

OWNER'S MANUAL

 **HONDA**

SH300A



This manual should be considered a permanent part of the scooter and should remain with the scooter 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 scooter. 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 scooter.

- The following codes in this manual indicate each country.
- The illustrations here in are based on the SH300A ED type.

Country Code

Code	Country
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SH300A	
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ED, II ED, III ED, IV ED	European direct sales
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E	UK
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*The specifications may vary with each locale.

A Few Words About Safety

Your safety, and the safety of others, is very important. Operating this scooter 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 scooter. You must use your own good judgement.

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

- Safety labels on the scooter.
 - 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 scooter, other property, or the environment.

Contents

Scooter Safety P. 2

Operation Guide P. 18

Maintenance P. 52

Troubleshooting P. 90

Information P. 113

Specifications P. 127

Index P. 130

Scooter Safety

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

Safety Guidelines	P. 3
Image Labels	P. 6
Safety Precautions	P. 11
Riding Precautions	P. 12
Accessories & Modifications	P. 15
Loading	P. 16

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 and your passenger are both wearing an approved motorcycle helmet and protective apparel. Instruct your passenger on holding onto the grab rail or your waist, leaning with you in turns, and keeping their feet on the footpegs, even when the scooter is stopped.

Take Time to Learn & Practice

Even if you have ridden other scooters, practice riding in a safe area to become familiar with how this scooter works and handles, and to become accustomed to the scooter'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.

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 scooter properly maintained and in safe riding condition. Inspect your scooter before every ride and perform all recommended maintenance. Never exceed load limits (➤ P. 16), and do not modify your scooter or install accessories that would make your scooter unsafe (➤ P. 15).

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.

If you decide to continue riding, first evaluate the condition of your scooter. If the engine is still running, turn it off. 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 scooter may have suffered damage that is not immediately apparent. Have your scooter 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 scooter inside a garage or other enclosure.

WARNING

Carbon monoxide gas is toxic.
Breathing it can cause
unconsciousness and even kill you.

Avoid any areas or activities that
expose you to carbon monoxide.

Image Labels

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 scooter 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)

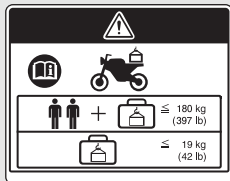
You **CAN** be KILLED or SERIOUSLY HURT if you don't follow instructions.

CAUTION (with YELLOW background)

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

**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 scooter.
- Do not use a battery with the electrolyte at or below the lower level mark. It can explode causing serious injury.



ACCESSORIES AND LOADING WARNING WARNING

ACCESSORIES AND LOADING

- The safety stability and handling of this scooter may be affected by the addition of accessories and luggage.
- Read carefully the instructions contained in user's manual and installation guide before installing any accessory.
- The total weight of accessories and luggage added to rider's and passenger's weight should not exceed **180 kg (397 lb)**, which is the maximum weight capacity.
- The luggage weight must not exceed **19 kg (42 lb)** under any circumstances.
- The fitting of large fork-mounted or large handlebar mounted fairing is not recommended.

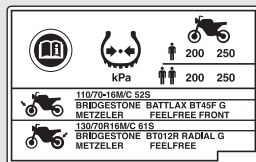


RADIATOR CAP LABEL DANGER

NEVER OPEN WHEN HOT.

Hot coolant will scald you.

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



TYRE INFORMATION LABEL

Cold tyre pressure:

[Driver only]

Front **200 kPa (2.00 kgf/cm², 29 psi)**

Rear **250 kPa (2.50 kgf/cm², 36 psi)**

[Driver and passenger]

Front **200 kPa (2.00 kgf/cm², 29 psi)**

Rear **250 kPa (2.50 kgf/cm², 36 psi)**

Tyre size:

Front **110/70-16M/C 52S**

Rear **130/70R16M/C 61S**

Tyre brand: **BRIDGESTONE**

Front **BATTMAX BT45F G**

Rear **BT012R RADIAL G**

METZELER

FEELFREE FRONT

FEELFREE



or



SAFETY REMINDER LABEL

For your protection, always wear helmet, protective apparel.

FUEL LABEL

Unleaded petrol only

ETHANOL up to 10 % by volume



CARGO LIMIT LABEL

Do not exceed **10 kg (22 lb).**



CARGO LIMIT LABEL

Do not exceed **1.5 kg (3.3 lb).**



CARGO LIMIT LABEL

Do not exceed **0.5 kg (1.0 lb).**



CARGO LIMIT LABEL

Do not exceed **3.0 kg (6.6 lb).**

Safety Precautions

- Ride cautiously and keep your hands on the handlebar and feet on the floor.
- Keep passenger's hands onto the grab rail or your waist, passenger's feet on the footpegs while riding.
- Always consider the safety of your passenger, as well as other drivers and riders.

Protective Apparel

Make sure that you and any passenger 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 and any passenger 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

Running-in Period

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

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

Brakes

Observe the following guidelines:

- Avoid excessively hard braking.
 - ▶ Sudden braking can reduce the scooter'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.
- For full brake effectiveness, operate both the front and rear brakes together.

■ Anti-lock Brake System (ABS)

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

- 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 and pedal may recoil slightly when applying the brakes. This is normal.
- Always use the recommended tyres to ensure correct ABS operation.

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.

Parking

- Park on a firm, level surface.
- If you must park on a slight incline or loose surface, park so that the scooter 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. 38) and leave your scooter while taking the Honda SMART Key with you. Deactivate the Honda SMART Key system if necessary. ➡ P. 33
Use of an anti-theft device is also recommended.

Parking with the Side Stand or Centre Stand

1. Stop the engine.

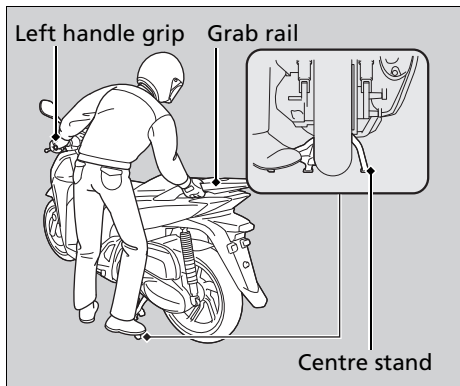
2. Using the side stand

Push the side stand down.

Slowly lean the scooter to the left until its weight rests on the side stand.

Using the centre stand

To lower the centre stand, and stand on the left side of the scooter. Hold the left handle grip and the grab rail. 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.
4. Turn the ignition switch to the  (LOCK) position, lock the ignition switch (➡ P. 38) and leave your scooter while taking the Honda SMART Key with you. Deactivate the Honda SMART Key system if necessary. ➡ P. 33

Refuelling and Fuel Guidelines

Follow these guidelines to protect the engine 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. 125
- Do not use stale or contaminated petrol or an oil/petrol mixture.
- Avoid getting dust, or water in the fuel tank.

Accessories & Modifications

We strongly advise that you do not add any accessories that were not specifically designed for your scooter by Honda or make modifications to your scooter from its original design. Doing so can make it unsafe. Modifying your scooter may also void your warranty and make your scooter illegal to operate on public roads and highways. Before deciding to install accessories on your scooter 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 scooter. Your scooter was not designed for these attachments, and their use can seriously impair your scooter's handling.

Loading

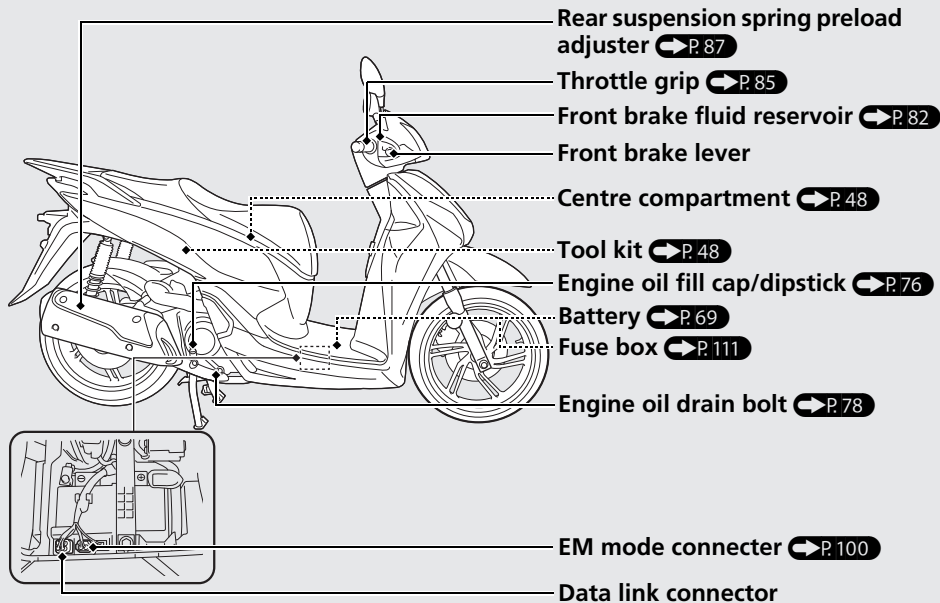
- Carrying extra weight affects your scooter's handling, braking and stability. Always ride at a safe speed for the load you are carrying.
- Avoid carrying an excessive load and keep within specified load limits.
☒ Maximum weight capacity / Maximum luggage weight P. 127
- Tie all luggage securely, evenly balanced and close to the centre of the scooter.
- Do not place objects near the lights or the muffler.

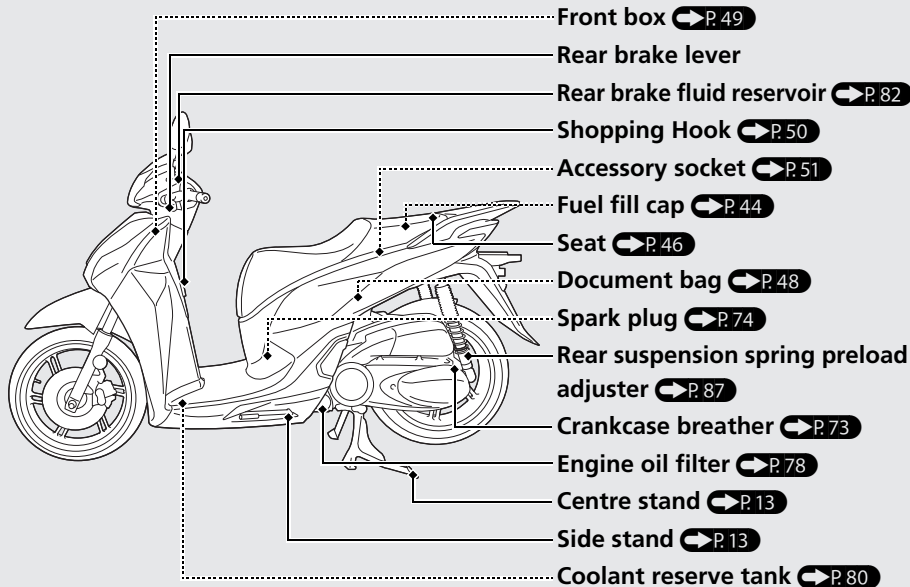
WARNING

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

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

Parts Location





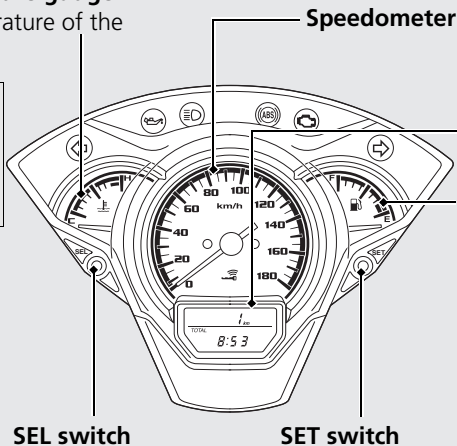
Instruments

Coolant temperature gauge

Displays the temperature of the engine coolant.

