CB1000F

OWNER'S MANUAL

HONDA

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

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Welcome

Congratulations on your purchase of a new Honda vehicle. 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 vehicle.

- The following codes in this manual indicate each destination.
- The illustrations here in are based on the CB1000S ED type.

Destination Codes

Code CB1000S	Destination
ED, II ED	European direct sales, U.K., Israel, Gibraltar, Serbia, New Zealand
FO, II FO	Taiwan
KO, II KO	Korea

*The specifications may vary with each locale.

A Few Words About Safety

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

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

- Safety labels on the vehicle.
- 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 title:

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

Contents

Vehicle Safety P. 2

Operation Guide P. 20

Maintenance P. 106

Troubleshooting P. 153

Information P. 174

Specifications P. 198

Vehicle Safety

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

Safety Guidelines ..... P. 3
Image Labels ..... P. 7
Safety Precautions ..... P. 12
Riding Precautions ..... P. 13
Accessories & Modifications ..... P. 18
Loading ..... P. 19

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 flames 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. Always wear an approved helmet and protective apparel.
➔P. 12

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 helmet and protective apparel. Instruct your passenger on holding onto the seat strap or your waist, leaning with you in turns, and keeping their feet on the footpegs, even when the vehicle is stopped.

Take Time to Learn & Practice

Even if you have ridden other vehicles, practice riding in a safe area to become familiar with how this vehicle works and handles, and to become accustomed to the vehicle'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 or Use Drugs and Ride

Alcohol or drugs 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. The same is true for drug use. Don't drink or use and ride, and don't let your friends do it either.

Keep Your Honda in Safe Condition

It's important to keep your vehicle properly maintained and in safe riding condition. Inspect your vehicle before every ride and perform all recommended maintenance. Never exceed load limits (P. 19), and do not modify your vehicle or install accessories that would make your vehicle unsafe (P. 18).

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 turn the ignition switch to the O (Off) position, and evaluate the condition of your vehicle. 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 vehicle may have suffered damage that is not immediately apparent. Have your vehicle thoroughly checked at a qualified service facility as soon as possible.

Continued

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

Never run your vehicle inside a garage or other enclosure.

⚠WARNING

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

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

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

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 vehicle 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.

sample



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 vehicle.
- Do not use a battery with the electrolyte at or below the lower level mark. It can explode causing serious injury.
- Do not knock down the battery.
- Do not put in short the terminals of the battery.



RADIATOR CAP LABEL
DANGER

Except KO, II KO type

NEVER OPEN WHEN HOT.
Hot coolant will scald you.
Relief pressure valve begins to open at **108 kPa**.



ACCESSORIES AND LOADING WARNING LABEL
WARNING

ED, II ED type

ACCESSORIES AND LOADING

- The safety stability and handling of this vehicle 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 **184 kg (406 lb)**, which is the maximum weight capacity.
- The luggage weight must not exceed **14 kg (31 lb)** under any circumstances.
- The fitting of large fork-mounted or large handlebar mounted fairing is not recommended.

Continued



REAR CUSHION LABEL

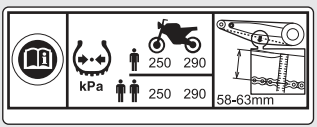
Except KO, II KO type

GAS FILLED

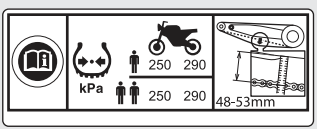
Do not open. Do not heat.

TYRE INFORMATION & DRIVE CHAIN LABEL

ED, II ED type



FO, II FO type



Cold tyre pressure:

[Driver only]

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

Rear **290 kPa (2.90 kgf/cm², 42 psi)**

[Driver and passenger]

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

Rear **290 kPa (2.90 kgf/cm², 42 psi)**

ED, II ED type

Keep chain adjusted and lubricated.

Freeplay **58 - 63 mm (2.3 - 2.5 in)**

FO, II FO type

Keep chain adjusted and lubricated.

Freeplay **48 - 53 mm (1.9 - 2.1 in)**

ED, II ED type



FO, II FO type



SAFETY REMINDER LABEL

For your protection, always wear helmet, protective apparel.

FUEL LABEL

Unleaded petrol only

ETHANOL up to 10 % by volume

ED, II ED type

Research Octane Number (RON) 95 or higher

Safety Precautions

- Ride cautiously and keep your hands on the handlebar and feet on the footpegs.
- Instruct your passenger to keep their hands on the seat strap or your waist and their 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 helmet, eye protection, and high-visibility protective clothing. Avoid wearing loose clothes that could get caught on any part of the vehicle. Ride defensively in response to weather and road conditions.

Helmet

Should be safety-standard certified, high-visibility, and the 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 vehicle's future reliability and performance.

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

Continued

Brakes

Observe the following guidelines:

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

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. The ABS functions with information provided by the IMU (Inertial Measurement Unit).

- 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 front/rear tyres and sprockets to ensure correct ABS operation.

Engine Braking

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

Wet or Rainy Conditions

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

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

Parking

- Park on a firm, level surface.
- If you must park on a slight incline or loose surface, park so that the vehicle 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. 81) and leave your vehicle while taking the Honda SMART Key with you. Deactivate the Honda SMART Key system if necessary. P. 76

  Use of an anti-theft device is also recommended.

Parking with the Side Stand

1. Stop the engine.
2. Push the side stand down.
3. Slowly lean the vehicle to the left until its weight rests on the side stand.
4. Turn the handlebar fully to the left.
   ▶ Turning the handlebar to the right reduces stability and may cause the vehicle to fall.
5. Turn the ignition switch to the (Lock) position (P. 74) and lock the ignition switch (P. 81).

Refuelling and Fuel Guidelines

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

- Use only unleaded petrol.
- Use the recommended octane number. Using lower octane petrol will result in decreased engine performance.
- Do not use fuels containing a high concentration of alcohol. P. 196
- Do not use stale or contaminated petrol or an oil/petrol mixture.
- Avoid getting dirt or water in the fuel tank.

Honda Selectable Torque Control

When the Honda Selectable Torque Control (Torque Control) detects rear wheel spin during acceleration, the system will limit the amount of torque applied to the rear wheel based on the Torque Control level selected.

Torque Control will allow some wheel spin during acceleration at the lower Torque Control setting levels. Select a level that is appropriate for your skill and riding conditions.

Torque Control does not work during deceleration and will not prevent the rear wheel from skidding due to engine braking. Do not close the throttle suddenly, especially when riding on slippery surfaces.

Torque Control may not compensate for rough road conditions or rapid throttle operation. Always consider road and weather conditions, as well as your skills and condition, when applying throttle.
If your vehicle gets stuck in mud, snow, or sand, it may be easier to free it by turning off the Torque Control temporarily.
Temporarily turning off Torque Control also may help you maintain control and balance when riding on off-road terrain.

Always use the recommended tyres and sprockets to ensure correct Torque Control operation.

Accessories & Modifications

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

Loading

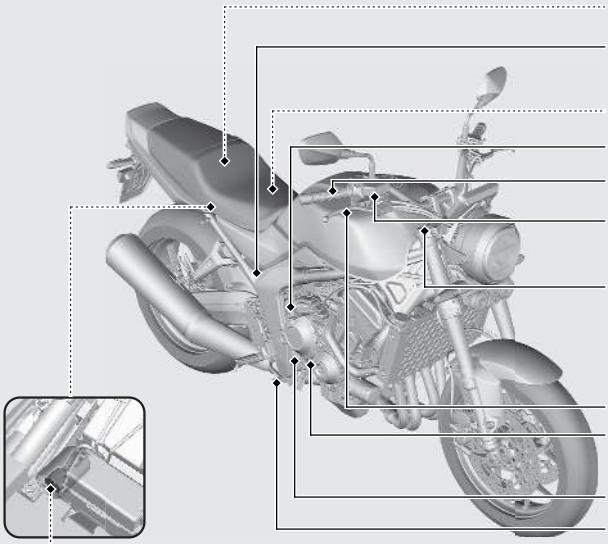
- Carrying extra weight affects your vehicle's handling, braking, and stability.
  Always ride at a safe speed and never exceed 130 km/h (80 mph) for the load you are carrying.
- Avoid carrying an excessive load and keep within specified load limits.
  Maximum weight capacity/Maximum luggage weight P. 198
- Tie all luggage securely, evenly balanced, and close to the centre of the vehicle.
- 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



Document bag P.105

Rear brake fluid reservoir P.133

Fuse box P.172

Engine oil fill cap P.129

Throttle grip P.143

Front brake fluid reservoir P.133

Front suspension rebound damping/compression damping adjuster P.146 P.147

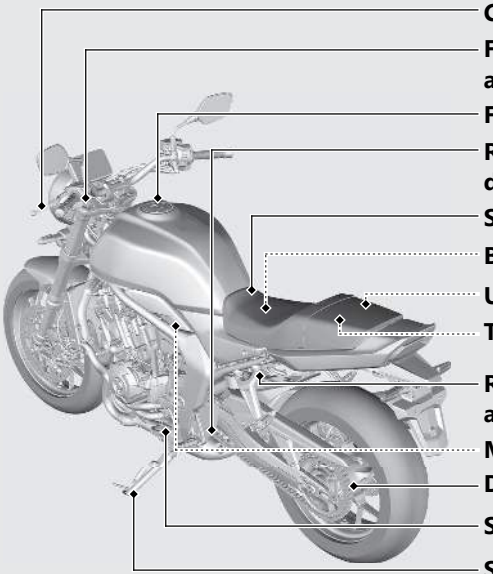
Front brake lever P.144

Engine oil level gauge P.129

Coolant reserve tank P.131

Rear brake pedal

Data link connector

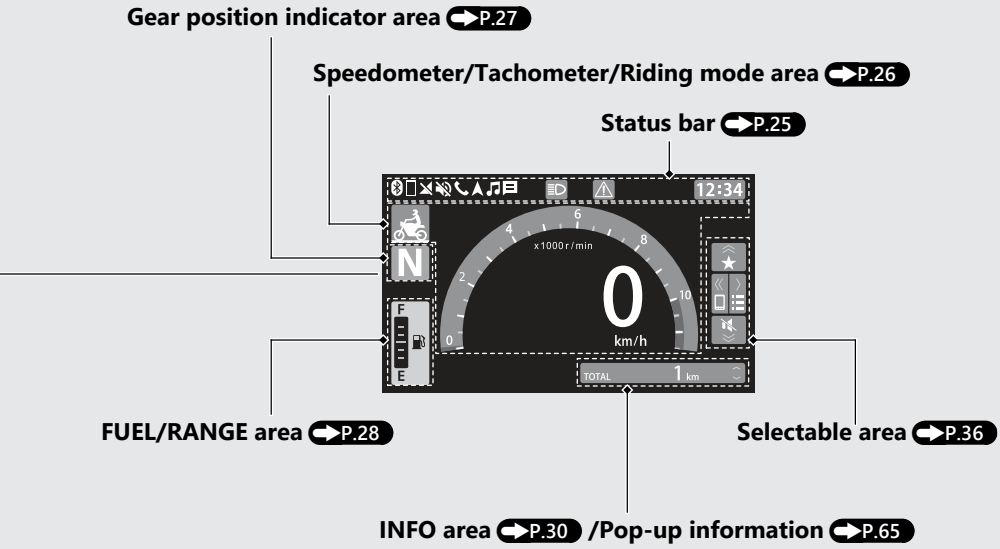


Clutch lever P.140
Front suspension spring preload adjuster P.145
Fuel fill cap P.101
Rear suspension rebound damping adjuster P.149
Seat P.127
Battery P.124
USB Socket P.102
Tool kit P.105
Rear suspension spring preload adjuster P.148
Main fuse/ABS fuse P.173
Drive chain P.137
Shift pedal P.98
Side stand P.136

Instruments



Do not operate the display functions for a long time with the engine stopped. It may result in a low (or dead) battery.


Gear position indicator area P.27
Speedometer/Tachometer/Riding mode area P.26
Status bar P.25
12:34
N
x1000r/min
0
km/h
F
E
TOTAL
1km
FUEL/RANGE area P.28
Selectable area P.36
INFO area P.30 /Pop-up information P.65

Instruments *(Continued)*

The meter has three display types.

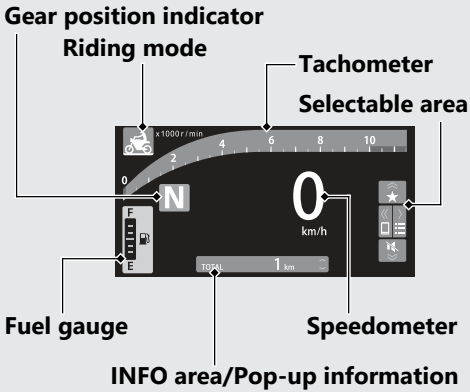
The display and arrangement change depending on each display type.

Initial setting is CIRCLE.

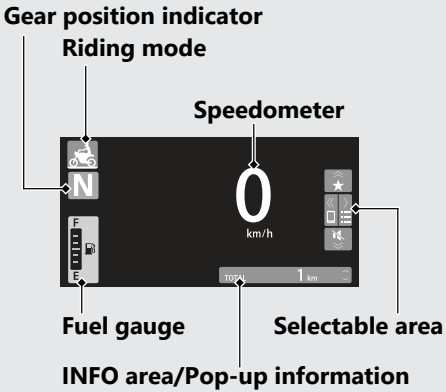
▶ Tachometer is available when display type is BAR or CIRCLE.

To change the display type: P.50

Display type: BAR



Display type: SIMPLE



Status bar



Status icons
Displays the Honda RoadSync status. P.85

Warning indicator
Comes on when your vehicle has warning information.
Also it is displayed as pop-up information in the INFO area.
P.65

High beam indicator

Clock (12-hour or 24-hour display)
To set the clock: P.55

Instruments *(Continued)*

Speedometer/Tachometer/Riding mode area

Display type: CIRCLE

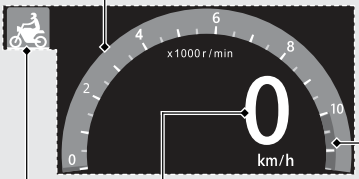
Tachometer

Tachometer is available when display type is BAR or CIRCLE.
The tachometer colour changes when the engine revolutions exceed the set value of SHIFT POINT.
You can turn on/off this function.

SHIFT POINT setting: P.48

DISPLAY TYPE setting: P.50

NOTICE
Do not operate the engine in the tachometer red zone. Excessive engine speed can adversely affect engine life.



Tachometer red zone
(excessive engine rpm range)

Speedometer

Riding mode P.90
Displays current riding mode.

Gear position indicator area



Gear position indicator

The gear position is shown in the gear position indicator.

► "-" appears when the transmission is not shifted properly.

Instruments *(Continued)*

FUEL/RANGE area

This area has two information.

You can choose whether to display the FUEL (fuel gauge) or RANGE (available driving distance).

To change the FUEL mode: P.39

FUEL



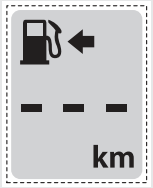
When remaining fuel is below approximately 3.0 L (0.79 US gal, 0.66 Imp gal), FUEL is automatically switched to RANGE. P.29

If the fuel gauge indicator flashes in a repeat pattern or turns off: P.161

NOTICE

You should refuel when the reading approaches the 1st (E) segment. Running out of fuel can cause the engine to misfire, damaging the catalytic converter.

RANGE



Displays the estimated distance you can travel on the remaining fuel. The indicated available driving distance is calculated based on driving conditions, and the indicated figure may not always be the actual allowable distance.

Display range: 999 to 5 km (999 to 3 mile)

- Initial display: "---" is displayed.
- Above 999 km (mile): "999" is displayed.
- When the available driving distance is below 5 km (3 mile) or remaining fuel is below 1.0 L (0.26 US gal, 0.22 Imp gal), "---" is displayed.

When "---" is displayed except for the above-mentioned cases, go to your dealer for service.

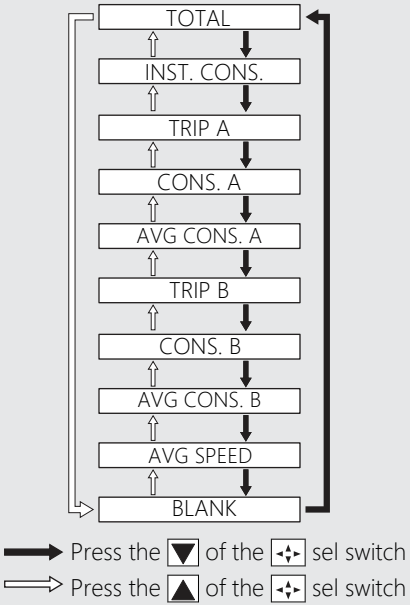
Instruments *(Continued)*

Multi-information display

INFO area

Pressing the ▲ or ▼ of the sel switch switches between the information display selected in the FAVORITE INFO setting.

FAVORITE INFO setting: P.53



You can select from below items as display information.
If no item is selected, the INFO area is not displayed.

- Odometer [TOTAL]
- Current fuel mileage [INST. CONS.]
- Tripmeter A [TRIP A]
- Tripmeter A fuel consumption [CONS. A]
- Tripmeter A average fuel mileage [AVG CONS. A]
- Tripmeter B [TRIP B]
- Tripmeter B fuel consumption [CONS. B]
- Tripmeter B average fuel mileage [AVG CONS. B]
- Average speed [AVG SPEED]
- BLANK display

Odometer [TOTAL]

Total distance ridden.



When "------" is displayed, go to your dealer for service.

Instruments *(Continued)*

Current fuel mileage [INST. CONS.]

Displays the current instant fuel mileage.

Display range: 0 to 8 L/100 km
(0 to 40 km/L,
0 to 100 mile/gal,
or 0 to 25 mile/L)

"mile/gal" is for ED, II ED type only.

- When your speed is less than 5 km/h (3 mph): zero segment is displayed.



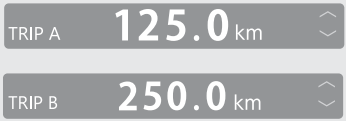
Zero segment



When it is not displayed properly except for the above-mentioned case, go to your dealer for service.

Tripmeter [TRIP A/B]

Distance ridden since tripmeter was reset.



When "----.-" is displayed, go to your dealer for service.

To reset the tripmeter: P.40

Fuel consumption [CONS. A/B]

Displays the fuel consumption since the selected tripmeter was reset.

