# HORNET (CB750AC)

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

India only

For any query or assistance, please call Customer care number: 1800 103 3434 (Toll free)

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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 CB750AC VII ED type.

**Destination Codes**

| Code<br>CB750AC | Destination |
|---|---|
| V ED | European direct sales, U.K., Serbia, Turkey, India, Tahiti, South Africa, Singapore, Hong Kong, Ukraine, New Zealand, Argentina, Guatemala, Paraguay, Costa Rica, Honduras, El Salvador, Dominican Republic, North Macedonia, Montenegro, Israel, Gibraltar, Morocco |

| | |
|---|---|
| VII ED | European direct sales, U.K., Serbia, Turkey, India, Tahiti, South Africa, Singapore, Hong Kong, Ukraine, New Zealand, Argentina, Guatemala, Paraguay, Costa Rica, Honduras, El Salvador, North Macedonia, Montenegro, Israel, Gibraltar, Morocco |
| VI ED, VIII ED | European direct sales, U.K., Serbia, Turkey, North Macedonia, Montenegro, Israel, Gibraltar |

*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. 18

**Maintenance** P. 102

**Troubleshooting** P. 140

**Information** P. 157

**Specifications** P. 179

# 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. 6
**Safety Precautions** ..... P. 10
**Riding Precautions** ..... P. 11
**Accessories & Modifications** ..... P. 16
**Loading** ..... P. 17

# 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. 10

## 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.

*Continued* 

## 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. 17), and do not modify your vehicle or install accessories that would make your vehicle unsafe (P. 16).

## If You are Involved in a Crash

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

If you decide to continue riding, first turn the ignition switch to the ○ (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.

## 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



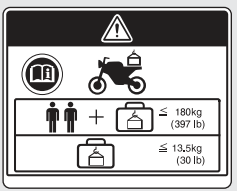
**BATTERY LABEL**
**DANGER**

- 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.

*Continued* 




**RADIATOR CAP LABEL**
**DANGER**
NEVER OPEN WHEN HOT.
Hot coolant will scald you.
Relief pressure valve begins to open at **1.1 kgf/cm²**.

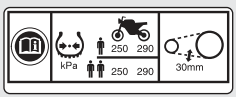



**ACCESSORIES AND LOADING WARNING LABEL**
**WARNING**
ACCESSORIES AND LOADING

- 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 **180 kg (397 lb)**, which is the maximum weight capacity.
- The luggage weight must not exceed **13.5 kg (30 lb)** under any circumstances.
- The fitting of large fork-mounted or large handlebar mounted fairing is not recommended.



**REAR CUSHION LABEL**
GAS FILLED
Do not open. Do not heat.




**TYRE INFORMATION & DRIVE CHAIN LABEL**
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)**
Keep chain adjusted and lubricated.
Freeplay **25 - 35 mm (1.0 - 1.4 in)**




**SAFETY REMINDER LABEL**
For your protection, always wear helmet, protective apparel.
**FUEL LABEL**
Unleaded petrol only
ETHANOL up to 10 % by volume

# 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.

- 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 and remove the key when leaving the vehicle unattended.
  Use of an anti-theft device is also recommended.

*Continued*

### 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 and remove the key. P. 71

## 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. 177
- 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 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.
Additionally, the system will limit torque during a wheelie while accelerating 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. 179
- Tie all luggage securely, evenly balanced, and close to the centre of the vehicle.
- Do not place objects near the lights or the muffler.

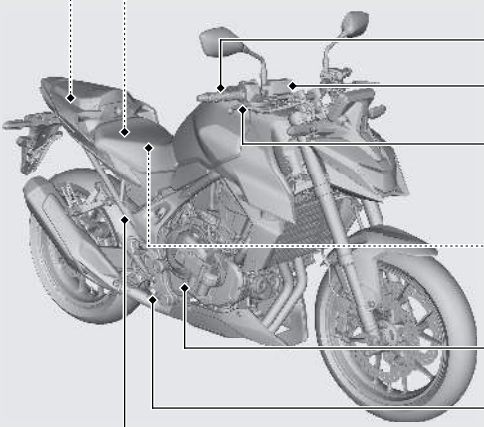
**⚠WARNING**

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







Tool kit P.100

Document bag P.100

Throttle grip P.137

Front brake fluid reservoir P.128

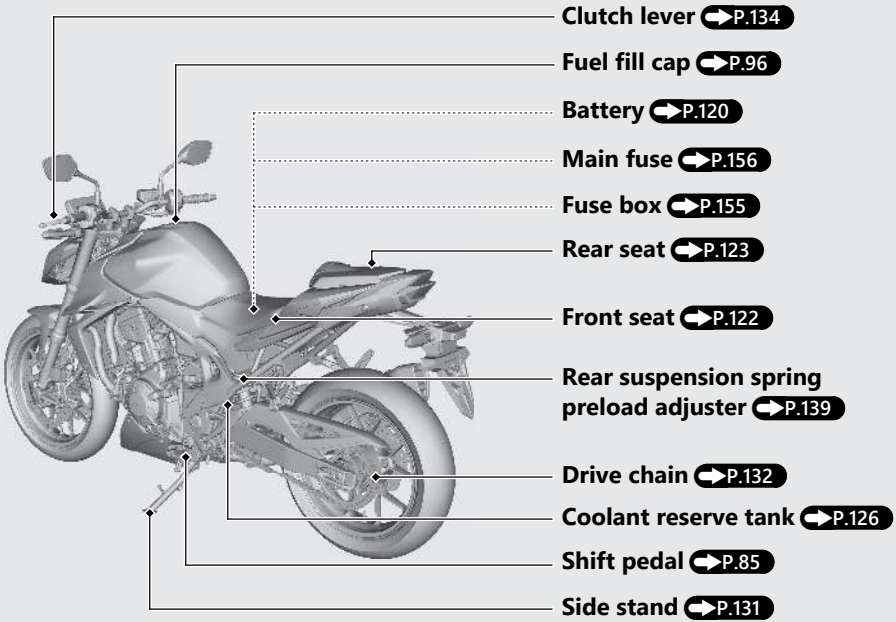
Front brake lever P.138

Data link connector

Engine oil fill cap/dipstick P.124

Rear brake pedal

Rear brake fluid reservoir P.128


Clutch lever P.134
Fuel fill cap P.96
Battery P.120
Main fuse P.156
Fuse box P.155
Rear seat P.123
Front seat P.122
Rear suspension spring preload adjuster P.139
Drive chain P.132
Coolant reserve tank P.126
Shift pedal P.85
Side stand P.131

# Instruments

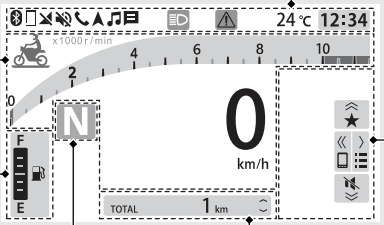





Do not operate the display functions for a long time with the engine stopped. It may result in a low (or dead) battery.

**Speedometer/Tachometer/Riding mode area** P.24

**Status bar** P.23




**Selectable area** P.32

**Fuel gauge** P.25

**INFO area** P.26 **/**
**Pop-up information** P.63

**Gear position indicator**

The gear position is shown in the gear position indicator.

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

It also shows information for Honda E-Clutch. P.86

## Instruments *(Continued)*

The meter has three display types.