NOTICE

Riding with the needle in the H (Hot) range may cause serious engine damage.



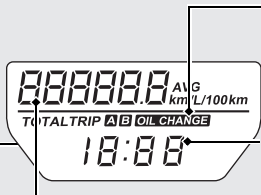
Speedometer

Fuel gauge

Needle in the red (E) mark, remaining fuel approximately 1.7 litres (0.45 US gal, 0.37 Imp gal)

Display Check

When the ignition switch is turned **I** (On), all the modes and digital segments will show. If any part of these displays does not come on when it should, have your dealer check for problems.

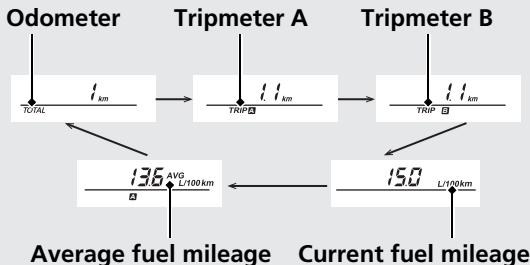


Clock (12-hour display)

To set the clock: ➡ P. 24

Odometer [TOTAL] & Tripmeter [TRIP A/B] & Current fuel mileage & Average fuel mileage [AVG]

SEL switch selects the odometer, tripmeter A, tripmeter B, current fuel mileage and average fuel mileage.



OIL CHANGE indicator

ED type

- Lights when the distance reaches about 1,000 km for the first time and every 12,000 km after resetting the indicator.

E type

- Lights when the distance reaches about 600 mile (960 km) for the first time and every 8,000 mile (12,800 km) after resetting the indicator.

► The indicator does not go off until it is reset.

To reset the indicator, press and hold SET switch while turning the ignition switch to the **I** (On) position, and keep hold SET switch for more than 3 seconds.

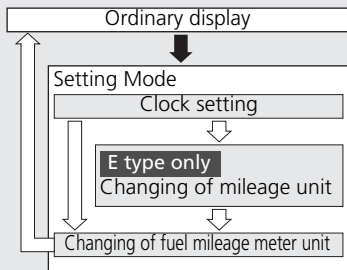
Instruments *(Continued)*

- Odometer:
Total distance ridden.
- Tripmeter:
Distance ridden since tripmeter was reset.
To reset tripmeter A or B, press and hold SET switch with tripmeter A or B displayed. The average fuel mileage is also reset when tripmeter A was reset.
- Current fuel mileage:
Current instant fuel mileage. If your speed is less than 5 km/h (3 mph), "--.-" is displayed. When "--.-" is displayed at speeds above 5 km/h (3 mph), go to your dealer for service.
- Average fuel mileage:
The average fuel mileage will be based on tripmeter A. Average fuel mileage since tripmeter A was reset. When "--.-" is displayed except after the average fuel mileage has been reset, go to your dealer for service.

Display Setting

Following items to change sequentially.

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



Press and hold SEL switch and SET switch



Press SET switch

In addition, to return to the ordinary display at display setting.

- The button is not pressed for about 30 seconds
- Turn the ignition switch **○** (Off) and then **┃** (On)

Instruments *(Continued)*

Clock setting:

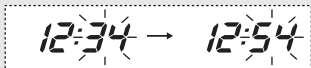
- 1 Turn the ignition switch to **I** (On).
- 2 Press and hold SEL switch and SET switch, the hour digits start flashing.
- 3 Press SEL switch until the desired hour is displayed.
▶ Press and hold to advance the hour fast.



- 4 Press SET switch. The minute digits start flashing.



- 5 Press SEL switch until the desired minute is displayed.
▶ Press and hold to advance the hour fast.



6 ED type

Press SET switch. The clock is set, and then the display moves to the changing of the fuel mileage meter unit.

E type

Press SET switch. The clock is set, and then the display moves to the changing of the mileage unit.

Changing of mileage unit:

E type only

- 1 Press SEL switch to select either "km" or "mile."



- 2 Press SET switch. The mileage unit is set, and then the display moves to the changing of the fuel mileage meter unit.

Changing of fuel mileage meter unit:

- 1 Press SEL switch to select "km/L" or "L/100 km."



E type only

If the "mile" for mileage are selected, the fuel mileage shown by "mile/L" or "mile/gal."



- 2 To end the selection, press SET switch.

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

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.

Indicators

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



High beam indicator



ABS (Anti-lock Brake System) indicator

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

If it comes on while riding: ➡ **P. 94**



Low oil pressure indicator

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

Goes off when the engine starts.

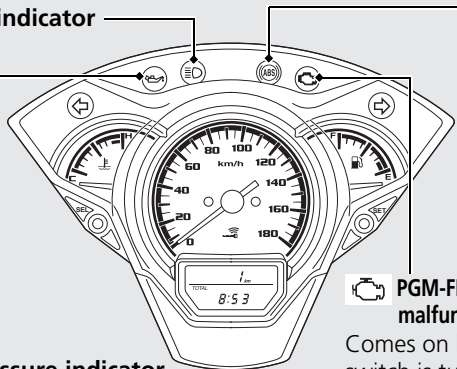
If it comes on while engine is running: ➡ **P. 93**

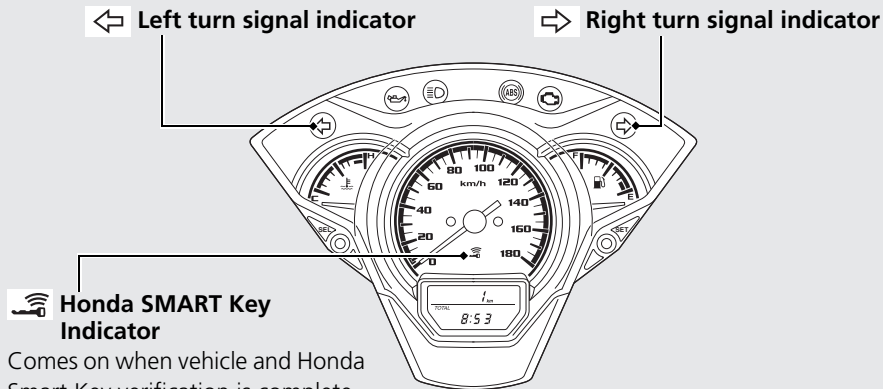


PGM-FI (Programmed Fuel Injection) malfunction indicator lamp (MIL)

Comes on briefly when the ignition switch is turned **I** (On) with the engine stop switch in the **⌚** (Run) position.

If it comes on while engine is running: ➡ **P. 93**





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 **I** (On).

When the Honda SMART Key Indicator Flashes ➡ P. 96

Switches

Headlight dimmer/Passing light control switch

-  : High beam
-  : Low beam
-  **PASS** : Flashes the high beam headlight

 **Horn button**

 **Turn signal switch**

- ▶ Pressing the switch turns the turn signal off.

Engine stop switch

Should normally remain in the  (Run) position.

- ▶ In an emergency, switch to the  (Off) position (the starter motor will not operate) to stop the engine.

 **Start button**

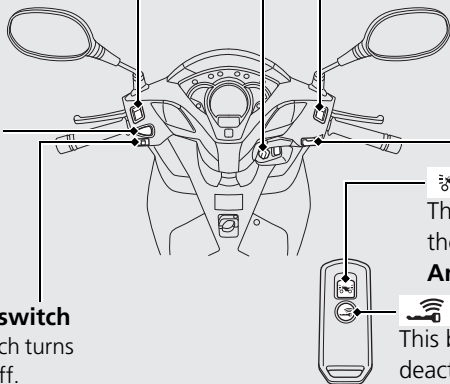
 **Answer back button**

This button is used to operate the answer back system.

Answer Back System: ➡ P.30

 **ON/OFF button**

This button is used to activate or deactivate the Honda SMART Key system, and also to confirm the activation status. ➡ P.33



Ignition Switch

Switches the electrical system on/off, locks the steering, and operates the seat opener switch.

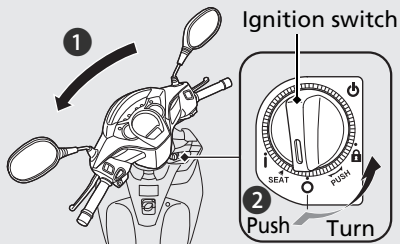
To unlock the ignition switch:

➡ P. 37

Steering Lock

Lock the steering when parking to help prevent theft.

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

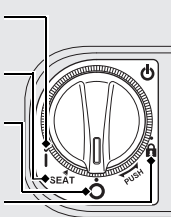


Turns electrical system on for starting/riding.

SEAT
Operates the seat opener switch.

○
Turns engine off.

🔒
Locks steering.



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. 37
 - ▶ Jiggle the handlebar if the lock is difficult to engage.
- 3 Lock the ignition switch. ➡ P. 38

Unlocking

Push the ignition switch in, and turn it to the ○ (Off) position.

- ▶ To unlock the ignition switch ➡ P. 37

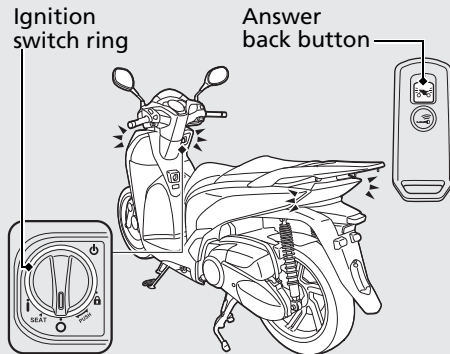
Switches *(Continued)*

Answer Back System

The answer back system is a device to find the position of your scooter. When you press the answer back button on the Honda SMART Key with the ignition switch

○ (Off) or  (LOCK), your scooter informs you the position by blinking the turn signal light 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 unlocked.

If the ignition switch is left the  (Off) or  (LOCK) position for more than 10 days, the answer back system will no longer operate. To reset the system, unlock the the ignition switch once.

- ▶ To unlock the ignition switch  P. 37

NOTICE

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

Replacing the Honda SMART Key Battery

-  P. 88

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 scooter and the Honda SMART Key to verify if it is a 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.

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.

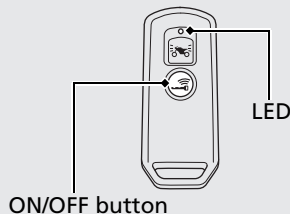
To check the Honda SMART Key system status

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 (activation) authentication can be performed.

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



Honda SMART Key System *(Continued)*

Operating Range

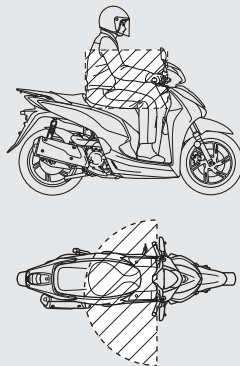
The operating range varies when the ignition switch is locked or unlocked.

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.

