs using a spark plug wrench.
6. Clean any dirt from around the spark plug bases.
7. Inspect the electrodes and center porcelain for deposits, erosion or carbon fouling. If the erosion or deposit is heavy, replace the plug. Clean a carbon or wet-fouled plug with a plug cleaner, otherwise use a wire brush.



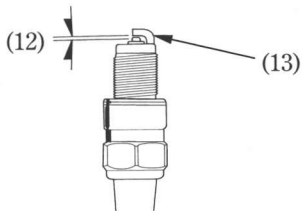
(11) Spark plug cap

8. Check the spark plug gap (12) using a wire-type feeler gauge. If adjustment is necessary, bend the side electrode (13) carefully.

The gap should be:

0.8–0.9 mm (0.03–0.04 in)

9. Make sure the plug washer is in good condition.



(12) Spark plug gap

(13) Side electrode

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

11. Tighten each spark plug:

- If the old plug is good:
1/8 turn after it seats.
- If installing a new plug, tighten it twice to prevent loosening:
 - a) First, tighten the plug:
NGK: 3/4 turn after it seats.
DENSO: 1/2 turn after it seats.
 - b) Then loosen the plug.
 - c) Next, tighten the plug again:
1/8 turn after it seats.

NOTICE

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

12. Reinstall the spark plug caps. Take care to avoid pinching any cables or wires.
13. Install the remaining parts in the reverse order of removal.

FINAL DRIVE OIL

Refer to the Safety Precautions on page 79 .

Change the oil as specified in the maintenance schedule.

Change the oil with the final drive at normal operating temperature and the motorcycle upright on level ground to assure complete and rapid draining.

1. Place a drain pan under the final drive gear case.
2. To drain the oil, remove the oil fill cap (1) and oil drain plug (2).
3. After the oil has completely drained, check that the sealing washer (3) on the drain plug is in good condition and install the drain plug.

Drain plug torque:

12 N·m (1.2 kgf·m , 9 lbf·ft)

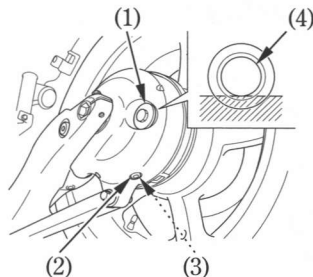
4. Place the motorcycle on its side stand, fill the final drive with the recommended grade oil; approximately:

130 cm³ (4.4 US oz , 4.6 Imp oz)

Make sure the final drive is filled up to the lower edge of the oil fill inspection hole (4) with the recommended oil.

5. Install the oil fill cap and tighten to the specified torque:

12 N·m (1.2 kgf·m , 9 lbf·ft)



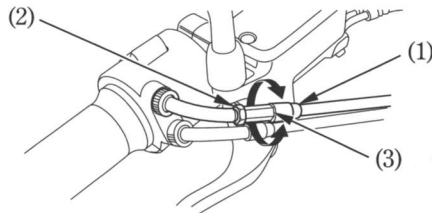
- | | |
|--------------------|------------------------------|
| (1) Oil fill cap | (3) Sealing washer |
| (2) Oil drain plug | (4) Oil fill inspection hole |

THROTTLE OPERATION

Refer to the Safety Precautions on page 79 .

1. Check for smooth rotation of the throttle grip from the fully open to the fully closed position at both full steering positions.
2. Measure the throttle grip freeplay at the throttle grip flange.
The standard freeplay should be approximately:
2—6 mm (0.1—0.2 in)

To adjust the freeplay, slide the throttle cable boot (1), then loosen the lock nut (2) and turn the adjuster (3).
After adjustment, tighten the lock nut and return the throttle cable boot securely.



(1) Throttle cable boot

(2) Lock nut

(3) Adjuster

COOLANT

Refer to the Safety Precautions on page 79 .

Coolant Replacement

Coolant should be replaced by a Honda dealer, unless the owner has proper tools and service data and is mechanically qualified. Refer to an official Honda Shop Manual.

Always add coolant to the reserve tank. Do not attempt to add coolant by removing the radiator cap.

WARNING

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

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

AIR CLEANER

Refer to the Safety Precautions on page 79 .

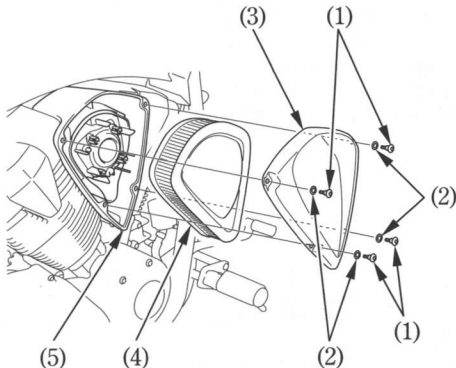
The air cleaner should be serviced at regular intervals (page 81). Service more frequently when riding in unusually wet or dusty areas.