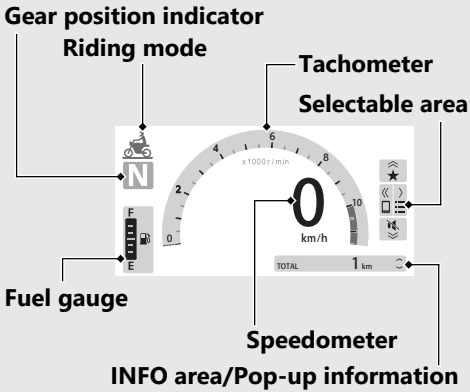
The display and arrangement change depending on each display type.

Initial setting is BAR.

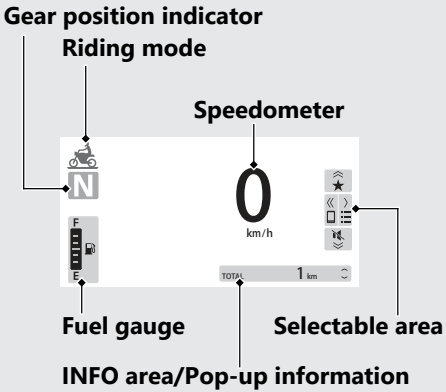
▶ Tachometer is available when display type is BAR or CIRCLE.

**To change the display type:** P.47

Display type: CIRCLE




Display type: SIMPLE



**Status bar**




**Status icons**
Displays the Honda RoadSync status. P.72

**High beam indicator**

**Warning indicator**
Comes on when your vehicle has warning information.
Also it is displayed as pop-up information in the INFO area. P.63

**Air temperature gauge** P.52
Displays air temperature.
Display range: -10 to 50 ℃
- Below -10 ℃: "---" is displayed.
- 50 ℃ or more: "50 ℃" is flashed.

**Clock (12-hour or 24-hour display)**
**To set the clock:** P.53

# Instruments *(Continued)*

## Speedometer/Tachometer/Riding mode area

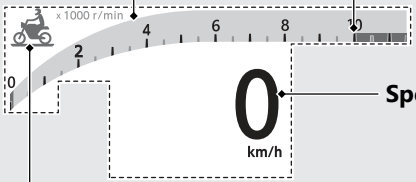
Display type: BAR

**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.45
**DISPLAY TYPE setting:** P.47

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



## Gear position indicator




**Gear position indicator**
The gear position is shown in the gear position indicator.

## Fuel gauge




Remaining fuel when only 1st (E) segment starts flashing: approximately 3.1 L (0.82 US gal, 0.68 Imp gal)




▶ **If the fuel gauge indicator flashes in a repeat pattern or turns off:** P.148

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.

# Instruments *(Continued)*

## Multi-information display

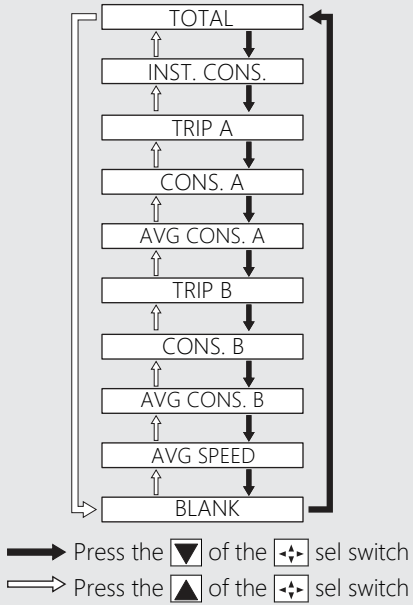
### INFO area

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

**FAVORITE INFO setting:** P.50

The following items are displayed by default.

- Odometer [TOTAL]
- Current fuel mileage [INST. CONS.]
- Tripmeter A [TRIP A]
- Tripmeter B [TRIP B]

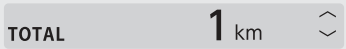


You can select from below items as display information.
If no item is selected, the INFO area is not displayed.

- 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 SPD]
- BLANK display

### Odometer [TOTAL]

Total distance ridden.




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

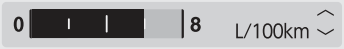
## Instruments *(Continued)*

### Current fuel mileage [INST. CONS.]

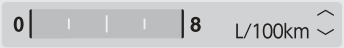
Displays the current instant fuel mileage.

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

- 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.





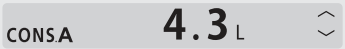


When "----.-" is displayed, go to your dealer for service.

**To reset the tripmeter: P.35**

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

**To reset the fuel consumption: P.35**

## Instruments *(Continued)*

### 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, MPG, or mile/L)

- Above 299.9 L/100km : "---.-" is displayed.
- Less than 0.1 L/100km : "0.0" is displayed.
- More than 299.9 km/L (MPG 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.35

### 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 traveled 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)*

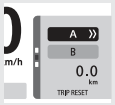
## Selectable area

You can select the following:

- Riding mode setting P.33
- FAVORITE SWITCH (TRIP RESET mode) P.33
- General menu P.33
- Honda RoadSync operation P.72
- Honda RoadSync mute

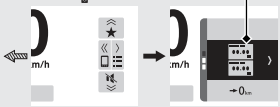
**Selectable area**

**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.81

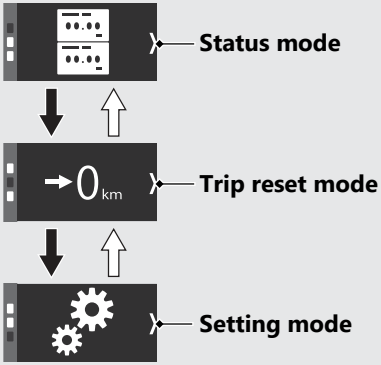
**FAVORITE SWITCH (TRIP RESET mode)**

FAVORITE SWITCH is the same as TRIP RESET mode P.35

**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.




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

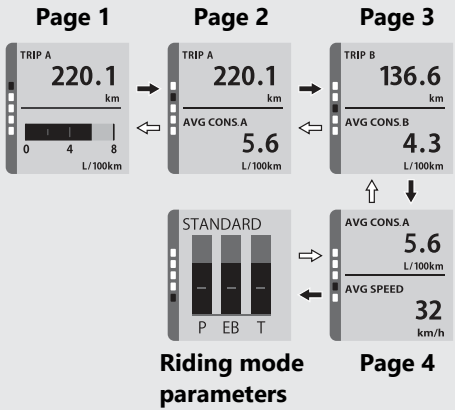
Display the information selected in the FAVORITE INFO setting.

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.

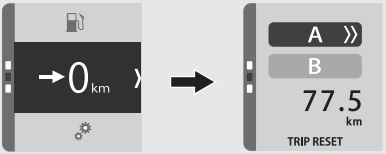
The items that you can select as display information are the same as those in the INFO area.

**FAVORITE INFO:** P.50

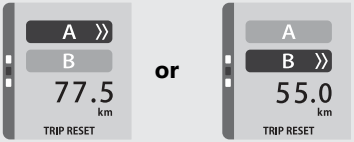


### TRIP RESET mode

1. Select the TRIP RESET mode and press the ▶ of the sel switch. P.33

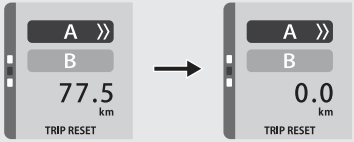



2. Select the tripmeter A or B using the ▲ or ▼ of the sel switch.




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 2 or more segments after refuelling.