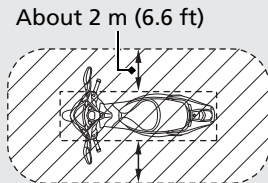
When the ignition switch is unlocked:

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



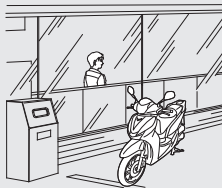
When the ignition switch is locked:

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



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

To switching the Honda SMART Key system ➡ **P.33**



Honda SMART Key System *(Continued)*

Anyone in possession of the Honda SMART Key can start the engine and unlock the ignition switch, seat lock and steering lock if the Honda SMART Key is within operating range.

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

Do not place the Honda SMART Key in the centre compartment or front box.

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

Whenever you leave your scooter, lock the steering and lock the ignition switch. ➡ **P. 38**

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

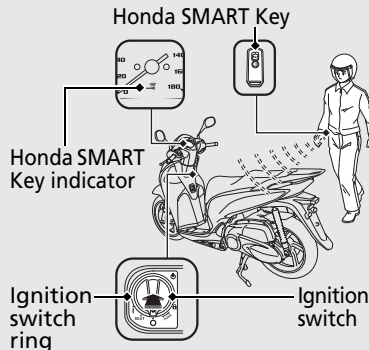
Switching the ignition switch

To Unlock the Ignition Switch

- 1 Make sure that the Honda SMART Key is activated. ➡ P.33
- 2 To authenticate the Honda SMART Key system, push the ignition switch.
 - ▶ When properly authenticated, the ignition switch is unlocked, and the Honda SMART Key indicator and ignition switch ring come on.
- 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, and then the ignition switch will be locked.

When the Honda SMART Key system does not work properly ➡ P.97

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)).

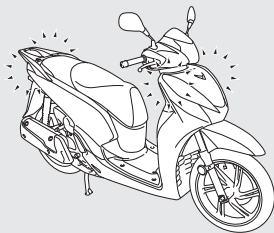
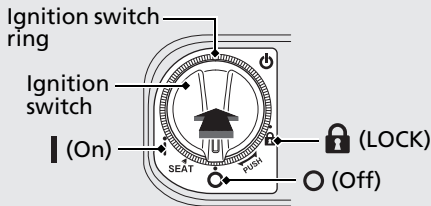


Honda SMART Key System *(Continued)*

To Lock the Ignition Switch

- 1 Turn the ignition switch to the SEAT, ○ (Off) or  (LOCK) position.
- 2 Lock the ignition switch by doing one of the following:
 - Leave the operating range with the Honda SMART Key. ➡ P. 34
 - Push the ignition switch.
 - Wait for approximately 20 seconds after turning the ignition switch from  (On) to ○ (Off) or  (LOCK).
 - Switch the Honda SMART Key system to deactivation. ➡ P. 33
- 3 Make sure that the Honda SMART Key indicator and ignition switch ring go off, and the turn signals flash once. This indicates that the ignition switch is locked.

When the Honda SMART Key system does not work properly ➡ P. 97



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

When the ignition switch is locked in the SEAT position, the ignition switch can be turned  (Off) only once.

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

Starting the Engine

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

This scooter is equipped with a side stand ignition cut-off system.

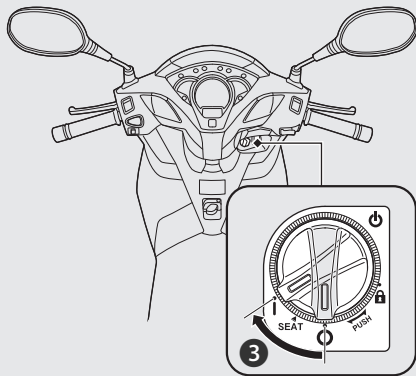
- ▶ If the side stand is down, the engine cannot be started.
- ▶ If you lower the side stand with the engine running, it will automatically shut off.

This scooter is equipped with a Honda SMART Key system. Always keep Honda SMART Key on you when you ride the scooter. ➡ P.34

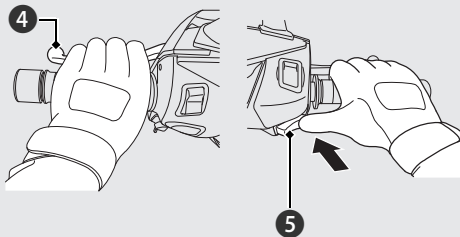
NOTICE

- If the engine does not start within 5 seconds, turn the ignition off 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.
- The engine will not start if the throttle is fully open.

- 1 Make sure the engine stop switch is in the  (Run) position.
- 2 Place the scooter on its centre stand.
- 3 Turn the ignition switch to the  (On) position.
▶ To unlock the ignition switch ➡ P.37



- ④ Squeeze the rear brake lever.
 - ▶ The starter motor will only work when the rear brake lever is squeezed and the side stand is up.
- ⑤ Press the start button with the throttle completely closed. Release the start button as soon as the engine starts.



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.91

Riding

Starting the Scooter

- 1 Push the scooter forward off the centre stand.

- ▶ Squeeze the rear brake lever.
- ▶ Keep throttle closed.

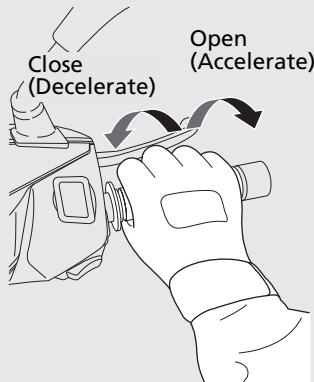
Make sure the side stand and centre stand are up.

- 2 Get on the scooter.
 - ▶ Mount the scooter from the left side, keeping at least one foot on the ground.
- 3 Release the rear brake lever.

- 4 Acceleration and deceleration

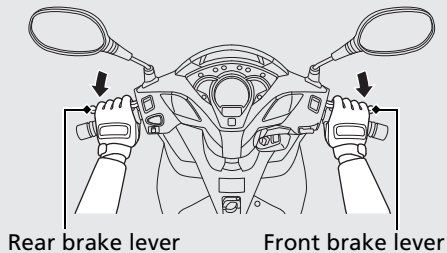
To accelerate: Open the throttle slowly.

To decelerate: Close the throttle.



Braking

Close the throttle and apply the front and rear brakes together.



Refuelling

Fuel type: Unleaded petrol only

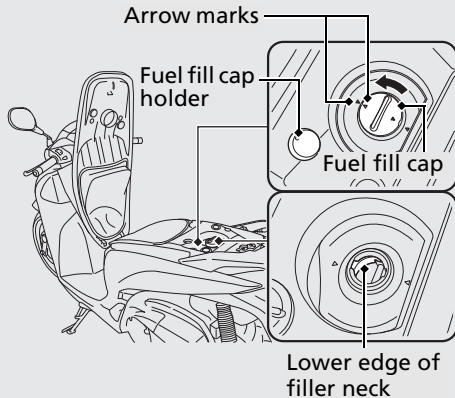
Fuel octane number: Your scooter is designed to use Research Octane Number (RON) 91 or higher.

Tank capacity: 9.1 litres (2.40 US gal, 2.00 Imp gal)

Refuelling and Fuel Guidelines ➡ P.14

Opening the Fuel Fill Cap

- 1 Open the seat. ➡ P.46
- 2 Turn the fuel fill cap counterclockwise until it stops, remove the fill cap and put it on the fuel fill cap holder.



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

Closing the Fuel Fill Cap

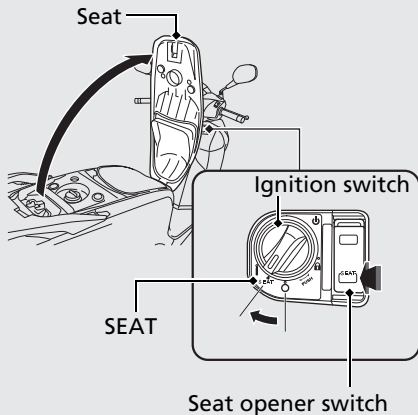
- ① Install and tighten the fuel fill cap firmly by turning it clockwise.
 - ▶ Make sure that the arrow marks on the cap and fuel tank are aligned.
- ② Close the seat. ➡ P. 46

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



Seat Open

- 1 Turn the handlebar pointed straight ahead.
- 2 Turn the ignition switch to the position of SEAT and push the seat opener switch.
▶ To unlock the ignition switch ➡ P.37
- 3 Open the seat.

Seat Close

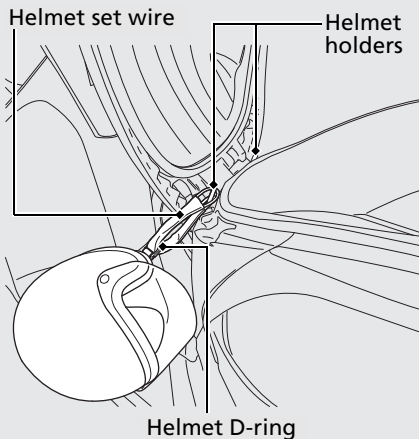
Close and push down on the rear of the seat until locks. Make sure that the seat is locked securely to pull it up lightly. Take care not to lock your keys in the compartment under the seat.

Helmet Holders

The helmet holders are located under the seat.

A helmet set wire is in the tool kit.

► Use the helmet holder only when parked.



⚠ WARNING

Riding with a helmet attached to the holder can interfere with the your ability to safely operate the scooter and could lead to a crash in which you can be seriously hurt or killed.

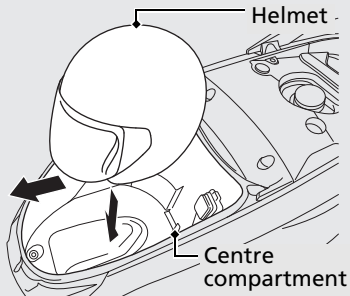
Use the helmet holder only while parked. Do not ride with a helmet secured by the holder.

Storage Equipment *(Continued)*

A helmet can be stored in the centre compartment.

Set in the front of the helmet forward.

- Some helmets may not fit in the compartment due to their size or design.



Centre compartment

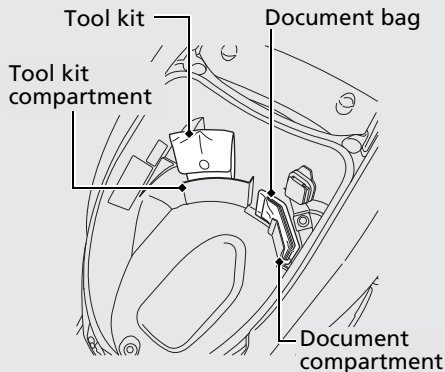
Never exceed the maximum weight limit.

Maximum Weight: 10 kg (22 lb)

- Do not store any items that are flammable or susceptible to heat damage.
- Do not store valuables or fragile articles.

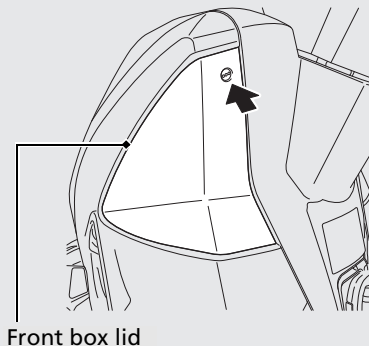
Tool Kit/Document Bag

The tool kit and document bag are in the centre compartment.