The fuel consumption will be calculated based on value of the tripmeter A or B.

- Display range: 0.0 to 299.9 L (gal)
- When the tripmeter A or B is reset: "0.0" is displayed.

"gal" is for ED, II ED type only.



When "---.-" is displayed, go to your dealer for service.

To reset the fuel consumption: P.40

Average fuel mileage [AVG CONS. A/B]

Displays the average fuel mileage since the selected tripmeter was reset.
The average fuel mileage will be calculated based on value of the tripmeter A or B.



Display range: 0.0 to 299.9 L/100 km (km/L, mile/gal, or mile/L)

"mile/gal" is for ED, II ED type only.

- Above 299.9 L/100km : "---.-" is displayed.
- Less than 0.1 L/100km : "0.0" is displayed.
- More than 299.9 km/L (mile/gal or mile/L): "299.9" is displayed.
- When the tripmeter A or B is reset: "---.-" is displayed.

When "---.-" is displayed except for the above-mentioned cases, go to your dealer for service.

To reset the average fuel mileage:
P.40

Average speed [AVG SPEED]

Displays the average speed since when the engine starts.

Display range: 0 to 299 km/h (0 to 186 mph)

- Initial display: "---" is displayed.
- When your vehicle has travelled less than 0.2 km (0.12 mile) since the engine was started: "---" is displayed.
- When your vehicle operating time is less than about 15 seconds since the engine was started: "---" is displayed.



When "---" is displayed except for the above-mentioned cases, go to your dealer for service.

BLANK display

Displays the blank.

Instruments *(Continued)*

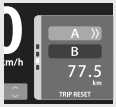
Selectable area

You can select the following:

- Riding mode setting P.37
- FAVORITE SWITCH P.37
- General menu P.37
- Honda RoadSync operation P.85
- Honda RoadSync mute

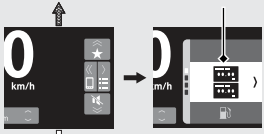
Selectable area

FAVORITE SWITCH



General menu

Honda RoadSync
Move to Honda RoadSync operation display.



Honda RoadSync mute
Mute audio and sound.

Press and hold the ▲ of the sel switch

Press the ▶ of the sel switch

Press and hold the ◀ of the sel switch

Press and hold the ▼ of the sel switch

Riding mode

Pressing and holding the **MODE** switch while riding mode is [USER1] or [USER2] can set the riding mode parameters.

Setting the riding mode: P.94

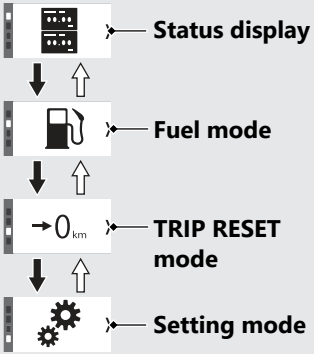
FAVORITE SWITCH

FAVORITE SWITCH is same as TRIP RESET mode. P.40

General menu

Pressing the ▶ of the sel switch opens the general menu.

Pressing the ▲ or ▼ of the sel switch can select between the status display, fuel mode, tripmeter reset, and setting mode and pressing the ▶ of the sel switch opens each display.



⇨ Press the ▲ of the sel switch

➡ Press the ▼ of the sel switch

Pressing the ◀ of the sel switch closes the general menu.

Pressing none of switch for about 10 seconds also closes the general menu except when the status display is selected.

Instruments *(Continued)*

Status display

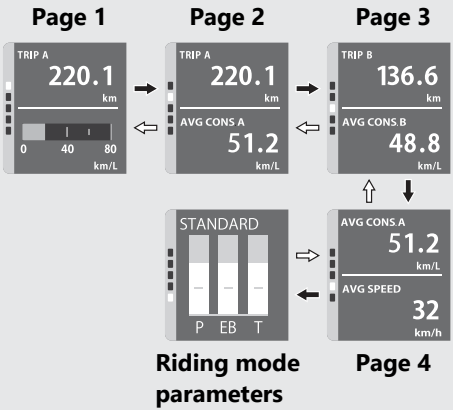
Display the information selected in the FAVORITE INFO setting.

Pressing the ▲ or ▼ of the sel switch selects between the four pages and riding mode parameters.

► There is two items in a page except riding mode parameters.

The items that you can select as display information are the same as those in the INFO area.

FAVORITE INFO: P.53

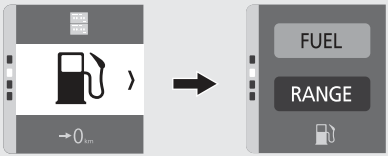


Fuel mode

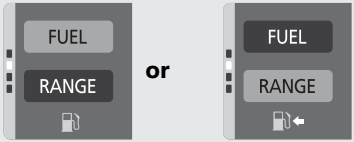
You can select whether to display FUEL or RANGE in the FUEL/RANGE area. P.28

- When remaining fuel is below approximately 3.0 L (0.79 US gal, 0.66 Imp gal), the FUEL automatically switches to the RANGE.
- If button is not pressed for 10 seconds, display switches to ordinary display.

1. Select the fuel mode and press the ▶ of the sel switch. P.37



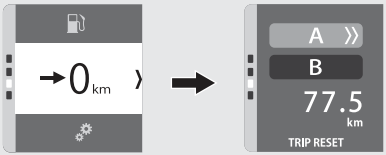
2. Select the FUEL or RANGE by pressing the ▼ or ▲ of the sel switch.



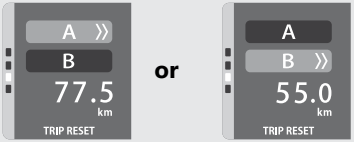
Instruments *(Continued)*

TRIP RESET mode

1. Select the TRIP RESET mode and press the ▶ of the sel switch. P.37

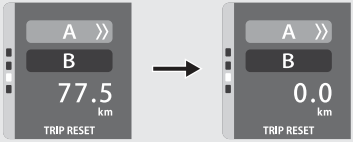


2. Select the tripmeter A or B using the ▲ or ▼ of the sel switch.



3. Press and hold the ▶ of the sel switch.

▶ When the tripmeter A/B is reset, fuel consumption [CONS. A/B] and average fuel mileage [AVG CONS. A/B] based on each tripmeter are reset at the same time.



Also, the tripmeter A, tripmeter A fuel consumption, and tripmeter A average fuel mileage can be automatically reset when the fuel gauge increases over 2 segments after refuelling.

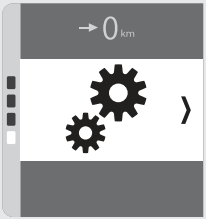
You can turn on or off this function.

TRIP A AUTO RESET: P.49

Setting mode

Press the ▶ of the sel switch to shift to setting mode.

▶ To shift to setting mode, stop the vehicle.



Setting mode: P.42

Instruments *(Continued)*

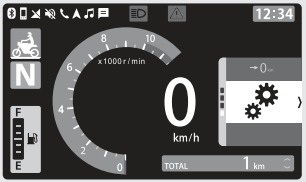
Setting mode

To shift to the setting mode

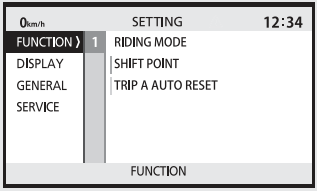
Press the ▶ of the sel switch when the selectable area displays setting mode. P.37

▶ The clock, indicators, and speedometer are displayed at the top of the screen while the setting mode is displayed.

Ordinary display



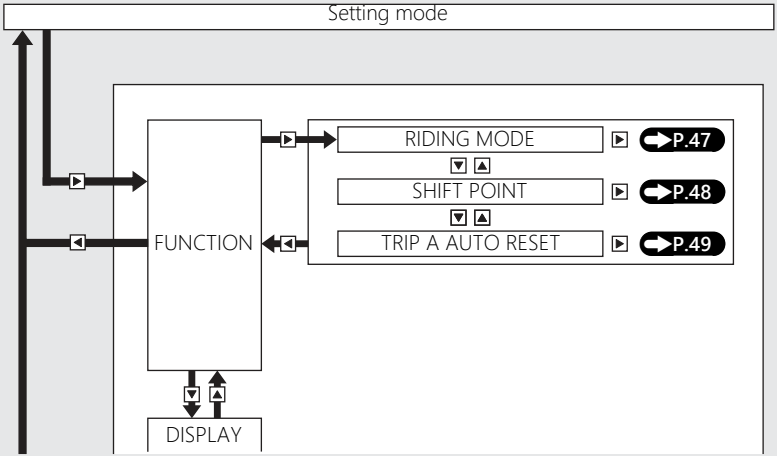
Setting mode



To return to the ordinary display

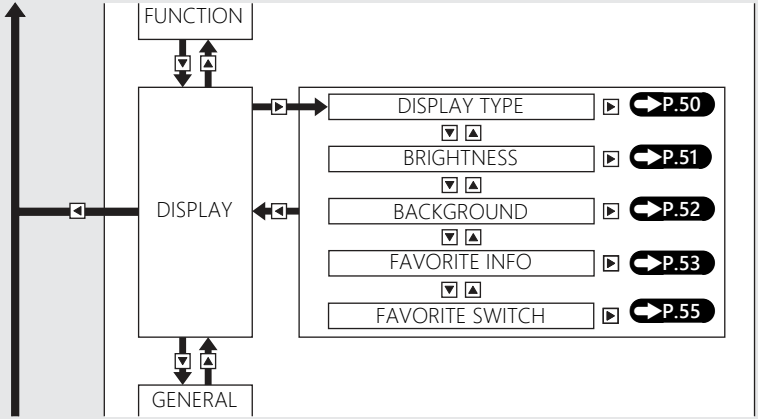
- Press the ◀ of the sel switch during selecting FUNCTION, DISPLAY, GENERAL, or SERVICE.
- Turn the ignition switch to the ○ (Off) position and to the | (On) position again.

Setting flow

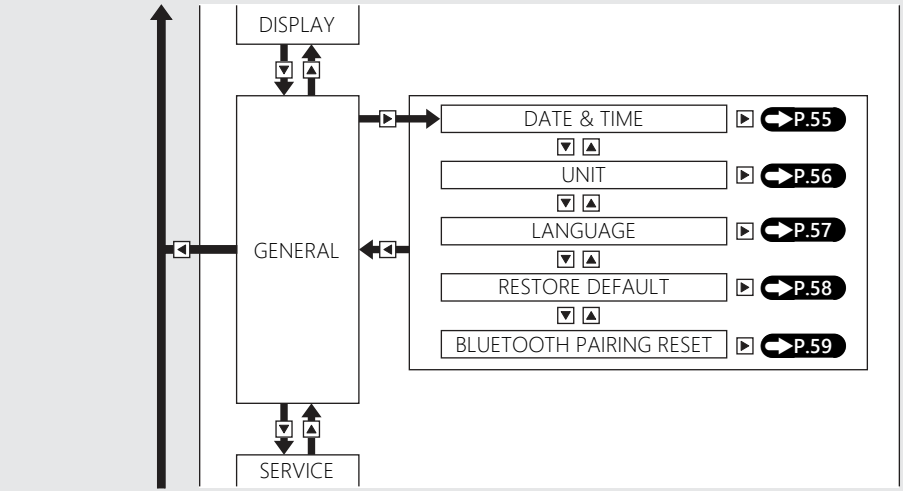


Push/Press

Instruments *(Continued)*

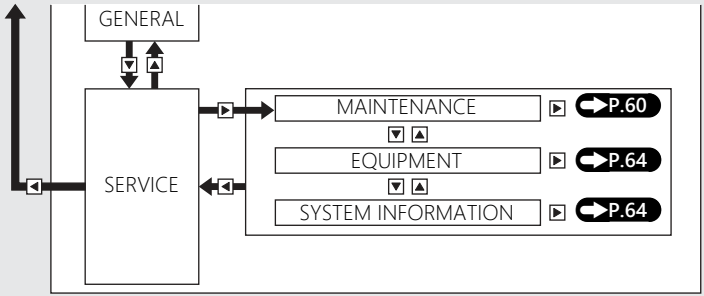


Push/Press


DISPLAY
GENERAL
SERVICE
DATE & TIME
P.55
UNIT
P.56
LANGUAGE
P.57
RESTORE DEFAULT
P.58
BLUETOOTH PAIRING RESET
P.59

Push/Press

Instruments *(Continued)*



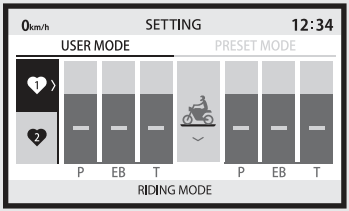
Push/Press

FUNCTION

RIDING MODE P.90

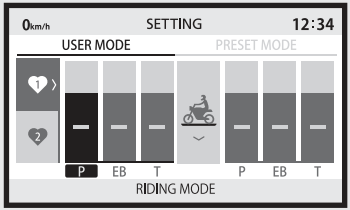
You can change the setting values of the [USER1] and [USER2].

① Select the riding mode [USER1] or [USER2] using the ▲ or ▼ of the sel switch.



② Select the parameters (“P”, “EB”, or “T”) or PRESET MODE using the ◀ or ▶ of the sel switch.

▶ PRESET MODE allows you to check the settings of other riding modes.
You can switch the displayed riding modes using the ▲ or ▼ of the sel switch.



③ Select the desired setting value using the ▲ or ▼ of the sel switch.

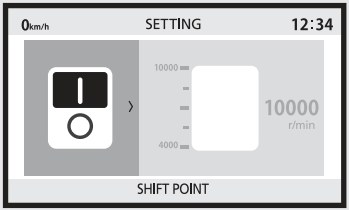
④ Press the ◀ of the sel switch to confirm the setting.

Instruments *(Continued)*

SHIFT POINT

You can switch the shift up mode to the ▌(active) or ○ (inactive). P.26

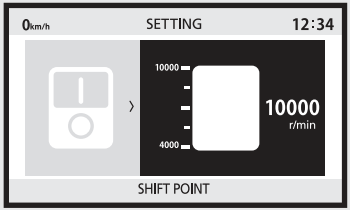
① Select the ▌(active) or ○ (inactive) using the ▲ or ▼ of the sel switch.



② If you select the ▌(active), you can switch to the shift point value setting by pressing the ▶ of the sel switch.

③ Select the desired setting value using the ▲ or ▼ of the sel switch.

Setting range:
4,000 to 10,000 r/min



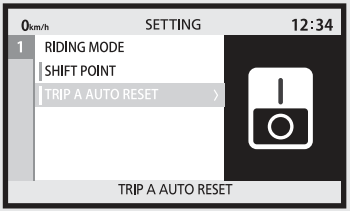
④ Press the ◀ of the sel switch to confirm the setting.

TRIP A AUTO RESET

You can switch the tripmeter A automatic reset mode to the ▌ (active) or ○ (inactive).

P.40

1. Select the ▌ (active) or ○ (inactive) using the ▲ or ▼ of the sel switch.
2. Press the ◀ of the sel switch to confirm the setting.



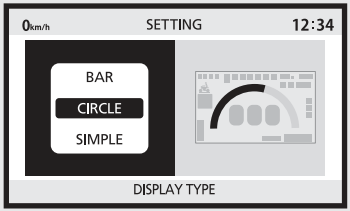
Instruments *(Continued)*

DISPLAY

DISPLAY TYPE

You can change the display type. P.24

1. Select the display type (“BAR”, “CIRCLE”, or “SIMPLE”) using the ▲ or ▼ of the sel switch.
2. Press the ◀ of the sel switch to confirm the setting.



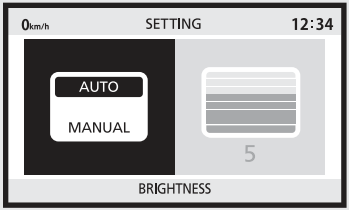
BRIGHTNESS

You can adjust the backlight brightness to one of the eight levels or select the auto adjustment.

Automatic Brightness Control: P.181

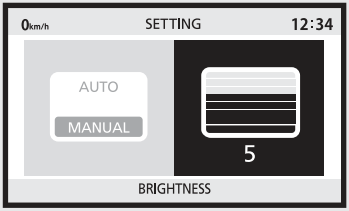
The display may become dark when the display is very hot. If it does not return to its original brightness, contact your dealer.

① Select the "AUTO" or "MANUAL" using the ▲ or ▼ of the sel switch.



② If you select "MANUAL," you can switch to the backlight brightness setting by pressing the ▶ of the sel switch.

③ Select the backlight brightness using the ▲ or ▼ of the sel switch.



④ Press the ◀ of the sel switch to confirm the setting.

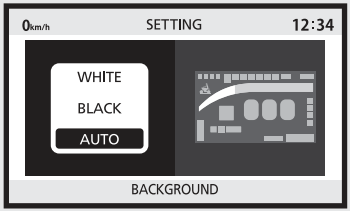
Instruments *(Continued)*

BACKGROUND

You can change the setting of the background colour to "WHITE," "BLACK," or "AUTO" adjustment.

Automatic Brightness Control: P.181

1. Select the background colour using the ▲ or ▼ of the sel switch.
2. Press the ◀ of the sel switch to confirm the setting.



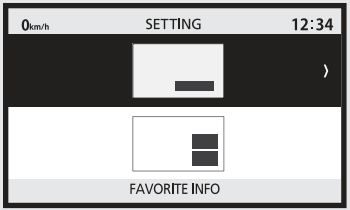
FAVORITE INFO

You can change the information items displayed in the INFO area and the status display in the selectable area.

P.30 P.38

INFO area

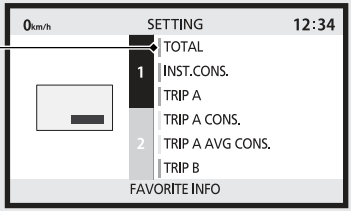
① Select the INFO area using the ▲ or ▼ of the ◂▸ sel switch and press the ▶ of the ◂▸ sel switch.



② Select the item using the ▲ or ▼ of the ◂▸ sel switch.

③ Pressing the ▶ of the ◂▸ sel switch can switch if the item is displayed or not.

▶ When the bar turns to green, the item is displayed in INFO area.



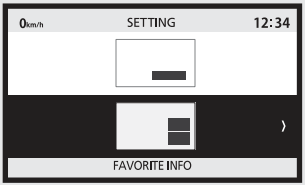
Bar

④ Press the ◀ of the ◂▸ sel switch to confirm the setting.