You can turn on or off this function.

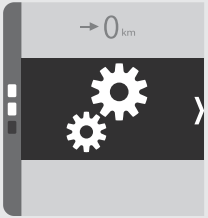
**TRIP A AUTO RESET:** P.46

## Instruments *(Continued)*

### Setting mode

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

▶ To shift to setting mode, stop the vehicle.




**Setting mode: P.37**

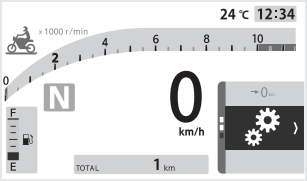
## Setting mode

### To shift to the setting mode

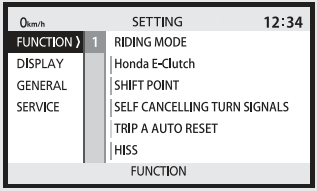
Press the ▶ of the ◂▸ sel switch when the selectable area displays setting mode. P.36

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

**Ordinary display**




**Setting mode**

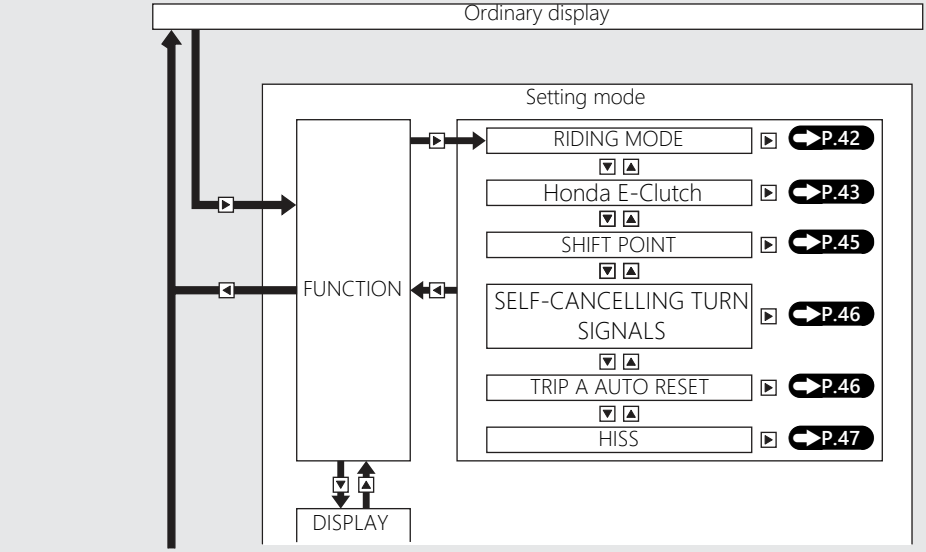


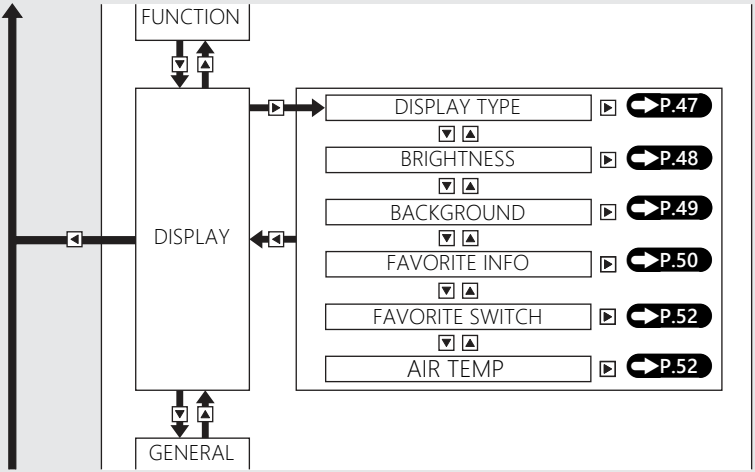

### To return to the ordinary display

- 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.

# Instruments *(Continued)*

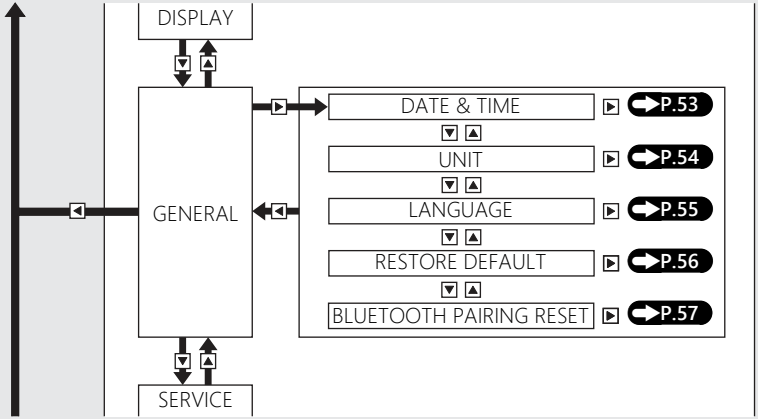
## Setting flow



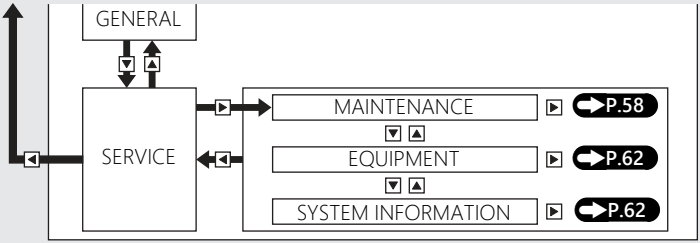

FUNCTION
DISPLAY
GENERAL
DISPLAY TYPE
P.47
BRIGHTNESS
P.48
BACKGROUND
P.49
FAVORITE INFO
P.50
FAVORITE SWITCH
P.52
AIR TEMP
P.52

**Push/Press**

## Instruments *(Continued)*




**Push/Press**


GENERAL
SERVICE
MAINTENANCE
P.58
EQUIPMENT
P.62
SYSTEM INFORMATION
P.62



**Push/Press**

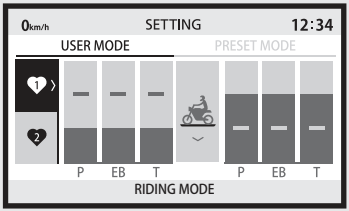
# Instruments *(Continued)*

## FUNCTION

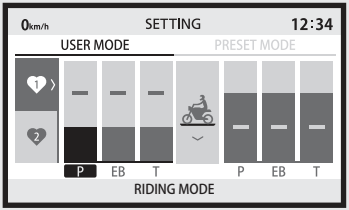
### RIDING MODE P.77

You can change the setting values of the [USER 1] and [USER 2].

1. Select the riding mode [USER 1] or [USER 2] 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 finish the setting.

## Honda E-Clutch

You can change the following items about Honda E-Clutch.

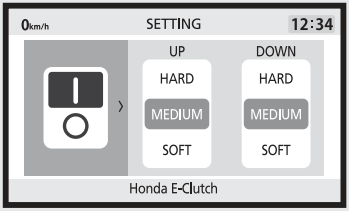
(On) / (Off) : Turns Honda E-Clutch On or Off.