Opening the Seat ➞ P. 46

Front Box



Open

Push the front box lid by pressing the concave area on the front box lid.

Close

Close the front box lid by pressing the concave area on the front box lid.

The maximum allowable load in the front box shall be no more than

0.5 kg (1.0 lb)

Make sure that the front box lid is closed securely.

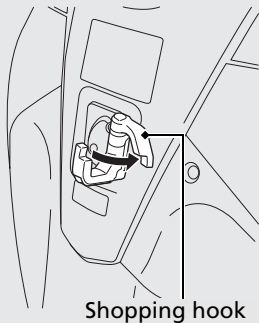
► Do not store valuables or fragile articles.

Storage Equipment *(Continued)*

Shopping Hook

The shopping hook is provided below the handlebar.

- Do not attach large luggage to the hook that would hang out from the scooter and/or interfere with the movement of your feet.

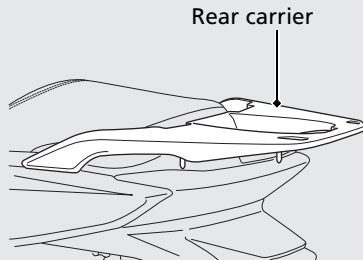


The maximum allowable load on the shopping hook shall be no more than **1.5 kg (3.3 lb)**.

Rear Carrier

Never exceed the maximum weight limit.

Maximum Weight: 3.0 kg (6.6 lb)



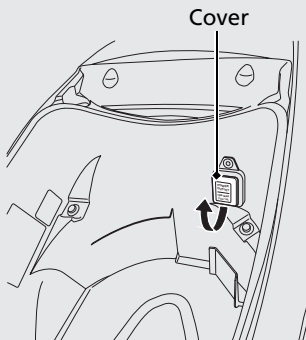
Accessory Socket

The accessory socket is located in the centre compartment.

Open the cover to gain access to the accessory socket.

Rated capacity is

12W (12V, 1A)



- ▶ To prevent the battery run down or weak the battery, keep the engine running while drawing current from the socket.
- ▶ Set the headlight in the low beam. The battery run down or damage to the accessory socket cause result.

Opening the Seat ➡ P. 46

Maintenance

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

Importance of Maintenance	P. 53
Maintenance Schedule	P. 54
Maintenance Fundamentals	P. 58
Tool Kit	P. 68
Removing & Installing Body Components ...	P. 69
Battery	P. 69
Centre Lower Cover	P. 70
Clip	P. 72
Crankcase Breather	P. 73
Spark Plug	P. 74

Engine Oil	P. 76
Coolant	P. 80
Brakes	P. 82
Side Stand	P. 84
Throttle	P. 85
Other Adjustments	P. 86
Headlight Aim	P. 86
Rear Suspension	P. 87
Honda SMART Key Battery	P. 88

Importance of Maintenance

Keeping your scooter 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 scooter before each ride, and perform the periodic checks specified in the Maintenance Schedule.

➔ P. 54

WARNING

Improperly maintaining your scooter 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  (Off) position.
- Place your scooter on a firm, level surface using the side stand, 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 scooter 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 for by your dealer. Retain all receipts. If you sell the scooter, these receipts should be transferred with the scooter to the new owner.

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

Items		Pre-ride Check P. 58	Frequency *1						Annual Check	Regular Replace	Refer to page
			× 1,000 km	1	12	24	36	48			
			× 1,000 mi	0.6	8	16	24	32			
Fuel Line					I	I	I	I	I		–
Fuel Level		I									–
Throttle Operation		I			I	I	I	I	I		85
Air Cleaner *2						R		R			67
Crankcase Breather *3					C	C	C	C			73
Spark Plug					I	R	I	R			74
Valve Clearance						I		I			–
Engine Oil		I		R	R	R	R	R	R		78
Engine Oil Filter				R		R		R			78
Engine Idle Speed					I	I	I	I	I		–
Radiator Coolant *4		I			I	I	I	I	I	3 years	80
Cooling System					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 scooter serviced by your dealer.

Maintenance Legend

- I** : Inspect (clean, adjust, lubricate, or replace, if necessary)
- R** : Replace
- C** : Clean

Maintenance Schedule

Items		Pre-ride Check P. 58	Frequency *1					Annual Check	Regular Replace	Refer to page
			× 1,000 km	1	12	24	36			
			× 1,000 mi	0.6	8	16	24			
Secondary Air Supply System						I		I		–
Evaporative Emission Control System						I		I		–
Drive Belt					I	R	I	R		–
Belt Case Air Cleaner					C	C	C	C		–
Final Drive Oil									2 years	–
Brake Fluid *4		I			I	I	I	I	2 years	82
Brake Pads Wear		I			I	I	I	I		83
Brake System					I	I	I	I		58
Headlight Aim					I	I	I	I		86
Lights/Horn		I								–
Engine Stop Switch		I								–
Clutch Shoes Wear					I	I	I	I		–
Side Stand		I			I	I	I	I		84

Notes:

*1 : At higher odometer readings, repeat at the frequency interval established here.

*2 : Service more frequently when riding in unusually wet or dusty areas.

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

*4 : Replacement requires mechanical skill.

Items		Pre-ride Check P. 58	Frequency *1						Annual Check	Regular Replace	Refer to page
			× 1,000 km	1	12	24	36	48			
			× 1,000 mi	0.6	8	16	24	32			
Suspension					I	I	I	I	I		-
Nuts, Bolts, Fasteners					I	I	I	I	I		-
Wheels/Tyres		I			I	I	I	I	I		64
Steering Head Bearings					I	I	I	I	I		-

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 ride your scooter:

- Fuel level-Fill fuel tank when necessary. ➤ P. 44
- Throttle-Check for smooth opening and full closing in all steering positions. ➤ P. 85
- Engine oil level-Add engine oil if necessary. Check for leaks. ➤ P. 76
- Coolant level-Add coolant if required. Check for leaks. ➤ P. 80

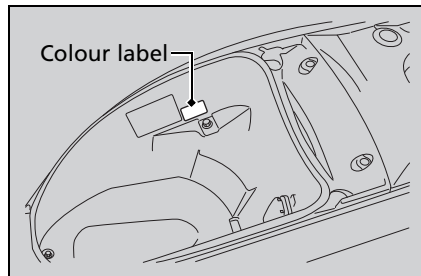
- Brakes-Check operation;
Front and Rear: check brake fluid level and pads wear. ➤ P. 82, 83
- Lights and horn-Check that lights, indicators and horn function properly.
- Engine stop switch-Check for proper function. ➤ P. 28
- Side stand ignition cut-off system-Check for proper function. ➤ P. 84
- Wheels and tyres-Check condition, air pressure and adjust if necessary. ➤ P. 64

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 centre compartment under the seat.

➤ P. 46



⚠ WARNING

Installing non-Honda parts may make your scooter 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 scooter.

Maintenance Fundamentals

Battery

Your scooter 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 battery disposal.

WARNING

The battery gives off explosive hydrogen gas during normal operation.

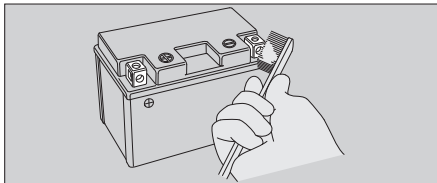
A spark or flame can cause the battery to explode with enough force to kill or seriously hurt you.

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. 69
2. If the terminals are starting to corrode and are coated with a white substance, wash with warm water and wipe clean.

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



4. 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

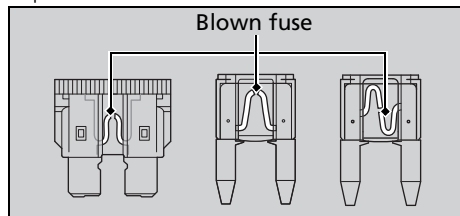
Installing non-Honda electrical accessories can overload the electrical system, discharging the battery and possibly damaging the system.

Fuses

Fuses protect the electrical circuits on your scooter. If something electrical on your scooter stops working, check for and replace any blown fuses. 📖 P. 111

Inspecting and Replacing Fuses

Turn off the ignition switch to remove and inspect fuses. If a fuse is blown, replace with a fuse of the same rating. For fuse ratings, see "Specifications." 📖 P. 129

**NOTICE**

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

Maintenance Fundamentals

If a fuse fails repeatedly, you likely have an electrical fault. Have your scooter 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

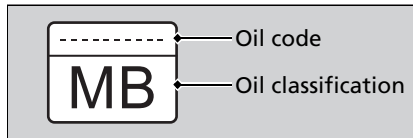
For recommended engine oil, see "Specifications." ■ P. 128

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

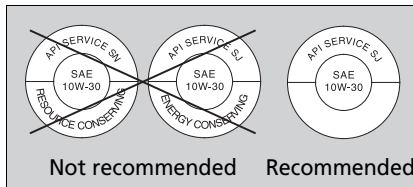
- JASO T 903 standard*1: MB
- SAE standard*2: 10W-30

- API classification*3: SG or higher

*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 MB 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.



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 4 Brake Fluid or equivalent

Recommended Coolant

Pro Honda HP coolant is a pre-mixed solution of antifreeze and distilled water.

Concentration:

50% antifreeze and 50% distilled water

A concentration of antifreeze below 40% will not provide proper corrosion and cold temperature protection.

A concentration of up to 60% will provide better protection in colder climates.

NOTICE

Using coolant not specified for aluminium engines or using ordinary tap water can cause corrosion.

Crankcase Breather

Service more frequently when riding in rain, at full throttle, or after the scooter 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. 73

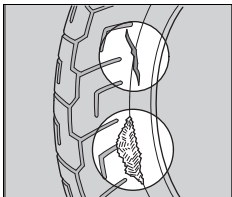
Tyres (Inspecting/Replacing)

■ 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.

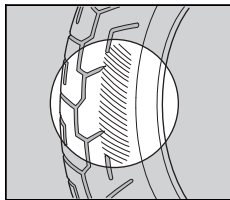
■ Inspecting for Damage

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 the bumps or bulges in the side walls of the tyres.



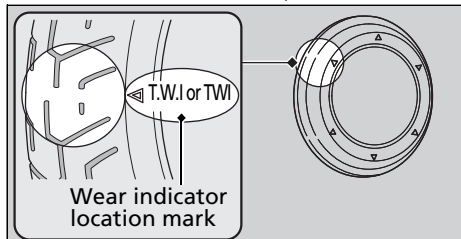
■ Inspecting for Abnormal Wear

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



Inspecting Tread Depth

Inspect the tread wear indicators. If they become visible, replace the tyres immediately. For safe riding, you should replace the tyres when the minimum tread depth is reached.



⚠ 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.

Germany

German law prohibits use of tyres whose tread depth is less than 1.6 mm.

Maintenance Fundamentals

Have your tyres replaced by your dealer. For recommended tyres, air pressure and minimum tread depth, see "Specifications."

■ P. 128

Follow these guidelines whenever you replace tyres.

- Use the recommended tyres or equivalents of the same size, construction, speed rating, and load range.
- Have the wheel balanced with Honda Genuine balance weights or equivalents after the tyre is installed.
- Do not install a tube inside a tubeless tyre on this scooter. Excessive heat build-up can cause the tube to burst.
- Use only tubeless tyres on this scooter. 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 scooter 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.