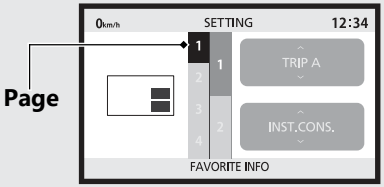
Instruments *(Continued)*

Status display

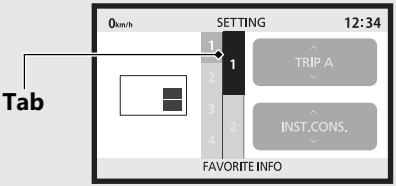
① Select the status display using the ▲ or ▼ of the ◂▴▸ sel switch and press the ▶ of the ◂▴▸ sel switch.



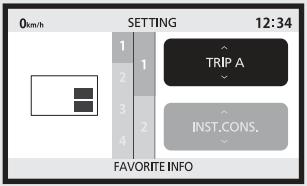
② Select the page of the status display using the ▲ or ▼ of the ◂▴▸ sel switch and press the ▶ of the ◂▴▸ sel switch.



③ Select the tab of the status display using the ▲ or ▼ of the ◂▴▸ sel switch and press the ▶ of the ◂▴▸ sel switch.



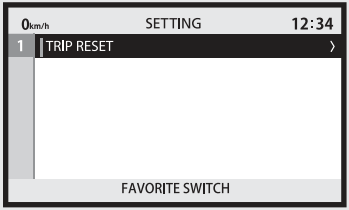
④ Select the item using the ▲ or ▼ of the ◂▴▸ sel switch.



⑤ Press the ◀ of the ◂▴▸ sel switch to confirm the setting.

FAVORITE SWITCH

"FAVORITE SWITCH" is displayed but not selectable.



GENERAL

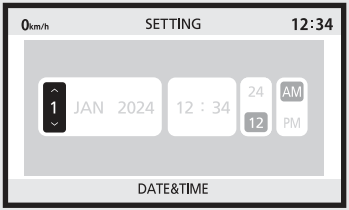
DATE & TIME

① Select the day, month, year, hour, minute, "24 / 12", and "AM / PM" using the ◀ or ▶ of the ◁▽▷ sel switch.

② Select the desired setting using the ▲ or ▼ of the ◁▽▷ sel switch.

▶ "AM / PM" is available when you select 12-hour indication.

③ Press the ◀ of the ◁▽▷ sel switch to confirm the setting.



Instruments *(Continued)*

UNIT

You can change the speed unit and fuel mileage meter unit.

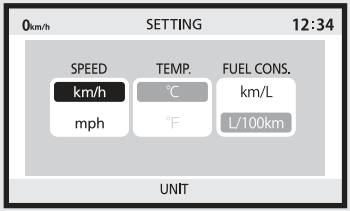
▶ "TEMP." is displayed but not selectable.

▶ The mileage unit is automatically changed depending on the speed unit.

① Select the "SPEED" or "FUEL CONS." using the ◀ or ▶ of the sel switch.

② Select the desired setting using the ▲ or ▼ of the sel switch.

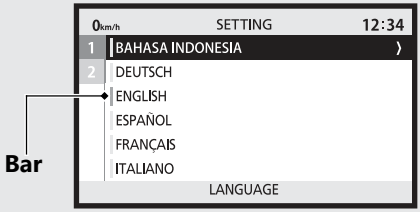
③ Press the ◀ of the sel switch to confirm the setting.



LANGUAGE

You can change the system language.

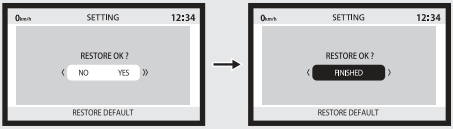
1. Select the language using the ▲ or ▼ of the sel switch.
2. Press the ▶ of the sel switch to change the language.
   - ▶ When language is changed, the bar changes to green
3. Press the ◀ of the sel switch to confirm the setting.



Instruments *(Continued)*

RESTORE DEFAULT

Pressing and holding the ▶ of the ◂▴▾▸ sel switch can return the set values to default settings.



The following items are restored to their default values:

- RIDING MODE
- SHIFT POINT
- TRIP A AUTO RESET
- DISPLAY TYPE
- BRIGHTNESS
- BACKGROUND
- FAVORITE INFO
- FAVORITE SWITCH
- UNIT
- LANGUAGE

BLUETOOTH PAIRING RESET

You can reset the pairing record of *Bluetooth*®.

Reset a *Bluetooth*® pairing record after stopping at a safe place.

To connect the device P.88

Make sure smartphone that you want to delete connection is connected to your vehicle.

To check if the smartphone is connected: P.25

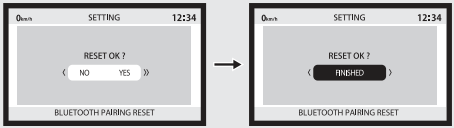
1. Select the "NO" (not reset) or "YES"(reset) using ◀ or ▶ on the sel switch.
2. When the "NO" is selected

   Press the ◀ of the sel switch. The pairing record is maintained, and then the display returns to the upper level hierarchy.

When the "YES" is selected

Press and hold the ▶ of the sel switch. Your smartphone connection is deleted and the pairing record is reset.

▶ When reset is complete, "FINISHED" will be displayed.



▶ If the pairing information remains in your smartphone even if the pairing information is deleted from the vehicle, the smartphone may be connected to the vehicle again.

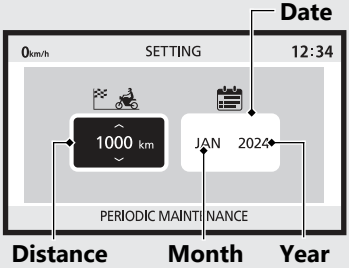
SERVICE

MAINTENANCE

PERIODIC MAINTENANCE

You can check the next periodic inspection timing.

You can change the setting of the next periodic inspection timing.



Maintenance information (P.65) will not be displayed if the distance and date are set to the initial settings.

Display range:

- Distance:
  - -----, -99,999 to 12,875 km (-99,999 to 8,000 mile)
- Date:
  - Month: ---, JAN to DEC
  - Year: ----, 2020 to 2099

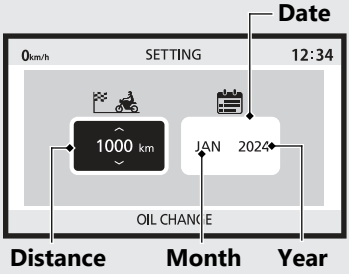
Setting range:

- Distance:
  - -----, 100 to 12,000 km (100 to 8,000 mile)
  - Initial setting: -----
- Date:
  - Month: ---, JAN to DEC
  - Year: ----, 2020 to 2099
  - Initial setting
  - Month: ---
  - Year: ----

OIL CHANGE

You can check the next engine oil change timing.

You can change the setting of the next engine oil change timing.



Maintenance information (P.65) will not be displayed if the distance and date are set to the initial settings.

Display range:

Distance:

-----, -99,999 to 12,875 km (-99,999 to 8,000 mile)

Date:

Month: ---, JAN to DEC

Year: ----, 2020 to 2099

Setting range:

Distance:

-----, 100 to 12,000 km (100 to 8,000 mile)

Initial setting: -----

Date:

Month: ---, JAN to DEC

Year: ----, 2020 to 2099

Initial setting

Month: ---

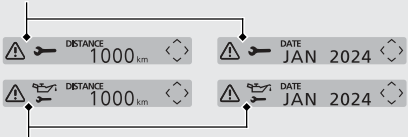
Year: ----

Instruments *(Continued)*

The pop-up information appears in the ordinary display when it reaches either of the following. P.65

- 500 km (300 mile) from the next periodic inspection.
- 100 km (60 mile) from the next engine oil change.
- One month before the set month.

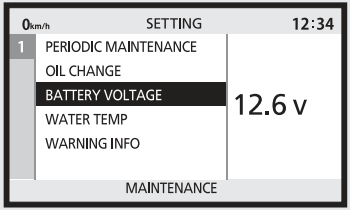
Periodic inspection



Oil change information

BATTERY VOLTAGE

Displays the current voltage.



WATER TEMP

Displays the current coolant temperature.

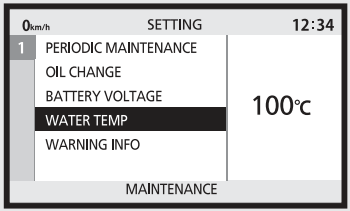
- Below 34 ℃: "---" is displayed.
- Between 122 ℃ and 131 ℃: current coolant temperature flashes.
- Above 132 ℃: "132" flashes.

Even if the engine coolant temperature is low, the cooling fan may start running when you rev up the engine. This is normal.

Warning indicator and high coolant temperature indicator turn on and pop-up information appears when coolant temperature is above 122 ℃.

P.25 P.65

Overheating: P.155

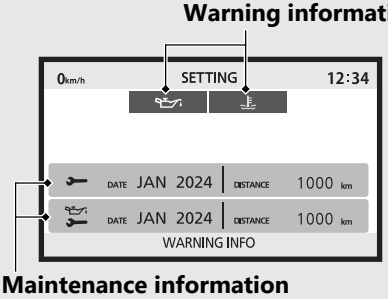


Instruments *(Continued)*

WARNING INFO

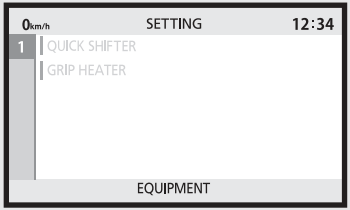
Displays each warning information and maintenance information.

- ▶ If there is no warning information to display, it displays nothing.
- ▶ If there is a warning information, see your dealer for service.



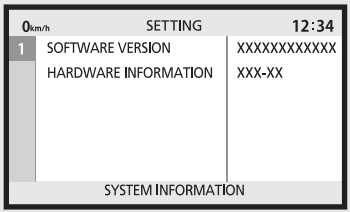
EQUIPMENT

"EQUIPMENT" is displayed but not selectable.



SYSTEM INFORMATION

Displays the system information.



Pop-up information

In the following cases, pop-up information appear at the INFO area.

- Maintenance information:
  When the inspection timing of your vehicle is approaching.
- Warning indicator:
  When malfunction is detected.
- Riding mode:
  When the riding mode changes.

When your vehicle has multiple pieces of information, pop-up information display appears alternately.

Pushing any of the [sel] switch can hide the pop-up information.

Maintenance Information

Indication	Explanation	Remedy
	When the periodic inspection timing of your vehicle is approaching.	Have your vehicle inspected by your dealer.
	When the oil change timing of your vehicle is approaching.	Change the engine oil.

Continued

Instruments *(Continued)*

Warning Information

Indication	Explanation	Remedy
	Low oil pressure indicator	**If it comes on while riding:** ➡P.156
	High coolant temperature indicator	**If it comes on while riding:** ➡P.155

Riding mode

Indication	Explanation	Remedy
STANDARD	It indicates current riding mode when you change riding mode.	**Riding mode:** ➡P.90

Indicators

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

Refer to the "Instruments" about indicators appeared on the display: P.25 P.27

Left turn signal indicator

Right turn signal indicator



ABS (Anti-lock Brake System) indicator

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

If it comes on while riding: P.158

Honda SMART Key Indicator

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

When the Honda SMART Key indicator flashes: P.160

Indicators *(Continued)*

Torque Control indicator

- Comes on when the ignition switch is turned to the | (On) position. Goes off when your speed reaches approximately 5 km/h (3 mph) to indicate Torque Control is ready to work.
- Blinks when Torque Control is operating.

If it comes on while riding: P.159



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

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

If it comes on or flashes while engine is running: P.157

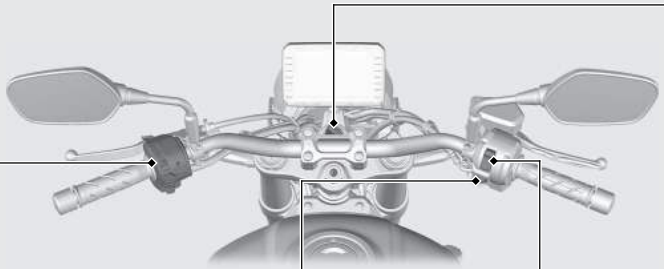
Neutral indicator

Comes on when the transmission is in Neutral.

Torque Control OFF Indicator

Comes on when the Torque Control is turned off.

Switches



Engine stop switch/ Start button

Should normally remain in the (Run) position.

▶ In an emergency, switch to the (Stop) position to stop the engine.

Left handlebar switch P.72

Hazard switch

: Hazard is on.

: Hazard is off.

Ignition Switch

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

► To unlock the ignition switch. P.80

(On)

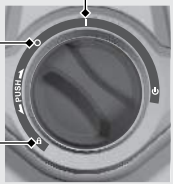
Turns electrical system on for starting/riding.

(Off)

Turns engine off.

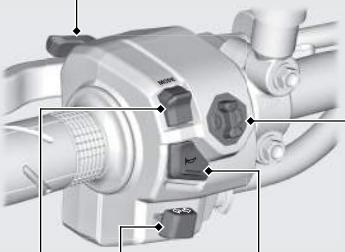
(Lock)

Locks steering.



Switches *(Continued)*

Left handlebar switch



Headlight dimmer/Passing light control switch

- ≣D : High beam
- ≣D : Low beam
- ≣D PASS : Flashes the high beam headlight.

Sel switch

Used to operate and set the display and the Honda RoadSync. P.85

Horn button

Turn signal switch

▶ Pressing the switch turns the turn signals off.

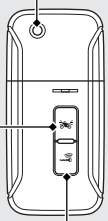
MODE switch

Used to change the riding mode. P.90

Release button
This button is used to release the mechanical key.
The mechanical key is used when refuelling or removing the rear seat.
Avoid contact with the key whenever it extends or retracts.

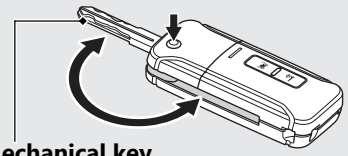
To release the mechanical key
Press the release button to release the mechanical key.
▶ Make sure to fully extend the mechanical key.

To retract the mechanical key
Push the key into the key case while pressing the release button.



Answer back button
Press the answer back button to activate the answer back. P.83

ON/OFF button
This button is used to activate or deactivate the Honda SMART Key system and also to confirm the activation status. P.76



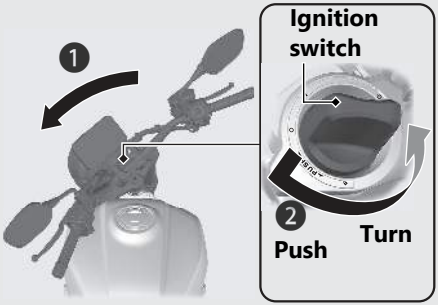
Mechanical key

Switches *(Continued)*

Steering Lock

Lock the steering when parking to help prevent theft.

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



Locking

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

Unlocking

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

- ▶ To unlock the ignition switch

Honda SMART Key System

The Honda SMART Key system allows you to operate the ignition switch without inserting a key into a keyhole.
The system runs a two-way authentication between the vehicle and the Honda SMART Key to verify if it is the registered Honda SMART Key.

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

Honda SMART Key System *(Continued)*

Switching the Honda SMART Key System

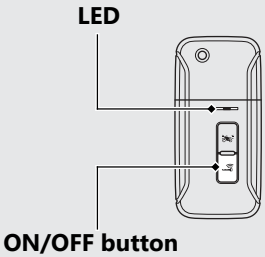
To switch the Honda SMART Key system to activation or deactivation

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

To check the Honda SMART Key system status

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

Green: (active)	Honda SMART Key system authentication can be performed.
Red: (inactive)	Honda SMART Key system authentication cannot be performed.



Operating Range

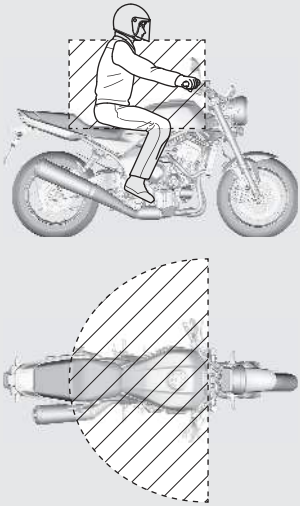
The operating range varies when the ignition switch is locked or unlocked.

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

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

When the ignition switch is unlocked:

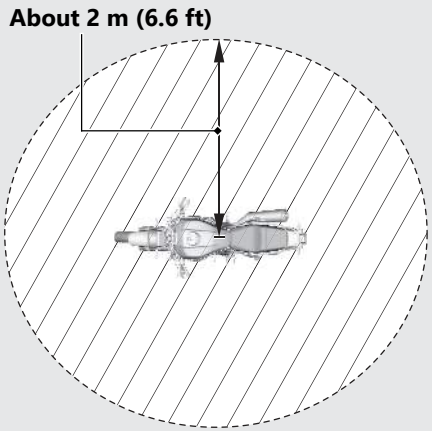
The system can be operated within the shaded area shown in the illustration.



Honda SMART Key System *(Continued)*

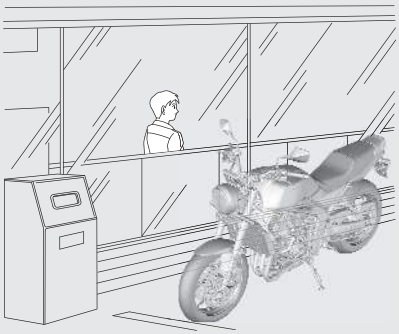
When the ignition switch is locked:

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



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

To switching the Honda SMART Key system P.76



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

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

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

Do not store the Honda SMART Key under the seat.

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

Whenever you leave your vehicle, lock the steering and lock the ignition switch.
P.81

Make sure the Honda SMART Key indicator goes off and all turn signals flash once at this time.

Honda SMART Key System *(Continued)*

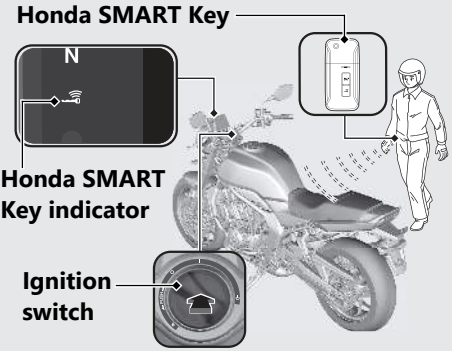
Switching the ignition switch

To Unlock the Ignition Switch

1. Make sure that the Honda SMART Key system is activated. P.76
2. To authenticate the Honda SMART Key system, push the ignition switch.
   - ► When properly authenticated and the ignition switch is unlocked, the Honda SMART Key indicator comes on.
3. Turn the ignition switch to the | (On) position while the Honda SMART Key indicator comes on.
   - ► If you do not turn the ignition switch to the | (On) position within 20 seconds after pushing in the ignition switch, the Honda SMART Key indicator will go off, the turn signals flash 1 time, and then the ignition switch will be locked.