1. Remove the bolts (1), washers (2) and the air cleaner housing cover (3).
2. Remove and discard the air cleaner (4).
3. Thoroughly clean the inside of the air cleaner housing (5).
4. Install a new air cleaner.

Use the Honda Genuine air cleaner or an equivalent air cleaner specified for your model. Using the wrong Honda air cleaner or a non-Honda air cleaner which is not of equivalent quality may cause premature engine wear or performance problems.

5. Reinstall the air cleaner housing cover, washers and make sure the bolts are tightened securely to the specified torque:

1.5 N·m (0.2 kgf·m , 1.1 lbf·ft)



- (1) Bolts
- (2) Washers
- (3) Air cleaner housing cover
- (4) Air cleaner
- (5) Air cleaner housing

This motorcycle is equipped with a viscous type air cleaner element.

Air blow cleaning or any other cleaning can degrade the viscous element performance and cause the intake of dust.

Do not perform the maintenance.



FRONT AND REAR SUSPENSION INSPECTION

Refer to the Safety Precautions on page 79 .

1. Check the fork assembly by locking the front brake and pumping the fork up and down vigorously. Suspension action should be smooth and there must be no oil leakage.
2. Swingarm bearings should be checked by pushing hard against the side of the rear wheel while the motorcycle is on a support block. Freeplay indicates worn bearings.
3. Carefully inspect all front and rear suspension fasteners for tightness.

SIDE STAND

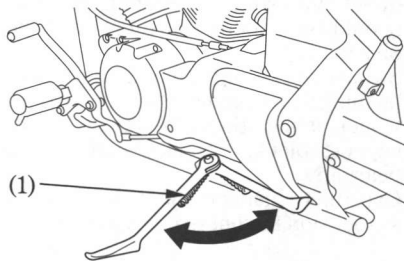
Refer to the Safety Precautions on page 79 .

Perform the following maintenance in accordance with the maintenance schedule.

Functional Check:

- Check the side stand spring (1) for damage or loss of tension and the side stand assembly for freedom of movement.
- Check the side stand ignition cut-off system:
 1. Sit astride the motorcycle; put the side stand up and the transmission in neutral.
 2. Start the engine and with the clutch lever pulled in, shift the transmission into gear.
 3. Lower the side stand. The engine should stop as you put the side stand down.

If the side stand system does not operate as described, see your Honda dealer for service.



(1) Side stand spring

WHEEL REMOVAL

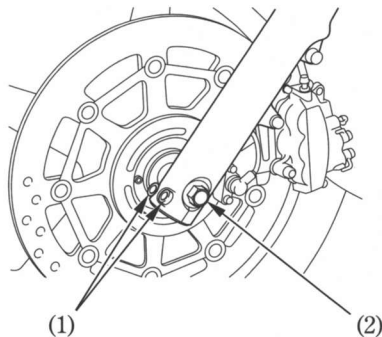
Refer to the Safety Precautions on page 79 .

This motorcycle is equipped with a side stand only. Therefore, if front or rear wheel removal is required, it will be necessary to raise the center of the motorcycle with a jack or other firm support. If none is available, see your Honda dealer for this service.

When removing and installing the wheel, be careful not to damage the wheel speed sensor and pulser ring.

Front Wheel Removal

1. Park your motorcycle on a firm, level surface.
2. Carefully raise the center of the motorcycle with a chain hoist.
3. Remove the right and left axle pinch bolts (1) and remove the front axle bolt (2).

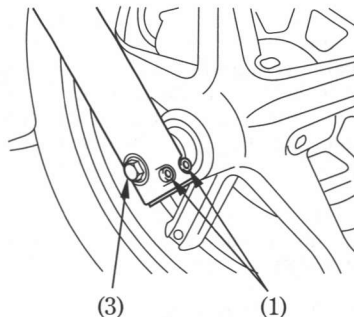


- (1) Axle pinch bolts
(2) Front axle bolt

4. Remove the front axle shaft (3), front wheel and side collars.

Avoid getting grease, oil, or dirt on the disc or pad surfaces. Any contamination can cause poor brake performance or rapid pad wear after reassembly.

Do not depress the brake lever and brake pedal when the wheel is off the motorcycle. The caliper pistons will be forced out of the cylinders with subsequent loss of brake fluid. If this occurs, servicing of the brake system will be necessary. See your Honda dealer for this service.



- (1) Axle pinch bolts
- (3) Front axle shaft

Front Wheel Installation

1. Install the side collars into the left and right side wheel hub.
2. Position the front wheel between the fork legs and insert the front axle shaft from the right side, through the right fork leg and wheel hub.