UP : Load level of the shift pedal for upshifting when Honda E-Clutch is on

DOWN : Load level of the shift pedal for downshifting when Honda E-Clutch is on

1. Shift the transmission to Neutral (N indicator comes on).
   ▶ You cannot choose the Honda E-Clutch unless the transmission is in Neutral.

2. Select the (On) or (Off) using the ▲ or ▼ on the sel switch.

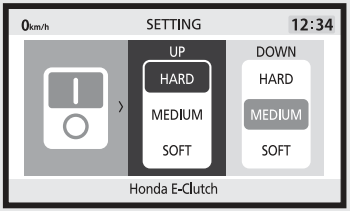


❸ To select | (On)

Press the ▶ on the ◂▴▸ sel switch to select the UP or DOWN.

Select the desired setting (SOFT, MEDIUM or HARD) using the ▲ or ▼ on the ◂▴▸ sel switch.

Press the ◀ on the ◂▴▸ sel switch to complete the setting.




To select ○ (Off)

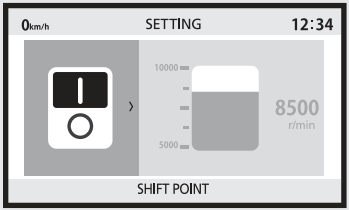
Press the ◀ on the ◂▴▸ sel switch to complete the setting.

❹ Press the ◀ of the ◂▴▸ sel switch to finish the setting.

## SHIFT POINT

You can switch the shift up mode to the ▌(active) or ○ (inactive). P.24

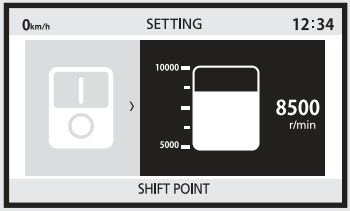
① Select the ▌(active) or ○ (inactive) using the ▲ or ▼ of the sel switch.




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:
5,000 to 10,000 r/min



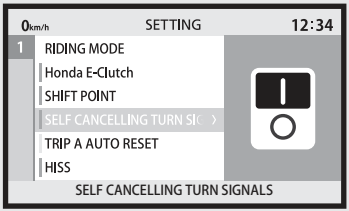

④ Press the ◀ of the sel switch to finish the setting.

# Instruments *(Continued)*

## SELF-CANCELLING TURN SIGNALS

You can enable or disable turn signal automatic cancellation. P.70

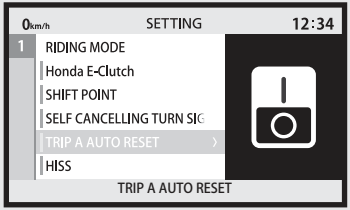
1. Select the ▌ (active) or ○ (inactive) using the ▲ or ▼ of the sel switch.
2. Press the ◀ of the sel switch to finish the setting.




## TRIP A AUTO RESET

You can switch the tripmeter A automatic reset mode to the ▌ (active) or ○ (inactive). P.35

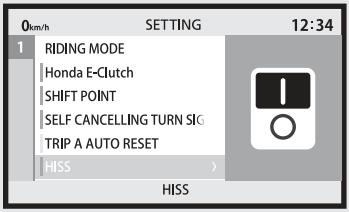
1. Select the ▌ (active) or ○ (inactive) using the ▲ or ▼ of the sel switch.
2. Press the ◀ of the sel switch to finish the setting.



## HISS

You can switch the HISS indicator blinking to the ▌ (blink) or ○ (off).

1. Select the ▌ (blink) or ○ (off) using the ▲ or ▼ of the sel switch.
2. Press the ◀ of the sel switch to finish the setting.

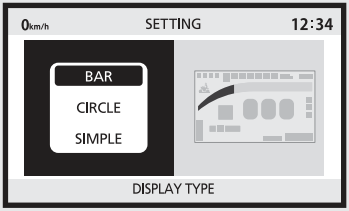



# DISPLAY

## DISPLAY TYPE

You can change the display type. P.22

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



# Instruments *(Continued)*

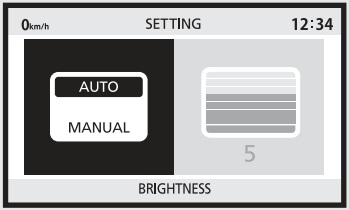
## BRIGHTNESS

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

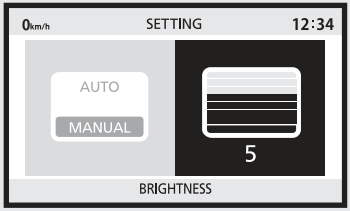
**Automatic Brightness Control:** P.163

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.

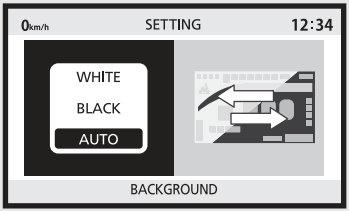



4. Press the ◀ of the sel switch to finish the setting.

## BACKGROUND

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

**Automatic Brightness Control:** P.163




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

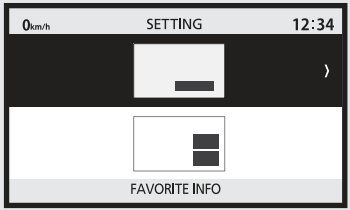
# Instruments *(Continued)*

## FAVORITE INFO

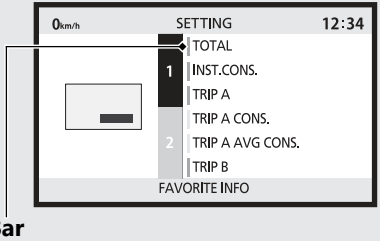
You can change the information items displayed in the INFO area and the status display in the selectable area. P.26 P.34

### INFO area

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



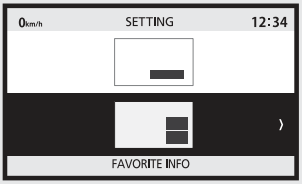

2. Select the item using the ▲ or ▼ of the sel switch.
3. Pressing the ▶ of the sel switch can switch if the item is displayed or not.
   - ▶ When the bar turns to green, the item is displayed in INFO area.



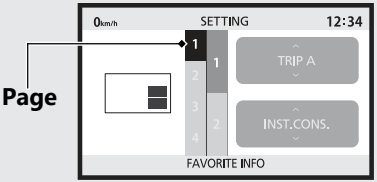

4. Press the ◀ of the sel switch to finish the setting.

## Status display

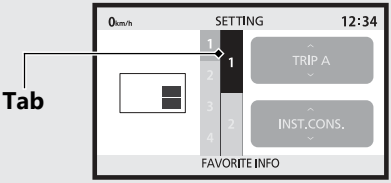
① Select the status display using the ▲ or ▼ of the ◂▴▸ sel switch and press the ▶ of the ◂▴▸ sel switch.



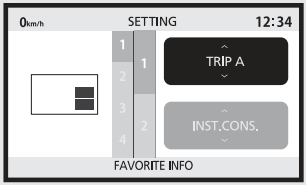

② Select the page of the status display using the ▲ or ▼ of the ◂▴▸ sel switch and press the ▶ of the ◂▴▸ sel switch.




