

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

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

Welcome

Congratulations on your purchase of a new Honda motorcycle. Your selection of a Honda makes you part of a worldwide family of satisfied customers who appreciate Honda's reputation for building quality into every product.

To ensure your safety and riding pleasure:

- Read this owner's manual carefully.
- Follow all recommendations and procedures contained in this manual.
- Pay close attention to safety messages contained in this manual and on the motorcycle.

- The following codes in this manual indicate each country.
- The illustrations here in are based on the C125A ED type.

Country Codes

Code	Country
C125A	
ED	European direct sales
E	UK
U	Australia

*The specifications may vary with each locale.

A Few Words About Safety

Your safety, and the safety of others, is very important. 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 safety 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 judgement.

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.

Other important information is provided under the following titles:

NOTICE Information to help you avoid damage to your motorcycle, other property, or the environment.

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Motorcycle Safety P. 2

Operation Guide P. 18

Maintenance P. 57

Troubleshooting P. 99

Information P. 119

Specifications P. 133

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Motorcycle Safety

This section contains important information for safe riding of your motorcycle.
Please read this section carefully.

Safety Guidelines	P. 3
Image Labels	P. 6
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Riding Precautions	P. 12
Accessories & Modifications	P. 16
Loading	P. 17

Safety Guidelines

Safety Guidelines

Follow these guidelines to enhance your safety:

- Perform all routine and regular inspections specified in this manual.
- Stop the engine and keep sparks and flame away before filling the fuel tank.
- Do not run the engine in enclosed or partly enclosed areas. Carbon monoxide in exhaust gases is toxic and can kill you.

Always Wear a Helmet

It's a proven fact: helmets and protective apparel significantly reduce the number and severity of head and other injuries. So always wear an approved motorcycle helmet and protective apparel. ➤ P. 11

Before Riding

Make sure that you are physically fit, mentally focused and free of alcohol and drugs. Check that you are wearing an approved motorcycle helmet and protective apparel.

Take Time to Learn & Practice

Even if you have ridden other motorcycles, practice riding in a safe area to become familiar with how this motorcycle works and handles, and to become accustomed to the motorcycle's size and weight.

Ride Defensively

Always pay attention to other vehicles around you, and do not assume that other drivers see you. Be prepared to stop quickly or perform an evasive maneuver.

Safety Guidelines

Make Yourself Easy to See

Make yourself more visible, especially at night, by wearing bright reflective clothing, positioning yourself so other drivers can see you, signaling before turning or changing lanes, and using your horn when necessary.

Ride within Your Limits

Never ride beyond your personal abilities or faster than conditions warrant. Fatigue and inattention can impair your ability to use good judgement and ride safely.

Don't Drink and Ride

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

Keep Your Honda in Safe Condition

It's important to keep your motorcycle properly maintained and in safe riding condition. Inspect your motorcycle before every ride and perform all recommended maintenance. Never exceed load limits (➤ P. 17), and do not modify your motorcycle or install accessories that would make your motorcycle unsafe (➤ P. 16).

If You are Involved in a Crash

Personal safety is your first priority. 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.

Safety Guidelines

If you decide to continue riding, first turn the ignition switch to the **○** (Off) position, and evaluate the condition of your motorcycle. Inspect for fluid leaks, check the tightness of critical nuts and bolts, and check the handlebar, control levers, brakes, and wheels. Ride slowly and cautiously.

Your motorcycle may have suffered damage that is not immediately apparent. Have your motorcycle thoroughly checked at a qualified service facility as soon as possible.

Carbon Monoxide Hazard

Exhaust contains poisonous carbon monoxide, a colourless, odorless gas. Breathing carbon monoxide can cause loss of consciousness and may lead to death.

If you run the engine in confined or even partly enclosed area, the air you breathe could contain a dangerous amount of carbon monoxide.

Never run your motorcycle inside a garage or other enclosure.

⚠WARNING

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

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

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

Image Labels

Image Labels

Motorcycle Safety

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 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 your 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.

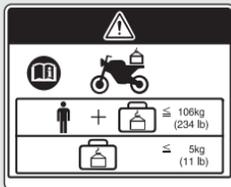
Image Labels



BATTERY LABEL DANGER

- Keep flame and spark away from the battery. Battery produce explosive gas that can cause explosion.
- Wear the eye protection and rubber gloves when handling the battery, or you can get burned or lose your eyesight by the battery electrolyte.
- Do not allow children and other people to touch a battery unless they understand proper handling and hazards of the battery very well.
- Handle the battery electrolyte with extreme care as it contains dilute sulfuric acid. Contact with your skin or eyes can burn you or cause loss of your eyesight.
- Read this manual carefully and understand it before handling the battery. Neglect of the instructions can cause personal injury and damage to the motorcycle.
- Do not use a battery with the electrolyte at or below the lower level mark. It can explode causing serious injury.

Image Labels



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 weight should not exceed **106 kg (234 lb)**, which is the maximum weight capacity.
- The luggage weight must not exceed **5 kg (11 lb)** under any circumstances.
- The fitting of large fork-mounted or large handlebar mounted fairing is not recommended.



ABS INFORMATION LABEL

This model equipped with an Anti-lock Brake System (ABS) on front wheel.

Image Labels

Motorcycle Safety

TYRE INFORMATION LABEL

Cold tyre pressure:
[Driver]

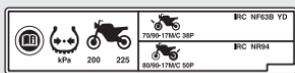
Front	200 kPa (2.00 kgf/cm², 29 psi)
Rear	225 kPa (2.25 kgf/cm², 33 psi)

Tyre size:

Front	70/90-17M/C 38P
Rear	80/90-17M/C 50P

Tyre brand: IRC

Front	NF63B YD
Rear	NR94



ED, E type



SAFETY REMINDER LABEL

For your protection, always wear helmet, protective apparel.

FUEL LABEL

Unleaded petrol only
ETHANOL up to 10 % by volume

U type



Image Labels

Motorcycle Safety



DRIVE CHAIN LABEL

Keep chain adjusted and lubricated.
Freeplay **25 - 35 mm (1.0 - 1.4 in)**

Safety Precautions

- Ride cautiously and keep your hands on the handlebar and feet on the footpegs.
- Always consider the safety of other drivers and riders.

Protective Apparel

Make sure that you are wearing an approved motorcycle helmet, eye protection, and high-visibility protective clothing. Ride defensively in response to weather and road conditions.

■ Helmet

Safety-standard certified, high-visibility, correct size for your head

- Must fit comfortably but securely, with the chin strap fastened.
- Face shield with unobstructed field of vision or other approved eye protection

⚠ WARNING

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

Make sure that you always wear an approved helmet and protective apparel.

■ Gloves

Full-finger leather gloves with high abrasion resistance

■ Boots or Riding Shoes

Sturdy boots with non-slip soles and ankle protection

■ Jacket and Trousers

Protective, highly visible, long-sleeved jacket and durable trousers for riding (or a protective suit)

Riding Precautions

Riding Precautions

Running-in Period

During the first 500 km (300 miles) of running, follow these guidelines to ensure your motorcycle's future reliability and performance.

- Avoid full-throttle starts and rapid acceleration.
- Avoid hard braking and rapid down-shifts.
- Ride conservatively.

Brakes

Observe the following guidelines:

- Avoid excessively hard braking and downshifting.
 - ▶ Sudden braking can reduce the motorcycle's stability.
 - ▶ Where possible, reduce speed before turning; otherwise you risk sliding out.
- Exercise caution on low traction surfaces.
 - ▶ The tyres slip more easily on such surfaces and braking distances are longer.
- Avoid continuous braking.
 - ▶ Repeated braking, such as when descending long, steep slopes can seriously overheat the brakes, reducing their effectiveness. Use engine braking with intermittent use of the brakes to reduce speed.
- For full braking effectiveness, operate both the front and rear brakes together.

Riding Precautions

■ Anti-lock Brake System (ABS) on Front Wheel

This model equipped with an Anti-lock Brake System (ABS) designed to help prevent the front brake from locking up during hard braking.

- There is no ABS function to the rear wheel.
- ABS does not reduce braking distance. In certain circumstances, ABS may result in a longer stopping distance.
- ABS does not function at speeds below 10 km/h (6 mph).
- The brake lever may recoil slightly when applying the brakes. This is normal.
- Always use the recommended front/rear tyres and sprockets to ensure correct ABS operation.

■ Engine Braking

Engine braking helps slow your motorcycle down when you release the throttle. For further slowing action, downshift to a lower gear. Use engine braking with intermittent use of the brakes to reduce speed when descending long, steep slopes.

■ Wet or Rainy Conditions

Road surfaces are slippery when wet, and wet brakes further reduce braking efficiency. Exercise extra caution when braking in wet conditions.

If the brakes get wet, apply the brakes while riding at low speed to help them dry.

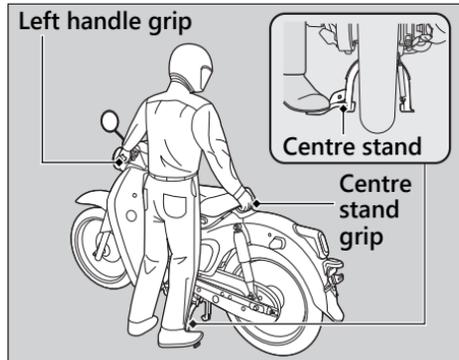
Riding Precautions

Parking

- Park on a firm, level surface.
- If you must park on a slight incline or loose surface, park so that the motorcycle cannot move or fall over.
- Make sure that high-temperature parts cannot come into contact with flammable materials.
- Do not touch the engine, muffler, brakes and other high-temperature parts until they cool down.
- To reduce the likelihood of theft, always lock the handlebar, lock the ignition switch (▶ P. 37) and leave your motorcycle while taking the Honda SMART Key with you. Deactivate the Honda SMART Key system if necessary. ▶ P. 32
Use of an anti-theft device is also recommended.
Also set the anti-theft alarm system.

Parking with the Centre Stand

1. Stop the engine.
2. To lower the centre stand, stand on the left side of the motorcycle.
Hold the left handle grip and the centre stand grip.
Press down on the tip of the centre stand with your right foot and, simultaneously, pull up and back.
3. Turn the handlebar fully to the left.



Riding Precautions

4. Turn the ignition switch to the  (Lock) position (➤ P. 30) and lock the ignition switch (➤ P. 37).
5. Set the anti-theft alarm system. ➤ P. 39

Refuelling and Fuel Guidelines

Follow these guidelines to protect the engine, fuel system and catalytic converter:

- Use only unleaded petrol.
- Use recommended octane number. Using lower octane petrol will result in decreased engine performance.
- Do not use fuels containing a high concentration of alcohol. ➤ P. 131
- Do not use stale or contaminated petrol or an oil/petrol mixture.
- Avoid getting dirt or water in the fuel tank.

Motorcycle Safety

Accessories & Modifications

Motorcycle Safety

Accessories & Modifications

We strongly advise that you do not add any accessories that were not specifically designed for your motorcycle by Honda or make modifications to your motorcycle from its original design. Doing so can make it unsafe. Modifying your motorcycle may also void your warranty and make your motorcycle illegal to operate on public roads. Before deciding to install accessories on your motorcycle be certain the modification is safe and legal.

⚠️ 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.

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

Loading

- Carrying extra weight affects your motorcycle's handling, braking and stability. Always ride at a safe speed for the load you are carrying.
- Avoid carrying an excessive load and keep within specified load limits.

Maximum weight capacity/Maximum luggage weight  P. 133

- Tie all luggage securely, evenly balanced and close to the centre of the motorcycle.
- Do not place objects near the lights or the muffler.

WARNING

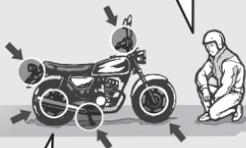
Overloading, improper loading or carrying a passenger can cause a crash and you can be seriously hurt or killed.

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

Basic Operation Flow

Pre-ride Inspection P.62

Carefully inspect your motorcycle to make sure that it is safe to ride.



How to use basic features.

- Instruments  P.22
- Indicators  P.26
- Switches  P.28
- Steering Lock  P.30
- Honda SMART Key System  P.31
- Anti-theft Alarm System  P.39
- Answer Back System  P.44

Acceleration

Apply throttle gradually.
Obey the speed limit.



Shift Change P.51



Starting the Engine P.49

Start and warm the engine.
Avoid revving the engine.



Starting the Motorcycle

Before pulling away, indicate your direction with the turn signal switch, and check for oncoming traffic.

Braking

STOP!



Close the throttle and apply the front and rear brakes together.
▶ The brakelight will indicate that you have applied the brakes.

Stopping

If pulling off the road, signal early enough to show traffic that you are pulling over, and pull over smoothly.



Turning Corners

Do your braking before entering corners.



Gradually reapply throttle when exiting turn.

Parking → P.14

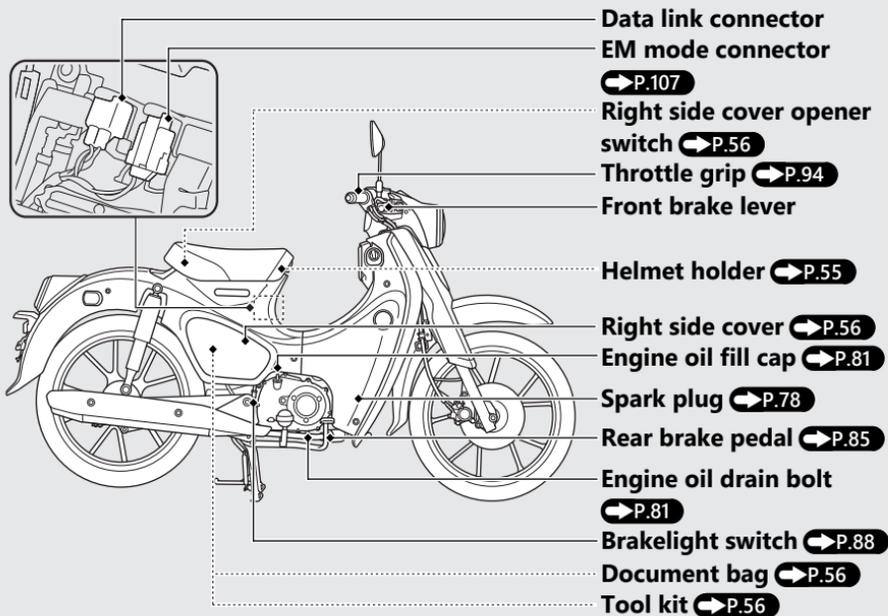
Park on a firm level surface. Use the stand, and lock the steering.