To avoid damaging the brake pads, carefully fit the brake disc (1) between the pads.

3. Align the index line (2) of the front axle shaft with the surface (3) of the fork leg.
4. Tighten the axle pinch bolts on the right fork leg to specified torque:

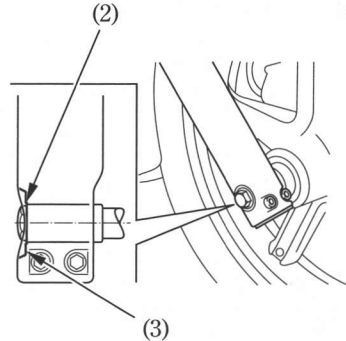
22 N·m (2.2 kgf·m , 16 lbf·ft)

5. Tighten the front axle bolt to the specified torque:

64 N·m (6.5 kgf·m , 47 lbf·ft)

6. Operate the front brake and pump the fork several times.

Check for free wheel rotation after the brake lever is released. Recheck the wheel if the brake drags or if the wheel does not rotate freely.



(2) Index line

(3) Surface

7. If the clearances between each surface of the brake disc and the brake bracket (4) (not the brake pads) are symmetrical, follow next step.

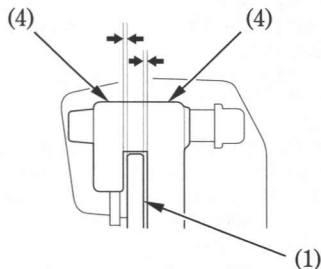
If the clearances are not symmetrical, loosen the right axle pinch bolts and pull the right fork outward or push inward to adjust the clearance. Then follow the next step.

8. Tighten the axle pinch bolts on the left fork leg to the specified torque:

22 N·m (2.2 kgf·m , 16 lbf·ft)

- Visually check that the clearances between each surface of the brake disc and the brake bracket (not the brake pads) are symmetrical.

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

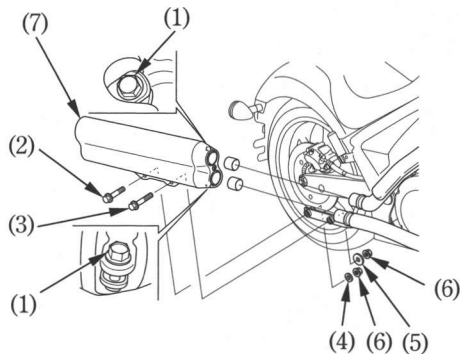


(1) Brake disc

(4) Brake bracket

Rear Wheel Removal

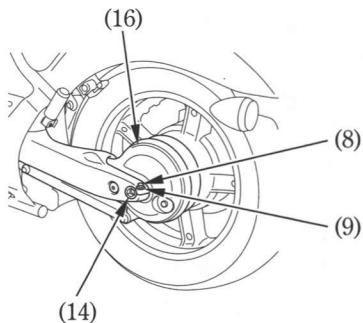
1. Park your motorcycle on a firm, level surface.
2. Carefully raise the center of the motorcycle with a chain hoist.
3. Loosen the muffler band bolts (1).
4. Remove the muffler bracket bolt A (2), B (3), washer A (4), B (5) and nuts (6).
5. Remove the muffler (7).



- (1) Muffler band bolts
- (2) Muffler bracket bolt A
- (3) Muffler bracket bolt B
- (4) Washer A

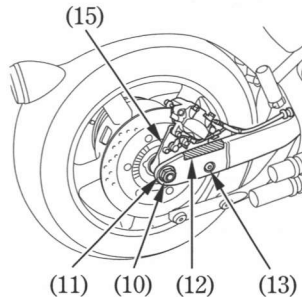
- (5) Washer B
- (6) Nuts
- (7) Muffler

6. Remove the axle holding bolt (8) and washer (9).
7. Remove the rear axle nut (10) and washer (11).
8. Cover the right swingarm with protective tape (12) or an equivalent.
9. Remove the rear brake bracket bolt (13).



- | | |
|-----------------------|----------------------------|
| (8) Axle holding bolt | (14) Rear axle shaft |
| (9) Washer | (16) Final drive gear case |

10. Slide the rear axle shaft (14) to the left side until the rear wheel can be removed. Do not pull the rear axle shaft out completely.
11. Remove the rear brake bracket (15).
12. Move the wheel to the right to separate it from the final drive gear case (16).
13. Remove the wheel and side collar.



- | | |
|----------------------|------------------------------|
| (10) Rear axle nut | (13) Rear brake bracket bolt |
| (11) Washer | (15) Rear brake bracket |
| (12) Protective tape | |

Support the caliper assembly before removing the rear axle shaft so that the caliper does not hang from the brake hose. Do not twist the brake hose.