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.

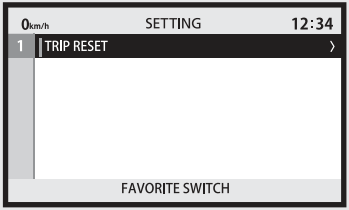



⑤ Press the ◀ of the ◂▴▸ sel switch to finsh the setting.

# Instruments *(Continued)*

## FAVORITE SWITCH

"FAVORITE SWITCH" is displayed but not selectable.

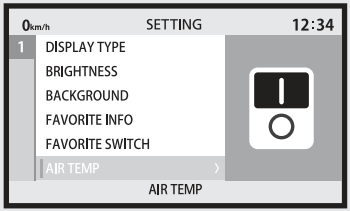



## AIR TEMP

You can switch the air temperature gauge on the ordinary display to the ▌ (on) or ○ (off).

P.23

1. Select the ▌ (on) or ○ (off) using the ▲ or ▼ of the sel switch.
2. Press the ◀ of the sel switch to finish the setting.



## GENERAL

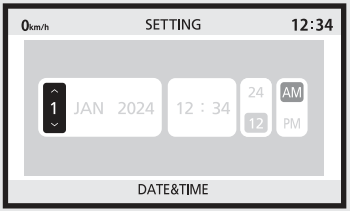
### DATE & TIME

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 finish the setting.



# Instruments *(Continued)*

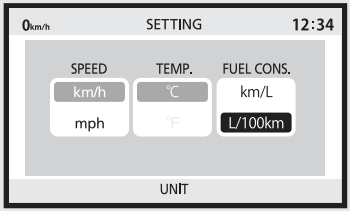
## UNIT

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.

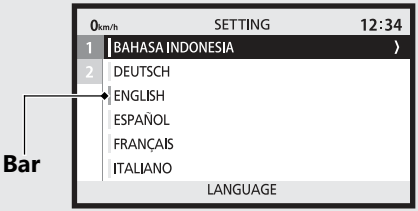
1. Select the "SPEED" or "FUEL CONS." using the ◀ or ▶ of the sel switch.
2. Select the desired setting using the ▲ or ▼ of the sel switch.
3. Press the ◀ of the sel switch to finish the setting.



## LANGUAGE

You can change the system language.

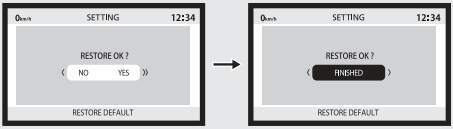
1. Select the language using the ▲ or ▼ of the sel switch.
2. Press the ▶ of the sel switch to change the language.
   - ▶ When language is changed, the bar changes to green.
3. Press the ◀ of the sel switch to finish the setting.



## 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
- Honda E-Clutch
- SHIFT POINT
- SELF-CANCELLING TURN SIGNALS
- TRIP A AUTO RESET
- HISS
- DISPLAY TYPE
- BRIGHTNESS
- BACKGROUND
- FAVORITE INFO
- FAVORITE SWITCH
- UNIT
- LANGUAGE
- AIR TEMP

## 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.75

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

**To check if the smartphone is connected:** P.23

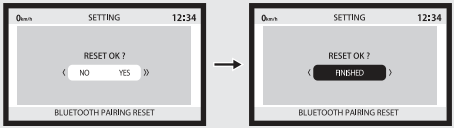
1. Select the "NO" (not reset) or "YES"(reset) using the ◀ or ▶ on the sel switch.
2. When the "NO" is selected

   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.

# Instruments *(Continued)*

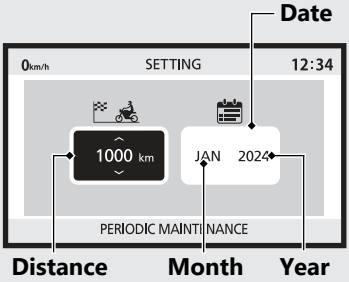
## SERVICE

### MAINTENANCE

### PERIODIC MAINTENANCE

You can check the next periodic inspection timing.

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




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)

DATE:

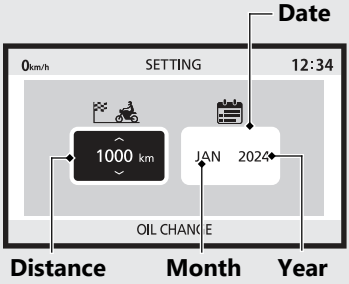
Month: ---, JAN to DEC

Year: ----, 2020 to 2099

**OIL CHANGE**

You can check the next engine oil change timing.

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




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)

DATE:

Month: ---, JAN to DEC

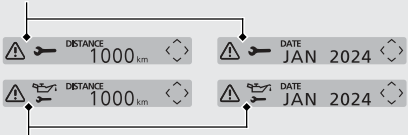
Year: ----, 2020 to 2099

## Instruments *(Continued)*

The pop-up information appears in the ordinary display when it reaches either of the following. P.63

- 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.

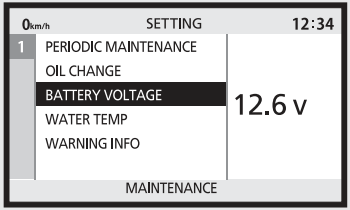
**Periodic inspection**




**Oil change information**

### BATTERY VOLTAGE

Displays the current voltage.



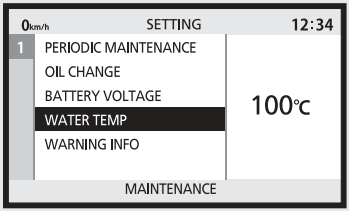
### WATER TEMP

Displays the current coolant temperature.

- 34 ℃ or less: "---" is displayed.
- Between 122 ℃ and 131 ℃: current coolant temperature flashes.
- 132 ℃ or more: "132" flashes.

Warning indicator and high coolant temperature indicator turn on and pop-up information appears when coolant temperature is 122 ℃ or more. P.23 P.63

**Overheating:** P.142

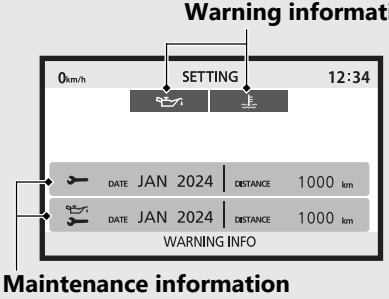



### WARNING INFO

Displays each warning information and maintenance information.

▶ If there is no warning information to display, it displays nothing.

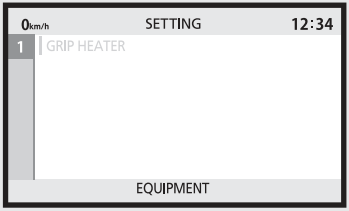
▶ If there is a warning information, see your dealer for service.