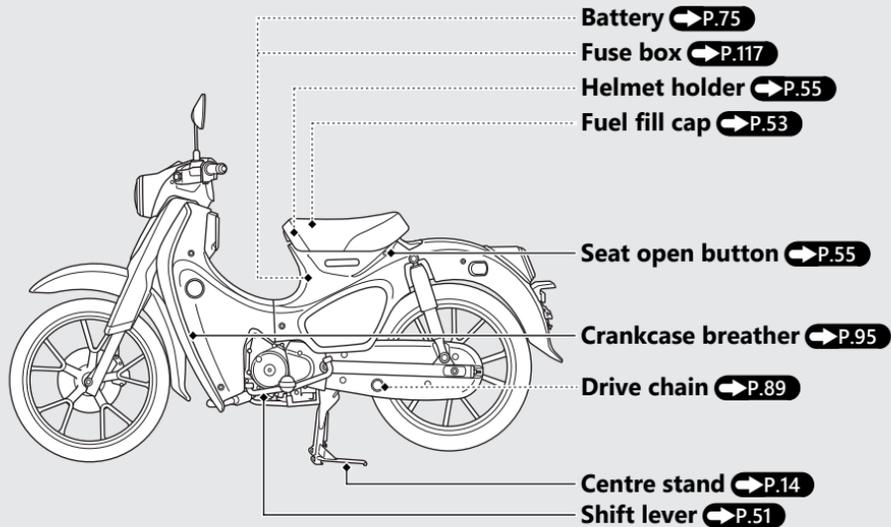


Refuelling → P.53



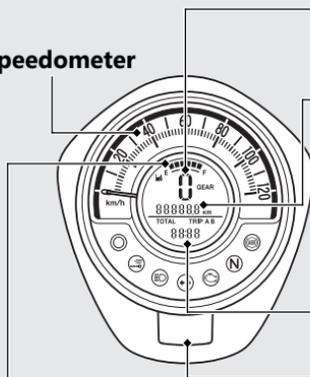
Parts Location





Instruments

Speedometer



Gear position indicator

The gear position is shown in the gear position indicator.
 ▶ "-" appears when the transmission is not shift properly.

Odometer [TOTAL]/Tripmeter [TRIP A/B]

Mode button switches between the odometer and the tripmeter.

- Odometer: Total distance ridden.
- Tripmeter: Distance ridden since tripmeter was reset.
 ▶ To reset tripmeter, press and hold mode button to reset to 0.0 km.

Clock (12-hour display)

To set the clock: ➡ P.24

Mode button

Fuel gauge

Remaining fuel when only 1st (E) segment starts flashing approximately:
 1.0 L (0.26 US gal, 0.22 Imp gal)

If the fuel gauge indicator flashes in a repeat pattern or turns off: ➡ P.104

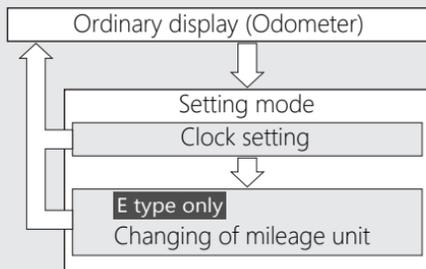
Display Check

When the ignition switch is turned to the **I** (On) position, the speedometer needle swings to the maximum scale on the dial once, all the mode and digital segments will show. If any part of these displays does not come on when it should, have your dealer check for problems.

Display Setting

You can adjust the two settings.

- Clock setting
- **E type only** Changing of mileage unit



⇨ Press and hold the mode button.

The established setting can also be set by turning the ignition switch to the **○** (Off) position.

The control is automatically switched from the setting mode to the ordinary display if the button is not pressed for about 30 seconds. Even in this case, established setting is maintained.

Instruments (Continued)**1 Clock setting:**

- ① Turn the ignition switch to the **I** (On) position.
- ② With odometer displayed, press and hold the mode button, the hour digits start flashing.
- ③ Press the mode button until the desired hour is displayed.



- ④ Press and hold the mode button, the minute digits start flashing.



- ⑤ Press the mode button until the desired minute is displayed.

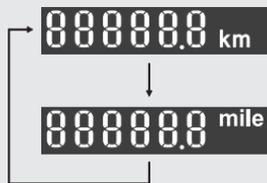


- ⑥ **ED, U type**
Press and hold the mode button. The clock is set, and then the display returns to the ordinary display.
- E type**
Press and hold the mode button. The clock is set, and then the display moves to the changing of mileage unit.

2 Changing of mileage unit:

E type only

- 1 Press the mode button to select either "km" or "mile".



- 2 Press and hold the mode button.
The mileage unit is set, and then the display returns to the ordinary display.

Indicators

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

 **Turn signal indicator**

 **High beam indicator**

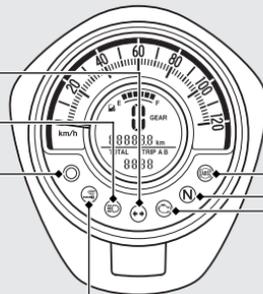
Alarm indicator

Anti-theft Alarm System:  **P.39**

 **Honda SMART Key indicator**

Comes on when vehicle and Honda SMART Key verification is complete, and the ignition switch can be operated. Goes off when the ignition switch is turned to the **I** (On) position.

When the Honda SMART Key Indicator Flashes:  **P.103**





ABS (Anti-lock Brake System) indicator

Comes on when the ignition switch is turned to the **I** (On) position.
Goes off when your speed reaches approximately 10 km/h (6 mph).

If it comes on while riding: **P.102**



Neutral indicator

Comes on when the transmission is in Neutral.

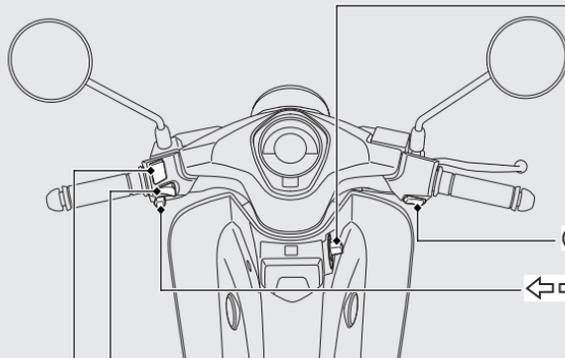


PGM-FI (Programmed Fuel Injection) malfunction indicator lamp (MIL)

Comes on briefly when the ignition switch is turned to the **I** (On) position.

If it comes on while engine is running: **P.101**

Switches



 **Start button**



Turn signal switch

▶ Pressing the switch turns the turn signal off.



Horn button

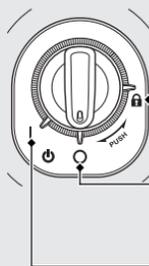
Headlight dimmer switch

-  : High beam
-  : Low beam

Ignition switch

Switches the electrical system on/off and locks the steering.

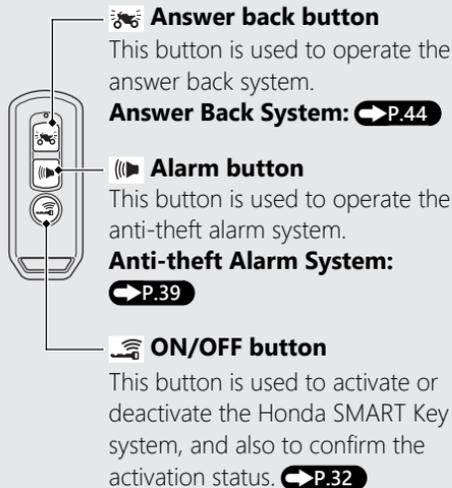
To unlock the ignition switch:  **P.36**



 **(Lock)**
Locks steering.

 **(Off)**
Turns engine off.

 **(On)**
Turns electrical system on for starting/riding.



 **Answer back button**
This button is used to operate the answer back system.

Answer Back System:  **P.44**

 **Alarm button**
This button is used to operate the anti-theft alarm system.

Anti-theft Alarm System:
 **P.39**

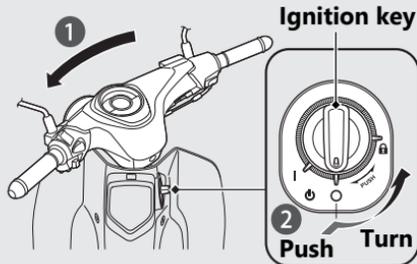
 **ON/OFF button**
This button is used to activate or deactivate the Honda SMART Key system, and also to confirm the activation status.  **P.32**

Switches *(Continued)*

Steering Lock

Lock the steering when parking to help prevent theft.

A U-shaped wheel lock or similar device is also recommended.



Locking

- ① Turn the handlebar all the way to the left.
- ② Push the ignition switch down, and turn it to the  (Lock) position.
 - ▶ To unlock the ignition switch. ➔ P.36
 - ▶ Jiggle the handlebar if the lock is difficult to engage.
- ③ Lock the ignition switch. ➔ P.37

Unlocking

Push the ignition switch in, and turn it to the

- (Off) position.
 - ▶ To unlock the ignition switch. ➔ P.36

Honda SMART Key System

The Honda SMART Key system allows you to operate the main switch without inserting a key into a keyhole.

The system runs a two-way authentication between the motorcycle and the Honda SMART Key to verify if it is the registered Honda SMART Key.

The Honda SMART Key system uses low-intensity radio waves. It may affect medical equipment such as a cardiac pacemakers.

Honda SMART Key System *(Continued)*

Switching the Honda SMART Key System

To switch the Honda SMART Key system to activation or deactivation

Press the ON/OFF button until the LED colour of the Honda SMART Key changes.

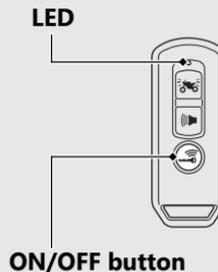
To check the Honda SMART Key system status

Lightly press the ON/OFF button. The LED of the Honda SMART Key will show the status.

When the LED of the Honda SMART Key is:

Green: Honda SMART Key system authentication can be performed.

Red: Honda SMART Key system authentication can not be performed.



Operating Range

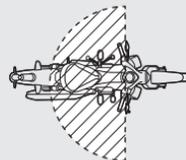
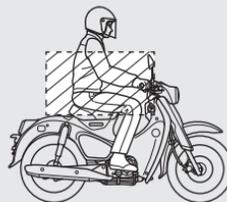
The operating range varies when the ignition switch is locked or unlocked.

The Honda SMART Key system uses low-intensity radio waves. Therefore the operating range may become wider or narrower, or the Honda SMART Key system may not work properly in the following environments.

- When the Honda SMART Key battery is depleted.
- When there are facilities nearby that generate strong radio waves or noise such as TV towers, power stations, radio stations, or airports.
- When you carry the Honda SMART Key with a laptop or wireless communication device such as a radio or mobile phone.
- When the Honda SMART Key comes into contact with or is covered by metal objects.

When the ignition switch is unlocked:

The system can be operated within the shaded area shown in the illustration.

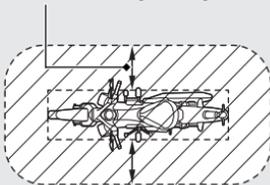


Honda SMART Key System *(Continued)*

When the ignition switch is locked:

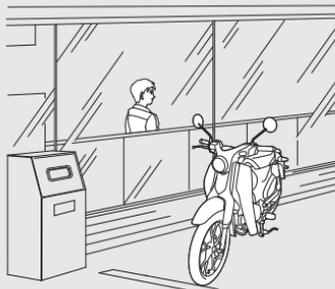
The system can be operated within the shaded area shown in the illustration.

About 2 m (6.6 ft)



Anyone can unlock the ignition switch and start the engine if your Honda SMART Key is within operating range of your motorcycle, even if you are on the other side of a wall or window. If you are away from your motorcycle but your Honda SMART Key is still within operating range, deactivate the Honda SMART Key system.

To switching the Honda SMART Key system ➔ P.32



Anyone in possession of the Honda SMART Key can perform the following operations if the Honda SMART Key is within operating range:

- Starting the engine
- Unlocking the ignition switch
- Unlocking the seat lock
- Unlocking the steering lock

You should always keep the Honda SMART Key on your person after you get on and off the motorcycle or while riding.

Do not place the Honda SMART Key in any compartment.

If the ignition switch is in the **I** (On) position, the motorcycle can be operated even by a person who does not have a verified Honda SMART Key.

Whenever you leave your motorcycle, lock the steering and lock the ignition switch.

 **P.37**

Make sure the ignition switch ring goes off and all turn signals flash once at this time.

Honda SMART Key System *(Continued)*

Switching the ignition switch

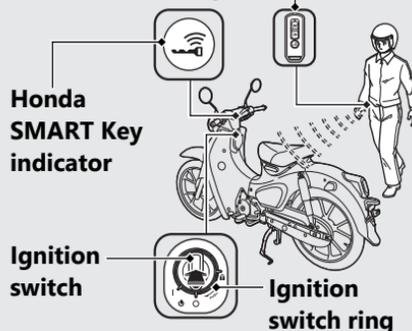
To Unlock the Ignition Switch

- 1 Make sure that the Honda SMART Key is activated. **➡ P.32**
- 2 To authenticate the Honda SMART Key system, push the ignition switch.
 - ▶ When properly authenticated and the ignition switch is unlocked, the buzzer rings 2 times, the Honda SMART Key indicator and ignition switch ring come on.
 - ▶ The buzzer sound can be cancelled. **➡ P.38**
- 3 Turn the ignition switch to the **I** (On) position while the Honda SMART Key indicator comes on.
 - ▶ If you do not turn the ignition switch to the **I** (On) position within 20 seconds after pushing in the ignition switch in, the Honda SMART Key indicator and ignition switch ring will go off, the turn signals flash 1 time, and then the ignition switch will be locked.

When the Honda SMART Key system does not work properly **➡ P.105**

If someone without the Honda SMART Key tries to turn the ignition switch, the ignition switch rotates freely. If you notice the ignition switch is in a different position, turn the ignition switch to the original position (O (Off) or L (Lock)).

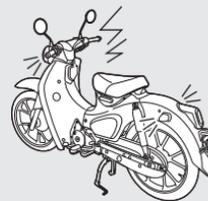
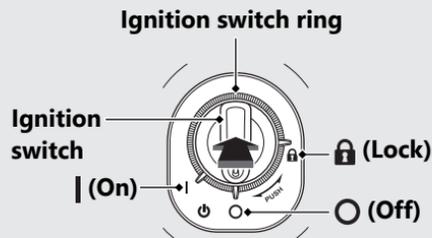
Honda SMART Key



To Lock the Ignition Switch

- 1 Turn the ignition switch to the  (Off) or  (Lock) position.
- 2 Lock the ignition switch by doing one of the following:
 - Leave the operating range with the Honda SMART Key. 
 - Push the ignition switch.
 - Wait for approximately 20 seconds after turning the ignition switch from  (On) to  (Off) or  (Lock) position.
 - Switch the Honda SMART Key system to deactivation. 
- 3 Make sure that the Honda SMART Key indicator and ignition switch ring go off, the turn signals flash once, and the buzzer rings 1 time. This indicates that the ignition switch is locked.
 - ▶ The buzzer sound can be cancelled. 

When the Honda SMART Key system does not work properly



Continued 37

Honda SMART Key System *(Continued)*

Always make sure the ignition switch position is in the  (Off) or  (Lock) position when you leave your motorcycle.

When the ignition switch is locked in the  (Off) position, the steering cannot be locked. To lock the steering, unlock the ignition switch.

Switch the Buzzer Sound When the Ignition Switch is Locked/Unlocked Enable

- 1 Deactivate the Honda SMART Key system.

- 2 Lightly press the ON/OFF button. The red LED of the Honda SMART Key comes on.
- 3 While the red LED is on, press the answer back button.
 - ▶ The red LED starts blinking when the buzzer sound is properly enabled.

Disable

- 1 Deactivate the Honda SMART Key system.

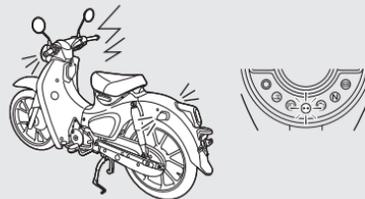
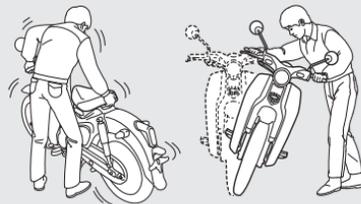
- 2 Lightly press the ON/OFF button. The red LED of the Honda SMART Key blinks.
- 3 While the red LED is blinking, press the answer back button.
 - ▶ The red LED stops blinking but stays on when the buzzer sound is properly disabled.