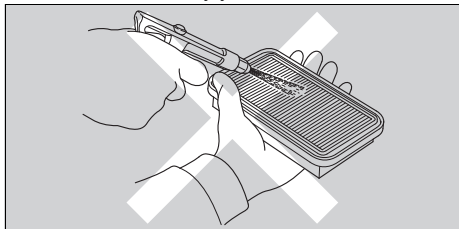
Air Cleaner

This scooter 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 Kit

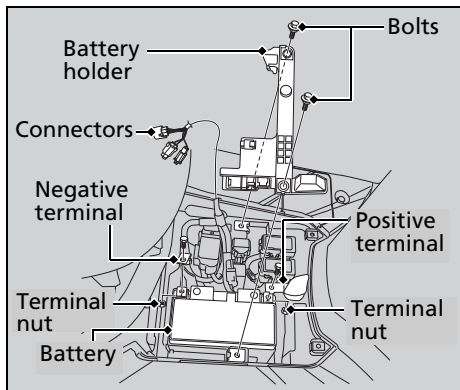
The tool kit is in the centre compartment.

➡ P. 48

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

- 10 × 12 mm Open end wrench
- 10 × 14 mm Open end wrench
- No.2 Phillips screwdriver
- No.2 screwdriver
- Screwdriver handle
- Pin spanner
- Helmet set wire
- Fuse puller
- EM mode coupler

Battery



Removal

Make sure the ignition switch is **○** (Off).

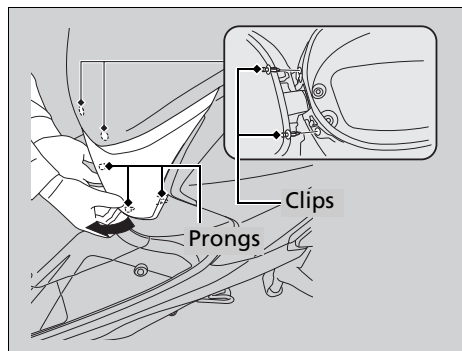
1. Remove the centre lower cover. ➤ P. 70

2. Remove the connectors from the battery holder.
3. Remove the battery holder 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 taking care not to drop the terminal nuts.

Installation

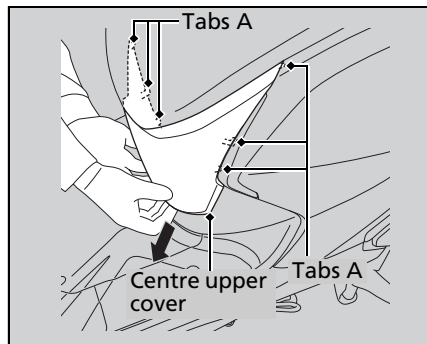
Install the parts in the reverse order of removal. Always connect the positive $\oplus$ terminal first. Make sure that bolts and nuts are tight. Make sure the clock is set to the proper time after the battery is reconnected. ➤ P. 24 For proper handling of the battery, see "Maintenance Fundamentals." ➤ P. 60 Battery Goes Dead ➤ P. 104

Centre Lower Cover

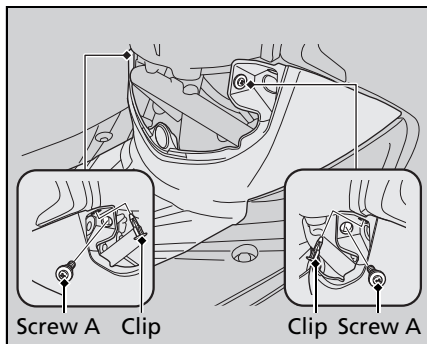


Removal

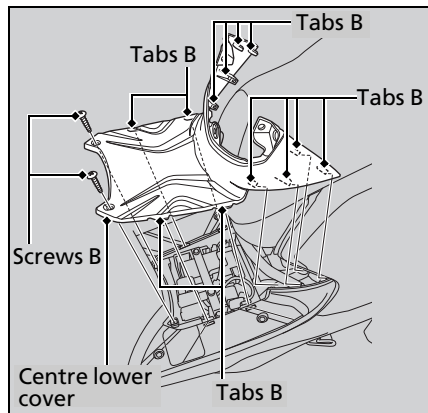
1. Open the seat. ► P. 46
2. Remove the clips. ► P. 72
3. Close the seat, but do not lock the seat.
4. Pull out the prongs on the bottom of the centre upper cover.



5. Pull down the centre upper cover for releasing the tabs A, and remove the centre upper cover.



6. Remove the screws A and clips. ► P. 72



7. Remove the centre lower cover by releasing the screws B, tabs B.

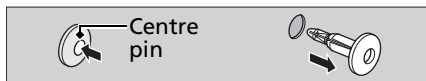
Installation

Install the parts in the reverse order of removal.

Clip

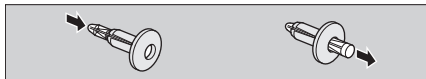
Removal

1. Press down on the centre pin to release the lock.
2. Pull the clip out of the hole.



Installation

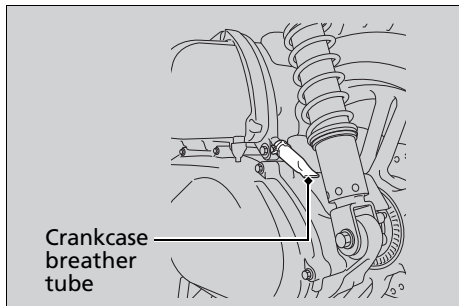
1. Push the bottom of the centre pin.



2. Insert the clip into the hole.
3. Press down on the centre pin to lock the clip.

Cleaning the Crankcase Breather

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



Checking Spark Plug

For the recommended spark plug, see "Specifications." ➤ P. 128

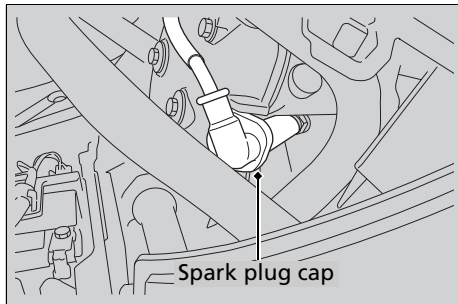
Use only the recommended type of spark plug in the recommended heat range.

NOTICE

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

1. Remove the centre lower cover. ➤ P. 70
2. Disconnect the spark plug cap.
3. Clean any dirt from around the spark plug base.

4. Remove the spark plug using a suitable spark plug wrench.

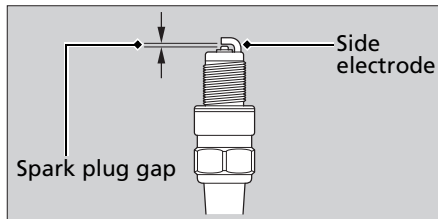


5. Inspect the electrodes and centre porcelain for deposits, erosion or carbon fouling.
 - If the erosion or deposit is heavy, replace the plug.
 - Clean a carbon or wet-fouled plug with a plug cleaner, otherwise use a wire brush.

6. Check the spark plug gap using a wiretype feeler gauge.
► If adjustment is necessary, bend the side electrode carefully.

The gap should be:

0.8 to 0.9 mm (0.03 to 0.04 in)



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

9. 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:
1/2 turn after it seats.
 - b) Then loosen the plug.
 - c) Next, tighten the plug again:
1/8 turn after it seats.

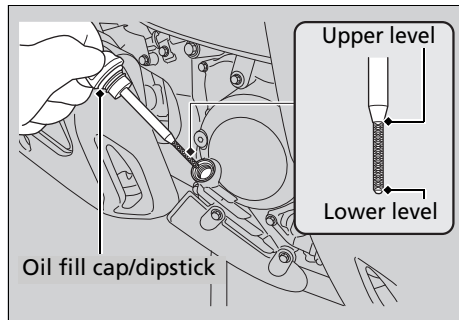
NOTICE

Improperly tightened spark 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.

10. Reinstall the spark plug cap. Take care avoid pinching any cables or wires.
11. Install the parts in the reverse order of removal.

Checking the Engine Oil

1. If the engine is cold, idle the engine for 3 to 5 minutes.
2. Turn the ignition switch **O** (Off) and wait for 2 to 3 minutes.
3. Remove the oil fill cap/dipstick and wipe it clean.
4. Place your scooter on its centre stand on a firm, level surface.
5. Insert the oil fill cap/dipstick until it seats, but don't screw it in.
Check that the oil level is between the upper level and lower level marks in the oil fill cap/dipstick.
6. Securely install the oil fill cap/dipstick.



Adding Engine Oil

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

► P. 62, 128

1. Remove the oil fill cap/dipstick. Add the recommended oil until it reaches the upper level mark.
 - Place your scooter 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/dipstick.

NOTICE

Overfilling with oil or operating with insufficient oil can cause damage to your engine. Do not mix different brands and grades of oil.

For the recommended oil and oil selection guidelines, see "Maintenance Fundamentals." ► P. 62

Changing Engine Oil & Filter

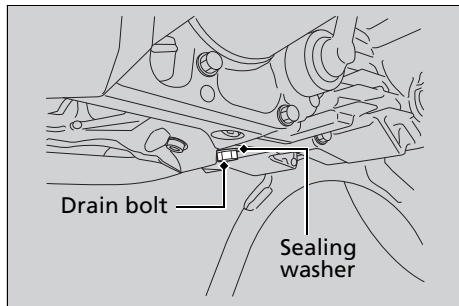
Changing the oil and filter requires special tools. We recommend that you have your scooter serviced by your dealer.

Use a new Honda Genuine oil filter or equivalent specified for your model.

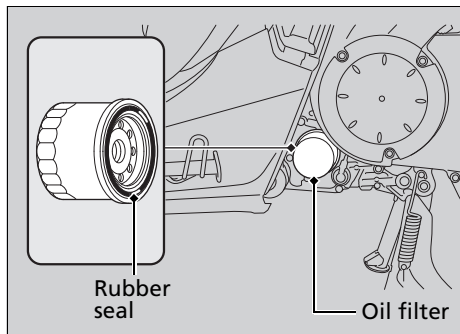
NOTICE

Using the wrong oil filter can result in serious damage to the engine.

1. If the engine is cold, idle the engine for 3 to 5 minutes.
2. Turn the ignition switch **○** (Off) and wait for 2 to 3 minutes.
3. Place your scooter on its centre stand on a firm, level surface.
4. Place a drain pan under the drain bolt.



5. Remove the oil fill cap/dipstick, drain bolt, and sealing washer to drain the oil.
6. Remove the oil filter with a filter wrench and let the remaining oil drain out. Make sure the prior seal is not stuck to the engine.
 - Discard the oil and oil filter at an approved recycling centre.



7. Apply a thin coat of engine oil to the rubber seal of a new oil filter.
8. Install the new oil filter and tighten.

Torque: 26 N·m (2.7 kgf·m, 19 lbf·ft).

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

Torque: 25 N·m (2.5 kgf·m, 18 lbf·ft)

10. Fill the crankcase with the recommended oil (► P. 62, 128) and install the oil fill cap/dipstick.

Required oil

When changing oil & engine oil filter:

1.4 litres (1.5 US qt, 1.2 Imp qt)

When changing oil only:

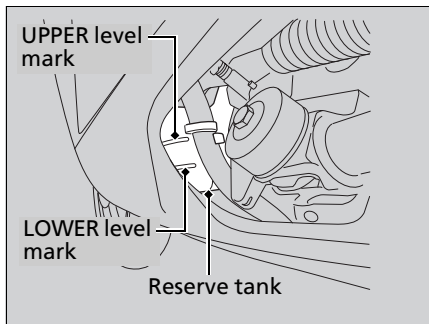
1.2 litres (1.3 US qt, 1.1 Imp qt)

11. Check the oil level. ► P. 76
12. Check that there are no oil leaks.

Checking the Coolant

Check that the coolant level in the reserve tank while the engine is cold.