Avoid getting grease, oil, or dirt on the disc or pad surfaces. Any contamination can cause poor brake performance or rapid pad wear after reassembly.

Do not depress the brake pedal while the wheel is off the motorcycle. The caliper pistons will be forced out of the cylinders with subsequent loss of brake fluid. If this occurs, servicing of the brake system will be necessary. See your Honda dealer for this service.

Rear Wheel Installation

Before installing the rear wheel, check that the wheel hub and final drive gear splines are coated with grease.

1. Install the side collar and position the wheel between the swingarm and the final drive gear case. Be sure the splines on the wheel hub fit into the final drive gear case.
2. Install the rear brake bracket and rear brake bracket bolt.
 - When installing the wheel, carefully fit the brake disc between the brake pads to avoid damaging the pads.
3. Push the rear axle shaft from the left side, through the wheel hub and rear brake bracket.
4. Remove the protective tape or an equivalent.
5. Tighten the rear brake bracket bolt to the specified torque:
69 N·m (7.0 kgf·m , 51 lbf·ft)
6. Install the rear axle nut and washer.
7. Tighten the rear axle nut to the specified torque:
127 N·m (13.0 kgf·m , 94 lbf·ft)
8. Install the axle holding bolt and washer.
9. Tighten the axle holding bolt to the specified torque:
27 N·m (2.8 kgf·m , 20 lbf·ft)
10. After installing the wheel, apply the brake several times. Check for free wheel rotation after the brake is released. Recheck the wheel if the brake drags or the wheel does not rotate freely.
11. Make sure that the tab of the muffler clamps are aligned with the cutouts of the muffler.
12. Install the muffler, muffler bracket bolt A, B, washer A, B and nuts.
Tighten the nuts and bolts to the specified torque:
27 N·m (2.8 kgf·m , 20 lbf·ft)

13. Install and tighten the muffler band bolts to the specified torque:

17 N·m (1.7 kgf·m , 13 lbf·ft)

- Before installing the muffler, replace the muffler gasket with a new gasket.

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

BRAKE PAD WEAR

Refer to the Safety Precautions on page 79 .

Brake pad wear depends upon the severity of usage, the type of riding, and road conditions. (Generally, the pads will wear faster on wet and dirty roads.)

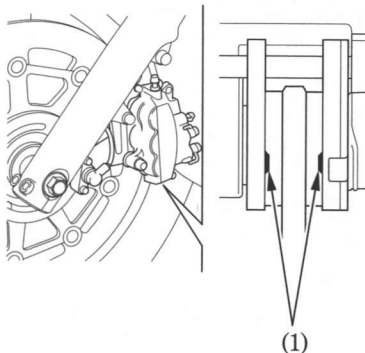
Inspect the pads at each regular maintenance interval (page 82).

Front Brake

Check the cutout (1) in each pad.

If either pad is worn to the cutout, replace both pads as a set. See your Honda dealer for this service.

〈FRONT BRAKE〉



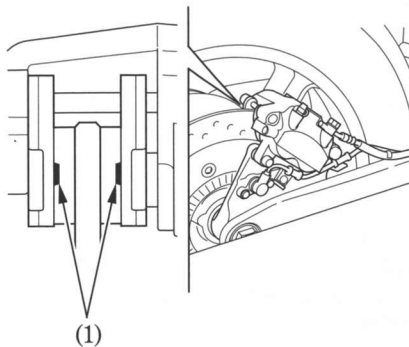
(1) Cutouts

Rear Brake

Check the cutout (1) in each pad.

If either pad is worn to the cutout, replace both pads as a set. See your Honda dealer for this service.

〈 REAR BRAKE 〉



(1) Cutouts

BATTERY

Refer to the Safety Precautions on page 79 .

It is not necessary to check the battery electrolyte level or add distilled water as the battery is a maintenance-free (sealed) type. If your battery seems weak and/or is leaking electrolyte (causing hard starting or other electrical troubles), contact your Honda dealer.

NOTICE

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

⚠ 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.

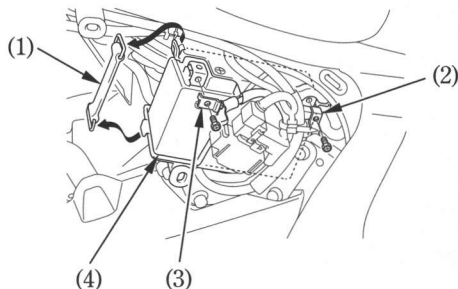
The battery is located in the battery box behind the left side cover.

Removal:

1. Make sure the ignition switch is OFF.
2. Remove the left side cover (page 60).
3. Release the rings and remove the rubber band (1).
4. Disconnect the negative (-) terminal lead (2) from the battery first, then disconnect the positive (+) terminal lead (3).
5. Pull out the battery (4) from the battery box.