# Instruments *(Continued)*

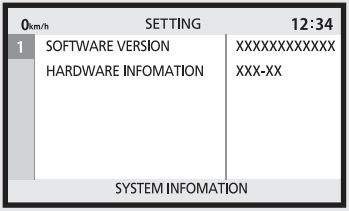
## EQUIPMENT

"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. |

## Instruments *(Continued)*

### Warning Information

| Indication | Explanation | Remedy |
|---|---|---|
|  | Low oil pressure indicator | **If it comes on while riding:** P.143 |
|  | High coolant temperature indicator | **If it comes on while riding:** P.142 |
|  | When the Honda E-Clutch is not working correctly. | **If it comes on while riding:** P.147 |

### Riding mode

| Indication | Explanation | Remedy |
|---|---|---|
| STANDARD | It indicates current riding mode when you change riding mode. | **Riding mode:** P.77 |

# 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.23






**Right turn signal indicator**

**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.144

# Indicators *(Continued)*




**HISS indicator** P.141

Flashes every 2 seconds for 24 hours when the ignition switch is turned to the ○ (Off) position.

**Auto clutch control indicator** P.87

Comes on when the Honda E-Clutch function is on.

**(ABS) 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.145

**Left turn signal indicator**

**Torque Control OFF indicator**
Comes on when the Torque Control is turned Off.

**Neutral indicator**
Comes on when the transmission is in Neutral.




**Torque Control indicator**

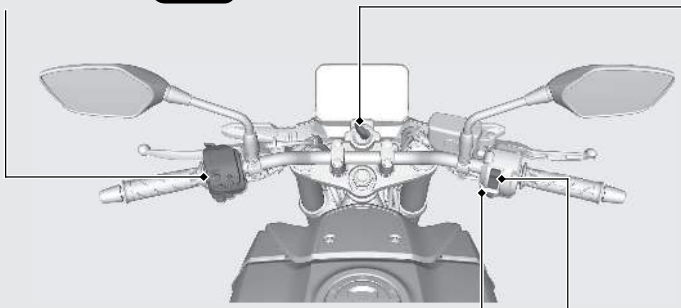
- Comes on when the ignition switch is turned to the ▌(On) position. Goes off when your speed reaches approximately 5 km/h (3 mph) to indicate Torque Control is ready to work.
- Blinks when Torque Control is operating.

**If it comes on while riding:** P.146

# Switches



**Left handlebar switch** P.70



**Hazard switch**

Switchable when the ignition switch is on. You can turn off regardless of whether the electrical system is on or off.

▶ The signals continue flashing with turn the electrical system is off after the hazard switch is on.

△ : Hazard is on.

○ : Hazard is off.

**Engine stop switch/ Start button**

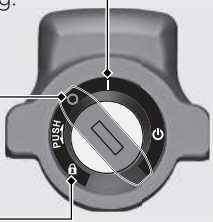
Should normally remain in the ○ (Run) position.

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

**Ignition Switch**

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

► Key can be removed when in the ○ (Off) or (Lock) position.




**(On)**

Turns electrical system on for starting/riding.

**○ (Off)**

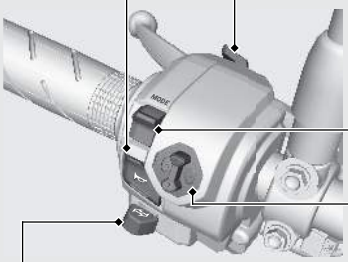
Turns engine off.

**(Lock)**

Locks steering.

## Switches *(Continued)*

### Left handlebar switches



**Horn button**

**Headlight dimmer/Passing light control switch**

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

**MODE switch**

Used to change the riding mode. P.77

**Sel switch**

Used to operate and set the display and the Honda RoadSync. P.72

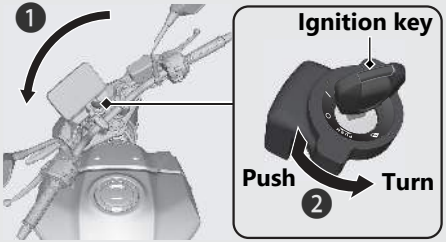
**Turn signal switch**

The turn signal will automatically stop when you complete the turn. (You can manually cancel the lights by pressing the switch in.) When used for a lane change, the turn signal will automatically stop in about 7 seconds or after riding 150 m. In some cases, the timing at which the turn signal stops could be less or more. Always use the recommended tyres to ensure correct automatic cancellation operation.

**To enable or disable the turn signal automatic cancellation:** P.46

### 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 key down, and turn the ignition switch to the (Lock) position.
   - ► Jiggle the handlebar if the lock is difficult to engage.
3. Remove the key.

### Unlocking

Insert the key, push it in, and turn the ignition switch to the (Off) position.

# 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.

**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.

## Honda RoadSync *(Continued)*

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.

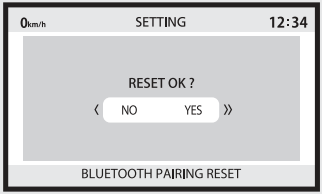
Honda cannot and does not provide any warranty or guarantee of future Honda RoadSync performance or functionality.

## Pairing your smartphone via *Bluetooth®*

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

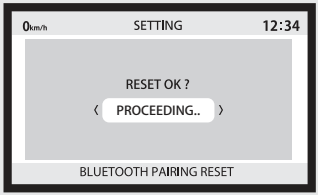
Only one smartphone can be connected at the same time.
To connect other smartphone, reset the *Bluetooth*® pairing record. P.57

1. Select the BLUETOOTH PAIRING RESET menu. P.37 P.57
2. Press and hold the ▶ on the sel switch to select "YES." P.57
   - ▶ Press the ◀ of the sel switch to cancel the pairing. The display returns to the upper level hierarchy.

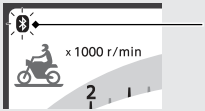


## Honda RoadSync *(Continued)*

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.

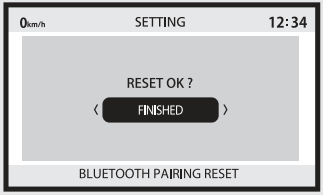



***Bluetooth*® indicator**

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

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

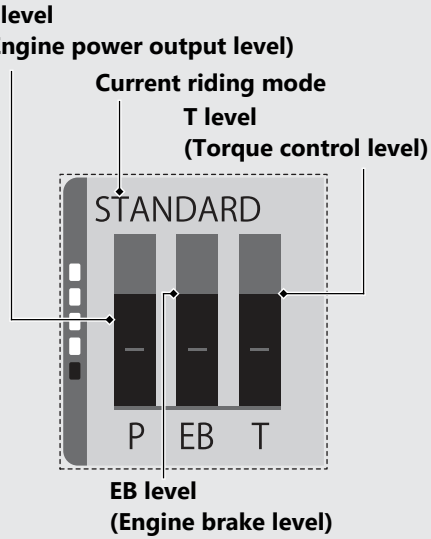
▶ Even if it is not completed, "FINISHED" will be displayed about 2 minutes after.
Check the status icons to confirm pairing is complete. P.23
If pairing is not completed, perform ❶ to ❸ again.



# 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 *(Continued)*

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 | 1* | 1* | 1* |
| USER2 | 1* | 1* | 1* |

Notes:
* : Level can be changed.

**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

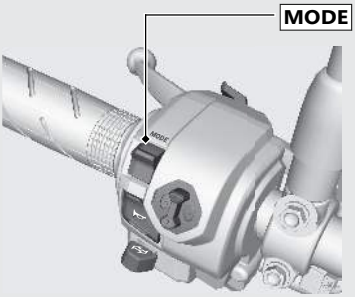
- ▶ Level 1 is the minimum Torque Control level.
- ▶ Level 3 is the maximum Torque Control level.
- ▶ Level 0 deactivates the Torque Control.
- ▶ If you turn the ignition switch to the O (Off) position while T level is 0, the setting is not maintained. The setting will be changed to level 1.