1. Place your scooter on its centre stand on a firm, level surface.
2. Check that the coolant level is between the UPPER level and LOWER level marks in the reserve tank.



If the coolant level is dropping noticeably or the reserve tank is empty, you likely have a serious leak. Have your scooter inspected by your dealer.

Adding Coolant

If the coolant level is below the LOWER level mark, add the recommended coolant (P. 63) until the level reaches the UPPER level mark.

Add fluid only from the reserve tank cap and do not remove radiator cap.

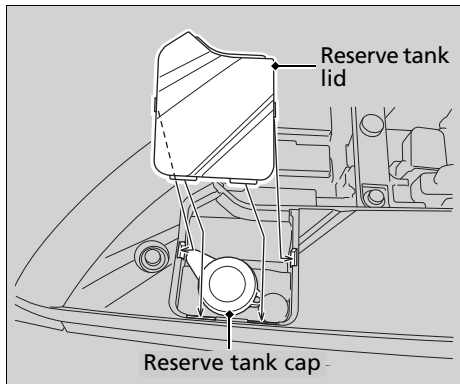
1. Remove the centre lower cover. (P. 70)
2. Remove the reserve tank lid.

3. Remove the reserve tank cap and add fluid while monitoring the coolant level.
 - Do not overfill above the UPPER level mark.
 - Make sure no foreign objects enter the reserve tank opening.
4. Securely reinstall the cap.
5. Install the parts in the reverse order of removal.

⚠ WARNING

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

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



Changing Coolant

Have your dealer change the coolant unless you have the proper tools and are mechanically qualified.

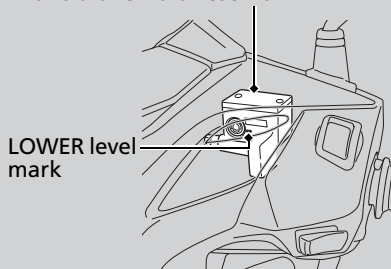
Checking Brake Fluid

1. Place your scooter 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 LOWER level mark.

If the brake fluid level in either reservoir is below the LOWER level mark or both the brake levers freeplay becomes excessive, inspect the brake pads for wear. If the brake pads are not worn, you most likely have a leak. Have your scooter inspected by your dealer.

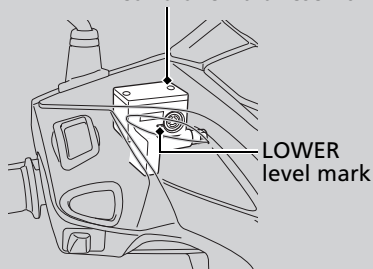
Front

Front brake fluid reservoir



Rear

Rear brake fluid reservoir

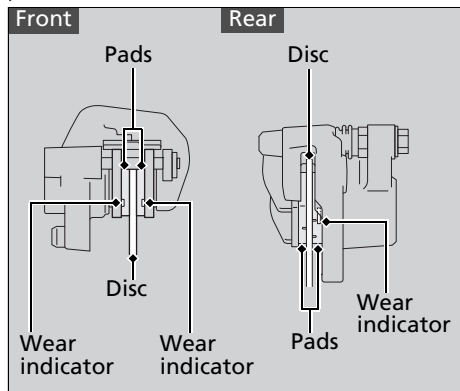


Inspecting the Brake Pads

Check the condition of the brake pad wear indicators.

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

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

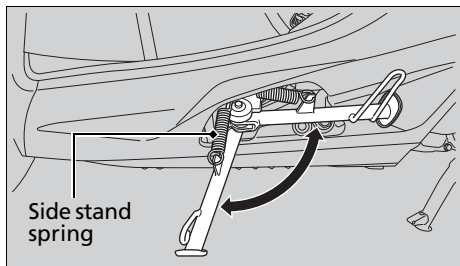


1. **Front** Inspect the brake pads from below the brake caliper.
2. **Rear** Inspect the brake pads from rear right of the scooter.

If necessary have the pads replaced by your dealer.

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

Checking the Side Stand



1. Place your scooter on its centre stand on a firm, level surface.
2. Check that the side stand operates smoothly. If the side stand is stiff or squeaky, clean the pivot area and lubricate the pivot bolt with clean grease.
3. Check the spring for damage or loss of tension.

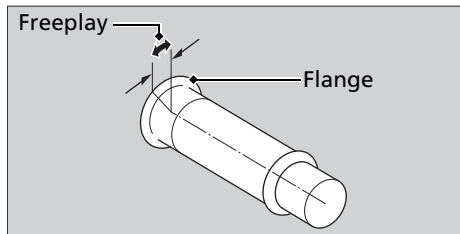
4. Sit on the scooter and raise the side stand.
5. Start the engine.
6. Lower the side stand all the way. The engine should stop as you lower the side stand. If the engine doesn't stop, have your scooter inspected by your dealer.

Checking the Throttle

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 scooter inspected by your dealer.

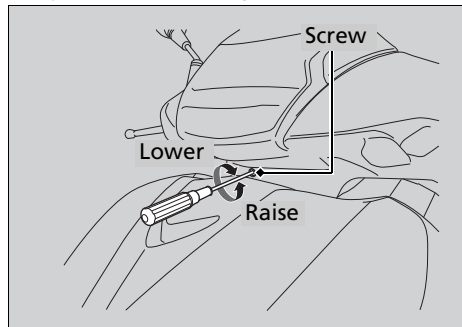
Freeplay at the throttle grip flange:

2 to 6 mm (0.1 to 0.2 in)



Adjusting the Headlight Aim

You can adjust vertical aim of the headlights for proper alignment. Turn the screw in or out as necessary using a Phillips screwdriver provided in the tool kit. ■ P. 48
Obey local laws and regulations.



Adjusting the Rear Suspension

Spring Preload

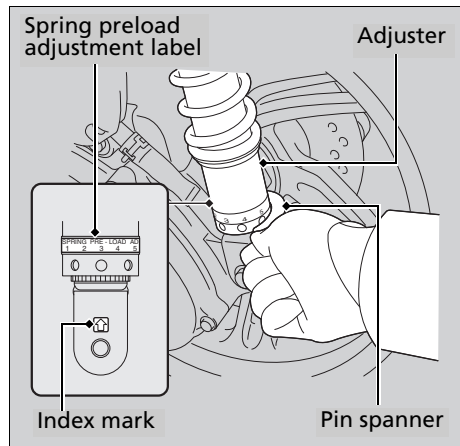
You can adjust the spring preload by the adjuster to suit the load or the road surface. Turn the adjuster using the pin spanner provided in the tool kit.

Position 1 to 2 are for a decrease spring preload (soft), or turn the position 4 to 5 increase spring preload (hard). The standard position is 3.

After adjustment, make sure the index mark aligns with number on the spring preload adjustment label.

NOTICE

Adjust both left and right shock absorbers to same spring preload.



Attempting to adjust directly from 1 to 5 or 5 to 1 may damage the shock absorber.

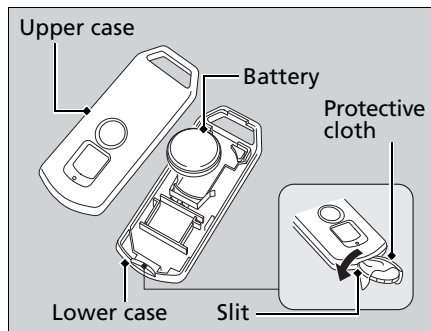
Replacing the Honda SMART Key Battery

If the Honda SMART Key indicator flashes 5 times when the ignition switch is turned **I** (On), 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.



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. 91
Overheating.....	P. 92
Warning Indicators On or Flashing	P. 93
Low Oil Pressure Indicator.....	P. 93
PGM-FI (Programmed Fuel Injection)	
Malfunction Indicator Lamp (MIL)	P. 93
ABS (Anti-lock Brake System) Indicator	P. 94
Oil Change Indicator.....	P. 95
Honda SMART Key Indicator.....	P. 96
When the Honda SMART Key System Does	
Not Operate Properly.....	P. 97

Unlock the Seat in an Emergency.....	P. 99
Unlock the Ignition Switch in an Emergency	P. 100
Tyre Puncture	P. 103
Electrical Trouble	P. 104
Battery Goes Dead	P. 104
Burned-out Light Bulb	P. 104
Blown Fuse	P. 111

Starter Motor Operates But Engine Does Not Start

Check the following items:

- Check the correct engine starting sequence. ➤ P. 40
- Check that there is petrol in the fuel tank.
- Check if the PGM-FI malfunction indicator lamp (MIL) is on.
 - ▶ If the indicator light is on, contact your dealer as soon as possible.

Starter Motor Does Not Operate

Check the following items:

- Make sure engine stop switch is in  (Run) position. ➤ P. 28
- Make sure the side stand is raised.
- Check for a blown fuse. ➤ P. 111
- Check for a loose battery connection or battery terminal corrosion. ➤ P. 60
- Check the condition of the battery.
 - P. 104

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

Overheating

The engine is overheating when the following occurs:

- Coolant temperature gauge needle enter the H (Hot) range.
- Acceleration becomes sluggish.

If this occurs, pull safely to the side of the road and perform the following procedure. Extended fast idling may cause overheating.

NOTICE

Continuing to ride with an overheated engine can cause serious damage to the engine.

1. Stop the engine using the ignition switch, and then turn the ignition switch to the **I** (On) position.
2. Check that the radiator fan is operating, and then turn the ignition switch to the **O** (Off) position.

If the fan is not operating:

Suspect a fault. Do not start the engine. Transport your scooter to your dealer.

If the fan is operating:

Allow the engine to cool with the ignition switch in the **O** (Off) position.

3. After the engine has cooled, inspect the radiator hose and check if there is a leak.

➡ P. 80

If there is a leak:

Do not start the engine. Transport your scooter to your dealer.

4. Check the coolant level in the reserve tank, and add coolant as necessary.
➡ P. 80
5. If 1–4 check normal, you may continue riding, but closely monitor the high coolant temperature gauge.

Low Oil Pressure Indicator

If the low oil pressure indicator comes on, pull safely to the side of the road and stop the engine.

NOTICE

Continuing to ride with low oil pressure can cause serious damage to the engine.

1. Check the engine oil level, and add oil as necessary. ➤ P. 76, 77
2. Start the engine.
 - ▶ Only continue riding if the low oil pressure indicator goes off.

Rapid acceleration may momentarily cause the low oil pressure indicator to come on, especially if the oil is at or near the low level. If the low oil pressure indicator stays on when the oil level is at the proper level, stop the engine and contact your dealer.

If the engine oil level goes down rapidly, your scooter may have a leak or another serious problem. Have your scooter inspected by your dealer.

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 scooter inspected by your dealer as soon as possible.

ABS (Anti-lock Brake System) Indicator

If the indicator operates in one of the following ways, you may have a serious problem with the brake system. Reduce your speed and have your scooter 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 come on if you turn the rear wheel while your scooter is lifted off the ground. In this case, turn the ignition switch **O** (Off) and then **I** (On) again. The ABS indicator will go off after your speed reaches 30 km/h (19 mph).