Installation:

1. Reinstall in the reverse order of removal.
Be sure to connect the positive (+) terminal first, then the negative (-) terminal.
2. Check all bolts and other fasteners are secure.



- (1) Rubber band
- (2) Negative (-) terminal lead
- (3) Positive (+) terminal lead
- (4) Battery

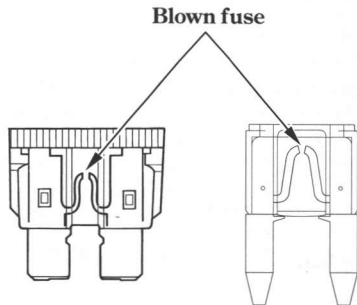
FUSE REPLACEMENT

Refer to the Safety Precautions on page 79 .

When frequent fuse failure occurs, it usually indicates a short circuit or an overload in the electrical system. See your Honda dealer for repair.

NOTICE

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.



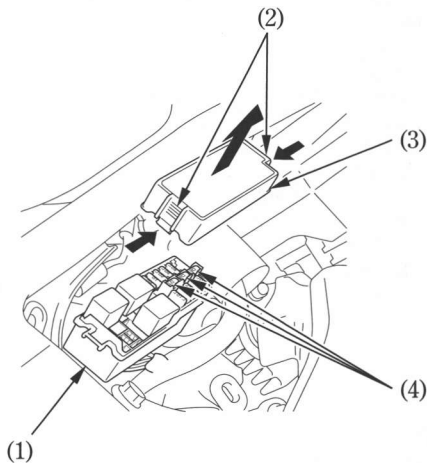
Fuse Box:

The fuse box (1) is located behind the right side cover.

The specified fuses are:

10 A, 20 A, 30 A

1. Remove the right side cover (page 60).
2. Release the tabs (2), then remove the fuse box cover (3).
3. Pull out the old fuse and install a new fuse.
The spare fuses (4) are located in the fuse box.
4. Install the fuse box cover and right side cover.



(1) Fuse box
(2) Tabs

(3) Fuse box cover
(4) Spare fuses

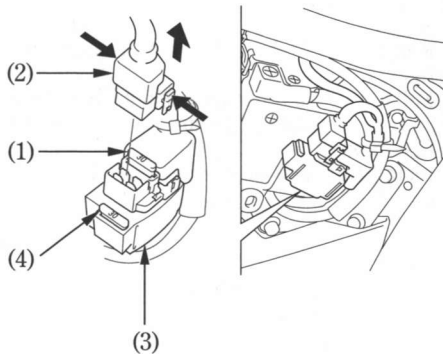
Main Fuse:

The main fuse (1) is located behind the left side cover.

The specified fuse is:

30 A

1. Remove the left side cover (page 60).
2. Disconnect the wire connector (2) of the starter magnetic switch (3).
3. Pull out the old fuse and install a new fuse. The spare main fuse (4) is located near the starter magnetic switch.
4. Reconnect the connector and install the left side cover.



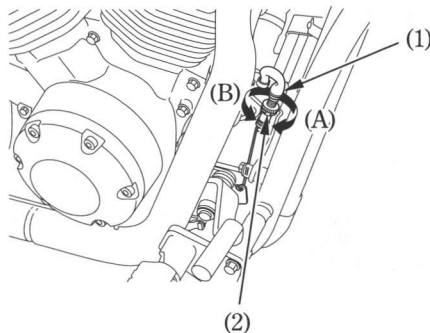
- (1) Main fuse
- (2) Wire connector
- (3) Starter magnetic switch
- (4) Spare main fuse

BRAKELIGHT SWITCH ADJUSTMENT

Refer to the Safety Precautions on page 79 .

Check the operation of the brakelight switch (1) at the right side behind the engine from time to time.

Adjustment is done by turning the adjusting nut (2). Turn the nut in the direction (A) if the switch operates too late and in direction (B) if the switch operates too soon.



- (1) Brakelight switch
- (2) Adjusting nut

BULB REPLACEMENT

Refer to the Safety Precautions on page 79 .

The light bulb becomes very hot while the light is ON, and remains hot for a while after it is turned OFF. Be sure to let it cool down before servicing.

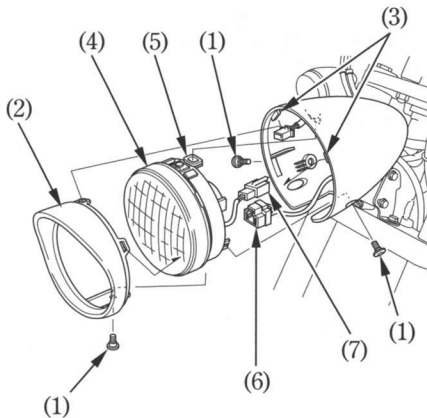
Do not put finger prints on the headlight bulb, as they may create hot spots on the bulb and cause it to break.