Anti-theft Alarm System

The anti-theft alarm system is a device to reduce the likelihood of theft. When the sensor detects vibration or movement with the ignition switch in the  (Off) or  (Lock) position and the system is set, the alarm is activated.

The buzzer rings and the turn signals blink for about 10 seconds when the anti-theft alarm system detects vibration caused by contact or movement.

The buzzer rings and the turn signals blink for about 60 seconds when the anti-theft alarm system detects a substantial change in the motorcycle posture. After the buzzer rings for 60 seconds, the anti-theft alarm system will be reset in that posture.



Anti-theft Alarm System *(Continued)*

If the ignition switch is left in the  (Off) or  (Lock) position for more than 10 days, the anti-theft alarm system will no longer operate.

During the system is activating, when the motorcycle receives a signal by pressing the answer back button or alarm button, the system activation will be extended for 10 days.

To reset the system, unlock the ignition switch and turn the ignition switch to the  (On) position once.

▶ To unlock the ignition switch. 

The anti-theft alarm system uses low-intensity radio waves. It may affect medical equipment such as a cardiac pacemaker.

NOTICE

When the battery in the motorcycle is weak, the anti-theft alarm system may not function.

Setting the Anti-theft Alarm System

- 1 Turn the ignition switch to  (Off) or  (Lock) position.
- 2 Press the alarm button. Within a second, the turn signal light blinks and the buzzer rings 1 time. After 2 seconds, the buzzer rings 1 time. The anti-theft alarm system is activated. The alarm indicator flashes while the anti-theft alarm system is activated.

Alarm button



Alarm indicator



■ Cancelling the Anti-theft Alarm System

- 1 To cancel the anti-theft alarm system, do one of the following:
 - Press the alarm button on the Honda SMART Key.
 - Unlock the ignition switch. ➡ P.36
 - Press the seat open button while the Honda SMART Key is in the operating range. ➡ P.33
- 2 Make sure that the turn signal light and alarm indicator blink 2 times, and the buzzer rings 2 times. This indicates that the anti-theft alarm system is cancelled.

Alarm button



■ Stopping the Anti-theft Alarm Activation

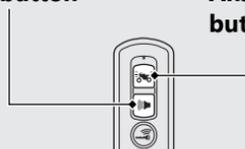
To stop the anti-theft alarm activation, do one of the following:

- Press the alarm button on the Honda SMART Key.
- Press the answer back button on the Honda SMART Key.
- Unlock the ignition switch. ➡ P.36

After stopping the anti-theft alarm activation, the anti-theft alarm system will be cancelled.

Alarm button

Answer back button



Anti-theft Alarm System *(Continued)*

Adjusting the Sensitivity of Anti-theft Alarm System

You can select from 3 sensitivity levels for the anti-theft alarm system.

- ➊ Remove the centre cover. ➔ **P.77**
- ➋ Make sure that the Honda SMART Key system is activated. ➔ **P.32**
- ➌ Push the ignition switch to authenticate the Honda SMART Key system. ➔ **P.36**
- ➍ Connect the EM mode coupler provided on the battery cover to the EM mode connector. ➔ **P.107**
 - ▶ The Honda SMART Key indicator and ignition switch ring go off.

Alarm button



Ignition switch



Ignition switch ring

- ➎ Push the ignition switch 1 time.
- ➏ Repeat this step 3 times as follows:
 - ▶ Press the alarm button on the Honda SMART Key 2 times and the ignition switch 1 time.
 - ▶ When the alarm button is pressed, the LED on the Honda SMART Key comes on. Make sure the LED went off before the next button pressing.
 - ▶ If the alarm button or ignition switch is not pressed for 1 minute, the Honda SMART Key indicator starts blinking and this mode will be cancelled. If so, remove the EM mode coupler, return to ➍ and follow the procedure again.

- 7 Press the alarm button to select from 3 sensitivity level of anti-theft alarm system.
3 times of alarm rings: high sensitivity
2 times of alarm rings: middle sensitivity
1 time of alarm rings: low sensitivity
The Honda SMART Key indicator and ignition switch ring come on while setting.
- 8 Wait for about 10 seconds until the ignition switch ring starts blinking. The sensitivity level is set.
- 9 Remove the EM mode coupler from the EM mode connector to finish setting.
 - ▶ The sensitivity level is also set if you remove the EM mode coupler before the ignition switch ring starts blinking.
- 10 Store the EM mode coupler on the battery cover. Reinstall the parts in reverse order.

■ If the Anti-Theft Alarm System Does Not Operate Properly

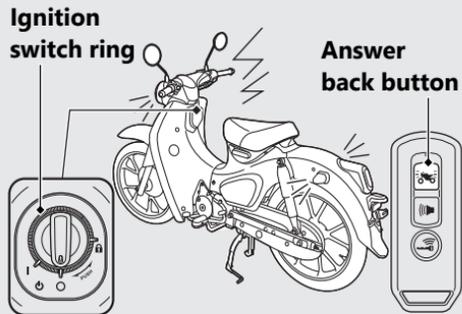
If any of the following situations arise, battery (▶ P. 75) in the motorcycle is discharged or there is a system problem. Remove the battery and see your dealer.

- The alarm does not ring.
- The alarm rings but fades out.
- The alarm system does not stop.

Answer Back System

The answer back system is a device to find the position of your motorcycle. When you press the answer back button on the Honda SMART Key with the ignition switch in the ○ (Off) or 🔒 (Lock) position, your motorcycle informs you location and activation of the immobilizer function by blinking the turn signal light, ringing the buzzer, and lighting the ignition switch ring. The ignition switch ring will light for about 1 minute.

The answer back system uses low-intensity radio waves. It may affect medical equipment such as a cardiac pacemaker.



Operation

Press the answer back button on the Honda SMART Key.

- ▶ The answer back system will not function when the ignition switch is in the **I** (On) position.

If the ignition switch is left in the **O** (Off) or **I** (Lock) position for more than 10 days, the answer back system will no longer operate. During the system is activating, when the motorcycle receives a signal by pressing the answer back button or alarm button, the system activation will be extended for 10 days. To reset the system, unlock the ignition switch and turn the ignition switch to the **I** (On) position once.

- ▶ To unlock the ignition switch. **➔P.36**

NOTICE

When the battery in the motorcycle is weak, the answer back system may not function.

Adjusting the Answer Back Buzzer Sound Volume Level

You can select the buzzer sound volume from 3 levels.

- 1 Remove the centre cover. **➔P.77**
- 2 Make sure that the Honda SMART Key system is activated. **➔P.32**
- 3 Push the ignition switch to authenticate the Honda SMART Key system. **➔P.36**
- 4 Connect the EM mode coupler provided on the battery cover to the EM mode connector. **➔P.107**
 - ▶ The Honda SMART Key indicator and ignition switch ring go off.

Answer back button Ignition switch



Ignition switch ring

Continued 45

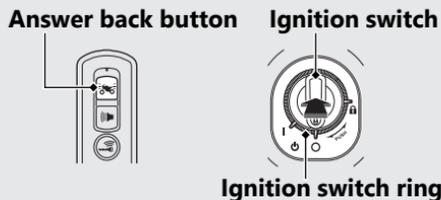
Answer Back System *(Continued)*

- 5 Push the ignition switch 1 time.
- 6 Repeat this step 3 times as follows:
Press the answer back button on the Honda SMART Key 2 times and the ignition switch 1 time.
 - ▶ When the answer back button is pressed, the LED on the Honda SMART Key comes on. Make sure the LED went off before the next button pressing.
 - ▶ If the answer back button or ignition switch is not pressed for 1 minute, the Honda SMART Key indicator starts blinking and this mode will be cancelled. If so, remove the EM mode coupler, return to 3 and follow the procedure again.
- 7 Press the answer back button to select from 3 levels for the sound volume.
The Honda SMART Key indicator and ignition switch ring come on while setting.
- 8 Wait for about 10 seconds until the ignition switch ring starts blinking. The sound volume level is set.
- 9 Remove the EM mode coupler from the EM mode connector to finish setting.
 - ▶ The sound volume level is also set if you remove the EM mode coupler before the ignition switch ring starts blinking.
- 10 Store the EM mode coupler on the battery cover. Reinstall the parts in reverse order.

Changing the Answer Back Buzzer Sound Pattern

You can select buzzer sound from 3 patterns.

- 1 Remove the centre cover. **→P.77**
- 2 Make sure that the Honda SMART Key is activated. **→P.32**
- 3 Push the ignition switch to authenticate the Honda SMART Key system. **→P.36**
- 4 Connect the EM mode coupler provided on the battery cover to the EM mode connector. **→P.107**
 - ▶ The Honda SMART Key indicator and ignition switch ring go off.



- 5 Push the ignition switch 1 time.
- 6 Repeat this step 3 times as follows:
 - ▶ Press the answer back button on the Honda SMART Key 3 times and the ignition switch 1 time.
 - ▶ When the answer back button is pressed, the LED on the Honda SMART Key comes on. Make sure the LED went off before the next button pressing.
 - ▶ If the answer back button or ignition switch is not pressed for 1 minute, the Honda SMART Key indicator starts blinking and this mode will be cancelled. If so, remove the EM mode coupler, return to **3** and follow the procedure again.

Answer Back System *(Continued)*

- 7 Press the answer back button to select from 3 buzzer sound patterns.
The Honda SMART Key indicator and ignition switch ring come on while setting.
- 8 Wait for about 10 seconds until the ignition switch ring starts blinking. The sound pattern is set.
- 9 Remove the EM mode coupler from the EM mode connector to finish setting.
 - ▶ The sound pattern is also set if you remove the EM mode coupler before the ignition switch ring starts blinking.
- 10 Store the EM mode coupler on the battery cover. Reinstall the parts in reverse order.

Temporary Silence Mode

Temporary silence mode is the immediate way to turn off the answer back system buzzer sound.

Enable:

Press and hold the answer back button about 2 seconds, LED on Honda SMART Key is changed to be red.

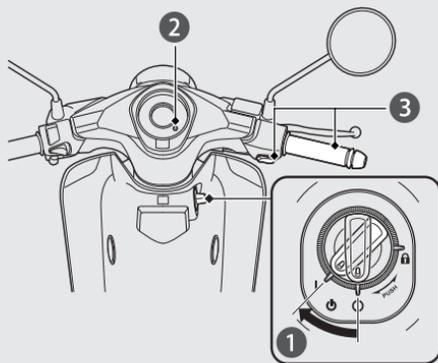
Disable:

Re-press and hold the answer back button about 2 seconds, LED on Honda SMART Key is changed to be green.

Starting the Engine

Start your engine using the following procedure, regardless of whether the engine is cold or warm.

This motorcycle is equipped with a Honda SMART Key system. Always keep Honda SMART Key on you when you ride the motorcycle. ➔ **P.33**



NOTICE

- If the engine does not start within 5 seconds, turn the ignition switch to the **O** (Off) position and wait 10 seconds before trying to start the engine again to recover battery voltage.
- Extended fast idling and revving the engine can damage the engine, and the exhaust system.
- Snapping the throttle or fast idling for more than about 5 minutes may cause exhaust pipe discoloration.

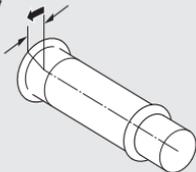
- 1 Turn the ignition switch to the **I** (On) position.
- 2 Shift the transmission to Neutral (**N** indicator to come on).
- 3 Press the start button with the throttle completely closed.

Starting the Engine *(Continued)*

If you cannot start the engine:

Open the throttle slightly (about 3 mm (0.1 in), without freeplay).

About 3 mm (0.1 in), without freeplay



If the engine does not start:

- ① Open the throttle fully and press the start button for 5 seconds.
- ② Repeat the normal starting procedure.
- ③ If the engine starts, open the throttle slightly if idling is unstable.
- ④ If the engine does not start, wait 10 seconds before trying steps ① & ② again.

If Engine Will Not Start → P.100

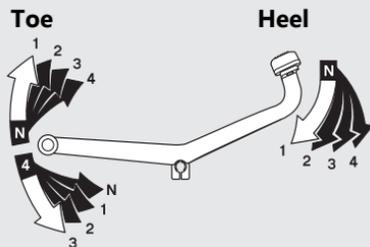
Shifting Gears

U type

Your motorcycle transmission has four forward gears.

- Four-up shift pattern when you shift with your toe.
- Four-down shift pattern when you shift with your heel.

You can shift to a lower gear by depressing the shift lever with your toe.



Regardless of running or stopping, you cannot shift the gear from 4th to neutral directly.

ED, E type

Your motorcycle transmission has four forward gears.

The gearshift operation differs when stopping and when moving.

When stopping, change can be made from 4th to neutral directly with the 4-step rotary system.

When moving, the forward 4-step return system is used.

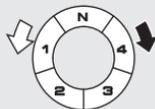
Change cannot be made from 4th to neutral directly.

- ▶ Always return the throttle grip first before changing gear.
- ▶ Operate lightly with the tips of your toes until the shift lever is pushed down.
- ▶ Avoid changing gear needlessly and riding with your foot on the shift lever since this may damage the gear change mechanism and clutch mechanism.

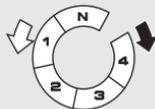
Shifting Gears *(Continued)*



Stopping



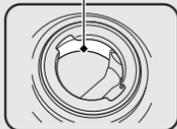
Moving



Proper shifting can prevent damaging the engine and transmission.

Refuelling

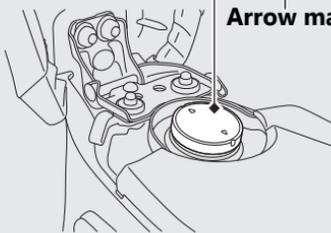
**Lower edge of
filler neck**



Fuel fill cap



Arrow marks



Do not fill with fuel above the lower edge of the filler neck.

Fuel type: Unleaded petrol only

Fuel octane number: Your motorcycle is designed to use Research Octane Number (RON) 91 or higher.

Tank capacity: 3.7 L (0.98 US gal, 0.81 Imp gal)

Refuelling and Fuel Guidelines  **P.15**

Refuelling *(Continued)*

Opening the Fuel Fill Cap

- ① Open the seat.  P.55
- ② Turn the fuel fill cap counterclockwise until it stops and remove the cap.

Closing the Fuel Fill Cap

- ① Install and tighten the fuel fill cap firmly by turning it clockwise.
 - ▶ Make sure that the arrow marks on the cap and fuel tank is aligned.
- ② Close the seat.

WARNING

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

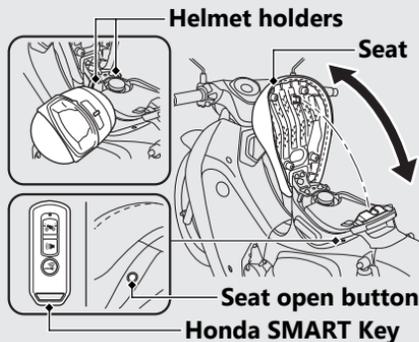
- Stop the engine, and keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Wipe up spills immediately.

Storage Equipment

Helmet holders

The helmet holders are located under the seat.

- ▶ Use the helmet holders only when parked.