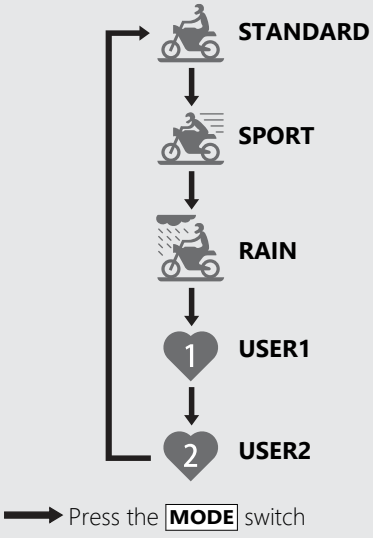
## Riding mode *(Continued)*

### Selecting the riding mode

You can change the riding mode using the **MODE** switch.

1. Stop the vehicle.
2. Press the **MODE** switch with the throttle fully closed.

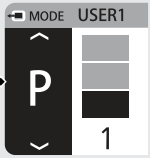


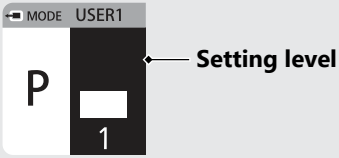
**Setting the riding mode**

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

① Stop the vehicle.
② Select the [USER1] or [USER2] riding mode.
P.80
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.



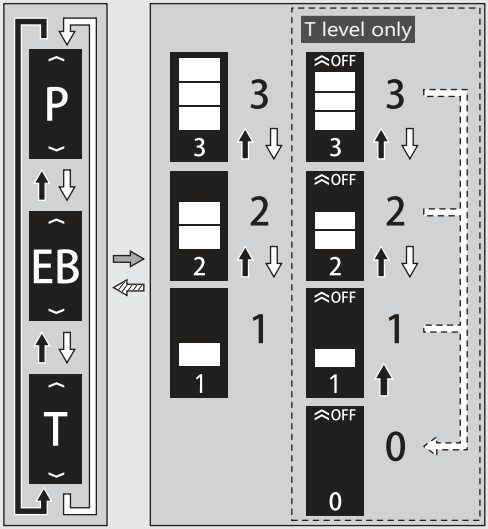

⑤ Select the setting level using the ▲ or ▼ on the sel switch.
▶ T level can be changed to 0 (off) by pressing and holding the ▲ of the sel switch while selecting the T parameter.




⑥ Press and hold the MODE switch until setting display closes.

You can also change the [USER1] and [USER2] settings in setting mode.
**RIDING MODE setting:** P.42

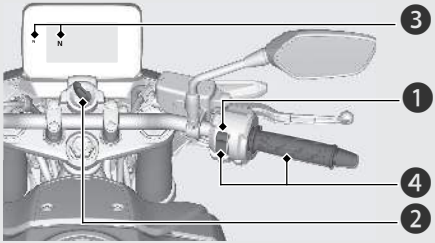
## Riding mode *(Continued)*




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.




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 so long as the side stand is raised.



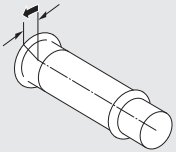
*Continued* 

## Starting the Engine *(Continued)*

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.

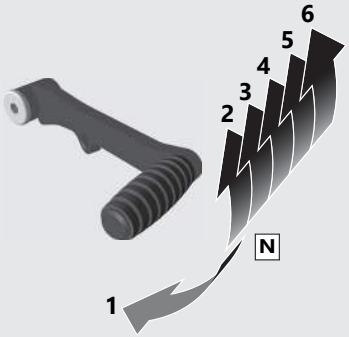
④ If the engine does not start, wait 10 seconds before trying steps ① & ② again.

**If Engine Will Not Start** P.141

# Shifting Gears

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

Your vehicle also has Honda E-Clutch; you can start, stop, and change gears without clutch lever operation. P.86




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

# Honda E-Clutch

Honda E-Clutch allows you to start, stop, and change gears without clutch lever operation.

- When the vehicle is in gear (gear position number is displayed) without clutch lever operation, be careful not to open the throttle when pushing or pulling the vehicle back and forth or when turning the handlebar while stationary or at low speeds. If you do so, you may cause the vehicle to unexpectedly and strongly surge forward and lose control.
- Honda E-Clutch function can be turned off from meter setting. P.43
- If you operate the clutch lever while Honda E-Clutch function is on, Honda E-Clutch function will deactivate temporarily with auto clutch control indicator turning off. When vehicle is stopped, shift to Neutral (or you can start with clutch lever operation). When vehicle is running, wait a few seconds for Honda E-Clutch to reactivate.
- Each time the ignition switch is turned to the ▌(On) position, the Honda E-Clutch function will be turned on automatically.
- Clutch lever freeplay will increase after ignition switch is turned to the ▌(On) position with gear position in Neutral, or when the engine is running. This is normal.
- If the PGM-FI (Programmed Fuel Injection) malfunction indicator lamp (MIL) comes on, the Honda E-Clutch function may be turned off.
- Always use the recommended tyres and sprockets to ensure correct Honda E-Clutch operation.
- If clutch lever freeplay is improperly adjusted, the Honda E-Clutch may not work.

- Auto clutch control indicator P.87
- Starting P.88
- Upshifting P.90
- Downshifting P.90
- Stopping P.91
- Information from the gear position indicator P.92

**Auto clutch control indicator**

Comes on when the Honda E-Clutch function is ready to use and when in use.
When the auto clutch control indicator does not come on, Honda E-Clutch cannot be used.

▶ You must use the manual clutch lever to operate the vehicle.



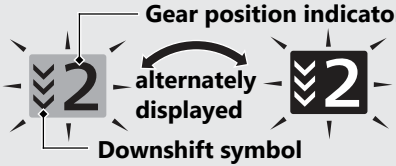
## Honda E-Clutch *(Continued)*

### Starting

1. Start the engine. P.83
   ▶ If you start the engine in gear, push the start button with the clutch lever pulled. After engine starts, Honda E-Clutch function is deactivated temporarily. Accelerate from a stopped position with clutch lever operation, or shift to Neutral to activate the Honda E-Clutch.
2. Check that the transmission is in Neutral (N indicator comes on).
3. Make sure the auto clutch control indicator comes on.
4. Shift the transmission to 1st gear without clutch lever operation.




5. Open the throttle gradually and the vehicle will start moving forward.
   If you start the vehicle with transmission in 2nd or higher gear, the gear position indicator will inform you the transmission is in high gear position by displaying the downshift symbol and a blinking indicator.
   ▶ You can shift down by simply pushing down the shift pedal.




NOTICE

To prevent rapid clutch wear, always accelerate from a stopped position with the transmission in 1st gear.

If wear progresses, the Honda E-Clutch function may turn off.

### When the clutch lever is operated

If you shift the transmission to 1st gear with clutch lever operation, Honda E- Clutch is deactivated temporarily, auto clutch control indicator is turned off.




**Auto clutch control indicator**

You can accelerate from a stopped position using throttle grip and clutch lever operation as with a manual transmission in this situation.

To activate the Honda E-Clutch system again, shift the transmission to Neutral and make sure that auto clutch control indicator comes on. Then shift the transmission to 1st gear without clutch lever operation.