Wear clean gloves while replacing the bulb. If you touch the bulb with your bare hands, clean it with a cloth moistened with alcohol to prevent its early failure.

- Be sure to turn the ignition switch OFF when replacing the bulb.
- Do not use bulbs other than those specified.
- After installing a new bulb, check that the light operates properly.

Headlight/Position Light Bulb

1. Remove the bolts (1) from the headlight case.
2. Remove the headlight rim (2) by pulling its lower end forward and release the tabs (3).
3. Remove the headlight (4) by pulling it forward and release the grommet (5).
4. Disconnect the headlight connector (6).
5. (except U type)
Disconnect the position light connector (7).



- | | |
|-------------------|------------------------------|
| (1) Bolts | (5) Grommet |
| (2) Headlight rim | (6) Headlight connector |
| (3) Tabs | (7) Position light connector |
| (4) Headlight | |

6. —Headlight bulb:

- Remove the seat rubber (8).
- Remove the headlight bulb (9) while pressing down on the pin (10).

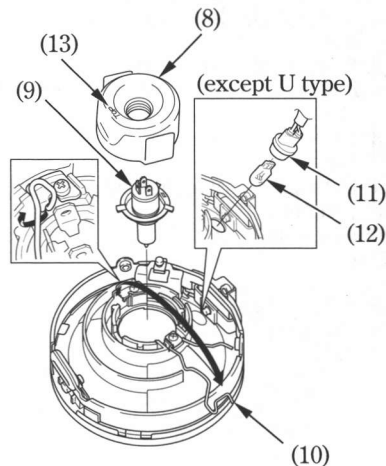
—Position light bulb: (except U type)

- Pull out the socket (11).
- Pull the position light bulb (12) out.

7. Install a new bulb in the reverse order of removal.

- Install the dust cover with its “TOP” mark (13) facing up.

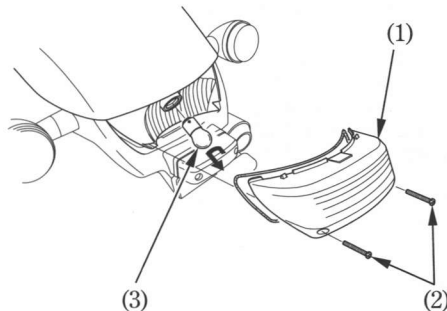
8. Install the removed parts in the reverse order of removal.



- | | |
|--------------------|--------------------------|
| (8) Seat rubber | (11) Socket |
| (9) Headlight bulb | (12) Position light bulb |
| (10) Pin | (13) “TOP” mark |

Brake/Tail Light Bulb

1. Remove the brake/tail light lens (1) by removing the screws (2).
2. Slightly press the bulb (3) and turn it counterclockwise.
3. Install a new bulb in the reverse order of removal.
4. Install the removed parts in the reverse order of removal.

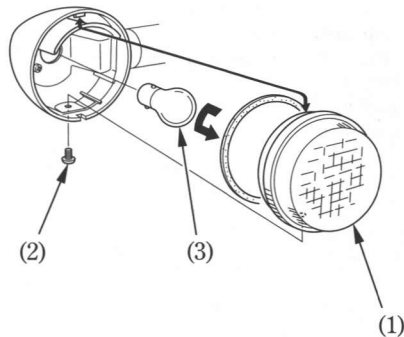


- (1) Brake/tail light lens
- (2) Screws
- (3) Bulb

Front/Rear Turn Signal Bulb

The right and left turn signal bulbs replacement can be done in the same way.

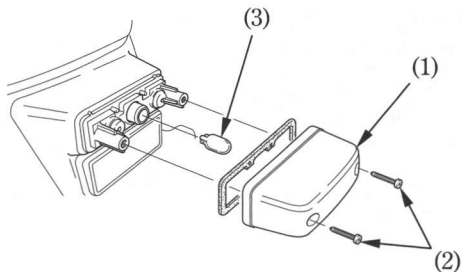
1. Remove the turn signal lens (1) by removing the screw (2).
2. Slightly press the bulb (3) and turn it counterclockwise.
3. Install a new bulb in the reverse order of removal.
4. Install the removed parts in the reverse order of removal.



- (1) Turn signal lens
(2) Screw
(3) Bulb

License Light Bulb

1. Remove the license light cover (1) by removing the screws (2).
2. Pull out the bulb (3) without turning.
3. Install a new bulb in the reverse order of removal.
4. Install the removed parts in the reverse order of removal.