Seat Open

The seat open button can be operated when the Honda SMART Key is in the operating range (▶ P. 33) and the ignition switch is in the  (Off) or  (Lock) position.

Press the seat open button and open the seat.

- ▶ If the battery does not have enough voltage to start the engine, the seat may not open.

Seat Close

Close the seat and push down on the rear of the seat until it locks. Make sure that the seat is locked securely to pull it up lightly.

WARNING

Riding with a helmet attached to the holder can interfere with your ability to safely operate the motorcycle and could lead to 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.

Storage Equipment *(Continued)*

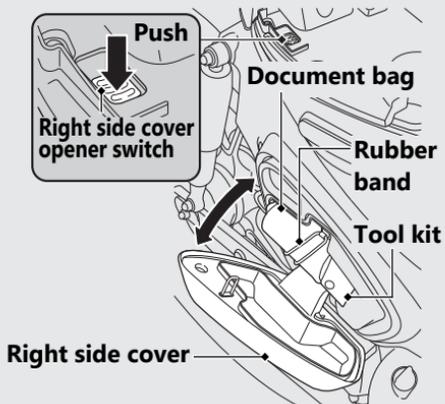
Right Side Cover

Open

- 1 Open the seat. ➔ P.55
- 2 Push the right side cover opener switch.

Close

Close the right side cover until it locks.



Document Bag/Tool Kit

The document bag and tool kit are held by the rubber band in the document compartment behind the right side cover.

Opening the seat. ➔ P.55

Maintenance

Please read “Importance of Maintenance” and “Maintenance Fundamentals” carefully before attempting any maintenance. Refer to “Specifications” for service data.

Importance of Maintenance	P. 58	Adjusting the Headlight Aim	P. 96
Maintenance Schedule	P. 59	Other Replacement	P. 97
Maintenance Fundamentals	P. 62	Replacing the Honda SMART Key Battery	P. 97
Tool	P. 74		
Removing & Installing Body Components ..	P. 75		
Battery	P. 75		
Centre Cover	P. 77		
Spark Plug	P. 78		
Engine Oil	P. 80		
Brakes	P. 83		
Drive Chain	P. 89		
Throttle	P. 94		
Crankcase Breather	P. 95		
Other Adjustments	P. 96		

Importance of Maintenance

Importance of Maintenance

Keeping your motorcycle well-maintained is absolutely essential to your safety and to protect your investment, obtain maximum performance, avoid breakdowns, and reduce air pollution. Maintenance is the owner's responsibility. Be sure to inspect your motorcycle before each ride, and perform the periodic checks specified in the Maintenance Schedule. ➤ P. 59

⚠ WARNING

Improperly maintaining your 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

Always read the maintenance instructions before you begin each task, and make sure that you have the tools, parts, and skills required. 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.

Follow these guidelines when performing maintenance.

- Stop the engine and turn the ignition switch to the **O** (Off) position.
- Place your motorcycle on a firm, level surface using the centre stand or a maintenance stand to provide support.
- Allow the engine, muffler, brakes, and other high-temperature parts to cool before servicing as you can get burned.
- Run the engine only when instructed, and do so in a well-ventilated area.

Maintenance Schedule

The maintenance schedule specifies the maintenance requirements necessary to ensure safe, dependable performance, and proper emission control.

Maintenance work should be performed in accordance with Honda's standards and specifications by properly trained and equipped technicians. Your dealer meets all of these requirements. Keep an accurate record of maintenance to help ensure that your motorcycle is properly maintained. Make sure that whomever performs the maintenance completes this record.

All scheduled maintenance is considered a normal owner operating cost and will be charged to you by your dealer. Retain all receipts. If you sell the motorcycle, these receipts should be transferred with the motorcycle to the new owner.

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

Maintenance Schedule

Items	Pre-ride Check P. 62	Frequency *1								Annual Check	Regular Replace	Refer to page		
		× 1,000 km	1	6	12	18	24	30	36					
		× 1,000 mi	0.6	4	8	12	16	20	24					
Fuel Line				I	I	I	I	I	I	I	I			-
Fuel Level		I												53
Throttle Operation		I		I	I	I	I	I	I	I	I			94
Air Cleaner *2							R				R			73
Crankcase Breather *3				C	C	C	C	C	C	C				95
Spark Plug				I	R	I	R	I	R					78
Valve Clearance				I	I	I	I	I	I	I				-
Engine Oil		I		R	R	R	R	R	R	R	R	R		80
Engine Oil Strainer Screen						C		C		C				-
Engine Oil Centrifugal Filter						C		C		C				-
Engine Idle Speed				I	I	I	I	I	I	I	I			-

Maintenance Level

 : Intermediate. We recommend service by your dealer, unless you have the necessary tools and are mechanically skilled.
Procedures are provided in an official Honda Shop Manual.

 : Technical. In the interest of safety, have your motorcycle serviced by your dealer.

Maintenance Legend

I : Inspect (clean, adjust, lubricate, or replace, if necessary)

R : Replace

C : Clean

L : Lubricate

Maintenance Schedule

Items	Pre-ride Check ☒ P. 62	Frequency *1								Annual Check	Regular Replace	Refer to page
		× 1,000 km	1	6	12	18	24	30	36			
		× 1,000 mi	0.6	4	8	12	16	20	24			
Drive Chain	☒	Every 500 km (300 mi): ☒ ☒										89
Brake Fluid *4	☒		☒	☒	☒	☒	☒	☒	☒	☒	2 Years	83
Brake Shoes/Pads Wear	☒		☒	☒	☒	☒	☒	☒	☒	☒		87, 84
Brake System	☒		☒	☒	☒	☒	☒	☒	☒	☒		62
Brakelight Switch			☒	☒	☒	☒	☒	☒	☒	☒		88
Headlight Aim			☒	☒	☒	☒	☒	☒	☒	☒		96
Lights/Horn	☒											-
Clutch System	☒		☒	☒	☒	☒	☒	☒	☒	☒		-
Suspension	☒		☒	☒	☒	☒	☒	☒	☒	☒		-
Nuts, Bolts, Fasteners	☒			☒	☒	☒	☒	☒	☒	☒		-
Wheels/Tyres	☒		☒	☒	☒	☒	☒	☒	☒	☒		70
Steering Head Bearings	☒			☒	☒	☒	☒	☒	☒	☒		-

Notes:

*1 : At higher odometer reading, 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 : Replacement requires mechanical skill.

Maintenance Fundamentals

Pre-ride Inspection

To ensure safety, it is your responsibility to perform a pre-ride inspection and make sure that any problem you find is corrected. A pre-ride inspection is a must, not only for safety, but because having a breakdown, or even a flat tyre, can be a major inconvenience.

Check the following items before you get on your motorcycle:

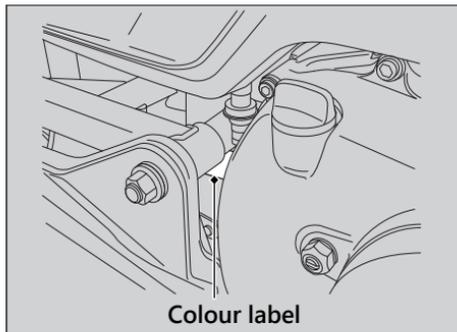
- Fuel level - Fill fuel tank when necessary.  P. 53
- Throttle - Check for smooth opening and full closing in all steering positions.  P. 94
- Engine oil level - Add engine oil if necessary. Check for leaks.  P. 80
- Drive chain - Check condition and slack, adjust and lubricate if necessary.  P. 89

- Brakes - Check operation;
Front: check brake fluid level and pads wear.  P. 83,  P. 84
Rear: check shoes wear and freeplay, adjust if necessary.  P. 87,  P. 85
- Lights and horn - Check that lights, indicators and horn function properly.
- Wheels and tyres - Check condition, air pressure and adjust if necessary.  P. 70

Maintenance Fundamentals

Replacing Parts

Always use Honda Genuine Parts or their equivalents to ensure reliability and safety. When ordering coloured components, specify the model name, colour, and code mentioned on the colour label. The colour label is attached to the frame near the brakelight switch.



⚠ WARNING

Installing non-Honda parts may make your motorcycle unsafe and cause a crash in which you can be seriously hurt or killed.

Always use Honda Genuine Parts or equivalents that have been designed and approved for your motorcycle.

Maintenance Fundamentals

Battery

Your motorcycle has a maintenance-free type battery. You do not have to check the battery electrolyte level or add distilled water. Clean the battery terminals if they become dirty or corroded.

Do not remove the battery cap seals. There is no need to remove the cap when charging.

NOTICE

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



This symbol on the battery means that this product must not be treated as household waste.

NOTICE

An improperly disposed of battery can be harmful to the environment and human health. Always confirm local regulations for proper battery disposal instruction.

Maintenance Fundamentals

What to do in an emergency

If any of the following occur, immediately see your doctor.

- Electrolyte splashes into your eyes:
 - ▶ Wash your eyes repeatedly with cool water for at least 15 minutes. Using water under pressure can damage your eyes.
- Electrolyte splashes onto your skin:
 - ▶ Remove affected clothing and wash your skin thoroughly using water.
- Electrolyte splashes into your mouth:
 - ▶ Rinse mouth thoroughly with water, and do not swallow.

⚠ 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.

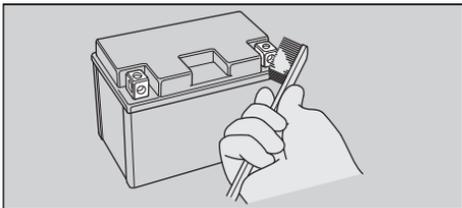
Wear protective clothing and a face shield, or have a skilled mechanic do the battery servicing.

Cleaning the Battery Terminals

1. Remove the battery.  P. 75
2. If the terminals are starting to corrode and are coated with a white substance, wash with warm water and wipe clean.

Maintenance Fundamentals

- If the terminals are heavily corroded, clean and polish the terminals with a wire brush or sandpaper. Wear safety glasses.



- After cleaning, reinstall the battery.

The battery has a limited life span. Consult your dealer about when you should replace the battery. Always replace the battery with another maintenance-free battery of the same type.

NOTICE

Installing non-Honda electrical accessories can overload the electrical system, discharging the battery and possibly damaging the system.

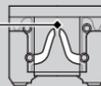
Fuses

Fuses protect the electrical circuits on your motorcycle. If something electrical on your motorcycle stops working, check for and replace any blown fuses. ➤ P. 117

Inspecting and Replacing Fuses

Turn the ignition switch to the **O** (Off) position to remove and inspect fuses. If a fuse is blown, replace with a fuse of the same rating. For fuse ratings, see "Specifications." ➤ P. 135

Blown fuse



NOTICE

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

If a fuse fails repeatedly, you likely have an electrical fault. Have your motorcycle inspected by your dealer.

Engine Oil

Engine oil consumption varies and oil quality deteriorates according to riding conditions and time elapsed.

Check the engine oil level regularly, and add the recommended engine oil if necessary. Dirty oil or old oil should be changed as soon as possible.

Selecting the Engine Oil

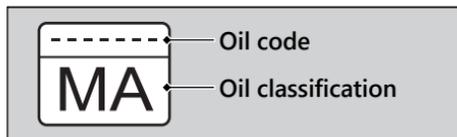
For recommended engine oil, see "Specifications." P. 134

If you use non-Honda engine oil, check the label to make sure that the oil satisfies all of the following standards:

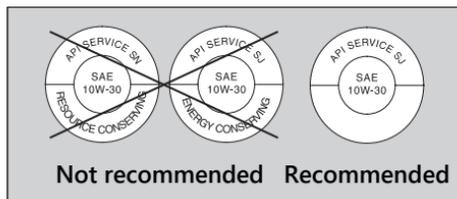
- JASO T 903 standard^{*1}: MA
- SAE standard^{*2}: 10W-30
- API classification^{*3}: SG or higher

Maintenance Fundamentals

- ^{*1}. The JASO T 903 standard is an index for engine oils for 4-stroke motorcycle engines. There are two classes: MA and MB. For example, the following label shows the MA classification.



- ^{*2}. The SAE standard grades oils by their viscosity.
- ^{*3}. The API classification specifies the quality and performance rating of engine oils. Use SG or higher oils, excluding oils marked as "Energy Conserving" or "Resource Conserving" on the circular API service symbol.



Maintenance Fundamentals

Brake Fluid

Do not add or replace brake fluid, except in an emergency. Use only fresh brake fluid from a sealed container. If you do add fluid, have the brake system serviced by your dealer as soon as possible.

NOTICE

Brake fluid can damage plastic and painted surfaces. Wipe up spills immediately and wash thoroughly.

Recommended brake fluid:

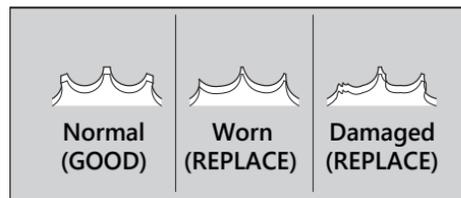
Honda DOT 3 or DOT 4 Brake Fluid or equivalent

Drive Chain

The drive chain must be inspected and lubricated regularly. Inspect the chain more frequently if you often ride on bad roads, ride at high speed, or ride with repeated fast acceleration.  P. 89

If the chain does not move smoothly, makes strange noises, has damaged rollers, has loose pins, or kinks, have the chain inspected by your dealer.

Also inspect the drive sprocket and driven sprocket. If either has worn or damaged teeth, have the sprocket replaced by your dealer.



NOTICE

Use of a new chain with worn sprockets will cause rapid chain wear.

Maintenance Fundamentals

Cleaning and Lubricating

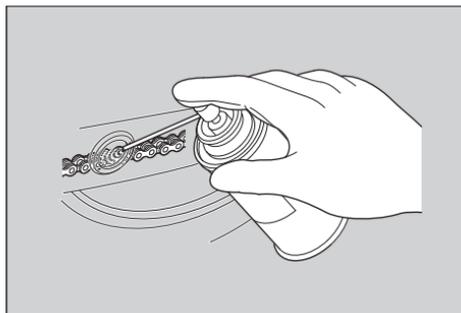
After inspecting the slack, clean the chain and sprockets while rotating the rear wheel. Use a dry cloth with high flash-point solvent. Use a soft brush if the chain is dirty.

After cleaning, wipe dry and lubricate with the recommended lubricant.

Recommended lubricant:

Drive chain lubricant

If not available, use SAE 80 or 90 gear oil.



Never use petrol or low flash point solvents for cleaning the drive chain.

A fire or explosion could result.

Avoid getting lubricant on the brakes or tyres.

Avoid applying excess chain lubricant to prevent spray onto your clothes and the motorcycle.

Maintenance Fundamentals

Crankcase Breather

Service more frequently when riding in rain, at full throttle, or after the motorcycle is washed or overturned. Service if the deposit level can be seen in the transparent section of the drain tube.

If the drain tube overflows, the air filter may become contaminated with engine oil causing poor engine performance. ■ P. 95

Tyres (Inspecting/Replacing)

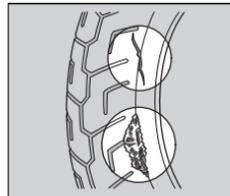
■ Checking the Air Pressure

Visually inspect your tyres and use an air pressure gauge to measure the air pressure at least once a month or any time you think the tyres look low. Always check air pressure when your tyres are cold.