When the Honda SMART Key system does not work properly P.163

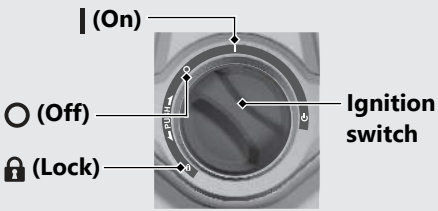
If someone without the Honda SMART Key tries to turn the ignition switch, the ignition switch rotates freely. If you notice the ignition switch is in a different position, turn the ignition switch to the original (○ (Off) or 🔒 (Lock)) position.

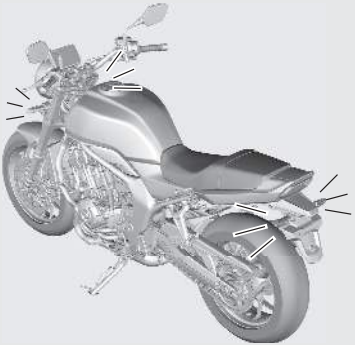


To Lock the Ignition Switch

1. Turn the ignition switch to the ○ (Off) or 🔒 (Lock) position.
2. Lock the ignition switch by doing one of the following:
   - Leave the operating range with the Honda SMART Key. ➡P.77
   - Push the ignition switch.
   - Wait for approximately 20 seconds after turning the ignition switch from | (On) to ○ (Off) or 🔒 (Lock) position.
   - Switch the Honda SMART Key system to inactive. ➡P.76
3. Make sure that the Honda SMART Key indicator goes 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.163





Honda SMART Key System *(Continued)*

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

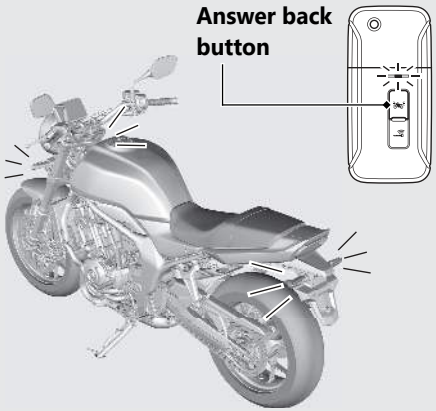
When the ignition switch is locked in the ○ (Off) position, the steering cannot be locked. To lock the steering, unlock the ignition switch.

Answer Back System

The answer back system is a device to find the location of your vehicle and to inform you that the immobilizer function of the Honda SMART Key system is activated.

When you press the answer back button on the Honda SMART Key with the ignition switch is in the (Off) or (Lock) position, the turn signals light and the Honda SMART Key LED lights informing you of your vehicle's location and activation of the immobilizer function.

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



Answer Back System *(Continued)*

Operation

Press the answer back button on the Honda SMART Key.

► The answer back system will not function when the ignition switch is ❙ (On) position.

If the ignition switch is left the ○ (Off) or 🔒 (Lock) position for more than 10 days, the answer back system will no longer operate. When the system is active and the vehicle receives a signal from pressing the answer back button, system activation will be extended for 10 days.

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

► To unlock the ignition switch ➡P.80

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

Honda RoadSync

Connecting your smartphone with the vehicle and a *Bluetooth*® headset via *Bluetooth*® allows you to operate the smartphone by voice input from the headset. You can also use the system by operating switches on the handlebar.

► To use the system, you need to install the dedicated application on your smartphone beforehand and pair your smartphone with the vehicle and the headset.

For terms of service and information on how to install/operate the dedicated application, see the following URL:
https://global.honda/voice-control-system/



► The dedicated application is not available in some regions/countries.
For available countries, see the above URL.

Honda RoadSync *(Continued)*

Communication range:
Within 1 meters radius from vehicle

Supported *Bluetooth*® version/profiles

Bluetooth® version	Bluetooth 4.2 or higher
Bluetooth® profiles	GATT (Generic Attribute Profile)
	HOGP (HID over GATT Profile)

Bluetooth® Wireless Technology
The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc., and any use of such marks by Honda Motors Co., Ltd., is under license. Other trademarks and trade names are those of their respective owners.

- Costs of network communication and communication equipment necessary for the use of this feature shall be borne by the user.
- You cannot pair two or more smartphones at once.
- Some smartphones may not be compatible with the feature.
- We shall not be liable for any damages or trouble in the use of smartphones.
- When unable to connect your smartphone to the vehicle, change the storage location of the smartphone.

The system itself has certain limitations. Therefore, you must verify the voice guidance and information in the meter provided by the system by carefully observing the roadway, signs, and signals, etc. If you are unsure, proceed with caution. Always use your own good judgement, and obey traffic laws while riding.

⚠WARNING

Using Honda RoadSync while riding can take your attention away from the road, causing a crash in which you could be seriously injured or killed.

- Be especially cautions when crossing intersections, in heavy traffic, etc.
- Carefully observe the roadway, signs, and signals.
- Obey traffic laws while riding.

Honda RoadSync Limitations

Changes in operating systems, hardware, software, and other technology integral to providing Honda RoadSync functionality, as well as new or revised governmental regulations, may result in a decrease or cessation of Honda RoadSync functionality and services.

Honda cannot and does not provide any warranty or guarantee of future Honda RoadSync performance or functionality.

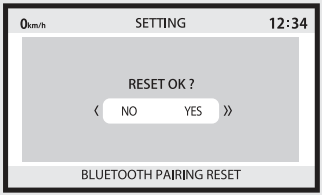
Honda RoadSync *(Continued)*

Pairing your smartphone via *Bluetooth®*

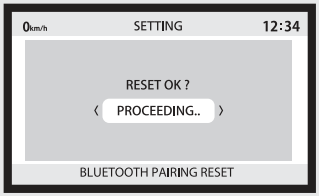
Make a *Bluetooth®* pairing after stopping at a safe place.

Only one smartphone can be connected at the same time.
To connect other smartphone, reset the *Bluetooth®* pairing record. P.59

1. Select the BLUETOOTH PAIRING RESET menu. P.42 P.59
2. Press and hold the ▶ on the sel switch to select "YES." P.59
   - ▶ Press ◀ of the sel switch to cancel the pairing. The display returns to the upper level hierarchy.



❸ "PROCEEDING..." is displayed and the system will be in pairing standby.
Perform the pairing operation by the application on your smartphone within about 2 minutes.



► On the ordinary display, the *Bluetooth*® indicator is flashing while waiting for pairing.

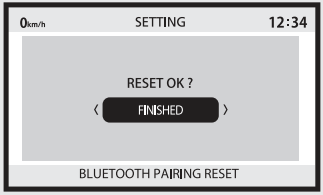


***Bluetooth*® indicator**

► For operation of the application, follow the instruction of the application.

❹ When pairing is complete, "FINISHED" will be displayed.

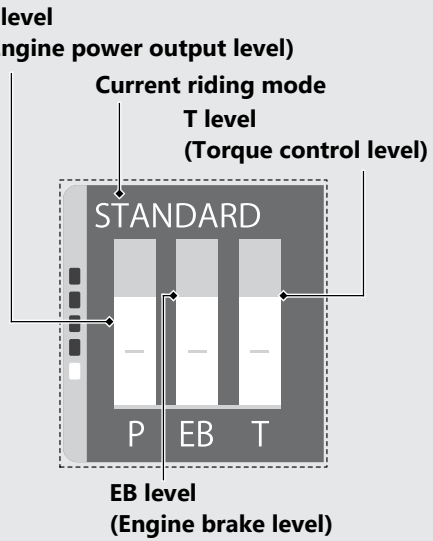
► Even if you do not complete, "FINISHED" will be displayed about 2 minutes after.
Check the status icons to confirm pairing is complete. P.25
If pairing is not completed, perform ❶ to ❸ again.



Riding mode

You can change the riding mode.
The riding mode consists of the following parameters.

P: Engine output level
EB: Engine brake level
T: Torque control level



Riding mode has five modes.
Available riding modes: [STANDARD], [SPORT], [RAIN], [USER1], and [USER2].

In following three riding modes, you cannot change initial setting level.

[STANDARD] : Standard, all-round mode for a variety of situations.

[SPORT] : This mode is suitable for sports riding. You can feel the higher engine response compared to STANDARD.
[RAIN] : Good for stable riding on slippery surfaces such as rainy conditions.

[USER1]/[USER2]
Each initial setting level can be changed.

Initial setting

	P level	EB level	T level
STANDARD	2	2	2
SPORT	3	1	1
RAIN	1	2	3
USER1	2*	2*	2*
USER2	2*	2*	2*

Notes:
* : Level can be changed.

Riding mode *(Continued)*

P level (Engine power output level)

P level has three setting levels.

Available setting range: 1 to 3

- ▶ Level 1 has the least power.
- ▶ Level 3 has the most power.

EB level (Engine brake level)

EB level has three setting levels.

Available setting range: 1 to 3

- ▶ Level 1 has the weakest engine braking effect.
- ▶ Level 3 has the strongest engine braking effect.

T level (Torque control level)

T level has three setting levels or can be turned off.

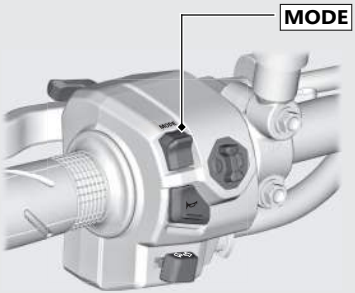
Available setting range: 0 to 3

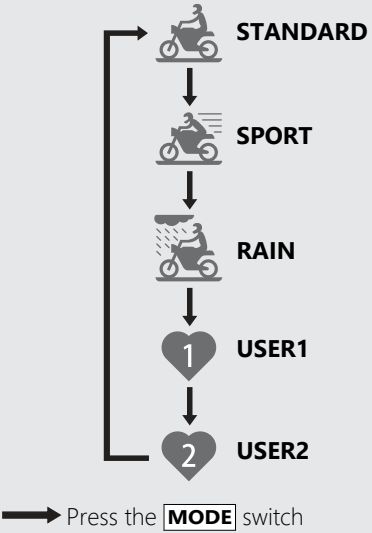
- ▶ Level 1 is the minimum Torque Control level.
- ▶ Level 3 is the maximum Torque Control level.
- ▶ Level 0 deactivates the Torque Control.
- ▶ If you turn the ignition switch to the O (Off) position while T level is 0, the setting is not maintained. The setting will be changed to level 2.

Selecting the riding mode

You can change the riding mode using the **MODE** switch when starting the engine.

1. Stop the vehicle.
2. Press the **MODE** switch with the throttle fully closed.
   - ► When the ignition switch is turned to the ○ (Off) position, the setting value is saved.



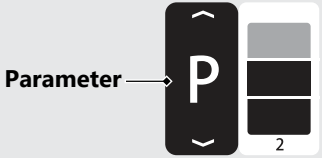


Riding mode *(Continued)*

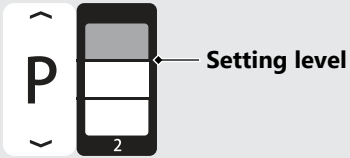
Setting the riding mode

You can change the P, EB, and T levels on the [USER1] and [USER2] of the riding mode when starting the engine.

1. Stop the vehicle.
2. Select the [USER1] or [USER2] riding mode. P.93
3. Press and hold the **MODE** switch.
4. Select the parameter using the ▲ or ▼ on the sel switch and shift to setting display using the ▶ on the sel switch.

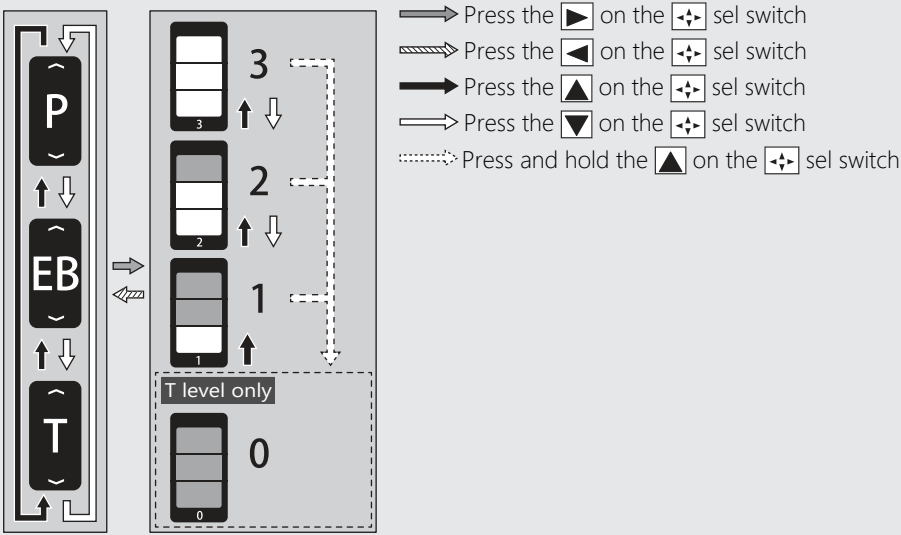


5. Select the setting level using the ▲ or ▼ on the sel switch.
   - ▶ T level can be changed to 0 (off) by pressing and holding the ▲ of the sel switch while selecting the T parameter.



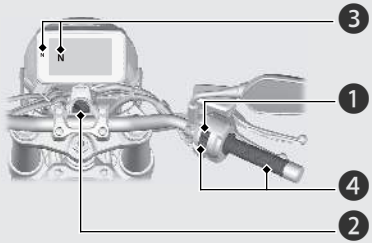
6. Press and hold the **MODE** switch until setting display closes.
   - ▶ When the ignition switch is turned to the ○ (Off) position, the setting value is saved.

You can also change the [USER1] and [USER2] settings in setting mode.
RIDING MODE setting: P.47


P
EB
T
3
2
1
T level only
0
Press the ▶ on the sel switch
Press the ◀ on the sel switch
Press the ▲ on the sel switch
Press the ▼ on the sel switch
Press and hold the ▲ on the sel switch

Starting the Engine

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



This vehicle is equipped with a Honda SMART Key system. Always keep Honda SMART Key on you when you ride the vehicle. P.77

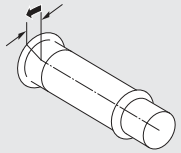
NOTICE

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

1. Make sure the engine stop switch is in the ⟳ (Run) position.
2. Turn the ignition switch to the ❙ (On) position.
3. Shift the transmission to Neutral (N indicator comes on). Alternatively, pull in the clutch lever to start your vehicle with the transmission in gear as long as the side stand is raised.

❹ Press the start button with the throttle completely closed.
► If you cannot start the engine, open the throttle slightly (about 3 mm (0.1 in), without freeplay) and press the start button.

About 3 mm (0.1 in), without freeplay



If the engine does not start:

① Open the throttle fully and press the start button for 5 seconds.
► The engine will not start at this time. (When the throttle is fully open, the engine will not start when the start button is pressed.) Release the throttle and start button after 5 seconds and proceed to step ②.

② Repeat the normal starting procedure.

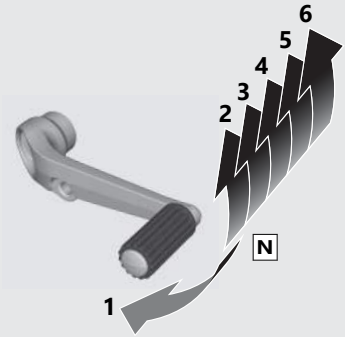
③ If the engine starts, open the throttle slightly if idling is unstable.

④ If the engine does not start, wait 10 seconds before trying steps ① & ② again.

If Engine Will Not Start P.154

Shifting Gears

Your vehicle transmission has 6 forward gears in a one-down, five-up shift pattern.



If you put the vehicle in gear with the side stand down, the engine will shut off.

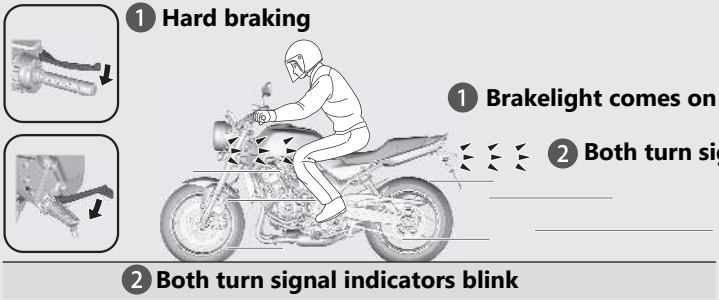
Emergency Stop Signal

Emergency stop signal activates when the system detects hard braking about 50 km/h (31 mph) or above to alert drivers behind you about sudden braking by rapidly flashing both turn signal lights. This may help to alert drivers behind you to take appropriate means to avoid a possible collision with your vehicle.

The emergency stop signal stops operating when:

- You release the brakes.
- The ABS is deactivated.
- Your vehicle's decelerating speed becomes moderate.
- You press the hazard switch.

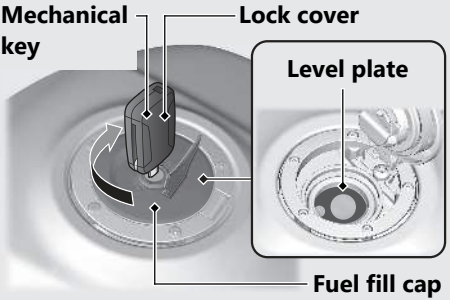
When the system is activated:



Emergency Stop Signal *(Continued)*

- ▶ The emergency stop signal is not a system that can prevent a possible rear-end collision caused by your hard braking. It is always recommended to avoid hard braking unless it is absolutely necessary.
- ▶ The emergency stop signal does not activate while the hazard switch is on.
- ▶ If the ABS stops working for a certain period during braking, the emergency stop signal may not activate at all.