- (1) License light cover
- (2) Screws
- (3) Bulb

CLEANING

Clean your motorcycle regularly to protect the surface finishes and inspect for damage, wear, and oil, coolant or brake fluid leakage.

Avoid cleaning products that are not specifically designed for motorcycle or automobile surfaces.

They may contain harsh detergents or chemical solvents that could damage the metal, paint, and plastic on your motorcycle.

If your motorcycle is still warm from recent operation, give the engine and exhaust system time to cool off.

We recommend avoiding the use of high pressure water spray (typical in coin-operated car washes).

NOTICE

High pressure water (or air) can damage certain parts of the motorcycle.

Do not direct water at the air intake. The water could enter the air cleaner or be drawn into the throttle body.

After washing, inspect for the crankcase breather drain tube. If water is in the tube, clean the crankcase breather drain tube (page 91).

Washing the Motorcycle

1. Rinse the motorcycle thoroughly with cool water to remove loose dirt.
2. Clean the motorcycle with a sponge or soft cloth using cool water.
Avoid directing water to muffler outlets and electrical parts.
3. Clean the plastic parts using a cloth or sponge dampened with a solution of mild detergent and water. Rub the soiled area gently rinsing it frequently with fresh water.

Take care to keep brake fluid or chemical solvents off the motorcycle.

They will damage the plastic and painted surfaces.

4. After cleaning, rinse the motorcycle thoroughly with plenty of clean water. Strong detergent residue can corrode alloy parts.
5. Dry the motorcycle, start the engine, and let it run for several minutes.
6. Test the brakes before riding the motorcycle. Several applications may be necessary to restore normal braking performance.

Braking efficiency may be temporarily impaired immediately after washing the motorcycle.

Anticipate longer stopping distance to avoid a possible accident.

Finishing Touches

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

Removing Road Salt

〈Except SI type〉

Road Salt used on roads during winter and salt from seawater causes rust.

Wash your motorcycle as follows after it has run through salty water or on roads treated with Road Salt.

〈SI type〉

Seawater can be found on the road near the seaside.

The salt in seawater causes rust.

Wash your motorcycle as follows after it has run through salty water.

1. Clean the motorcycle using cool water (page 126).

Do not use warm water.

This worsens the effect of the salt.

2. Dry the motorcycle and make sure the metal is protected with the wax.

Painted Aluminum Wheel Maintenance

Aluminum may corrode from contact with dirt, mud, or road salt. Clean the wheels after riding through any of these substances. Use a wet sponge and mild detergent. Avoid stiff brushes, steel wool, or cleaners containing abrasives or chemical compounds.

After washing, rinse with plenty of water and dry with a clean cloth.

Exhaust Pipe Maintenance

The exhaust pipe is stainless steel but may become stained by oil or mud. If necessary, remove heat stains with a liquid kitchen abrasive.

STORAGE GUIDE

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

STORAGE

1. Change the engine oil and filter.

2. < Except SI type >

Make sure the cooling system is filled with a 50/50 % antifreeze solution.

< SI type >

Make sure the cooling system is filled with a HONDA PRE-MIX COOLANT.

3. Empty the fuel tank into an approved petrol container using a commercially available hand siphon or an equivalent method. Spray the inside of the tank with an aerosol rust-inhibiting oil.

Reinstall the fuel fill cap on the tank.

WARNING

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

- Stop the engine and keep heat, sparks, and flame away.
- Refuel only outdoors.
- Wipe up spills immediately.

4. To prevent rusting in the cylinders, perform the following:
 - Remove the spark plug caps from the spark plugs. Using tape or string, secure the caps to any convenient plastic body part so that they are positioned away from the spark plugs.
 - Remove the spark plugs from the engine and store them in a safe place. Do not connect the spark plugs to the spark plug caps.
 - Pour a tablespoon (15–20 cm³) of clean engine oil into each cylinder and cover the spark plug holes with a piece of cloth.
 - Crank the engine several times to distribute the oil.
 - Reinstall the spark plugs and spark plug caps.
5. Remove the battery. Store in an area protected from freezing temperatures and direct sunlight.
Slow charge the battery once a month.
6. Wash and dry the motorcycle. Wax all painted surfaces. Coat chrome with rustinhibiting oil.
7. Inflate the tyres to their recommended pressures. Place the motorcycle on blocks to raise both tyres off the ground.
8. Cover the motorcycle (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 motorcycle in direct sunlight.

REMOVAL FROM STORAGE

1. Uncover and clean the motorcycle.
2. Change the engine oil if more than 4 months have passed since the start of storage.
3. Charge the battery as required. Install the battery.
4. Drain any excess aerosol rust-inhibiting oil from the fuel tank. Fill the fuel tank with fresh petrol.
5. Perform all Pre-ride Inspection checks (page 64).