■ Inspecting for Damage

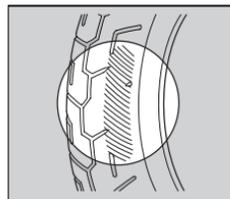
Inspect the tyres for cuts, slits, or cracks that exposes fabric or cords, or nails or other foreign objects embedded in the side of the tyre or the tread.

Also inspect for any unusual bumps or bulges in the side walls of the tyres.



■ Inspecting for Abnormal Wear

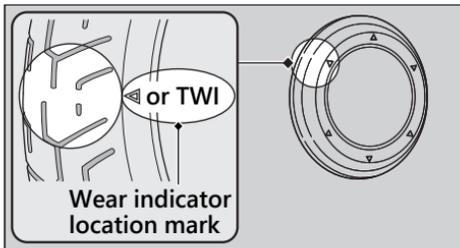
Inspect the tyres for signs of abnormal wear on the contact surface.



Maintenance Fundamentals

Inspecting Tread Depth

Inspect the tread wear indicators. If they become visible, replace the tyres immediately.



⚠ WARNING

Riding on 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.

Maintenance

Maintenance Fundamentals

Have your tyres replaced by your dealer. For recommended tyres and air pressure, see "Specifications." ■ P. 134
Follow these guidelines whenever you replace tyres.

- Use the recommended tyres or equivalents of the same size, construction, speed rating, and load range.
- 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.

WARNING

Installing improper tyres on your motorcycle can adversely affect handling and stability, and 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.

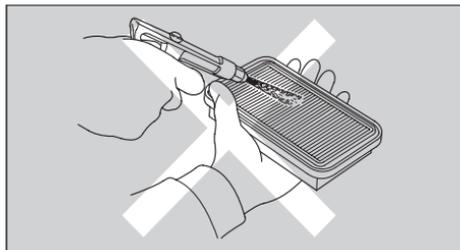
Maintenance Fundamentals

Air Cleaner

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. Should be serviced by your dealer.



Tool

The tool kit is located behind the right side cover.  P. 56

You can perform some roadside repairs, minor adjustments and parts replacement with the provided tools.

Maintenance

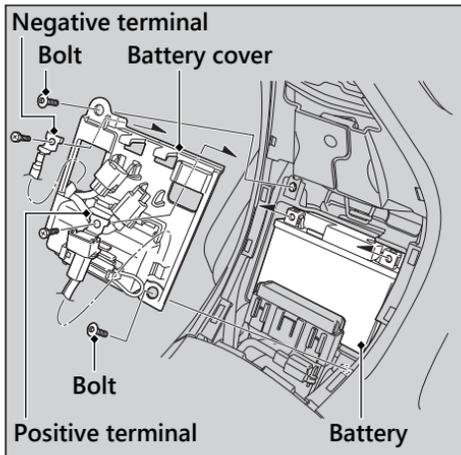
- Fuse puller
- Standard/Phillips screwdriver
- Screwdriver handle
- 5 mm Hex wrench

ED, E type

- 10 × 14 mm Open end wrench

Removing & Installing Body Components

Battery



Removal

Make sure the ignition switch is in the \bigcirc (Off) position.

1. Remove the centre cover. ➤ P. 77
2. Remove the couplers from the battery cover.
3. Move the battery cover upward by removing the bolts.
4. Disconnect the negative \ominus terminal from the battery.
5. Disconnect the positive \oplus terminal from the battery.
6. Remove the battery cover.
7. Remove the battery taking care not to drop the terminal nuts.

Removing & Installing Body Components ► Battery

Installation

Install the parts in the reverse order of removal. Always connect the positive ⊕ terminal first. Make sure that bolts and nuts are tight.

Make sure the clock information is correct after the battery is reconnected. ➤ P. 24
The anti-theft alarm system will be deactivated if the battery is disconnected. The system will remain off when the battery is reconnected.

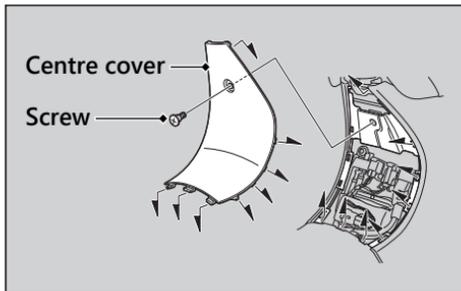
To activate the system, turn the ignition switch to the I (On) position once.

To activate the system, see “Setting the Anti-theft Alarm System.” ➤ P. 40

For proper handling of the battery, see “Maintenance Fundamentals.” ➤ P. 64
“Battery Goes Dead.” ➤ P. 115

Removing & Installing Body Components ► Centre Cover

Centre Cover



Removal

Remove the centre cover by removing the screw.

Installation

1. Open the left and right body covers slightly, then install the centre cover while aligning each tab and slit.
2. Install and tighten the screw.

Spark Plug

Checking Spark Plug

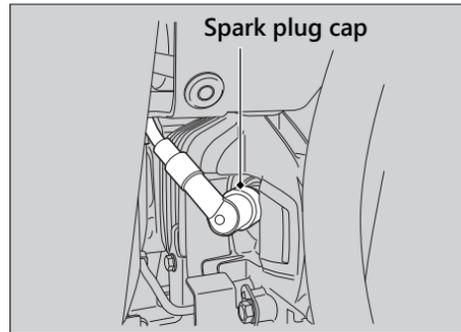
For the recommended spark plug, see "Specifications." ■ P. 134

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

NOTICE

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

1. Disconnect the spark plug cap from the spark plug.
2. Clean any dirt from around the spark plug base.
3. Remove the spark plug using a suitable spark plug wrench.

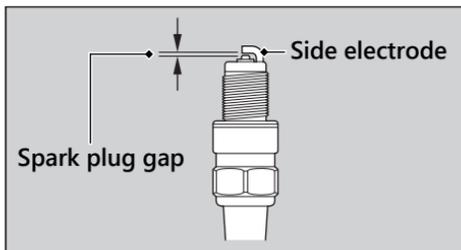


4. Inspect the electrodes and centre porcelain for deposits, erosion or carbon fouling.
 - ▶ If the erosion or deposit is heavy, replace the plug.
 - ▶ Clean a carbon or wet-fouled plug with a plug cleaner, otherwise use a wire brush.

5. Check the spark plug gap using a wire-type feeler gauge.
 - ▶ If adjustment is necessary, bend the side electrode carefully.

The gap should be:

0.8 - 0.9 mm (0.03 - 0.04 in)



6. Make sure the plug washer is in good condition.
7. Install the spark plug. With the plug washer attached, thread the spark plug in by hand to prevent cross-threading.

Spark Plug ► Checking Spark Plug

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

NOTICE

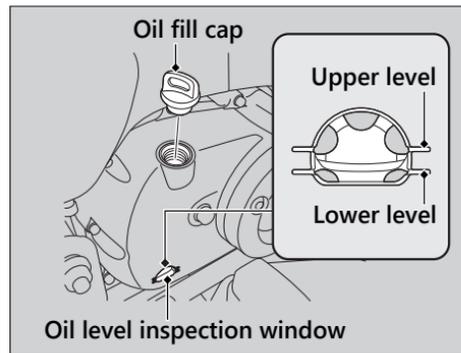
An improperly tightened spark plug can damage the engine. If a plug is too loose, a piston may be damaged. If a plug is too tight, the threads may be damaged.

9. Install the parts in the reverse order of removal.
 - ▶ When reinstalling the spark plug cap, take care to avoid pinching any cables or wires.

Engine Oil

Checking the Engine Oil

1. If the engine is cold, idle the engine for 3 to 5 minutes.
2. Turn the ignition switch to the **O** (Off) position and wait for 2 to 3 minutes.
3. Place your motorcycle on its centre stand on a firm, level surface.
4. Check that the oil level is between the upper level and lower level marks on the oil level inspection window.



Adding Engine Oil

If the engine oil is below or near the lower level mark, add the recommended engine oil.

➤ P. 67, ➤ P. 134

1. Remove the oil fill cap. Add the recommended oil until it reaches the upper level mark.
 - ▶ Place your motorcycle on its centre stand on a firm, level surface when checking the oil level.
 - ▶ Do not overfill above the upper level mark.
 - ▶ Make sure no foreign objects enter the oil filler opening.
 - ▶ Wipe up any spills immediately.

2. Securely reinstall the oil fill cap.

NOTICE

Overfilling with oil or operating with insufficient oil can cause damage to your engine. Do not mix different brands and grades of oil. They may affect lubrication and clutch operation.

For the recommended oil and oil selection guidelines, see “Maintenance Fundamentals.”

➤ P. 67

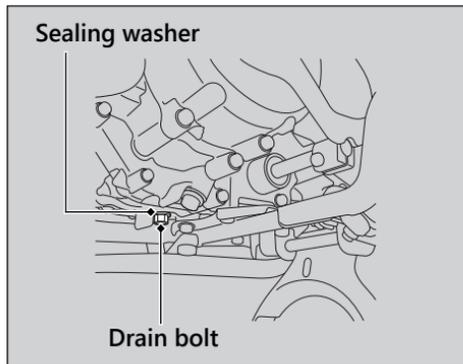
Changing Engine Oil

Changing the oil requires special tools. We recommend that you have your motorcycle serviced by your dealer.

1. If the engine is cold, idle the engine for 3 to 5 minutes.
2. Turn the ignition switch to the  (Off) position and wait for 2 to 3 minutes.

Engine Oil ► Changing Engine Oil

3. Place your motorcycle on its centre stand on a firm, level surface.
4. Place a drain pan under the drain bolt.
5. Remove the oil fill cap, drain bolt and sealing washer to drain the oil.
 - Discard the oil at an approved recycling centre.



6. Install a new sealing washer onto the drain bolt. Tighten the drain bolt.

Torque: 24 N·m (2.4 kgf·m, 18 lbf·ft)

7. Fill the crankcase with the recommended oil (► P. 67, ► P. 134) and install the oil fill cap.

Required oil

When changing oil:

0.8 L (0.8 US qt, 0.7 Imp qt)

8. Check the oil level. ► P. 80
9. Check that there are no oil leaks.

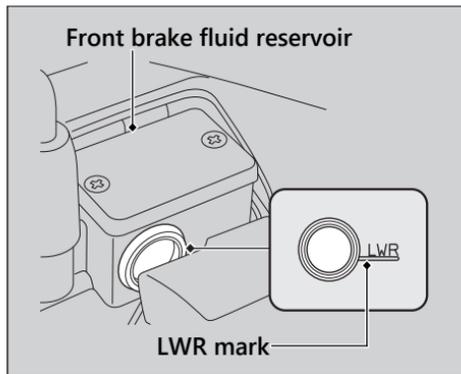
Brakes

Checking the Front Brake Fluid

1. Place your motorcycle in an upright position on a firm, level surface.
2. Check that the brake fluid reservoir is horizontal and that the fluid level is above the LWR mark.

If the brake fluid level in the reservoir is below the LWR mark or the brake lever freeplay becomes excessive, inspect the brake pads for wear.

If the brake pads are not worn, you most likely have a leak. Have your motorcycle inspected by your dealer.



Brakes ► Inspecting the Front Brake Pads

Inspecting the Front Brake Pads

Maintenance

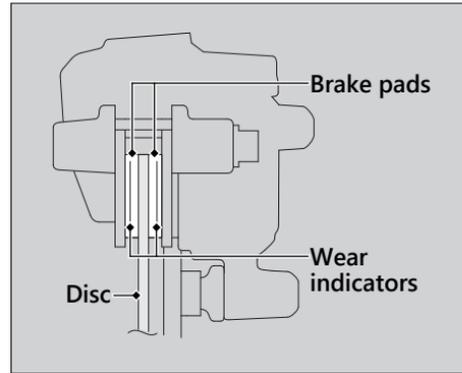
Check the condition of the brake pad wear indicators.

The pads need to be replaced if a brake pad is worn to the indicator.

Inspect the brake pads from below the brake caliper.

If necessary have the pads replaced by your dealer.

Always replace both left and right brake pads at the same time.

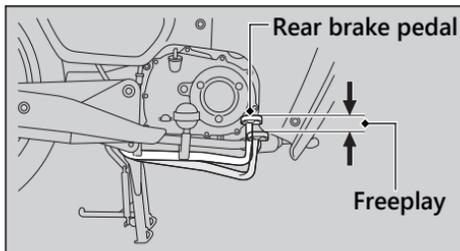


Inspecting the Rear Brake Pedal Freeplay

1. Place your motorcycle on its centre stand on a firm, level surface.
2. Measure the distance the rear brake pedal moves before the brake takes hold.

Freeplay at the tip of the brake pedal:

20 - 30 mm (0.8 - 1.2 in)

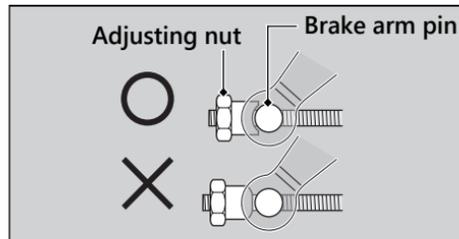


Make sure the brake rod, brake arm, spring and fastener are in good condition.

Brakes ► Inspecting the Rear Brake Pedal Freeplay

Adjusting the Rear Brake Pedal Freeplay

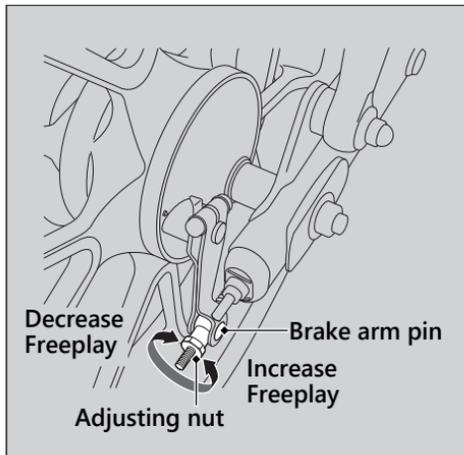
Make sure the cut-out on the adjusting nut is seated on the brake arm pin when adjusting the freeplay.



If proper adjustment cannot be obtained by this method, see your dealer.

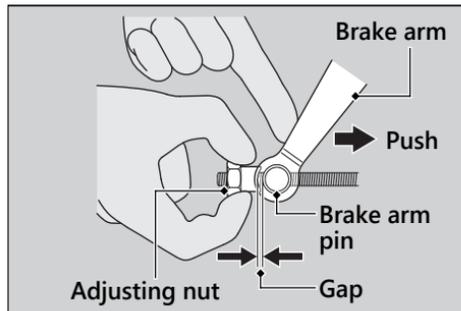
Brakes ► Adjusting the Rear Brake Pedal Freeplay

1. Adjust by turning the rear brake adjusting nut a half-turn at a time.



2. Apply the brake several times and check for free wheel rotation after the brake pedal is released.

3. Push the brake arm to confirm that there is a gap between the rear brake adjusting nut and brake arm pin.



After adjustment, confirm the freeplay of the brake pedal.

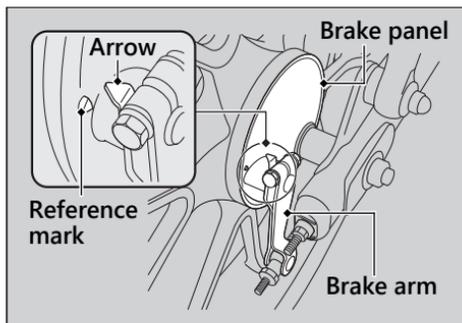
Make sure the brake rod, brake arm, spring and fastener are in good condition.