Refuelling



Do not fill with fuel above the level plate.
Fuel type: Unleaded petrol only
Fuel octane number: Your vehicle is designed to use Research Octane Number (RON) 95 or higher.
Tank capacity:
16.0 L (4.23 US gal, 3.52 Imp gal)

Refuelling and Fuel Guidelines P.16

Opening the Fuel Fill Cap

Open the lock cover, insert the mechanical key, and turn it clockwise to open the cap.

Closing the Fuel Fill Cap

1. After refuelling, push the fuel fill cap closed until it locks.
2. Remove the mechanical key and close the lock cover.
   ▶ The key cannot be removed if the cap is not locked.

⚠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 flames away.
- Only handle fuel outdoors.
- Wipe up spills immediately.

USB Socket

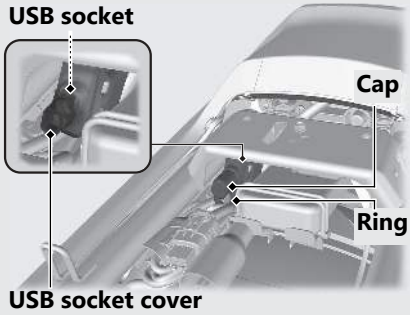
Your vehicle is equipped with the USB socket (for USB Type-C only).
The USB socket is located under the seat.
P.127
This socket is for battery charge only.

Use USB devices at your own risk. In no event shall Honda be liable for any damage to your USB device when in use.

Only USB devices within the following specifications can be connected.
Rated capacity is
15 W (5 V, 3.0 A).

To connect your USB device

1. Remove the seat. P.127
2. Remove the cap to access the USB socket.
   - ► To prevent lost the cap, put the USB socket cover through the ring part of the cap, and then connect a certified USB cable to the USB socket.
3. Connect a certified USB cable to the socket.



▶ To prevent the battery from becoming weak (or dead), keep the engine running while drawing current from the socket.
▶ To prevent entry of foreign matter into the socket, be sure to close the cap.
▶ Carefully secure all connected devices, as vibration may cause damage to them or they could shift unexpectedly.

NOTICE

- Using any heat-generating USB devices or improperly rated USB devices can damage the socket.
- Do not use the USB socket in wet conditions, when or while washing or any other wet conditions as these will damage the USB socket.
- Do not allow the USB cable to become pinched or trapped.
- Do not allow the USB cable to interfere with the steering or controls.

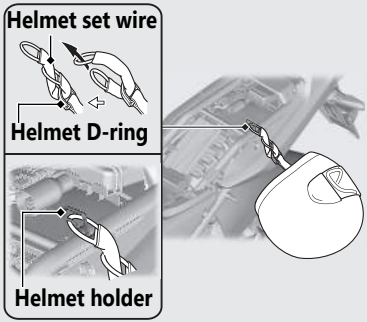
Storage Equipment

Helmet Holder

The helmet holder is located underside of the seat.

The helmet set wire (in the tool kit) is located underside of the seat.

► Use the helmet holder only when parked.



⚠WARNING

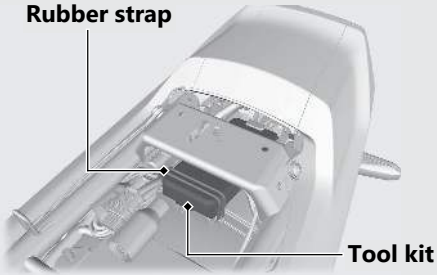
Riding with a helmet attached to the holder can interfere with the rear wheel or suspension and could cause a crash in which you can be seriously hurt or killed.

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

Removing the Seat P.127

Tool Kit

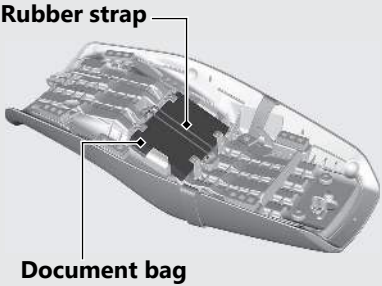
The tool kit is located under the seat by the rubber strap.



Removing the Seat P.127

Document Bag

The document bag is in the reverse side of the seat.



Removing the Seat P.127

Maintenance

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

Importance of Maintenance ..... P. 107
Maintenance Schedule ..... P. 108
Maintenance Fundamentals ..... P. 111
Tools ..... P. 123
Removing & Installing Body Components ..... P. 124
- Battery ..... P. 124
- Clip ..... P. 126
- Seat ..... P. 127
- Left Side Cover ..... P. 128

Engine Oil ..... P. 129
Coolant ..... P. 131
Brakes ..... P. 133
Side Stand ..... P. 136
Drive Chain ..... P. 137
Clutch ..... P. 140
Throttle ..... P. 143
Other Adjustments ..... P. 144
- Adjusting the Brake Lever ..... P. 144
- Adjusting the Front Suspension ..... P. 145
- Adjusting the Rear Suspension ..... P. 148

Other Replacement ..... P. 150
- Replacing the Honda SMART Key Battery ..... P. 150

Importance of Maintenance

Keeping your vehicle 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 vehicle before each ride and perform the periodic checks specified in the Maintenance Schedule.
➔P. 108

⚠WARNING

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

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

Maintenance Safety

Always read the maintenance instructions before you begin each task and make sure that you have the tools, parts, and skills required. We cannot warn you of every conceivable hazard that can arise in performing maintenance. Only you can decide whether or not you should perform a given task.

Follow these guidelines when performing maintenance.

- Stop the engine and turn the ignition switch to the ○ (Off) position.
- Place your vehicle on a firm, level surface using the side 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 vehicle is properly maintained.
Make sure that whomever performs the maintenance completes this record.

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

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

Items		Pre-ride Check ➡ P. 111	Odometer Readings*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			
Honda Diagnostic System				I	I	I	I	I			–
Fuel Line					I	I	I	I	I		–
Fuel Level		I									101
Throttle Operation		I			I	I	I	I	I		143
Air Cleaner *2						R		R			–
Spark Plug						I		R			–
Valve Clearance							I				–
Engine Oil		I		R	R	R	R	R	R		129
Engine Oil Filter				R		R		R			–
Engine Idle Speed					I	I	I	I	I		–
Radiator Coolant *3		I			I	I	I	I	I	3 Years	131
Cooling System					I	I	I	I	I		–
Secondary Air Supply System						I		I			–
Evaporative Emission Control System						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 vehicle serviced by your dealer.

Maintenance Legend

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

Continued

Items		Pre-ride Check ➡ P. 111	Odometer Readings*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			
Drive Chain		I	Every 1,000 km (600 mi): I L								137
Drive Chain Slider					I	I	I	I			139
Brake Fluid *3		I			I	I	I	I	I	2 Years	133
Brake Pads Wear		I			I	I	I	I	I		134
Brake System					I	I	I	I	I		111
Brakelight Switch					I	I	I	I	I		135
Headlight Aim					I	I	I	I	I		–
Lights/Horn		I									–
Engine Stop Switch		I									–
Clutch System		I			I	I	I	I	I		140
Side Stand		I			I	I	I	I	I		136
Suspension					I	I	I	I	I		145
Nuts, Bolts, Fasteners					I	I	I	I	I		–
Wheels/Tyres		I			I	I	I	I	I		120
Steering Head Bearings					I	I	I	I	I		–

Notes:

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

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

*3 : Replacement requires mechanical skill.

Pre-ride Inspection

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

Check the following items before you get on your vehicle:

- Fuel level - Fill fuel tank when necessary. ➔ P. 101
- Throttle - Check for smooth opening and full closing in all steering positions. ➔ P. 143
- Engine oil level - Add engine oil if necessary. Check for leaks. ➔ P. 129
- Coolant level - Add coolant if required. Check for leaks. ➔ P. 131
- Drive chain - Check condition and slack, adjust and lubricate if necessary. ➔ P. 137
- Brakes - Check operation; Front and Rear: check brake fluid level and pads wear ➔ P. 133, ➔ P. 134
- Lights and horn - Check that lights, indicators and horn function properly.
- Engine stop switch - Check for proper function. ➔ P. 70
- Clutch - Check operation; Adjust freeplay if necessary ➔ P. 140
- Side stand ignition cut-off system - Check for proper function. ➔ P. 136
- Wheels and tyres - Check condition, air pressure and adjust if necessary. ➔ P. 120

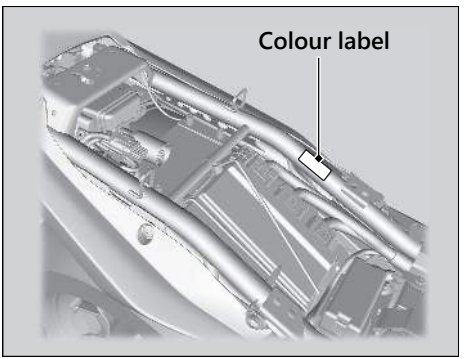
Replacing Parts

Always use Honda Genuine Parts or their equivalents to ensure reliability and safety.

Except FO, II FO type

When ordering coloured components, specify the model name, colour, and code mentioned on the colour label.

The colour label is attached to the frame under the seat. P. 127



⚠WARNING

Installing non-Honda parts may make your vehicle 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 vehicle.

Battery

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

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

NOTICE

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



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

NOTICE

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

What to do in an emergency

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

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

⚠WARNING

The battery gives off explosive hydrogen gas during normal operation.

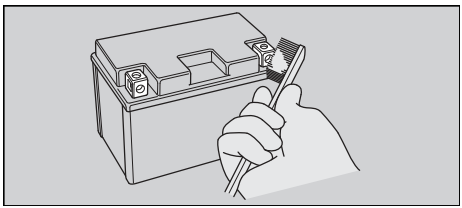
A spark or flame can cause the battery to explode with enough force to kill or seriously hurt you.

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

Cleaning the Battery Terminals

1. Remove the battery. P. 124
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

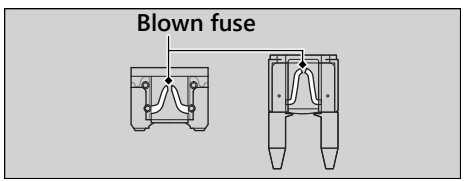
Installing non-Honda electrical accessories can overload the electrical system, discharging the battery and possibly damaging the system.

Fuses

Fuses protect the electrical circuits on your vehicle. If something electrical on your vehicle stops working, check for and replace any blown fuses. ➡ P. 172

Inspecting and Replacing Fuses

Turn the ignition switch to the O (Off) position to remove and inspect fuses. If a fuse is blown, replace with a fuse of the same rating. For fuse ratings, see "Specifications." ➡ P. 200



NOTICE

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

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

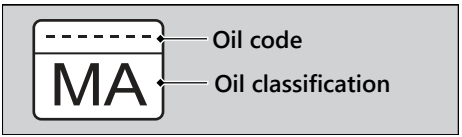
Selecting the Engine Oil

For recommended engine oil, see "Specifications." P. 199

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

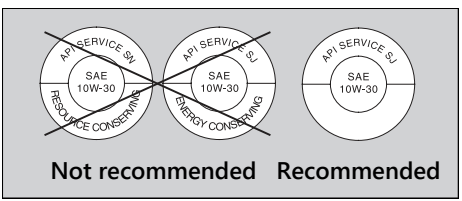
- JASO T 903 standard[*1]: MA
- SAE standard[*2]: 10W-30
- API classification[*3]: SJ or higher

[*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 MA classification.



[*2] The SAE standard grades oils by their viscosity.

[*3] The API classification specifies the quality and performance rating of engine oils. Use SJ 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.

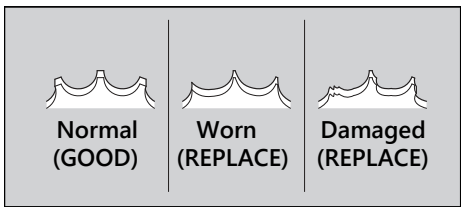
Recommended brake fluid:
Honda DOT 4 Brake Fluid or equivalent

Drive Chain

The drive chain must be inspected and lubricated regularly. Inspect the chain more frequently if you often ride on bad roads, ride at high speed, or ride with repeated fast acceleration. ➔ P. 137

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

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



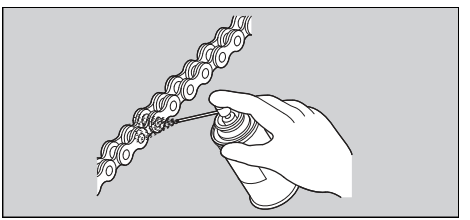
NOTICE
Use of a new chain with worn sprockets will cause rapid chain wear.

Cleaning and Lubricating

After inspecting the slack, clean the chain and sprockets while rotating the rear wheel. Use a dry cloth with chain cleaner designed specifically for O-ring chains, or neutral detergent. Use a soft brush if the chain is dirty. After cleaning, wipe dry and lubricate with the recommended lubricant.

Recommended lubricant:

Drive chain lubricant designed specifically for O-ring chains
If not available, use SAE 80 or 90 gear oil.



Do not use a steam cleaner, a high pressure cleaner, a wire brush, volatile solvent such as petrol and benzene, abrasive cleaner, chain cleaner or lubricant NOT designed specifically for O-ring chains as these can damage the rubber O-ring seals.
Avoid getting lubricant on the brakes or tyres.
Avoid applying excess chain lubricant to prevent spray onto your clothes and the vehicle.

Recommended Coolant

Except FO, II FO type

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 tap/mineral water can cause corrosion.

FO, II FO type

Use only genuine HONDA PRE-MIX COOLANT without diluting with water. Genuine HONDA PRE-MIX COOLANT is excellent at preventing corrosion and overheating.
The coolant should be inspected and replaced properly by following the maintenance schedule. ➡ P. 108

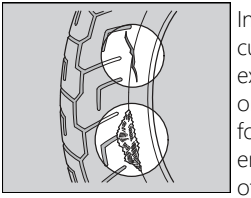
NOTICE
Using coolant not specified for aluminium engines or tap/mineral water can cause corrosion.

Tyres (Inspecting/Replacing)

Checking the Air Pressure

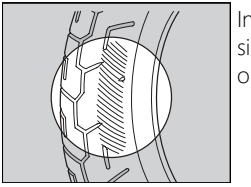
Visually inspect your tyres and use an air pressure gauge to measure the air pressure at least once a month or any time you think the tyres look low. Always check air pressure when your tyres are cold.

Inspecting for Damage



Inspect the tyres for cuts, slits, or cracks that expose fabric or cords, or nails or other foreign objects embedded in the side of the tyre or the tread. Also inspect for any unusual bumps or bulges in the side walls of the tyres.

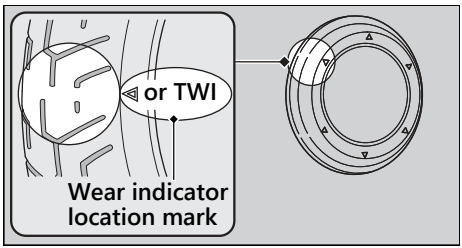
Inspecting for Abnormal Wear



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

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.

Have your tyres replaced by your dealer.
For recommended tyres, air pressure, and minimum tread depth, see “Specifications.”
➔P. 199
Follow these guidelines whenever you replace tyres:

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

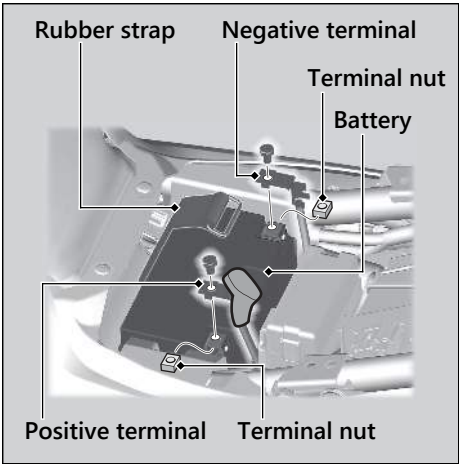
Tools

The tool kit is stored under the seat. ➔ P. 127

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

- Standard/Phillips screwdriver
- Screwdriver handle
- Suspension adjuster
- 10 x 14 mm Open end wrench
- Extension bar
- Pin spanner
- Helmet set wire

Battery



Removal

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

1. Remove the seat. P. 127
2. Unhook the rubber strap from right side.
3. Disconnect the negative ⊖ terminal from the battery.
4. Disconnect the positive ⊕ terminal from the battery.
5. 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 ⊕ terminal first. Make sure bolts and nuts are tight.

Make sure the clock information is correct after the battery is reconnected. ➡P. 55

For proper handling of the battery, see
"Maintenance Fundamentals." ➡P. 113
"Battery Goes Dead." ➡P. 171

Clip

Removal

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



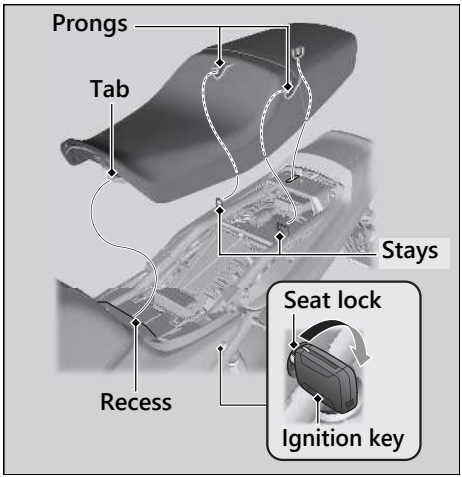
Installation

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.

Seat



Removal

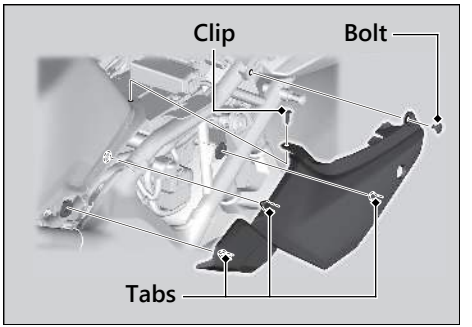
1. Insert the mechanical key into the seat lock.
2. Turn the mechanical key clockwise, then pull the seat up and forward.

Installation

1. Insert the tab into the recess.
2. Insert the prongs into the stays.
3. Push down on the rear of the seat until it locks in place.
   ▶ Make sure that the seat is locked securely in position by pulling it up lightly.

The seat locks automatically when closed. Take care not to lock your key in the under seat compartment.