Test ride the motorcycle at low speeds in a safe riding area away from traffic.

TAKING CARE OF THE UNEXPECTED

IF YOU CRASH

Personal safety is your first priority after a crash. If you or anyone else has been injured, take time to assess the severity of the injuries and whether it is safe to continue riding. Call for emergency assistance if needed. Also follow applicable laws and regulations if another person or vehicle is involved in the crash.

If you decide that you are capable of riding safely, first evaluate the condition of your motorcycle. If the engine is still running, turn it off and look it over carefully; inspect it for fluid leaks, check the tightness of critical nuts and bolts, and secure such parts as the handlebar, control levers, brakes, and wheels.

If there is minor damage, or you are unsure about possible damage, ride slowly and cautiously. Sometimes, crash damage is hidden or not immediately apparent, so you should have your motorcycle thoroughly checked at a qualified service facility as soon as possible. Also, be sure to have your Honda dealer check the frame and suspension after any serious crash.

SPECIFICATIONS

DIMENSIONS

Overall length	2,580 mm (101.6 in)
Overall width	820 mm (32.3 in)
Overall height	1,100 mm (43.3 in)
Wheelbase	1,785 mm (70.3 in)

CAPACITIES

Engine oil	After draining	3.5 ℓ (3.7 US qt , 3.1 Imp qt)
	After draining and oil filter change	
	After disassembly	
Final drive gear oil	After draining	3.7 ℓ (3.9 US qt , 3.3 Imp qt)
Fuel tank		4.3 ℓ (4.5 US qt , 3.8 Imp qt)
Cooling system capacity		130 cm ³ (4.4 US oz , 4.6 Imp oz)
Passenger capacity		16.5 ℓ (4.36 US gal , 3.63 Imp gal)
Maximum weight capacity		2.54 ℓ (2.68 US qt , 2.23 Imp qt)
		Operator and one passenger
		198 kg (437 lb)

ENGINE

Bore and stroke	$89.5 \times 104.3 \text{ mm}$ ($3.52 \times 4.11 \text{ in}$)
Compression ratio	9.2 : 1
Displacement	$1,312 \text{ cm}^3$ (80.0 cu-in)
Spark plug	DCPR6E (NGK) or XU20EPR—U (DENSO)
Standard	
For extended high speed riding	DCPR7E (NGK) or XU22EPR—U (DENSO)
Spark plug gap	0.8—0.9 mm (0.03—0.04 in)
Idle speed	$900 \pm 100 \text{ min}^{-1}$ (rpm)

CHASSIS AND SUSPENSION

Caster	33°00'
Trail	115 mm (4.5 in)
Tyre size, front	90/90—21M/C 54H DUNLOP ELITE3 G BRIDGESTONE G701 F
Tyre size, rear	170/80—15M/C 77H DUNLOP ELITE3 BRIDGESTONE G702 F
Tyre type	bias-ply, tubeless

POWER TRANSMISSION

Primary reduction	1.758
Secondary reduction	0.944
Final reduction	2.818
Gear ratio 1st	1.900
2nd	1.230
3rd	0.909
4th	0.756
5th	0.676

ELECTRICAL

Battery
Generator

12V – 11.2Ah (10HR) / 11.8Ah (20HR)
0.380 kW/5,000 min⁻¹ (rpm)

LIGHTS

Headlight
Brake/Tail light
Turn signal light

Front
Rear

Position light
License light

12V – 60/55W
12V – 21/5W
12V – 21W
12V – 21W
12V – 5W ...Except U type
12V – 5W

FUSE

Main fuse
Other fuses

30 A
10 A, 20 A, 30 A

CATALYTIC CONVERTERS

This motorcycle is equipped with catalytic converters.

Each catalytic converter contains precious metals that serve as catalysts, promoting chemical reactions to convert the exhaust gasses without affecting the metals.

The catalytic converters act on HC, CO, and NOx. Replacement parts must be original Honda parts or their equivalents.

The catalytic converters must operate at a high temperature for the chemical reactions to take place. They can set on fire any combustible materials that come near them. Park your motorcycle away from high grasses, dry leaves, or other flammables.

Defective catalytic converters contribute to air pollution, and can impair your engine's performance. Follow these guidelines to protect your motorcycle's catalytic converters.

- Always use unleaded petrol. Even a small amount of leaded petrol can contaminate the catalyst metals, making the catalytic converters ineffective.
- Keep the engine in good running condition.
A poorly running engine can cause the catalytic converter to overheat causing damage to the converter or the motorcycle.
- If your engine is misfiring, backfiring, stalling, or otherwise not running properly, stop riding and turn off the engine. Have your motorcycle serviced as soon as possible.