NOTICE

Do not turn the adjuster beyond its natural limits.

Inspecting the Rear Brake Shoe Wear

The rear brake is equipped with a brake wear indicator.



Brakes ► Inspecting the Rear Brake Shoe Wear

When the brake is applied, an arrow attached to the brake arm moves toward a reference mark on the brake panel. If the arrow aligns with the reference mark on full application of the brake, the brake shoes must be replaced. See your dealer for this service.

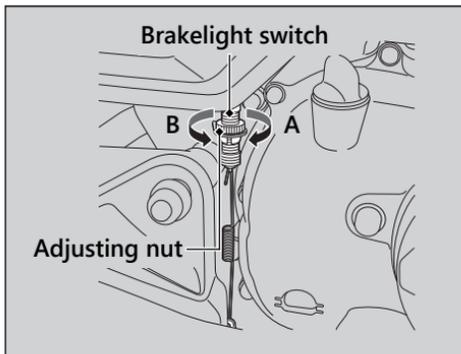
When the brake service is necessary, see your dealer. Use only Honda Genuine Parts or its equivalent.

Brakes ► Adjusting the Brakelight Switch

Adjusting the Brakelight Switch

Check the operation of the brakelight switch. Hold the brakelight switch and turn the adjusting nut in the direction A if the switch operates too late, or turn the nut in the direction B if the switch operates too soon.

Maintenance



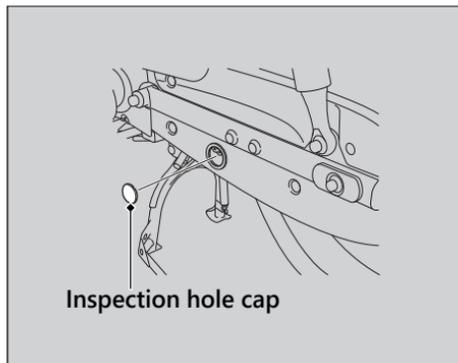
Drive Chain

Inspecting the Drive Chain Slack

Check the drive chain slack at several points along the chain. If the slack is not constant at all points, some links may be kinked and binding.

Have the chain inspected by your dealer.

1. Shift the transmission to Neutral. Stop the engine.
2. Place your motorcycle on its centre stand on a firm, level surface.



3. Remove the inspection hole cap.

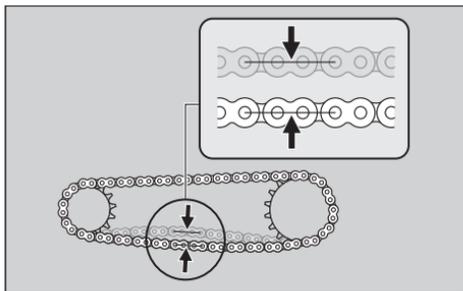
Drive Chain ► Inspecting the Drive Chain Slack

4. Move the drive chain up and down with your finger.

Drive chain slack:

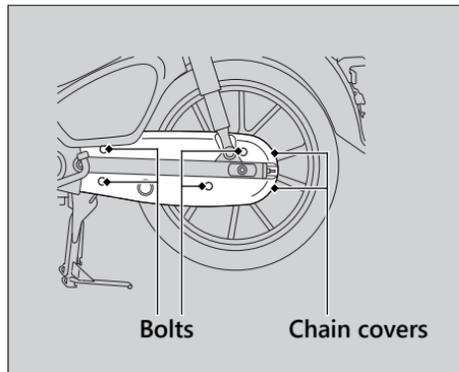
25 - 35 mm (1.0 - 1.4 in)

- Do not ride your motorcycle if the slack exceeds 50 mm (2.0 in).



5. Rotate the rear wheel and check that the chain moves smoothly.

6. Remove the chain covers by removing the bolts.



7. Inspect the sprockets. ► P. 68
8. Clean and lubricate the drive chain. ► P. 69
9. Install the parts in the reverse order of removal.
10. Tighten the bolts.

Torque: 7 N·m (0.7 kgf·m, 5.2 lbf·ft)

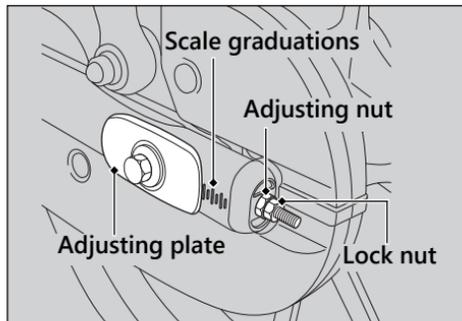
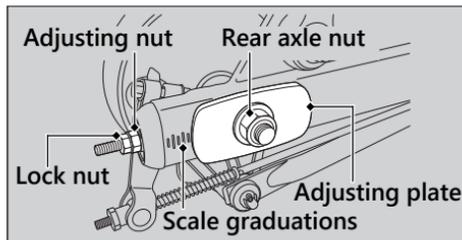
Drive Chain ► Adjusting the Drive Chain Slack

Adjusting the Drive Chain Slack

Adjusting the chain requires special tools. Have the drive chain slack adjusted by your dealer.

When adjusting the drive chain slack, be careful not to damage the wheel speed sensor and pulser ring.

1. Shift the transmission to Neutral. Stop the engine.
2. Place your motorcycle on its centre stand on a firm, level surface.
3. Remove the inspection hole cap.  P. 89
4. Loosen the rear axle nut.
5. Loosen the lock nuts on both sides of the chain adjusting plates.



Drive Chain ► Adjusting the Drive Chain Slack

6. Turn both adjusting nuts an equal number of turns until the correct drive chain slack is obtained. Turn the adjusting nuts clockwise to tighten the chain. Turn the adjusting nuts counterclockwise to provide more slack.
Adjust the slack at a point midway between the drive sprocket and the driven sprocket.
Check the drive chain slack. ➤ P. 89

7. Check rear axle alignment by making sure the end of the chain adjusting plate aligns with the scale graduations on both sides of the swingarm.
Both marks should correspond. If the axle is misaligned, turn the right or left adjusting nut until the marks are aligned and recheck chain slack.
8. Tighten the rear axle nut.

Torque: 59 N·m (6.0 kgf·m, 44 lbf·ft)

9. Hold the adjusting nuts and tighten the lock nuts.
10. Recheck drive chain slack.

Drive Chain ► Adjusting the Drive Chain Slack

11. Rear brake pedal freeplay is affected when repositioning the rear wheel to adjust drive chain slack. Check rear brake pedal freeplay and adjust as necessary.

▶ P. 85

12. Reinstall the inspection hole cap.

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

Checking the Drive Chain Wear

If the drive chain slack is excessive when the rear axle is moved to the furthest limit of adjustment, the drive chain is worn and must be replaced.

Chain:

RK420EL or DID420AD2

If necessary have the drive chain replaced by your dealer.

Throttle

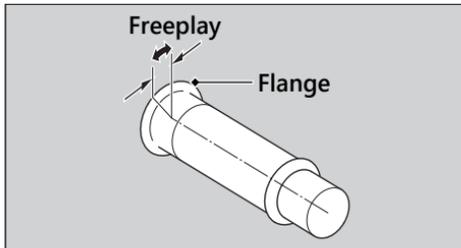
Checking the Throttle

Maintenance

With the engine off, check that the throttle rotates smoothly from fully closed to fully open in all steering positions and throttle freeplay is correct. If the throttle does not move smoothly, close automatically, or if the cable is damaged, have the motorcycle inspected by your dealer.

Freeplay at the throttle grip flange:

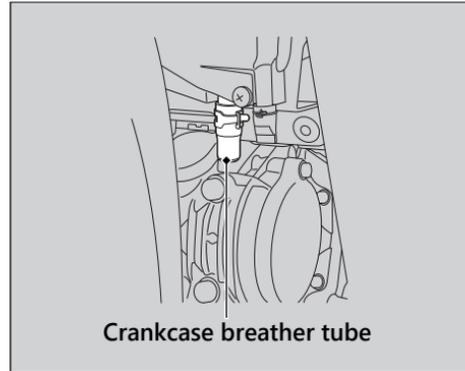
2 - 6 mm (0.1 - 0.2 in)



Crankcase Breather

Cleaning the Crankcase Breather

1. Place a suitable container under the crankcase breather tube.
2. Remove the crankcase breather tube and drain deposits.
3. Reinstall the crankcase breather tube.



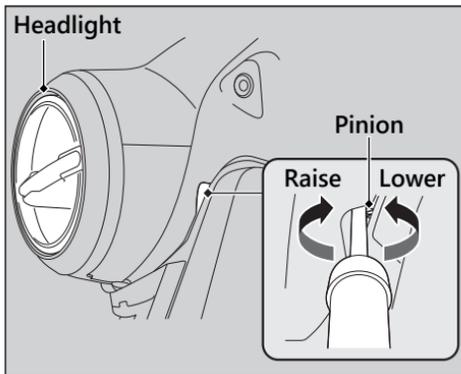
Other Adjustments

Adjusting the Headlight Aim

You can adjust vertical aim of the headlight for proper alignment. Turn the pinion in or out as necessary using provided Phillips screwdriver (P. 74).

Obey local laws and regulations.

Maintenance



Other Replacement

Replacing the Honda SMART Key Battery

If the Honda SMART Key indicator flashes 5 times when the ignition switch is turned to the **I** (On) position, or the operating range becomes unstable, replace the battery as soon as possible.

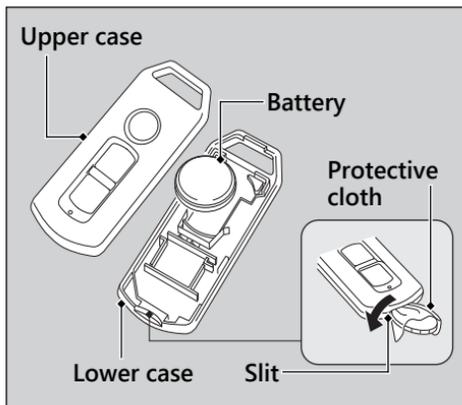
We recommend to see your dealer for this service.

Battery type: CR2032

1. Remove the upper case by inserting a coin or a flat head screwdriver covered with a protective cloth into the slit.
 - ▶ Wrap a coin or a screwdriver with a protective cloth to prevent scratching the Honda SMART Key.
 - ▶ Do not touch the circuit or terminal. This may cause problems.
 - ▶ Be careful to avoid scratching the waterproof covering or allowing dust to enter.
 - ▶ Do not forcibly dismantle the Honda SMART Key body.

Other Replacement ► Replacing the Honda SMART Key Battery

2. Replace the old battery with a new battery with the negative \ominus side facing up.
3. Snap the two halves of the remote transmitter back together.
 - Make sure that upper and lower cases are set in the right position.

**⚠ WARNING****Chemical Burn Hazard: do not swallow battery.**

If swallowed, the battery can cause severe internal burns and even death.

- Keep battery away from children and battery compartment securely closed.
- If the battery compartment does not close securely, stop using the product and keep it away from children.
- Immediately seek medical attention if a child may have swallowed battery.

Troubleshooting

Engine Will Not Start	P. 100	Battery Goes Dead.....	P. 115
Warning Indicators On or Flashing	P. 101	Burned-out Light Bulb	P. 115
PGM-FI (Programmed Fuel Injection)		Blown Fuse.....	P. 117
Malfunction Indicator Lamp (MIL).....	P. 101	Unstable Engine Operation Occurs	
ABS (Anti-lock Brake System) Indicator	P. 102	Intermittently	P. 118
Honda SMART Key Indicator.....	P. 103		
Other Warning Indications	P. 104		
Fuel Gauge Failure Indication.....	P. 104		
When the Honda SMART Key System Does Not Operate Properly	P. 105		
Unlock the Ignition Switch in an Emergency	P. 107		
Tyre Puncture	P. 110		
Electrical Trouble	P. 115		

Engine Will Not Start

Starter Motor Operates But Engine Does Not Start

Check the following items:

- Check the correct engine starting sequence. ➤ P. 49
- Check that there is petrol in the fuel tank.
- Check if the PGM-FI malfunction indicator lamp (MIL) is on.
 - ▶ If the indicator lamp is on, contact your dealer as soon as possible.

Starter Motor Does Not Operate

Check the following items:

- Check the correct engine starting sequence. ➤ P. 49
- Check for a blown fuse. ➤ P. 117
- Check for a loose battery connection (➤ P. 75) or battery terminal corrosion (➤ P. 64).
- Check the condition of the battery.
 - P. 115

If the problem continues, have your motorcycle inspected by your dealer.

Warning Indicators On or Flashing

PGM-FI (Programmed Fuel Injection) Malfunction Indicator Lamp (MIL)

If the indicator comes on while riding, you may have a serious problem with the PGM-FI system. Reduce speed and have your motorcycle inspected by your dealer as soon as possible.

Warning Indicators On or Flashing ► ABS (Anti-lock Brake System) Indicator

ABS (Anti-lock Brake System) Indicator

If the indicator operates in one of the following ways, you may have a serious problem with the ABS. Reduce your speed and have your motorcycle inspected by your dealer as soon as possible.

- Indicator comes on or starts flashing while riding.
- Indicator does not come on when the ignition switch is in the **I** (On) position.
- Indicator does not go off at speeds above 10 km/h (6 mph).

If the ABS indicator stays on, your brakes will continue to work as a conventional system, but without the anti-locking function.

The ABS indicator may flash if you turn the rear wheel while the rear wheel is lifted off the ground. In this case, turn the ignition switch to the **O** (Off) position, and then to the **I** (On) position again. The ABS indicator will go off after your speed reaches 30 km/h (19 mph).

Warning Indicators On or Flashing ► Honda SMART Key Indicator

Honda SMART Key Indicator

When the Honda SMART Key indicator flashes 5 times

Replacing the Honda SMART Key Battery ▣ P. 97

When the Honda SMART Key indicator is flashing while the ignition switch is in the (On) position

The Honda SMART Key indicator flashes when communication between your motorcycle and Honda SMART Key stops after turning the ignition switch to the (On) position.

It is probably caused by the following:

- Strong radio waves or noise are affecting the system
- You lose the Honda SMART Key while riding

However, this does not affect the operation of your motorcycle until the ignition switch is locked.

If you turn the ignition switch to the ○ (Off) or (Lock) position while the Honda SMART Key indicator is flashing, the ignition switch ring, turn signal lights, Honda SMART Key indicator will come on, and the buzzer rings for about 20 seconds, automatically go off, and then the ignition switch is locked.

Also, to stop this flashing and ringing, press and hold the ignition switch for more than 2 seconds. After the flashing and ringing stop, the ignition switch is locked.

If you do not have the Honda SMART Key, the ignition switch can be unlocked in another way. ▣ P. 107

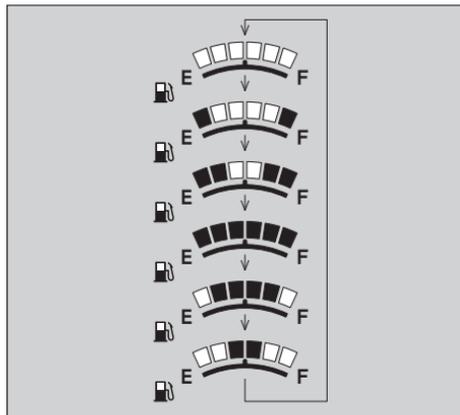
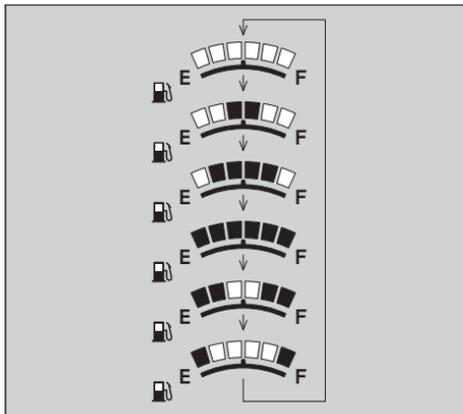
Other Warning Indications

Fuel Gauge Failure Indication

If the fuel system has an error, the fuel gauge indicators will be displayed as shown in the illustration.