Left Side Cover



Removal

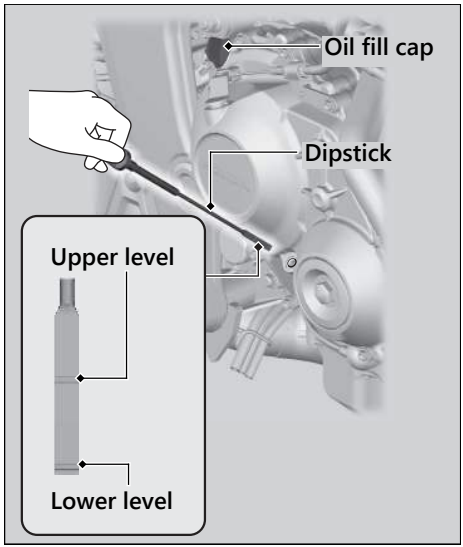
1. Remove the seat. P. 127
2. Remove the clip. P. 126
3. Remove the bolt.
4. Remove the left side cover by releasing the tabs.

Installation

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 to the O (Off) position and wait for 2 to 3 minutes.
3. Place your vehicle in an upright position on a firm, level surface.
4. Remove the dipstick and wipe it clean.
5. Insert the dipstick until it seats, but don't screw it in.
6. Check that the oil level is between the upper level and lower level marks on the dipstick.
7. Securely install the dipstick.



Adding Engine Oil

If the engine oil is below or near the lower level mark, add the recommended engine oil.
➡ P. 116, ➡ P. 199

1. Remove the oil fill cap. Add the recommended oil until it reaches the upper level mark.
   ▶ Place your vehicle in an upright position on a firm, level surface when checking the oil level.
   ▶ Do not overfill above the upper level mark.
   ▶ Make sure no foreign objects enter the oil filler opening.
   ▶ Wipe up any spills immediately.
2. Securely reinstall the oil fill cap.

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

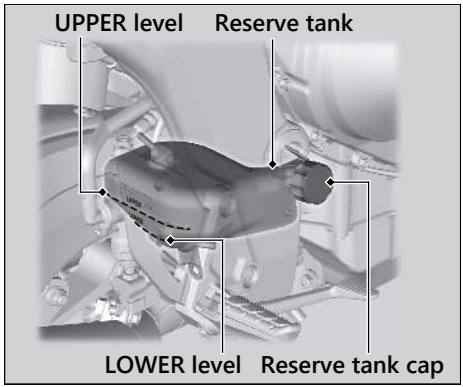
For the recommended oil and oil selection guidelines, see "Maintenance Fundamentals."
➡ P. 116

Checking the Coolant

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

1. Place your vehicle on a firm, level surface.
2. Hold your vehicle in an upright position.
3. Check that the coolant level is between the UPPER level and LOWER level marks on the reserve tank.

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



Adding Coolant

If the coolant level is below the LOWER level mark, add the recommended coolant (P. 119) until the level reaches the UPPER level mark.

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

1. 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.
2. Securely reinstall the reserve tank cap.

⚠WARNING

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

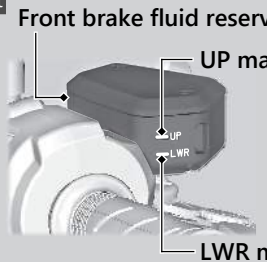
Always let the engine and radiator cool down before removing the radiator cap.

Checking Brake Fluid

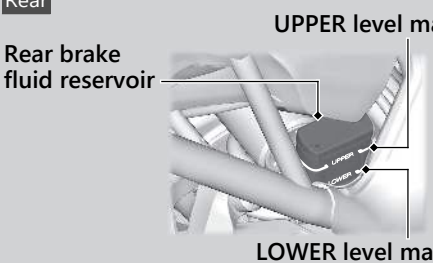
1. Place your vehicle in an upright position on a firm, level surface.
2. Front Check that the brake fluid reservoir is horizontal and that the fluid level is between the LWR and UP marks.
   Rear Check that the brake fluid reservoir is horizontal and that the fluid level is between the LOWER level and UPPER level marks.

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

Front



Rear



Inspecting the Brake Pads

Check the condition of the brake pad wear indicators.

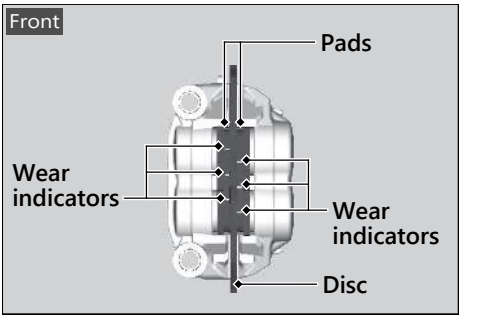
Front The pads need to be replaced if a brake pad is worn to the bottom of the indicator.

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

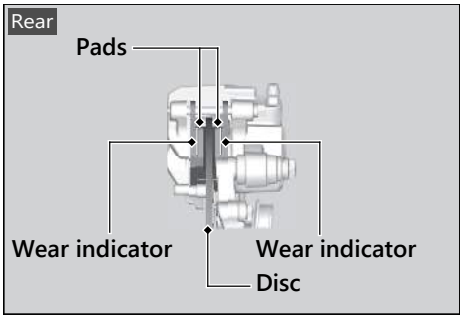
1. Front

Inspect the brake pads from in front of the brake caliper.

▶ Always inspect both left and right brake calipers.



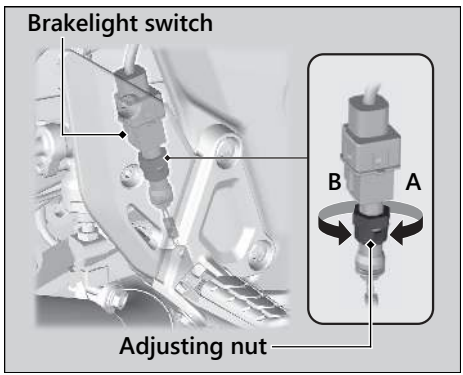
2. Rear Inspect the brake pads from the rear right of the vehicle.



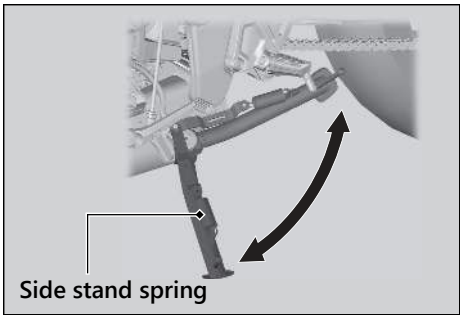
If necessary, have the pads replaced by your dealer.
Always replace both left and right brake pads at the same time.

Adjusting the Brakelight Switch

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



Checking the Side Stand



1. 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.
2. Check the spring for damage or loss of tension.
3. Sit on the vehicle, shift the transmission to Neutral, and raise the side stand.
4. Start the engine, pull the clutch lever in, and shift the transmission into gear.
5. 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 vehicle inspected by your dealer.

Inspecting the Drive Chain Slack

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

Have the chain inspected by your dealer.

1. Shift the transmission to Neutral. Stop the engine.
2. Place your vehicle on its side stand on a firm, level surface.
3. Push the lower part of the drive chain down and check the chain slack between the drive chain and swing-arm at the end of the drive chain slider.

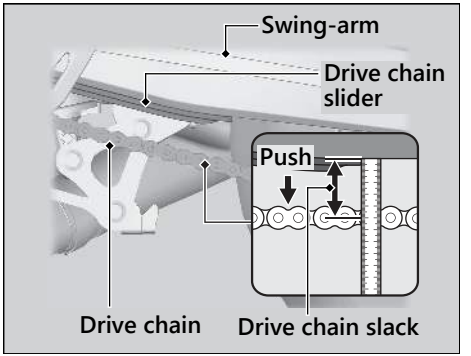
Drive chain slack:

Swing-arm to drive chain

Except FO, II FO type
58 - 63 mm (2.3 - 2.5 in)
FO, II FO type
48 - 53 mm (1.9 - 2.1 in)

Except FO, II FO type
▶ Do not ride your vehicle if the slack exceeds 68 mm (2.7 in).

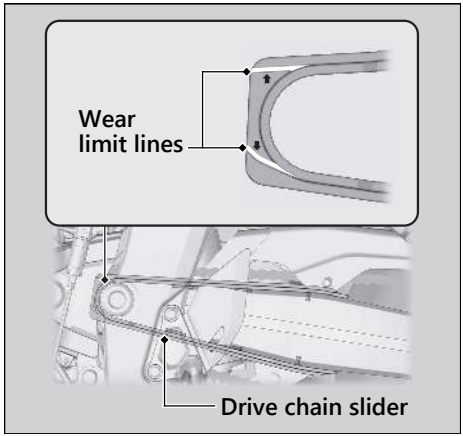
FO, II FO type
▶ Do not ride your vehicle if the slack exceeds 58 mm (2.3 in).



4. Roll the vehicle forward and check that the chain moves smoothly.
5. Inspect the sprockets. ➡P. 117
6. Clean and lubricate the drive chain. ➡P. 118

Checking the Drive Chain Slider

Check the condition of the drive chain slider. The drive chain slider will need to be replaced if the chain slider is worn to the wear limit lines.
If necessary, have the drive chain slider replaced by your dealer.

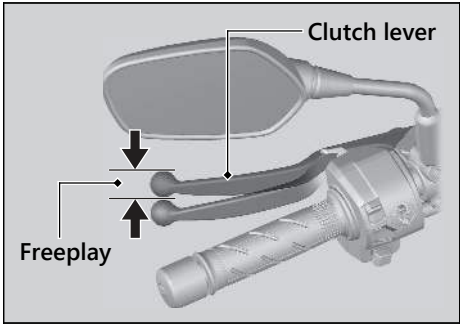


Checking the Clutch

Checking the Clutch Lever Freeplay

Check the clutch lever freeplay.

Freeplay at the clutch lever:
10 - 20 mm (0.4 - 0.8 in)



Check the clutch cable for kinks or signs of wear. If necessary, have it replaced by your dealer.

Lubricate the clutch cable with a commercially available cable lubricant to prevent premature wear and corrosion.

NOTICE

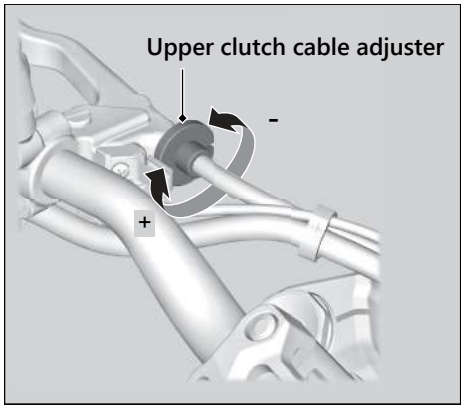
Improper freeplay adjustment can cause premature clutch wear.

Adjusting the Clutch Lever Freeplay

Upper Adjustment

Attempt adjustment with the upper clutch cable adjuster first.

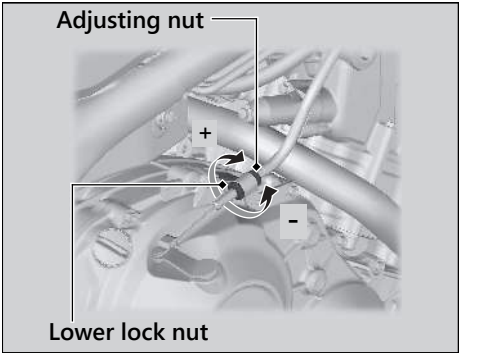
Turn the clutch cable adjuster until the freeplay is 10 - 20 mm (0.4 - 0.8 in).



Lower Adjustment

If the upper clutch cable adjuster is threaded out near its limit, or the correct freeplay cannot be obtained, attempt adjustment with the lower clutch cable adjusting nut.

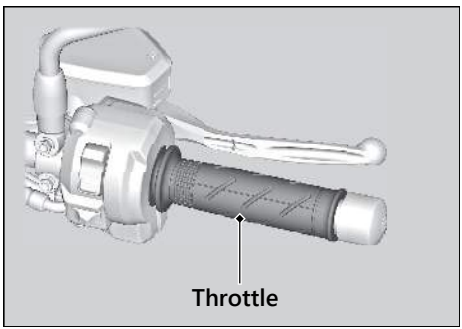
1. Turn the upper clutch cable adjuster all the way in to provide maximum freeplay.
2. Loosen the lower lock nut.
3. Turn the adjusting nut until the clutch lever freeplay is 10 - 20 mm (0.4 - 0.8 in).
4. Tighten the lower lock nut and check the clutch lever freeplay.
5. Start the engine, pull the clutch lever in, and shift into gear. Make sure the engine does not stall and the vehicle does not creep. Gradually release the clutch lever and open the throttle. Your vehicle should move smoothly and accelerate gradually.



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

Checking the Throttle

With the engine off, check that the throttle rotates smoothly from fully closed to fully open. If the throttle does not move smoothly or close automatically, have the vehicle inspected by your dealer.



Adjusting the Brake Lever

You can adjust the distance between the brake lever and handle grip.

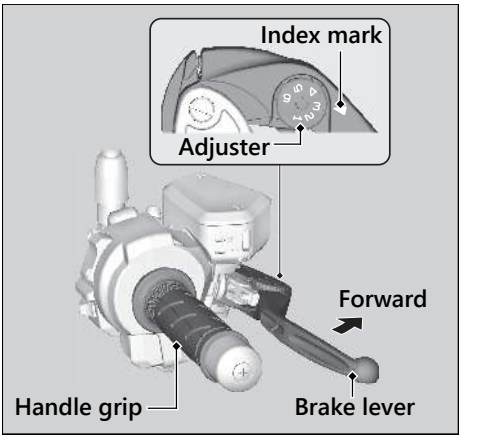
Adjustment method

Turn the adjuster until the numbers align with the index mark in the desired position during pushing the lever forward.

After adjustment, check that the lever operates correctly before riding.

NOTICE

Do not turn the adjuster beyond its natural limit.



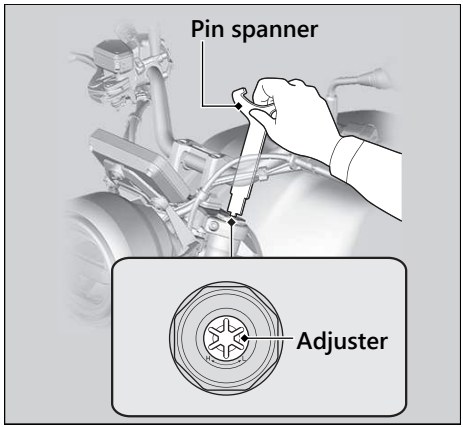
Adjusting the Front Suspension

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. P. 123

The spring preload adjuster has 20 turns. Turn clockwise to increase spring preload (hard), or turn counterclockwise to decrease spring preload (soft). The standard position is the 7 turns from the full soft position.



NOTICE

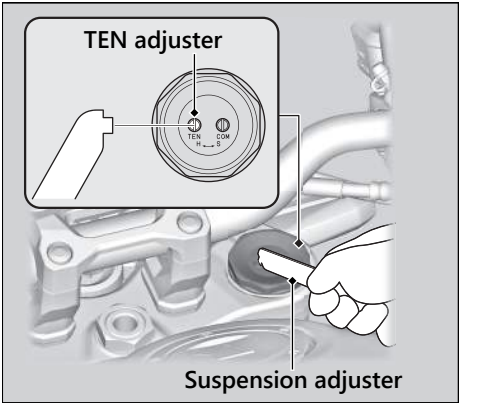
Do not turn the adjuster beyond its limits.

Rebound Damping

You can adjust the rebound damping by the TEN adjuster to suit the load or the road surface.

Turn the adjuster using the suspension adjuster provided in the tool kit. P. 123

The TEN adjuster has 5 1/2 turns.
Turn clockwise to increase rebound damping (hard), or turn counterclockwise to decrease rebound damping (soft). The standard position is 3 turns from the full hard position.



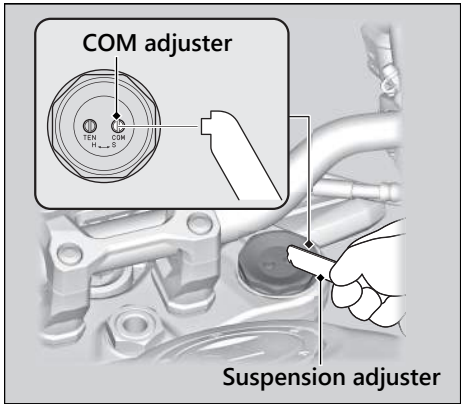
NOTICE
Do not turn the adjuster beyond its limits.

Compression Damping

You can adjust the compression damping by the COM adjuster to suit the load or the road surface.

Turn the adjuster using the suspension adjuster provided in the tool kit. P. 123

The COM adjuster has 7 turns.
Turn clockwise to increase compression damping (hard), or turn counterclockwise to decrease compression damping (soft). The standard position is 5 turns from the full hard position.



NOTICE
Do not turn the adjuster beyond its limits.

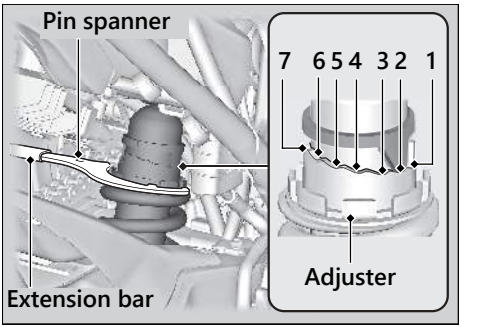
Adjusting the Rear Suspension

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 and extension bar provided in the tool kit.
➲P. 123

The preload adjuster has 7 positions. Positions 1 is for a decrease spring preload (soft), or turn the position 3 to 7 increase spring preload (hard). The standard position is 4.



NOTICE
Do not turn the adjuster beyond its limits. Attempting to adjust directly from 1 to 7 or 7 to 1 may damage the shock absorber.

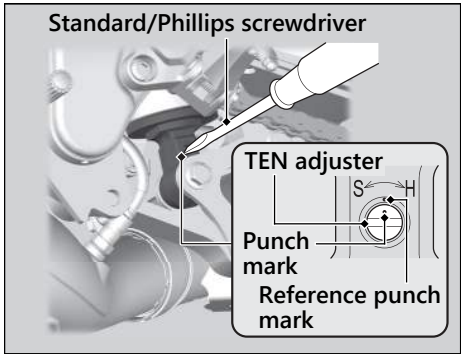
NOTICE
The rear shock absorber damper unit contains high pressure nitrogen gas. Do not attempt to disassemble, service, or improperly dispose of the damper. See your dealer.