Oil Change Indicator

ED type

The indicator comes on when the riding distance reaches the programmed oil change intervals, at the initial 1,000 km and every 12,000 km after resetting the indicator, to indicate the time for the engine oil to be changed.

Change the engine oil (► P. 78) and reset the indicator after each oil change. ► P. 21

The indicator does not go off until it is reset.

If the indicator is reset before the initial 1,000 km oil change indicator comes on, the initial 1,000 km oil change indicator does not come on.

E type

The indicator comes on when the riding distance reaches the programmed oil change intervals, at the initial 600 mile (960 km) and every 8,000 mile (12,800 km) after resetting the indicator, to indicate the time for the engine oil to be changed.

Change the engine oil (► P. 78) and reset the indicator after each oil change. ► P. 21

The indicator does not go off until it is reset.

If the indicator is reset before the initial 600 mile (960 km) oil change indicator comes on, the initial 600 mile (960 km) oil change indicator does not come on.

Honda SMART Key Indicator

When the Honda SMART Key indicator flashes 5 times

Replacing the Honda SMART Key Battery

📖 P. 88

When the Honda SMART Key indicator is flashing while the ignition switch is on

The Honda SMART Key indicator flashes when communication between the your scooter and Honda SMART Key stops after turning on the ignition switch.

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 scooter until the ignition switch is locked.

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

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

If you do not have the Honda SMART Key, the ignition switch can be unlocked by using the emergency key and the ID tag. 📖 P. 100

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. 33

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 an 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 emergency key and ID tag to your dealer.

- Check the battery condition and battery lead in your scooter.
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 Seat in an Emergency

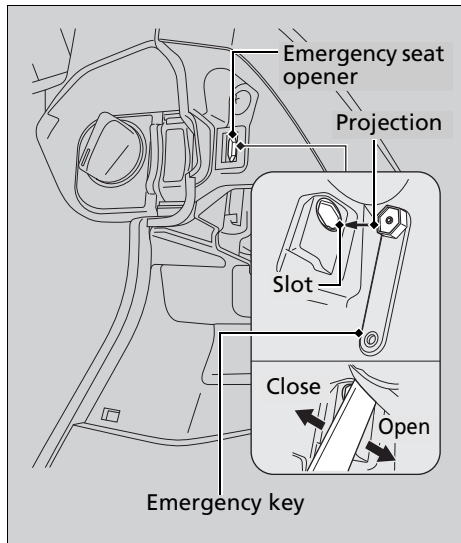
The seat lock can be unlocked by using the emergency key.

Open

1. Remove the bulb maintenance lid. P. 107
2. Align the projection of the emergency key with the slot of the emergency seat opener, and turn the emergency key counterclockwise.
3. Open the seat and turn the emergency key clockwise.

Close

1. Close and push down on the rear of the seat until it locks. Make sure that the seat is locked securely by pulling it up lightly. If the seat is not locked, turn the emergency key clockwise to lock the seat catch.
2. Install the bulb maintenance lid.

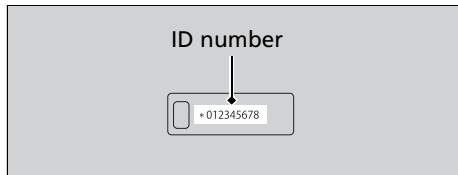
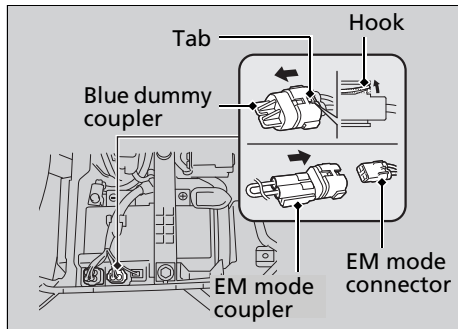


Unlock the Ignition Switch in an Emergency

The ignition switch can be unlocked by using the emergency key and the ID tag.

Set up to ID number input mode

1. Use the emergency key to open the seat. (P. 99)
2. Remove the centre lower cover. (P. 70)
3. Pull out the EM mode connector from the battery holder.
4. Remove the blue dummy coupler by releasing the tab of the EM mode connector while lifting the hook of the blue dummy coupler.
5. Check the ID number on the ID tag.
6. Connect the EM mode coupler provided in the tool kit to the EM mode connector.
 - Do not connect the EM mode coupler except when in the ID number input mode.



ID number input

You can input your ID number by pressing the ignition switch when the ignition switch is  (Off),  (LOCK) and SEAT 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.

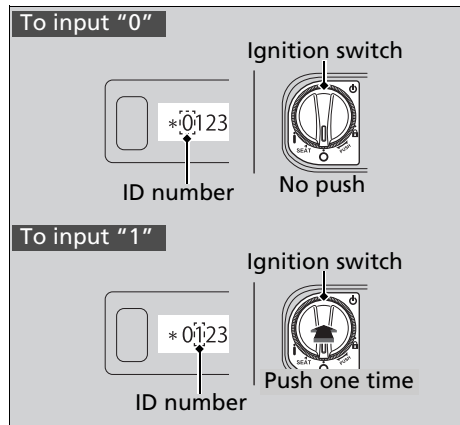
► If the ignition switch ring does not come on in blue, the battery may be low.

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.



Unlock the Ignition Switch in an Emergency

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. 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 SEAT, **O** (Off), or **L** (LOCK) position, and press and hold the ignition switch for 2 seconds. The ignition switch also locks automatically when the ignition switch has been in the SEAT, **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.

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. 101

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 in the tool kit 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 scooter 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 scooter 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.

Battery Goes Dead

Charge the battery using a motorcycle battery charger.

Remove the battery from the scooter before charging.

Do not use an automobile-type battery charger, as these can overheat a scooter battery and cause permanent damage.

If the battery does not recover after recharging, contact your dealer.

NOTICE

Jump starting using an automobile battery is not recommended, as this can damage your scooter's electrical system.

Burned-out Light Bulb

Follow the procedure below to replace a burned-out light bulb.

Turn the ignition switch to the ○ (Off) or  (LOCK) position.

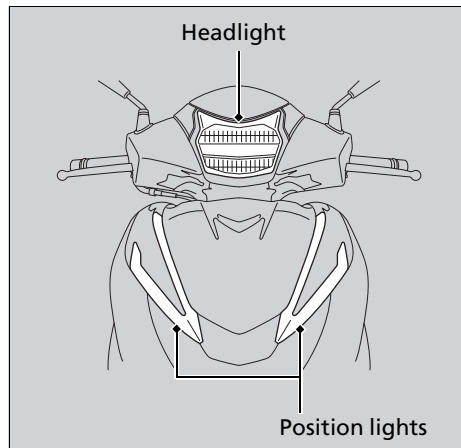
Allow the bulb to cool before replacing it.

Do not use bulbs other than those specified.

Check the replacement bulb for correct operation before riding.

For the light bulb wattage, see “Specifications.” ➡ P. 129

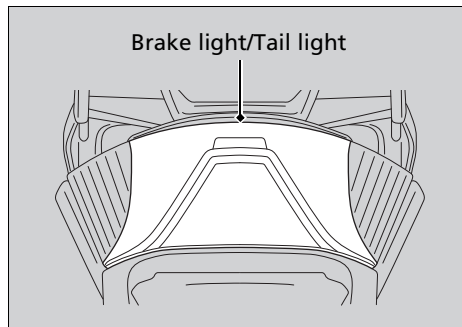
Headlight/Position Lights



The headlight/position lights use several LEDs.

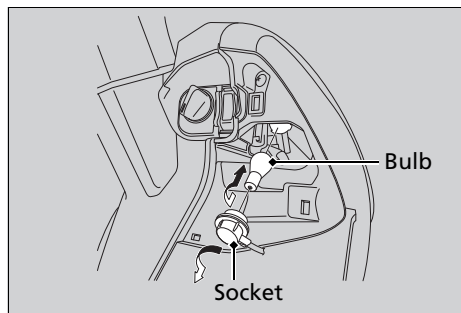
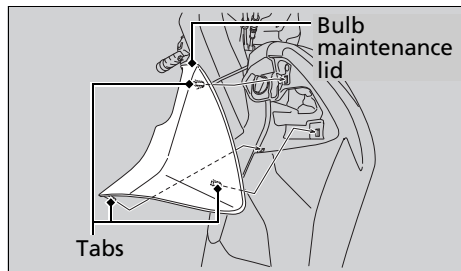
If there is a LED which is not turned on, see your dealer for servicing.

■ Brake Light/Tail Light



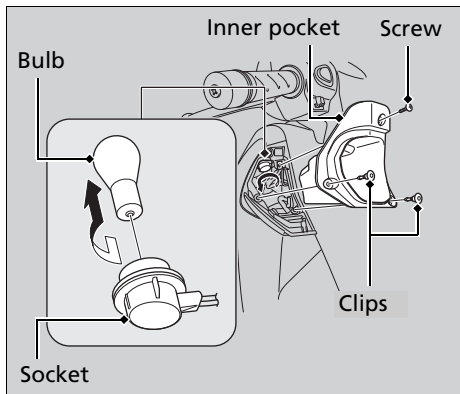
The brake and tail light use several LEDs. If there is a LED which is not turned on, see your dealer for servicing.

Right Front Turn Signal Bulb



1. Remove the bulb maintenance lid by releasing the tabs.
2. Turn the socket counterclockwise and pull it out.
3. Slightly press the bulb in and turn it counterclockwise.
4. Install a new bulb and parts in the reverse order of removal.
► Use only the amber bulb.

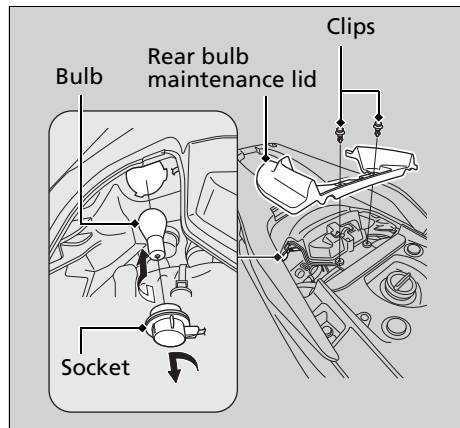
Left Front Turn Signal Bulb



1. Open the front box lid. ■ P. 49
2. Remove the inner pocket by removing the screw and clips. ■ P. 72
3. Turn the socket counterclockwise and pull it out.
4. Slightly press the bulb in and turn it counterclockwise.
5. Install a new bulb and parts in the reverse order of removal.
► Use only the amber bulb.

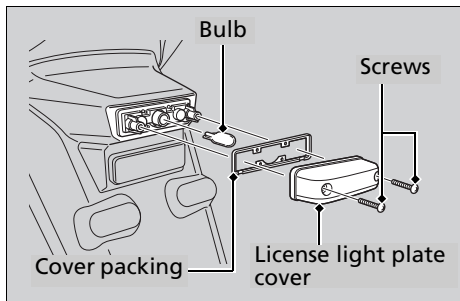
Rear Turn Signal Bulb

The right and left rear turn signal bulbs can be removed in the same manner.



1. Open the seat. ► P. 46
2. Remove the rear bulb maintenance lid by removing the clips. ► P. 72
3. Turn the socket counterclockwise and pull it out.
4. Slightly press the bulb in and turn it counterclockwise.
5. Install a new bulb and parts in the reverse order of removal.
► Use only the amber bulb.