If this occurs, see your dealer as soon as possible.

Troubleshooting



When the Honda SMART Key System Does Not Operate Properly

When the Honda SMART Key system does not work properly, perform the following.

- Check that the Honda SMART Key system is activated.

Lightly push the ON/OFF button on the Honda SMART Key.

If the LED of the Honda SMART Key is red, switch the Honda SMART Key system to activation. ▶ P. 32

If the LED of the Honda SMART Key does not respond, replace the battery of the Honda SMART Key.

- Check that there is no communication failure in the Honda SMART Key system. The Honda SMART Key system uses low-intensity radio waves. The Honda SMART Key system may not work properly in the following environments:

- ▶ When there are facilities nearby that generate strong radio waves or noise such as TV towers, power stations, radio stations, or airports.
- ▶ When you carry the Honda SMART Key with a laptop or wireless communication device such as a radio or mobile phone.
- ▶ When the Honda SMART Key comes into contact with or is covered by metal objects.

When the Honda SMART Key System Does Not Operate Properly

- Check that a registered Honda SMART Key is used.
Use a registered Honda SMART Key.
The Honda SMART Key system cannot be activated without a registered Honda SMART Key.

- Make sure that you do not use a broken Honda SMART Key.
If you use a broken Honda SMART Key, the Honda SMART Key system cannot be activated. Bring the ID tag to your dealer.

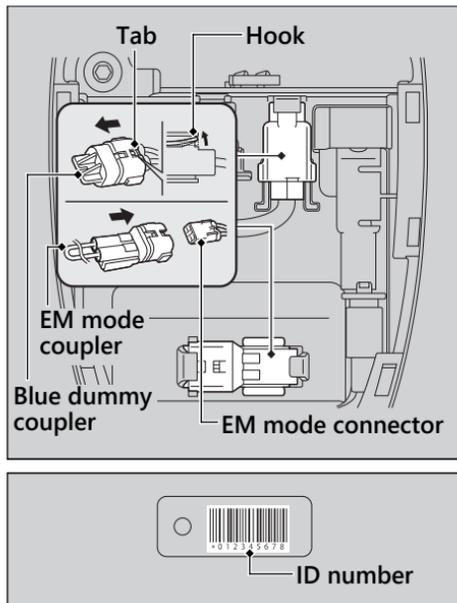
- Check the battery condition and battery lead in your motorcycle.
Check the battery and battery terminals. If the battery is weak, contact your dealer.

If the Honda SMART Key system cannot be activated due to other causes, contact your dealer.

Unlock the Ignition Switch in an Emergency

Set up to ID number input mode

1. Remove the centre cover.  P. 77
2. Pull out the EM mode connector.
3. Remove the blue dummy coupler by releasing the tab of the EM mode connector while lifting the hook of the blue dummy coupler.
4. Check the ID number on the ID tag.
5. Connect the EM mode coupler on the battery cover to the EM mode connector.



Troubleshooting

Unlock the Ignition Switch in an Emergency

ID number input

You can input your ID number by pressing the ignition switch when the ignition switch is  (Off) or  (Lock) position. Input the ID number on the ID tag in order from the left in turn by pressing the ignition switch.

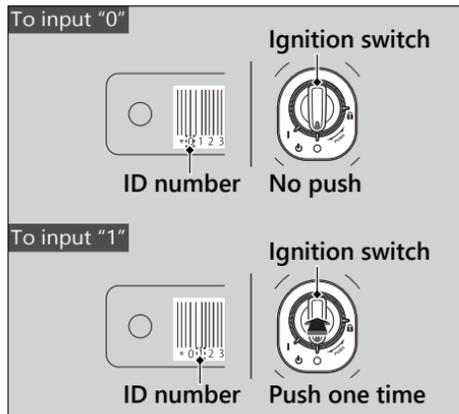
The ID number is authenticated according to the number of times the ignition switch is pushed.

Push the ignition switch the desired number of times within 5 seconds when the ignition switch ring comes on. After 5 seconds, the ignition switch ring goes off and comes on again. This means that the inputted number is fixed, and you can input the next number.

- ▶ If the ignition switch ring does not come on in blue, the battery may be low. Contact your dealer.

Example:

- To input "0", wait for 5 seconds without pushing the ignition switch when the ignition switch ring comes on.
- To input "1", push the ignition switch once within 5 seconds when the ignition switch ring comes on.



ID number input success

After the last ID number is inputted, through, the ignition switch ring and Honda SMART Key Indicator will flash every 2 seconds until the EM mode coupler is removed. Be sure to remove the EM mode coupler and return the blue dummy coupler. Buzzer rings 2 times when the EM mode coupler was removed. The ignition switch is then unlocked.

Reinstall the parts in reverse order of removal and turn the ignition switch to the **I** (On) position within 6 minutes. You can start the engine.

To lock the ignition switch, turn the ignition switch to the **O** (Off), or **L** (Lock) position, and press and hold the ignition switch for 2 seconds. Buzzer rings 1 time. The ignition switch also locks automatically when the ignition switch has been in the **O** (Off), or **L** (Lock) position for about 6 minutes after the ID number is successfully inputted.

When the ignition switch is locked, the ignition switch ring goes off.

To unlock the ignition switch again, repeat the procedure for unlocking the ignition switch.

Unlock the Ignition Switch in an Emergency**ID number input failure**

After the last ID number is inputted, the ignition switch ring and Honda SMART Key Indicator will flash every second until the EM mode coupler is removed, and the ignition switch cannot be unlocked.

Pull out the EM mode coupler and reconnect it to the EM mode connector. Follow the procedure again.

➡ P. 107

ID number input cancel

Pull out the EM mode coupler from the EM mode connector.

Also, if you make a mistake while inputting the ID number, remove the EM mode coupler from the EM mode connector, connect it to the EM mode connector again, and then re-input the ID number from the beginning.

- Store the removed EM mode coupler on the battery cover at all times.

Tyre Puncture

Repairing a puncture or removing a wheel requires special tools and technical expertise. We recommend you have this type of service performed by your dealer. After an emergency repair, always have the tyre inspected/replaced by your dealer.

Emergency Repair Using a Tyre Repair Kit

If your tyre has a minor puncture, you can make an emergency repair using a tubeless tyre repair kit.

Follow the instructions provided with the emergency tyre repair kit.

Riding your motorcycle with a temporary tyre repair is very risky. Do not exceed 50 km/h (30 mph). Have the tyre replaced by your dealer as soon as possible.

⚠️WARNING

Riding your motorcycle with a temporary tyre repair can be risky. If the temporary repair fails, you can crash and be seriously injured or killed.

If you must ride with a temporary tyre repair, ride slowly and carefully and do not exceed 50 km/h (30 mph) until the tyre is replaced.

Removing Wheels

Follow these procedures if you need to remove a wheel in order to repair a puncture.

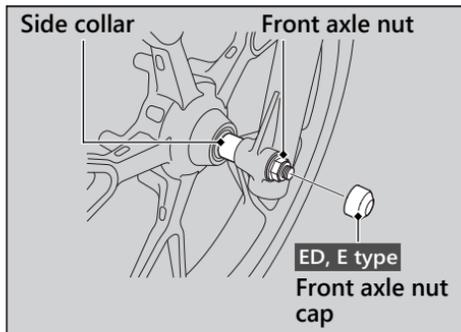
When removing and installing the wheel, be careful not to damage the wheel speed sensor and pulser ring.

Tyre Puncture ► Removing Wheels

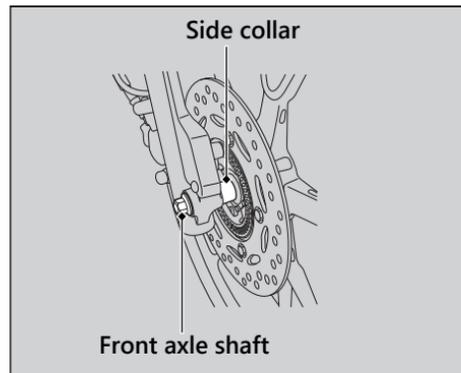
Front Wheel

Removal

1. Place your motorcycle on its centre stand on a firm, level surface.
2. Support your motorcycle securely and raise the front wheel off the ground using a maintenance stand or a hoist.
3. **ED, E type**
Remove the front axle nut cap.
4. Remove the front axle nut.



5. Remove the front axle shaft, front wheel and side collars.
 - Avoid getting grease, oil, or dirt on the disc or pad surfaces.
 - Do not pull the brake lever while the front wheel is removed.



Troubleshooting

Tyre Puncture ► Removing Wheels

Installation

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

NOTICE

When installing a wheel or caliper into original position, carefully fit the brake disc between the pads to avoid scratching them.

3. Tighten the front axle nut.

Torque: 59 N·m (6.0 kgf·m, 44 lbf·ft)

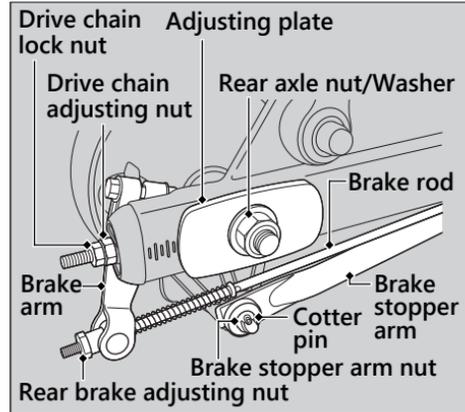
4. After installing the wheel, apply the brake lever several times, then check if the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.
5. **ED, E type**
Install the front axle nut cap.

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

Rear Wheel

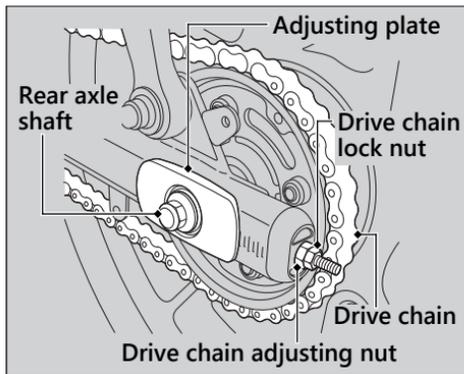
Removal

1. Support your motorcycle securely and raise the rear wheel off the ground using the centre stand or a hoist.
2. Remove the chain covers.  P. 90
3. Remove the rear brake adjusting nut.
4. Disconnect the brake rod from the brake arm.
5. Disconnect the brake stopper arm from the brake panel by removing the cotter pin, brake stopper arm nut, washer and rubber grommet.
6. Remove the rear axle nut and washer, then loosen the drive chain lock nuts and drive chain adjusting nuts.



7. Remove the rear axle shaft, chain adjusting plates and side collars, then remove the drive chain from the driven sprocket by pushing the rear wheel forward.
8. Remove the rear wheel from the swingarm.

Tyre Puncture ► Removing Wheels



Troubleshooting

Installation

1. To install the rear wheel, reverse the removal procedure.
Install the side collars into the left and right side wheel hub.
2. Tighten the rear axle nut.

Torque: 59 N·m (6.0 kgf·m, 44 lbf·ft)

3. Tighten the brake stopper arm nut.

Torque: 22 N·m (2.2 kgf·m, 16 lbf·ft)

4. Adjust the rear brake pedal freeplay. ► P. 85
5. Adjust the drive chain slack. ► P. 91
6. After installing the wheel, apply the brake pedal several times, then check if the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.

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

A used cotter pin may not effectively secure a fastener. Always replace a used cotter pin with a new one.

Electrical Trouble

Battery Goes Dead

Charge the battery using a motorcycle battery charger.

Remove the battery from the motorcycle before charging.

Do not use an automobile-type battery charger, as these can overheat a motorcycle battery and cause permanent damage. If the battery does not recover after recharging, contact your dealer.

NOTICE

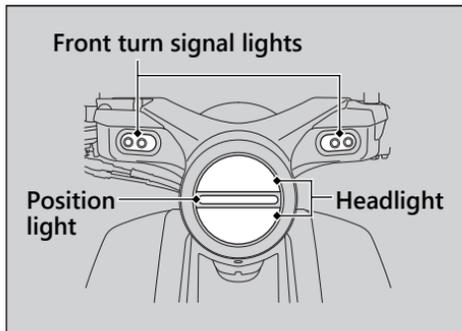
Jump starting using an automobile battery can damage your motorcycle's electrical system and is not recommended.

Burned-out Light Bulb

All light bulbs on the motorcycle are LEDs. If there is an LED which is not turned on, see your dealer for servicing.

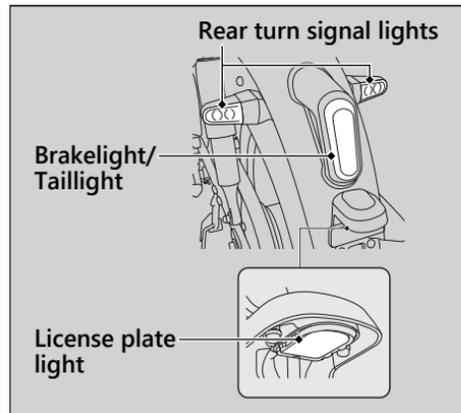
Electrical Trouble ► Burned-out Light Bulb

Headlight/Front Turn Signal Light/ Position Light



The headlight, front turn signal lights and position light use several LEDs. If there is an LED which is not turned on, see your dealer for servicing.

Brakelight/Taillight/Rear Turn Signal Light/ License Plate Light



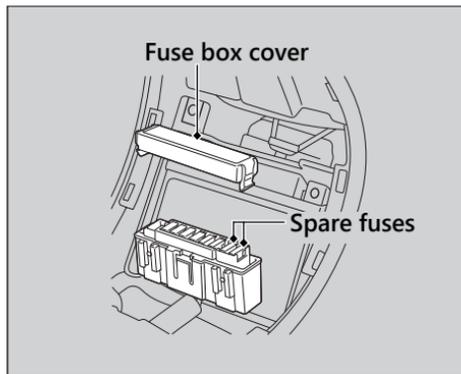
The brakelight, taillight, rear turn signal lights and license plate light use several LEDs. If there is an LED which is not turned on, see your dealer for servicing.

Blown Fuse

Before handling fuses, see “Inspecting and Replacing Fuses.” ► P. 66

■ Fuse Box Fuses

1. Remove the centre cover. ► P. 77
2. Remove the battery cover. ► P. 75
3. Remove the fuse box cover.
4. Pull the fuses out one by one with the fuse puller in the tool kit (► P. 74) and check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.
5. Reinstall the fuse box cover.
6. Reinstall the battery cover.
7. Reinstall the centre cover.



NOTICE

If a fuse fails repeatedly, you likely have an electrical problem. Have your motorcycle inspected by your dealer.

Unstable Engine Operation Occurs Intermittently

If the fuel pump filter is clogged, unstable engine operation will occur intermittently while riding.