Rebound Damping

You can adjust the rebound damping by the TEN adjuster to suit the load or the road surface.

Turn the adjuster using the Standard/Phillips screwdriver provided in the tool kit. P. 123

The TEN adjuster has 2 turns or more.
Turn clockwise to increase rebound damping (hard), or turn counterclockwise to decrease rebound damping (soft).
The standard position is 1/2 turns from the full hard position so that the punch mark on the adjuster aligns with the reference punch mark.



NOTICE
Do not turn the adjuster beyond its limits.

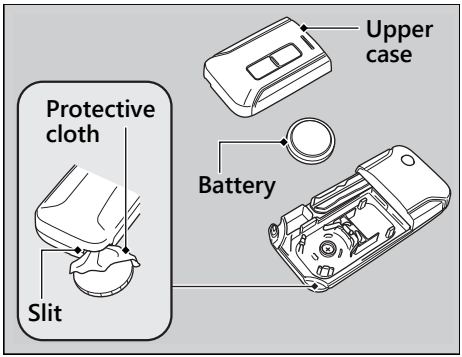
NOTICE
The rear shock absorber damper unit contains high pressure nitrogen gas. Do not attempt to disassemble, service, or improperly dispose of the damper. See your dealer.

Replacing the Honda SMART Key Battery

If the Honda SMART Key indicator flashes 5 times when the electrical system is turned 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 or CR2032H

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 one with the negative ⊖ side facing up.

3. Snap the upper and lower cases back together.

▶ Make sure that upper and lower cases are set in the right position.

⚠WARNING

CHEMICAL BURN HAZARD

The battery that powers the Honda SMART Key can cause severe internal burns and can even lead to death if swallowed.

Keep new and used batteries away from children.

If you suspect that a child has swallowed the battery, seek medical attention immediately.

CAUTION

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not expose to excessive heat such as sunshine, fire or the like, that can result in an explosion or the leakage of flammable liquid or gas during use, storage or transportation.
- Do not dispose of a battery into fire or a hot oven, or give mechanically crushing or cutting of a battery, that can result in an explosion.
- Do not subject to extremely low air pressure at high altitude that may result in an explosion or the leakage of flammable liquid or gas.

Europe only

The battery is manufactured by:

- Maxell, Ltd.
  1 Koizumi, Oyamazaki, Oyamazaki-cho, Otokuni-gun, Kyoto 618-8525 Japan
- Panasonic Energy Co., Ltd.
  1-1 Matsushita-cho, Moriguchi City, Osaka 570-8511, Japan
- TOSHIBA LIFESTYLE PRODUCTS & SERVICES CORPORATION
  1310 Omiya-cho, Saiwai-ku, Kawasaki, Kanagawa 212-0014, Japan

The battery is imported by:

Honda Motor Europe Ltd - Aalst Office
Wijngaardveld 1(Noord V), 9300 Aalst - Belgium



This product must not be treated as household waste.

Troubleshooting

Engine Will Not Start ..... P. 154
Overheating (High coolant temperature/ warning indicators are on) ..... P. 155
Warning Indicators On or Flashing ..... P. 156
- Low Oil Pressure Indicator ..... P. 156
- PGM-FI (Programmed Fuel Injection) Malfunction Indicator Lamp (MIL) ..... P. 157
- ABS (Anti-lock Brake System) Indicator ..... P. 158
- Torque Control Indicator ..... P. 159
- Honda SMART Key Indicator ..... P. 160

Other Warning Indications ..... P. 161
- Fuel Gauge Failure Indication ..... P. 161
- Coolant Temperature Gauge Failure Indication ..... P. 162

When the Honda SMART Key System Does Not Operate Properly ..... P. 163
Unlock the Ignition Switch in an Emergency ..... P. 165
Tyre Puncture ..... P. 168
Smartphone Pairing Trouble ..... P. 169
Electrical Trouble ..... P. 171
- Battery Goes Dead ..... P. 171
- Burned-out Light Bulb ..... P. 171
- Blown Fuse ..... P. 172

Starter Motor Operates But Engine Does Not Start

Check the following items:

- Check the correct engine starting sequence. ➡P. 96
- Check that there is petrol in the fuel tank.
- Check if the PGM-FI malfunction indicator lamp (MIL) is on.
  ▶ If the indicator lamp is on, contact your dealer as soon as possible.

Starter Motor Does Not Operate

Check the following items:

- Check the correct engine starting sequence. ➡P. 96
- Check for a blown fuse. ➡P. 172
- Check for a loose battery connection (➡P. 124) or battery terminal corrosion (➡P. 114).
- Check the condition of the battery. ➡P. 171

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

Overheating (High coolant temperature/warning indicators are on)

The engine is overheating when the following occurs:

- High coolant temperature indicator and warning indicator come on.
- Coolant temperature display flashes at WATER TEMP in the setting mode. P. 63
- Acceleration becomes sluggish.
  If this occurs, pull safely to the side of the road and perform the following procedure.

Extended fast idling may cause the high coolant temperature indicator and warning indicator to come on.

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 ❙ (On) position.
2. Check that the radiator fan is operating, and then turn the ignition switch to the ○ (Off) position.

   If the fan is not operating:

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

   If the fan is operating:

   Allow the engine to cool with the ignition switch in the ○ (Off) position.
3. After the engine has cooled, inspect the radiator hose and check if there is a leak. P. 131

   If there is a leak:

   Do not start the engine. Transport your vehicle to your dealer.
4. Check the coolant level in the reserve tank. P. 131
   ▶ Add coolant as necessary.
5. If 1-4 check normal, you may continue riding, but closely monitor the temperature gauge.

Low Oil Pressure Indicator

If the low oil pressure indicator and the warning indicator come 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. 129, P. 130
2. Start the engine.
   ▶ Only continue riding if the low oil pressure indicator and the warning indicator go off.

Rapid acceleration may momentarily cause the low oil pressure indicator and the warning indicator to come on, especially if the oil is at or near the low level.

If the low oil pressure indicator and the warning indicator stay 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 vehicle may have a leak or another serious problem. Have your vehicle inspected by your dealer.

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

FO, II FO type

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

Except FO, II FO type

Reasons for the indicator lamp to come on or blink

- Comes on if there is a problem with the engine emissions control system.
- Blinks when engine misfiring is detected.

What to do when the indicator lamp comes on

Avoid high speeds and immediately get your vehicle inspected at a dealer.

NOTICE

If you drive with the malfunction indicator lamp on, the emissions control system and the engine could be damaged.

What to do when the indicator lamp blinks

Park the vehicle in a safe place with no flammable items and wait at least 10 minutes with the engine stopped until it cools.

NOTICE

If the malfunction indicator lamp blinks again when restarting the engine, drive to the nearest dealer at 50 km/h (31 mph) or less. Have your vehicle inspected.

ABS (Anti-lock Brake System) Indicator

If the indicator operates in one of the following ways, you may have a serious problem with the ABS. Reduce your speed and have your vehicle 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 | (On) position.
- Indicator does not go off at speeds above 10 km/h (6 mph).

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

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

Torque Control Indicator

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

- Indicator comes and stays on (solid) while riding.
- Indicator does not come on when the ignition switch is turned to the | (On) position.
- Indicator does not go off at speeds above 5 km/h (3 mph).

Even when the Torque Control indicator is on, your vehicle will have normal riding ability without Torque Control function.

▶ When the indicator comes on while the Torque Control is in operation, you will have to completely close the throttle to regain normal riding ability.

The Torque Control indicator may come on if you rotate the rear wheel while your vehicle is lifted off the ground. In this case, turn the ignition switch to the ○ (Off) position, and then to the | (On) position again. The Torque Control indicator will go off after your speed reaches 5 km/h (3 mph).

Honda SMART Key Indicator

Replacing the Honda SMART Key Battery P. 150

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

The Honda SMART Key indicator flashes when communication between your vehicle and Honda SMART Key stops after turning the ignition switch to the | (On) position.
It is probably caused by the following:

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

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

If you turn the ignition switch to the ○ (Off) or 🔒 (Lock) position while the Honda SMART Key indicator is flashing, the Honda SMART Key indicator will flash faster for about 20 seconds, automatically go off, and then the ignition switch will lock.

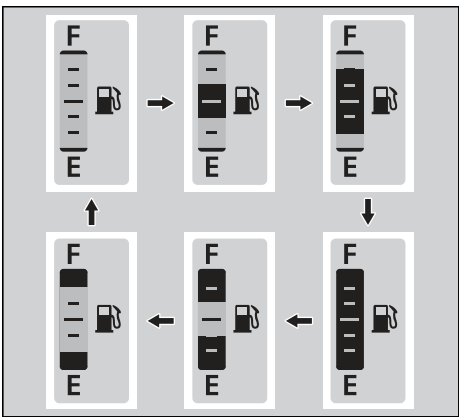
▶ Turn signals blink at the beginning and end of this function.

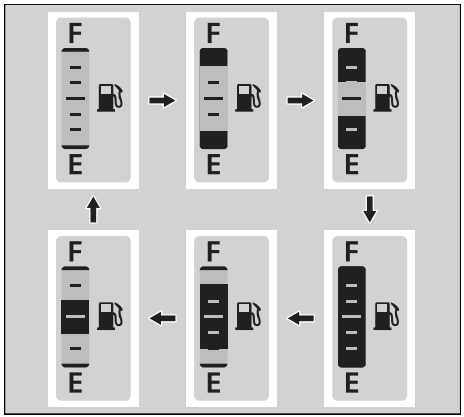
To stop this flashing, press and hold the ignition switch for more than 2 seconds. After the flashing stop, the ignition switch is locked.

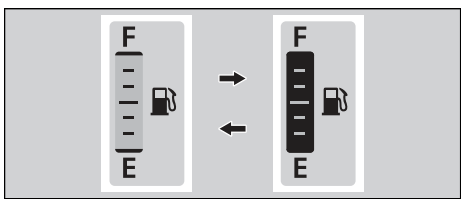
If you do not have the Honda SMART Key, the ignition switch can be unlocked in another way. P. 165

Fuel Gauge Failure Indication

If the fuel system has an error, the fuel gauge indicators will be displayed as shown in the illustration.
If this occurs, see your dealer as soon as possible.

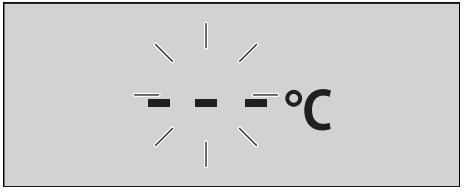






Coolant Temperature Gauge Failure Indication

If the cooling system has an error, "---" blinks as shown in the illustration. If this occurs, see your dealer as soon as possible.



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 press the ON/OFF button on the Honda SMART Key.
  If the Honda SMART Key LED is red, activate the Honda SMART Key system. ➡P. 76
  If the Honda SMART Key LED does not respond, replace the battery. ➡P. 150
- 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 conditions:
  - ▶ 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.

Continued

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

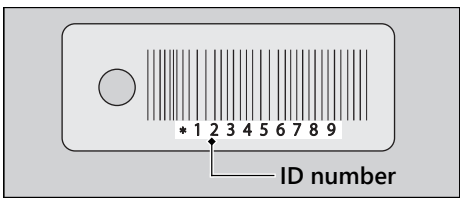
- Make sure that you do not use a broken Honda SMART Key.
  If you use a broken Honda SMART Key, the Honda SMART Key system cannot be activated. Bring the ID tag to your dealer.

- Check the battery condition and battery lead in your vehicle.
  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.

Set up to ID number input mode

1. Check the ID number on the ID tag.
2. Press and hold the ignition switch for more than 4 seconds.
   ▶ The Honda SMART Key indicator flashes for 5 seconds.
3. Press the ignition switch while the Honda SMART Key indicator is flashing.
   ▶ The Honda SMART Key indicator stay lit, and the ID number input mode turns on.



ID number input

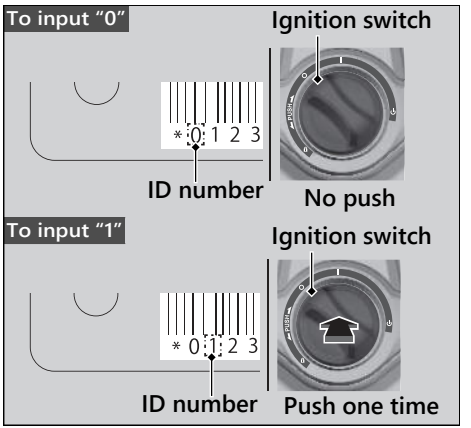
You can input your ID number by pressing the ignition switch when the ignition switch is (Off) or (Lock) position. Input the ID number on the ID tag in order from the left in turn by pressing the ignition switch.

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

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

Example:

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



ID number input success

After the last ID number is input, the Honda SMART Key indicator goes off, and when it comes on again the ignition switch is unlocked.

Turn the ignition switch to the ❙ (On) position within 6 minutes. You can start the engine.

To lock the ignition switch, turn the ignition switch to the ○ (Off), or 🔒 (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 ○ (Off), or 🔒 (Lock) position for about 6 minutes after the ID number is successfully inputted.

When the ignition switch is locked, the Honda SMART Key indicator goes off, and the turn signals flash once.

To unlock the ignition switch again, redo the "Unlock the Ignition Switch in an Emergency" procedure. ➡P. 165

ID number input failure

After the last ID number is input, the Honda SMART Key indicator flash 3 times, and then go off.

The ignition switch does not unlock.

Redo the "Unlock the Ignition Switch in an Emergency" procedure. P. 165

ID number input cancel

If you make a mistake while inputting your ID, do one of the following:

- Press and hold the ignition switch until the Honda SMART Key indicator to turn off.
- Do not press the ignition switch, just wait for the Honda SMART Key indicator to turn off.

Redo the "Unlock the Ignition Switch in an Emergency" procedure. P. 165

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 vehicle 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 vehicle 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.

Smartphone Pairing Trouble

Symptom	Cause/remedy
Unable to pair a smartphone	Some smartphones you use may be incompatible with the vehicle and/or the operable functions may be limited.
	Check that the vehicle and smartphone are both in pairing mode. ➡P. 88
	Check your surroundings to make sure no other device being paired is present before re-pairing. Presence of a *Bluetooth*® device in the vicinity sometimes affects the pairing due to radio wave interference, etc.
	When connecting a smartphone, make sure no other *Bluetooth*® device readied for pairing is present. Presence of a *Bluetooth*® device in the vicinity sometimes affects the pairing due to radio wave interference, etc.
	Check that the vehicle pairing information is deleted from your smartphone *Bluetooth*® setting. Depending on the smartphone used, connecting may not be possible unless the pairing information is deleted.

Symptom	Cause/remedy
Unable to connect a smartphone	Depending on the smartphone you use, it may take some time for the vehicle to connect to a smartphone and to start using a dedicated application.
	The connection may be temporarily disconnected when starting the engine, which is normal and not a malfunction. The smartphone will be reconnected after the engine is started.
	Check that *Bluetooth*® status icon comes on. Refer to the instruction manual of your smartphone and check that your smartphone is in connectable state.
	Some smartphones you use may not connect automatically. For connecting, follow the instructions in the instruction manual of your smartphone.
	You cannot connect two or more smartphones at once.

If the problem continues after the above-described inspection, have your vehicle inspected by your dealer.

Battery Goes Dead

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

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

Burned-out Light Bulb

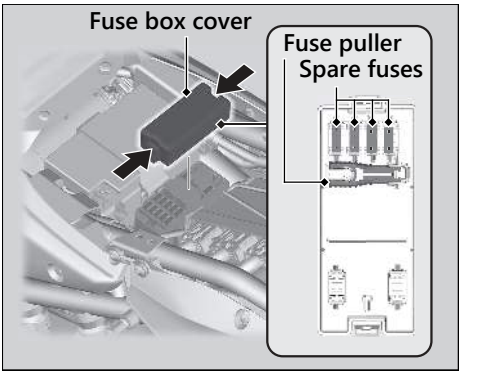
All light bulbs on the vehicle are LEDs. If there is an LED which is not turned on, see your dealer for servicing.

Blown Fuse

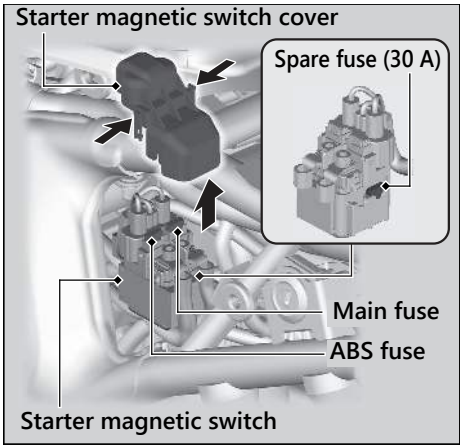
Before handling fuses, see "Inspecting and Replacing Fuses." P. 115

Fuse Box Fuses

1. Remove the seat. P. 127
2. Remove the fuse box cover.
3. Pull the fuses out one by one with the provided fuse puller and check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.
4. Reinstall the fuse box cover.
5. Reinstall the seat.



Main Fuse & ABS Fuse



1. Remove the seat. ➡ P. 127
2. Remove the left side cover. ➡ P. 128
3. Disconnect the negative ⊖ terminal from the battery. ➡ P. 124
4. Remove the starter magnetic switch cover.
5. Pull the main fuse and ABS fuse out one by one and check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.
6. Reinstall parts in the reverse order of removal.

NOTICE

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

Information

Service Diagnostic Recorders..... P. 175
Keys..... P. 176
Instruments, Controls, & Other Features... P. 179
Caring for Your Vehicle..... P. 188
Storing Your Vehicle..... P. 192
Transporting Your Vehicle ..... P. 193
You & the Environment ..... P. 193
Serial Numbers ..... P. 195
Fuels Containing Alcohol ..... P. 196
Catalytic Converter ..... P. 197

Service Diagnostic Recorders

Your vehicle is equipped with service-related devices that record information about powertrain performance and riding conditions. The data can be used to help technicians diagnose, repair and maintain the vehicle. This data may not be accessed by anyone else except as legally required or with the permission of the vehicle owner.
However, this data may be accessed by Honda, its authorised dealers and authorised repairers, employees, representatives, and contractors only for the purpose of the technical diagnosis, research, and development of the vehicle.