License Plate Light Bulb

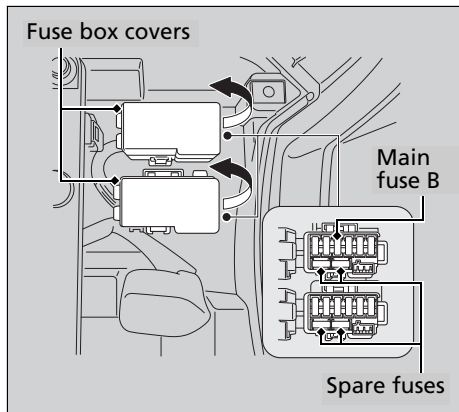


1. Remove the screws, license light plate cover and cover packing.
2. Pull out the bulb without turning.
3. Install a new bulb and reinstall the parts in the reverse order of removal.

Blown Fuse

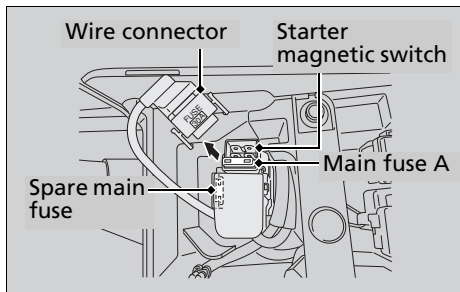
Before handling fuses, see "Inspecting and Replacing Fuses." ► P. 61

■ Fuse Box Fuses & Main Fuse B



1. Remove the centre lower cover. ► P. 70
2. Open the fuse box covers.
3. Pull the main fuse B and other fuses out one by one with the fuse puller in the tool kit and check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.
4. Reinstall the fuse box covers.
5. Reinstall parts in the reverse order of removal.

I Main fuse A



1. Remove the centre lower cover. ► P. 70
2. Disconnect the wire connector of the starter magnetic switch.
3. Pull the main fuse A out and check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.
 - Spare main fuse is provided in the starter magnetic switch.

4. Reinstall the parts in the reverse order of removal.

NOTICE

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

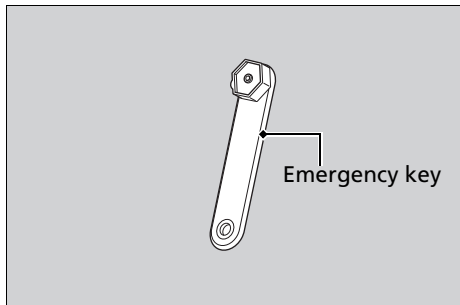
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Keys

Emergency Key

The emergency key is used to unlock the ignition switch in for an emergency.  P. 100
Do not store the emergency key in the centre compartment.



Honda SMART Key

Carrying the Honda SMART Key allows you to lock or unlock the ignition switch, and to release the seat lock, and to lock or unlock 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 both the emergency key and 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 scooter.

The Honda SMART Key contains electronic circuits that are activated by the Honda SMART Key system. If the circuits are damaged, the Honda SMART Key will not start the engine, release the ignition switch, open the seat or lock or unlock the steering.

- 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 scooter while washing the scooter.
- 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 emergency key and 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 luggage box. The radio frequency from the devices will interrupt the Honda SMART Key system.

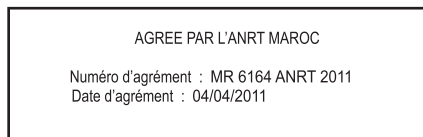
To get add additional Honda SMART Key, take the Honda SMART Key and the scooter to your dealer.

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.

South Africa only**Singapore only****Morocco only**

Instruments, Controls, & Other Features

Ignition Switch

The headlight is always on when ignition switch is **I** (On). Leaving the ignition switch **I** (On) with the engine stopped will drain the battery.

Do not turn the ignition switch while riding.

Engine Stop Switch

Do not use the engine stop switch except in an emergency. Doing so when riding will cause the engine to suddenly turn off, making riding unsafe.

If you stop the engine using the engine stop switch, turn the ignition switch **O** (Off). Failing to do so will drain the battery.

Odometer

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

Tripmeter

The tripmeter A and B return to 0.0 when the read-out exceeds 999.9.

Document Bag

The owner's manual, registration, and insurance information can be stored in the plastic document bag in the centre compartment.

Ignition Cut-off System

A banking (lean angle) sensor automatically stops the engine and fuel pump if the scooter falls over. To reset the sensor, you must turn the ignition switch to **O** (Off) and back to the **I** (On) position before the engine can be restarted.

Caring for Your Scooter

Frequent cleaning and polishing is important to ensure the life of your Honda. A clean scooter 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 scooter thoroughly after riding on coastal or treated roads.

Washing

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

1. Rinse your scooter thoroughly using a 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 scooter with plenty of clean water and dry with a soft, clean cloth.
4. After the scooter 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. 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 scooter.
 - Keep the wax clear of the tyres and brakes.
 - If your scooter has any mat painted parts, do not apply a coat of wax to the mat painted surface.

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 under the seat:
 - ▶ Water in the under seat compartment 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 headlights:
 - ▶ Any condensation inside the headlights should dissipate after a few minutes of running the engine.
- 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.

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 headlights.

Exhaust Pipe and Muffler

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

When the exhaust pipe and muffler are painted, do not use a commercially available abrasive kitchen cleaning compound. Use a neutral detergent to clean the painted surface on the exhaust pipe and muffler. If you are not sure if your exhaust pipe and muffler are painted, contact your dealer.

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 Scooter

If you store your scooter 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 scooter and wax all painted surfaces (except mat painted surfaces). Coat chrome pieces with rust-inhibiting oil.
- Place your scooter 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 scooter to dry.
- Remove the battery (➡ P. 69) to prevent discharge.
Charge the battery in a shaded, well-ventilated area.
 - ▶ If you leave the battery in place, disconnect the negative ⊖ terminal to prevent discharge.

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

Transporting Your Scooter

If your scooter 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 scooter with a wheel or wheels on the ground.

NOTICE

Towing your scooter can cause serious damage to the transmission.

You & the Environment

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

Choose Sensible Cleaners

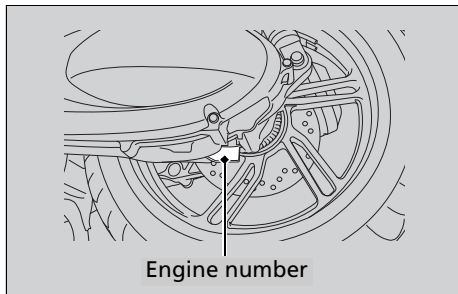
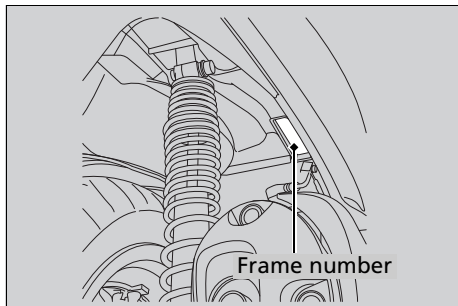
Use a biodegradable detergent when you wash your scooter. Avoid aerosol spray cleaners that contain chlorofluorocarbons (CFCs) which damage the atmosphere's protective ozone layer.

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, coolant, and cleaning solvents contain poisons that can hurt refuse workers and contaminate drinking water, lakes, rivers, and oceans.

Serial Numbers

The frame and engine serial numbers uniquely identify your scooter and are required in order to register your scooter. They may also be required when ordering replacement parts. The frame number is stamped on the underside of the right side of the rear frame. The engine number is stamped on the left side of the crankcase. You should record these numbers and keep them in a safe place.



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 scooter:

- 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

This scooter is equipped with a three-way catalytic converter. The 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.

Follow these guidelines to protect your scooter's catalytic converter.

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

Specifications

■ Main Components

Type	NF05
Overall length	2,130 mm (83.9 in)
Overall width	730 mm (28.7 in)
Overall height	1,195 mm (47.0 in)
Wheelbase	1,440 mm (56.7 in)
Minimum ground clearance	130 mm (5.1 in)
Caster angle	27° 30'
Trail	98 mm (3.9 in)
Curb weight	169 kg (373 lb)
Maximum weight capacity*1	180 kg (397 lb)
Maximum luggage weight	19 kg (42 lb)
	Centre compartment 10 kg (22 lb)
	Front box 0.5 kg (1.0 lb)
	shopping hook 1.5 kg (3.3 lb)
	Rear carrier 3.0 kg (6.6 lb)
Passenger capacity	Rider and 1 passenger
Minimum turning radius	2.2 m (7.22 ft)

*1 Including rider, passenger, all luggage, and accessories

Displacement	279 cm ³ (17.0 cu-in)
Bore x stroke	72.0 x 68.6 mm (2.83 x 2.70 in)
Compression ratio	10.5:1
Fuel	Unleaded petrol Recommended: 91 RON or higher
Fuel containing alcohol	ETHANOL up to 10 % by volume
Tank capacity	9.1 litres (2.40 US gal, 2.00 Imp gal)
Battery	YTZ12S
	12V-11Ah (10 HR)/11.6Ah (20 HR)
	FTZ12S
	12V-10Ah (10 HR)/11.6Ah (20 HR)
Primary reduction	CVT (2.350:1-0.800:1)
Final reduction	8.571

Specifications

■ Service Data

Tyre size	Front	110/70-16M/C 52S
	Rear	130/70R16M/C 61S
Tyre type	Front	Bias-ply, tubeless
	Rear	Radial, tubeless
Recommended Tyres	Front	BRIDGESTONE BATTLAX BT45F G METZELER FEELFREE FRONT
	Rear	BRIDGESTONE BT012R RADIAL G METZELER FEELFREE
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	250 kPa (2.50 kgf/cm ² , 36 psi)
Minimum tread depth	Front	1.5 mm (0.06 in)
	Rear	2.0 mm (0.08 in)
Spark plug	(standard)	LMAR8A-9 (NGK)
Spark plug gap		0.8 to 0.9 mm (0.03 to 0.04 in)
Idle speed		1,500 ± 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 MB

Engine oil capacity	After draining	1.2 litres (1.3 US qt, 1.1 Imp qt)
	After draining & engine oil filter change	1.4 litres (1.5 US qt, 1.2 Imp qt)
	After disassembly	1.7 litres (1.8 US qt, 1.5 Imp qt)
Transmission oil capacity	After draining	0.28 litres (0.30 US qt, 0.25 Imp qt)
	After disassembly	0.30 litres (0.32 US qt, 0.26 Imp qt)
Recommended brake fluid	Honda DOT 4 Brake Fluid	
Cooling system capacity	1.28 litres (1.35 US qt, 1.13 Imp qt)	
Recommended coolant	Pro Honda HP Coolant	

■ Bulbs

Headlights	LED
Position lights	LED
Brake/Tail light	LED
Front turn signal lights	12V-21W x 2
Rear turn signal lights	12V-21W x 2
License plate light	12V-5W

■ Fuses

Main fuse A	30A
Main fuse B	20A
Other fuses	30A, 20A, 10A, 5A

■ Torque Specifications

Oil filter	26 N·m (2.7 kgf·m, 19 lbf·ft)
Engine oil drain bolt	25 N·m (2.5 kgf·m, 18 lbf·ft)

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The Power of Dreams



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