Even if this symptom occurs, you can continue to ride your motorcycle.

If unstable engine operation occurs even if sufficient fuel is available, have your motorcycle inspected by your dealer as soon as possible.

Troubleshooting

Information

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Keys

Keys

Honda SMART Key

Carrying the Honda SMART Key allows you to perform the following operations:

- Locking or unlocking the ignition switch
- Releasing the seat lock
- Locking or unlocking the steering

The ID number of the Honda SMART Key is on the ID tag. You can also unlock the ignition switch by inputting the ID number.

Always carry the ID tag, but separate from the Honda SMART Key, to avoid losing all of them at the same time.

Also store a copy of your ID number in a safe place other than your motorcycle.

The Honda SMART Key contains electronic circuits. If the circuits are damaged, the Honda SMART Key will not allow you to perform any operations.

- Do not drop the Honda SMART Key or set heavy objects on them.
- Protect the Honda SMART Key from direct sunlight, high temperature, and high humidity.
- Do not scratch or puncture.
- Do not store near any magnetized products such as a magnetized key chain.
- Always keep the Honda SMART Key away from electric appliances such as a TV, radio, PC or low-frequency massage device.

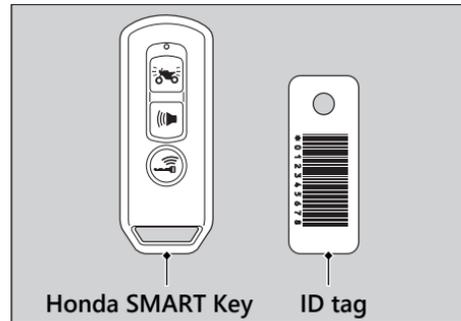
Keys

- Keep the Honda SMART Key away from liquids. If it gets wet, dry it immediately with a soft cloth.
- Keep the Honda SMART Key away from the motorcycle while washing the motorcycle.
- Do not burn.
- Do not wash in the ultrasonic cleaner.
- If fuel, wax, or grease adhere to the Honda SMART Key, wipe it off immediately to avoid cracking or warping.
- Do not disassemble the Honda SMART Key other than when changing a battery. Only the cover of the Honda SMART Key can be disassembled. Do not disassemble other parts.
- Do not lose your Honda SMART Key. If you lose it, you will need to register a new Honda SMART Key. See your dealer with your ID tag for registration.

The battery in the Honda SMART Key system normally lasts about 2 years.

Do not keep mobile phones or other radio transmitting devices in any compartment. The radio frequency from the devices will interrupt the Honda SMART Key system.

To get an additional Honda SMART Key, take the Honda SMART Key and the motorcycle to your dealer.



Information

Continued 121

Keys

EU Directive

This Honda SMART Key system complies with the RE (Radio Equipment) Directive (2014/53/EU).



The declaration of conformity to RE 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 dealer.

Information

South Africa only



Singapore only



Morocco only



Instruments, Controls, & Other Features

Instruments, Controls, & Other Features

Ignition Switch

Leaving the ignition switch in the **I** (On) position with the engine stopped will drain the battery.

Do not turn the ignition switch while riding.

Odometer

The display locks at 999,999 when the read-out exceeds 999,999.

Tripmeter

The tripmeters return to 0.0 when each read-out exceeds 9,999.9.

Document Bag

The owner's manual, registration, and insurance information can be stored in the plastic document bag behind the right side cover.

High Beam Indicator

The high beam indicator will come on briefly due to the capacitor being discharged when the ignition switch is turned to the **I** (On) position immediately after the engine is stopped with the high beam.

Headlight

The headlight will come on briefly due to the capacitor being discharged when the headlight dimmer switch is operated immediately after the engine is stopped with the high beam.

Caring for Your Motorcycle

Caring for Your Motorcycle

Frequent cleaning and polishing is important to ensure the life of your Honda. A clean motorcycle makes it easier to spot potential problems.

In particular, seawater and salts used to prevent ice on roads promote the formation of corrosion. Always wash your motorcycle thoroughly after riding on coastal or treated roads.

Information

Washing

Allow the engine, muffler, brakes, and other high-temperature parts to cool before washing.

1. Rinse your motorcycle thoroughly using a low pressure garden hose to remove loose dirt.
2. If necessary, use a sponge or a soft towel with mild cleaner to remove road grime.
 - ▶ Clean the headlight lens, panels, and other plastic components with extra care to avoid scratching them. Avoid directing

water into the air cleaner, muffler, and electrical parts.

3. Thoroughly rinse your motorcycle with plenty of clean water and dry with a soft, clean cloth.
4. After the motorcycle dries, lubricate any moving parts.
 - ▶ Make sure that no lubricant spills onto the brakes or tyres. Brake discs, pads, drum or shoes contaminated with oil will suffer greatly reduced braking effectiveness and can lead to a crash.
5. Lubricate the drive chain immediately after washing and drying the motorcycle.
6. Apply a coat of wax to prevent corrosion.
 - ▶ Avoid products that contain harsh detergents or chemical solvents. These can damage the metal, paint, and plastic on your motorcycle. Keep the wax clear of the tyres and brakes.
 - ▶ If your motorcycle has any mat painted parts, do not apply a coat of wax to the mat painted surface.

Caring for Your Motorcycle

Washing Precautions

Follow these guidelines when washing:

- Do not use high-pressure washers:
 - ▶ High-pressure water cleaners can damage moving parts and electrical parts, rendering them inoperable.
 - ▶ Water in the air intake can be drawn into the throttle body and/or enter the air cleaner.
- Do not direct water at the muffler:
 - ▶ Water in the muffler can prevent starting and causes rust in the muffler.
- Dry the brakes:
 - ▶ Water adversely affects braking effectiveness. After washing, apply the brakes intermittently at low speed to help dry them.
- Do not direct water in the right side cover:
 - ▶ Water in the right side cover can damage your documents and other belongings.

- Do not direct water at the air cleaner:
 - ▶ Water in the air cleaner can prevent the engine from starting.
- Do not direct water near the headlight:
 - ▶ The headlight's inside lens may fog temporarily after washing or while riding in the rain. This does not impact the headlight function.
However, if you see a large amount of water or ice accumulated inside the lens(es), have your vehicle inspected by your dealer.
- Do not use wax or polishing compounds on mat painted surface:
 - ▶ Use a soft cloth or sponge, plenty of water, and a mild detergent to clean mat painted surfaces. Dry with a soft clean cloth.

Caring for Your Motorcycle

Aluminium Components

Aluminium will corrode from contact with dirt, mud, or road salt. Clean aluminium parts regularly and follow these guidelines to avoid scratches:

- Do not use stiff brushes, steel wool, or cleaners containing abrasives.
- Avoid riding over or scraping against curbs.

Panels

Follow these guidelines to prevent scratches and blemishes:

- Wash gently using a soft sponge and plenty of water.
- To remove stubborn stains, use diluted detergent and rinse thoroughly with plenty of water.
- Avoid getting petrol, brake fluid, or detergents on the instruments, panels, or headlight.

Exhaust Pipe and Muffler

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

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

If necessary, remove heat stains by using a commercially available fine texture compound. Then rinse by the same manner as removing mud or dust.

NOTICE

Even though the exhaust is made of stainless steel, it can become stained. Remove all marks and blemishes as soon as they are noticed.

Storing Your Motorcycle

Storing Your Motorcycle

If you store your motorcycle outdoors, you should consider using a full-body motorcycle cover.

If you won't be riding for an extended period, follow these guidelines:

- Wash your motorcycle and wax all painted surfaces (except mat painted surfaces). Coat chrome pieces with rust-inhibiting oil.
- Lubricate the drive chain.  P. 68
- Place your motorcycle on its centre stand and position a block so that both tyres are off the ground.
- After rain, remove the body cover and allow the motorcycle to dry.
- Remove the battery ( P. 75) to prevent discharge. Fully charge the battery and then place it in a shaded, well-ventilated area.
 - ▶ If you leave the battery in place, disconnect the negative \ominus terminal to prevent discharge.

After removing your motorcycle from storage, inspect all maintenance items required by the Maintenance Schedule.

Transporting Your Motorcycle

Transporting Your Motorcycle

If your motorcycle needs to be transported, it should be carried on a motorcycle trailer or a flatbed truck or trailer that has a loading ramp or lifting platform, and motorcycle tie-down straps. Never try to tow your motorcycle with a wheel or wheels on the ground.

Information

NOTICE

Towing your motorcycle can cause serious damage to the transmission.

You & the Environment

Owning and riding a motorcycle can be enjoyable, but you must do your part to protect the environment.

Choose Sensible Cleaners

Use a biodegradable detergent when you wash your motorcycle. Avoid aerosol spray cleaners that contain chlorofluorocarbons (CFCs) which damage the atmosphere's protective ozone layer.

Recycle Wastes

Put oil and other toxic wastes in approved containers and take them to a recycling centre. Call your local or state office of public works or environmental services to find a recycling centre in your area, and to get instructions on how to dispose of non-recyclable wastes. Do not place used engine oil in the trash, or pour it down a drain or on the ground. Used oil, petrol, and cleaning solvents contain poisons that can hurt refuse workers and contaminate drinking water, lakes, rivers, and oceans.

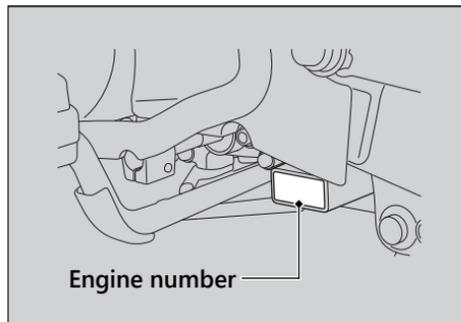
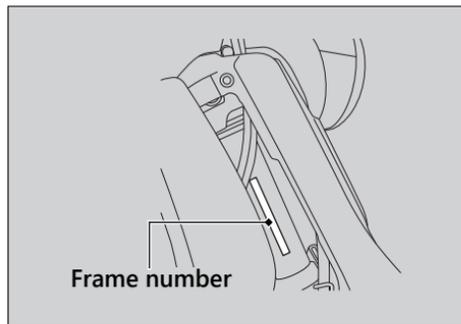
Serial Numbers

Serial Numbers

The frame and engine serial numbers uniquely identify your motorcycle and are required in order to register your motorcycle. They may also be required when ordering replacement parts.

You should record these numbers and keep them in a safe place.

Information



Fuels Containing Alcohol

Fuels Containing Alcohol

Some conventional fuels blended with alcohol are available in some locales to help reduce emissions to meet clean air standards. If you plan to use blended fuel, check that it is unleaded and meets the minimum octane rating requirement.

The following fuel blends can be used in your motorcycle:

- Ethanol (ethyl alcohol) up to 10% by volume.
 - ▶ Petrol containing ethanol may be marketed under the name Gasohol.

The use of petrol containing more than 10% ethanol 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.

NOTICE

Use of blended fuels containing higher than approved percentages can damage metal, rubber, plastic parts of your fuel system.

If you notice any undesirable operating symptoms or performance problems, try a different brand of petrol.

Catalytic Converter

Catalytic Converter

This motorcycle is equipped with two three-way catalytic converters. Each catalytic converter contains precious metals that serve as catalysts in high temperature chemical reactions that convert hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) in the exhaust gasses into safe compounds.

A defective catalytic converter contributes to air pollution and can impair your engine's performance. A replacement unit must be an original Honda part or equivalent.

Information

Follow these guidelines to protect your motorcycle's catalytic converters.

- Always use unleaded petrol. Leaded petrol will damage the catalytic converters.
- Keep the engine in good running condition.
- Have your motorcycle serviced if your engine is misfiring, backfiring, stalling, or otherwise not running properly, stop riding and turn off the engine.

Specifications

■ Main Components

Overall length	1,915 mm (75.4 in)
Overall width	720 mm (28.3 in)
Overall height	1,000 mm (39.4 in)
Wheelbase	1,245 mm (49.0 in)
Minimum ground clearance	125 mm (4.9 in)
Caster angle	26° 30'
Trail	71 mm (2.8 in)
Curb weight	109 kg (240 lb)
Maximum weight capacity *1	106 kg (234 lb)
Maximum luggage weight	5 kg (11 lb)
Passenger capacity	Rider only (no passenger)
Minimum turning radius	2.00 m (6.6 ft)

*1: Including rider, all luggage, and accessories

Displacement	125 cm ³ (7.6 cu-in)	
Bore x stroke	52.4 x 57.9 mm (2.06 x 2.28 in)	
Compression ratio	9.3 : 1	
Fuel	Unleaded petrol Recommended: 91 RON or higher	
Fuel containing alcohol	ETHANOL up to 10 % by volume	
Tank capacity	3.7 L (0.98 US gal, 0.81 Imp gal)	
Battery	YTZ5S 12 V-3.5 Ah (10 HR) / 3.7 Ah (20 HR)	
Gear ratio	1st	2.500
	2nd	1.550
	3rd	1.150
	4th	0.923
Reduction ratio (primary / final)	3.363 / 2.571	

Specifications

■ Service Data

Tyre size	Front	70/90-17M/C 38P
	Rear	80/90-17M/C 50P
Tyre type	Bias-ply, tubeless	
Recommended Tyre	Front	IRC NF63B YD
	Rear	IRC NR94
Tyre category of use	Normal	Permitted
	Special	Not Permitted
	Snow	Not Permitted
	Moped	Not Permitted
Tyre air pressure	Front	200 kPa (2.00 kgf/cm ² , 29 psi)
	Rear	225 kPa (2.25 kgf/cm ² , 33 psi)
Spark plug	(standard)	CPR6EA-9 (NGK) U20EPR9 (DENSO)
	(For extend high speed riding)	CPR7EA-9 (NGK) U22EPR9 (DENSO)
Spark plug gap	0.8 - 0.9 mm (0.03 - 0.04 in)	
Idle speed	1,400 ± 100 rpm	
Recommended engine oil	Honda 4-stroke motorcycle oil API Service Classification SG or higher, excluding oils marked as "Energy Conserving" or "Resource Conserving," SAE 10W-30, JASO T 903 standard MA	

Engine oil capacity	After draining	0.8 L (0.8 US qt, 0.7 Imp qt)
	After disassembly	1.0 L (1.1 US qt, 0.9 Imp qt)
Recommended brake fluid	Honda DOT 3 or DOT 4 Brake Fluid	
Recommended drive chain lubricant	Drive chain lubricant If not available, use SAE 80 or 90 gear oil.	
Drive chain slack	25 - 35 mm (1.0 - 1.4 in)	
Standard drive chain	RK420EL DID420AD2	
	No. of links 106	
Standard sprocket size	Drive sprocket	14T
	Driven sprocket	36T

Specifications

■ **Bulbs**

Headlight	LED
Brakelight/Taillight	LED
Front turn signal	LED
Rear turn signal	LED
Position light	LED
License plate light	LED

■ **Fuses**

Main fuse	15 A
Other fuse	15 A, 10 A

■ **Torque Specifications**

Engine oil drain bolt	24 N·m (2.4 kgf·m, 18 lbf·ft)
Chain cover bolt	7 N·m (0.7 kgf·m, 5.2 lbf·ft)
Front wheel axle nut	59 N·m (6.0 kgf·m, 44 lbf·ft)
Rear wheel axle nut	59 N·m (6.0 kgf·m, 44 lbf·ft)
Brake stopper arm nut	22 N·m (2.2 kgf·m, 16 lbf·ft)

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