Keys

Honda SMART Key

The Honda SMART Key is equipped with a mechanical key.
Carrying the Honda SMART Key allows you to perform the following operations:

- Locking or unlocking the ignition switch.
- Locking or unlocking the steering.
- Opening the fuel fill cap.
- Remove the rear seat

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

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

Also store a copy of your ID number and a key tag, in a safe place other than your vehicle.

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

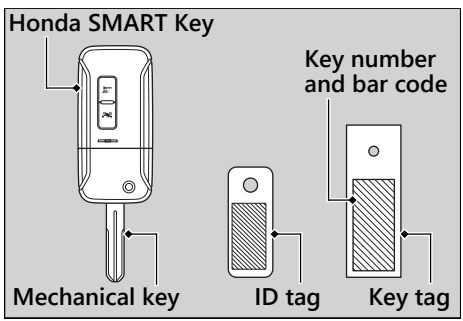
- Do not drop the Honda SMART Key or set heavy objects on them.
- Protect the Honda SMART Key from direct sunlight, high temperature, and high humidity.
- Do not scratch or puncture.
- Do not store near any magnetized products such as a magnetized key chain.
- Always keep the Honda SMART Key away from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

- If fuel, wax, or grease adhere to the Honda SMART Key, wipe it off immediately to avoid cracking or warping.
- Do not disassemble the Honda SMART Key other than when changing a battery. Only the cover of the Honda SMART Key can be disassembled. Do not disassemble other parts.
- Do not lose your Honda SMART Key. If you lose it, you will need to register a new Honda SMART Key. See your dealer with your ID tag for registration.

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

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

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



EU Directive

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

CE

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.

Korea only

무선설비의 명칭	FOB	Ninebea AccessSolutions
	ECU	Honda Lock
기자재의 명칭 Equipment Name	FOB	혼형스플릿 무선키기(태이텍션호 무선키기
	ECU	미약전계강도 무선기기
モデル名	FOB	HLSS-9B
	ECU	HLSS-6A
製造者名	FOB	Ninebea AccessSolutions Inc.
	ECU	Honda Lock Mfg. Co., Ltd.
製造国	共通	Vietnam (베트남)
KCのマーク	共通	
識別番号	FOB	申請中
	ECU	R-R-HLJ-HLSS-6A

Taiwan only

根據LP0002低功率射頻器材技術規範_章節3.8.2:
取得審驗證明之低功率射頻器材，非經核准，公司、商號或使 用者均不得擅自變更頻率，加大功率或變更原設計之特性及功 能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經 發現有干擾現象時，應立即停用， 並改善至無干擾時方得繼續使用。 前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻 射性電機設備之干擾。

Instruments, Controls, & Other Features

Ignition Switch

Leaving the ignition switch in the ❙ (On) position 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 to the ○ (Off) position. Failing to do so will drain the battery.

Odometer

The display remains at 999,999 when the odometer exceeds 999,999.

Tripmeter

Each tripmeter resets to 0.0 when the trip mileage exceeds 9,999.9.

Document Bag

The owner's manual, registration, and insurance information can be stored in the plastic document bag located in the reverse side of the seat. P. 127

Ignition Cut-off System

IMU (Inertial Measurement Unit) sensor automatically stops the engine and fuel pump if the vehicle falls over. To reset the IMU, you must turn the ignition switch to the ○ (Off) position and back to the | (On) position before the engine can be restarted.

If a failure of the IMU is detected, the engine and fuel pump will not stop automatically when the vehicle falls over.

Assist-slipper Clutch System

The assist-slipper clutch system helps to prevent the rear tyre from locking up when the deceleration of your vehicle produces a strong engine braking effect. It also makes the clutch lever operation feel lighter.

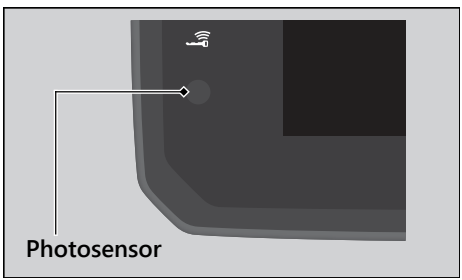
Use only MA classification engine oil for your vehicle. Using engine oil other than MA classification oil could result in damage to the assist-slipper clutch system.

Throttle by Wire System

This model is equipped with a Throttle by Wire System.
Do not put magnetized items or items susceptible to magnetic interference near the right handlebar switches.

Automatic Brightness Control

The backlight brightness and background colour of the meter will be controlled automatically when "AUTO" is selected on the "BRIGHTNESS" and "BACKGROUND" settings.
P. 51 P. 52
Ambient brightness is detected by the photosensor.
Do not damage or cover the photosensor. Otherwise, the automatic brightness control may not work properly.



Honda RoadSync

Europe only

EU Directive

CE

Simplified EU DoC:

Hereby, Visteon Corporation declares that the radio equipment type SAB01 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: http://www.visteondocs.com/

български	С това фирмата **Visteon Corporation** декларира, че частта **SAB01**е в съответствие със съществените изисквания и други приложими разпоредби на директивата 2014/53/ЕС.
Česky	**Visteon Corporation** tímto prohlašuje, že tento **SAB01**je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 2014/53/EU.
Dansk	Undertegnede **Visteon Corporation** erklærer herved, at følgende udstyr **SAB01**overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EU.
Deutsch	Hiermit erklärt **Visteon Corporation**, dass sich das Gerät **SAB01**in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 2014/53/EU befindet.
Eesti	Käesolevaga kinnitab **Visteon Corporation** seadme **SAB01**vastavust direktiivi 2014/53/EL põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
English	Hereby, **Visteon Corporation**, declares that this **SAB01**is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.
Español	Por medio de la presente **Visteon Corporation** declara que el **SAB01**cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/UE.

Ελληνική	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ **Visteon Corporation** ΔΗΛΩΝΕΙ ΟΤΙ **SAB01**ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/ΕΚ.
Français	Par la présente **Visteon Corporation** déclare que l'appareil **SAB01**est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/UE.
Italiano	Con la presente **Visteon Corporation** dichiara che questo **SAB01** è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/UE.
Latviski	Ar šo **Visteon Corporation** deklarē, ka **SAB01** atbilst Direktīvas 2014/53/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių	Šiuo **Visteon Corporation** deklaruoja, kad šis **SAB01** atitinka esminius reikalavimus ir kitas 2014/53/EB Direktyvos nuostatas.
Nederlands	Hierbij verklaart **Visteon Corporation** dat het toestel **SAB01**in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EG.
Malti	Hawnhekk, **Visteon Corporation,** jiddikjara li dan **SAB01** jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 2014/53/UE.
Magyar	Alulírott, **Visteon Corporation** nyilatkozom, hogy a **SAB01** megfelel a vonatkozó alapvetõ követelményeknek és az 2014/53/EU irányelv egyéb elõírásainak.
Polski	Niniejszym **Visteon Corporation** oświadcza, że **SAB01** jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 2014/53/UE.
Português	**Visteon Corporation** declara que este **SAB01** está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/UE.
Slovensko	**Visteon Corporation** izjavlja, da je ta **SAB01** v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 2014/53/ES.
Slovensky	**Visteon Corporation** týmto vyhlasuje, že **SAB01**spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 2014/53/EÚ.
Suomi	**Visteon Corporation** vakuuttaa täten että **SAB01** tyyppinen laite on direktiivin 2014/53/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska	Härmed intygar **Visteon Corporation** att denna **SAB01** står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU.

Continued

Íslenska	Hér með lýsir **Visteon Corporation** yfir því að **SAB01** er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 2014/53/EU.
Norsk	**Visteon Corporation** erklærer herved at utstyret **SAB01** er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 2014/53/EF.
Crnogorski jezik, Црногорски језик	Ovim, **Visteon Corporation**, izjavljuje da ovaj **SAB01** je usklađen sa bitnim zahtjevima i drugim relevantnim odredbama Direktive 2014/53/UE.
Română	Prin prezenta, **Visteon Corporation**, declară că acest **SAB01** respectă cerințele esențiale și alte dispoziții relevante din Directiva 2014/53 / UE.
Türkiye	**Visteon Corporation**, işbu **SAB01** 'in 2014/53 / EU Direktifinin esas şartları ve diğer ilgili hükümlerine uygun olduğunu beyan eder.
Hrvatska	Ovime **Visteon Corporation** izjavljuje da je ovaj **SAB01** u skladu s osnovnim zahtjevima i ostalim relevantnim odredbama Direktive 2014/53 / EU.

The following information shall also be included in the case of radio equipment intentionally emitting radio waves:

a. Frequency band : **2.4 GHz**

b. Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates. **Max output power = 3.5 dBM**

U.K. only



Hereby, Visteon Corporation declares that the radio equipment type SAB01 is in compliance with the relevant statutory requirement. The full text of the Declaration of Conformity is available at the following internet address: www.visteondocs.com

Frequency band : _2.4_ GHz

a. Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates.
b. Max output power = _3.5_ dBM

Korea only



해당 무선설비는 운용 중 전파혼신 가능성이 있으므로, 인명 안전과 관련된 서비스는 할 수 없습니다.

(It means that, as this radio equipment has the possibility of radio interference, this equipment cannot be used for any services related to human life safety)

KC logo along with the following information (Conformity assessment information -인증 정보)):

Company name of Applicant (인증 받은 자의 상호): Visteon Corporation

Manufacturing date (제조연월일): Refer Physical label on Unit.

Manufacturer/ Country of origin (제조자/제조국가): USA

Equipment name/ Model name (기자재의 명칭/ 모델명): SAB01

Conformity assessment number (인증번호): **R-R-VC1-SAB01**

Taiwan only

CCAH22LP5190T1

1. Product name: Bluetooth unit
2. Model name: SAB01
3. Manufacturer: Visteon Corporation

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

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前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾

Serbia only

И 005 22

Caring for Your Vehicle

Frequent cleaning and polishing is important to ensure the life of your Honda. A clean vehicle makes it easier to spot potential problems.
In particular, seawater and salts used to prevent ice on roads promote the formation of corrosion. Also, mud and dust may accelerate front suspension wear and cause oil leaks. Always wash your vehicle thoroughly after riding on coastal, treated, muddy, or dusty roads.

Washing

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

1. Rinse your vehicle thoroughly using a low pressure garden hose to remove loose dirt.
2. If necessary, use a sponge or a soft towel with mild cleaner to remove road grime.
   ▶ Clean the headlight lens, panels, and other plastic components with extra care to avoid scratching them.
   Avoid directing water into the air cleaner, muffler, and electrical parts.
3. Thoroughly rinse your vehicle with plenty of clean water and dry with a soft, clean cloth.
4. After the vehicle dries, lubricate any moving parts.
   ▶ Make sure that no lubricant spills onto the brakes or tyres. Brake discs, pads, drums, or shoes contaminated with oil will suffer greatly reduced braking effectiveness and can lead to a crash.
5. Lubricate the drive chain immediately after washing and drying the vehicle.
6. Apply a coat of wax to prevent corrosion.
   ▶ Avoid products that contain harsh detergents or chemical solvents. These can damage the metal, paint, and plastic on your vehicle.
   Keep the wax clear of the tyres and brakes.
   ▶ If your vehicle 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 under the seat can damage your documents and other belongings.
- Do not direct water at the air cleaner:
  - ▶ Water in the air cleaner can prevent the engine from starting.
- Do not direct water near the headlight:
  - ▶ The headlight's inside lens may fog temporarily after washing or while riding in the rain. This does not impact the headlight function.
    However, if you see a large amount of water or ice accumulated inside the lens(es), have your vehicle inspected by your dealer.
- Do not use wax or polishing compounds on mat painted surfaces:
  - ▶ Use a soft cloth or sponge, plenty of water, and a mild detergent to clean mat painted surfaces. Dry with a soft clean cloth.

Continued

Aluminium Components

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

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

Panels

Follow these guidelines to prevent scratches and blemishes:

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

Exhaust Pipe and Muffler

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

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

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

If 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 Vehicle

If you store your vehicle outdoors, you should consider using a full-body cover.
If you won't be riding for an extended period, follow these guidelines:

- Wash your vehicle and wax all painted surfaces (except mat painted surfaces). Coat chrome pieces with rust-inhibiting oil.
- Lubricate the drive chain. P. 117
- Place your vehicle on a maintenance stand and position a block so that both tyres are off the ground.
- After rain, remove the body cover and allow the vehicle to dry.
- Remove the battery (P. 124) to prevent discharge. Fully charge the battery and then place it in a shaded, well-ventilated area.
  - ▶ If you leave the battery in place, disconnect the negative ⊖ terminal to prevent discharge.

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

Transporting Your Vehicle

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

NOTICE

Towing your vehicle with a wheel or wheels on the ground can cause serious damage to the transmission.

You & the Environment

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

Choose Sensible Cleaners

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

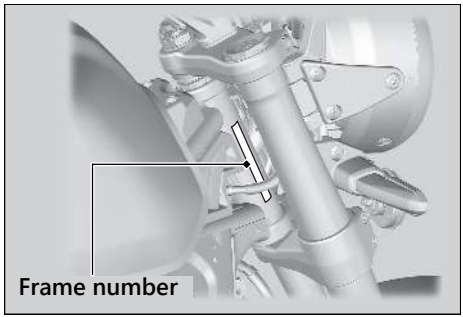
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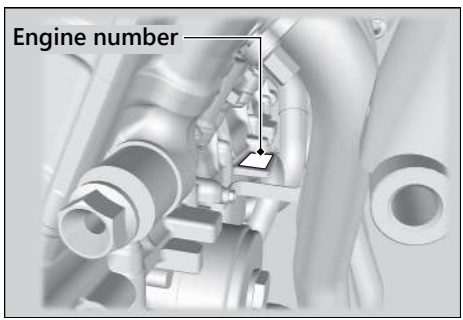
Recycle Wastes

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 vehicle and are required in order to register your vehicle. They may also be required when ordering replacement parts. 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 vehicle:

- 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 vehicle 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 gases 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 vehicle's catalytic converter:

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

■ Main Components

Overall length	2,135 mm (84.1 in)	
Overall width	**Except KO, II KO type**	835 mm (32.9 in)
	KO, II KO type	825 mm (32.5 in)
Overall height	1,125 mm (44.3 in)	
Wheelbase	**Except FO, II FO type**	1,455 mm (57.3 in)
	FO, II FO type	1,450 mm (57.1 in)
Minimum ground clearance	135 mm (5.3 in)	
Caster angle	25° 0′	
Trail	98 mm (3.9 in)	
Curb weight	**ED, II ED type**	214 kg (472 lb)
	Except ED, II ED type	215 kg (474 lb)
Maximum weight capacity *1	**Except KO, II KO type**	184 kg (406 lb)
	KO, II KO type	164 kg (362 lb)
Maximum luggage weight *2	**ED, II ED type**	14 kg (31 lb)
Passenger capacity	Rider and 1 passenger	
Minimum turning radius	2.80 m (9.2 ft)	
Displacement	1,000 cm^3 (61.0 cu-in)	
Bore x stroke	76.0 x 55.1 mm (2.99 x 2.17 in)	

Compression ratio	11.7 : 1	
Fuel	**ED, II ED type**	Unleaded petrol 95 RON or higher
	Except ED, II ED type	Unleaded petrol Recommended: 95 RON or higher
Fuel containing alcohol	ETHANOL up to 10 % by volume	
Tank capacity	16.0 L (4.23 US gal, 3.52 Imp gal)	
Battery	**ED, II ED type** YTZ10S 12 V-8.6 Ah (10 HR)/12 V-9.1 Ah (20 HR)	
	Except ED, II ED type YTZ10S 12 V-8.6 Ah (10 HR)	
Gear ratio	1st	2.642
	2nd	1.941
	3rd	1.583
	4th	1.333
	5th	1.137
	6th	0.967
Reduction ratio (primary / final)	**Except FO, II FO type**	1.717 / 2.812
	FO, II FO type	1.717 / 2.625

*1 : Including rider, passenger, all luggage, and accessories
*2 : Includes the weight of the luggage and added accessories.

Service Data

Tyre size	Front	120/70ZR17M/C (58W)
	Rear	180/55ZR17M/C (73W)
Tyre type	Radial, tubeless	
Recommended Tyre	Front	BRIDGESTONE BATTLAX HYPERSPORT S22F BB
		DUNLOP Roadsport2 U
	Rear	BRIDGESTONE BATTLAX HYPERSPORT S22R BB
		DUNLOP Roadsport2 U
Tyre category of use *1	Normal	Permitted
	Special	Not Permitted
	Snow	Not Permitted
	Moped	Not Permitted
Tyre air pressure	Front	250 kPa (2.50 kgf/cm^2, 36 psi)
	Rear	290 kPa (2.90 kgf/cm^2, 42 psi)
Minimum tread depth	Front	1.5 mm (0.06 in)
	Rear	2.0 mm (0.08 in)
Spark plug	(standard)	IMR9E-9HES (NGK) or VUH27ES (DENSO)
Spark plug gap	0.8 - 0.9 mm (0.03 - 0.04 in)	
Idle speed	1,200 ± 100 rpm	

*1 : EU regulation

Recommended engine oil	Honda 4-stroke motorcycle oil API Service Classification SJ or higher, excluding oils marked as "Energy Conserving" or "Resource Conserving," SAE 10W-30, JASO T 903 standard MA	
Engine oil capacity	After draining	2.6 L (2.7 US qt, 2.3 Imp qt)
	After draining & engine oil filter change	2.8 L (3.0 US qt, 2.5 Imp qt)
	After disassembly	3.5 L (3.7 US qt, 3.1 Imp qt)
Recommended brake fluid	Honda DOT 4 Brake Fluid	
Cooling system capacity	2.65 L (2.80 US qt, 2.33 Imp qt)	
Recommended coolant	**Except FO, II FO type**	Pro Honda HP Coolant
	FO, II FO type	HONDA PRE-MIX COOLANT
Recommended drive chain lubricant	Drive chain lubricant designed specifically for O-ring chains If not available, use SAE 80 or 90 gear oil.	
Drive chain slack	**Except FO, II FO type**	58 - 63 mm (2.3 - 2.5 in)
	FO, II FO type	48 - 53 mm (1.9 - 2.1 in)

Standard drive chain	RK525ROZ9	
	No. of links	**Except FO, II FO type** 120
		FO, II FO type 118
Standard sprocket size	Drive sprocket	16T
	Driven sprocket	**Except FO, II FO type** 45T
		FO, II FO type 42T

Bulb

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

Fuse

Main fuse	30 A
Other fuse	30 A, 15 A, 10 A, 7.5 A

Online Owner's Manual
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