When the Honda E-Clutch function is on, if you operate the throttle grip and use the clutch lever to start riding the vehicle, the function will be temporarily deactivated. However, the function will automatically reactivate a few seconds after you start riding the vehicle.

### When the Honda E-Clutch function is turned off

You need to operate the clutch lever to accelerate from a stopped position if the Honda E-Clutch function is off (auto clutch control indicator turns off and "M" symbol is displayed in the gear position indicator P.93 ).

## Honda E-Clutch *(Continued)*

### Upshifting

Pull up the shift pedal without closing the throttle and operating the clutch lever.

When the clutch lever is operated

If you operate the clutch lever to shift up while the Honda E-Clutch function is on, the function will temporarily deactivate, but it will automatically reactivate in a few seconds.

When the Honda E-Clutch function is turned off

You need to close the throttle and operate the clutch lever while upshifting if the Honda E-Clutch function is off (auto clutch control indicator turns off and "M" symbol is displayed in the gear position indicator (P.93)).

### Downshifting

Push down the shift pedal without clutch lever operation.

When the clutch lever is operated

If you operate the clutch lever to shift down while the Honda E-Clutch function is on, the function will temporarily deactivate, but it will automatically reactivate in a few seconds.

When the Honda E-Clutch function is turned off

You need to operate the clutch lever while downshifting if the Honda E-Clutch function is off (auto clutch control indicator turns off and "M" symbol is displayed in the gear position indicator (P.93)).

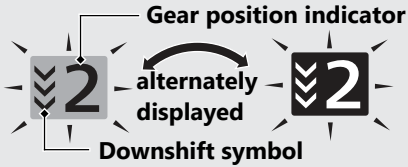
## Stopping

Close the throttle and apply the brake without clutch lever operation to stop the vehicle.

If the gear position is not in Neutral when the ignition switch is turned to the O (Off) position, grip the clutch lever or put the gear in Neutral to move the vehicle. If the gear position is not in Neutral when the ignition switch is turned to the O (Off) position, the Honda E-Clutch function will not turn on and the clutch is engaged.

If you stop the vehicle with transmission in 2nd or higher gear, the gear position indicator will inform you the transmission is in high gear position by displaying the downshift symbol and a blinking indicator.

► You can shift down by simply pushing down the shift pedal.




NOTICE

To prevent clutch damage, do not use the throttle to keep the vehicle stopped uphill.

## Honda E-Clutch *(Continued)*

When the Honda E-Clutch function is turned off

You need to operate the clutch lever to stop the vehicle if the Honda E-Clutch function is off (auto clutch control indicator turns off and "M" is displayed in the gear position indicator P.93 ).

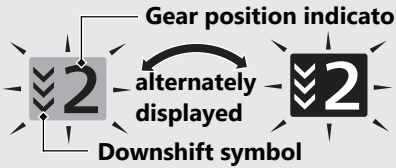
### Information from the gear position indicator

Gear position indicator will inform you the information on following situations.

#### Downshift symbol is displayed and gear position indicator blinks

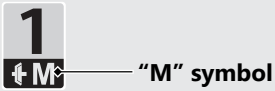
If the downshift symbol is displayed and the gear position indicator blinks, the gear position is too high. Shift the transmission to a lower gear.

► You can shift down by simply pushing down the shift pedal.



### "M" symbol is displayed

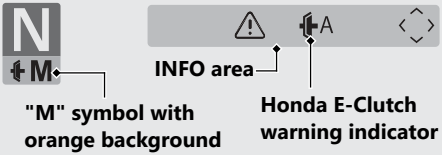
If the "M" symbol is displayed, the Honda E-Clutch function is off.




### "M" symbol is turned on with orange background

If the "M" symbol is displayed with an orange background and the Honda E-Clutch warning indicator are displayed, the Honda E-Clutch function is not working properly. Stop the vehicle at a safe place and turn the ignition switch to the O (Off) position, and then to the | (On) position again, then you can temporarily ride the vehicle using the manual transmission.

Have your vehicle inspected by your dealer.



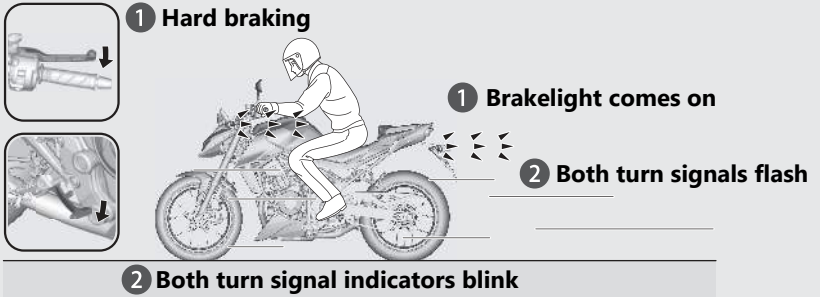
# Emergency Stop Signal

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.

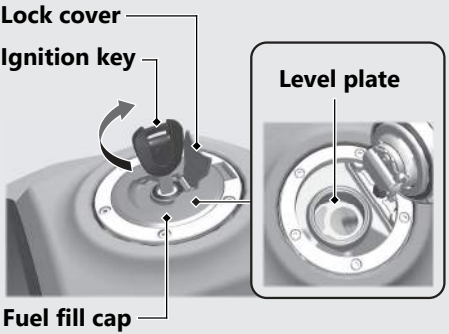
**When the system activates:**



- 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) 91 or higher.
**Tank capacity:** 15.2 L (4.02 US gal, 3.34 Imp gal)

**Refuelling and Fuel Guidelines** P.14

### Opening the Fuel Fill Cap

Open the lock cover, insert the ignition 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 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.

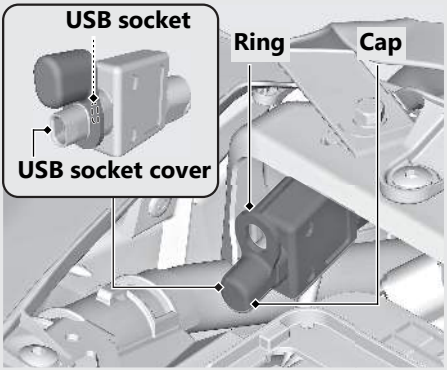
# USB Socket

Your vehicle is equipped with the USB socket (for USB Type-C only).
The USB socket is located under the rear seat. P.123
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 rear seat. P.123
2. Remove the cap to access the USB socket.
3. Connect a certified USB cable to 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.






*Continued* 

## USB Socket *(Continued)*

- ▶ 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 cover.
- ▶ Carefully secure all connected devices, as vibration may cause damage to them or they could shift unexpectedly.

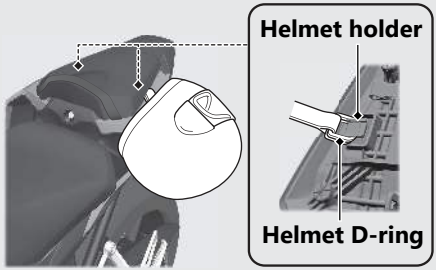
NOTICE

- 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 Holders**

The helmet holders are located underside of the rear seat.




► Use the helmet holder only when parked.

**Removing the Rear Seat** P.123

**⚠WARNING**

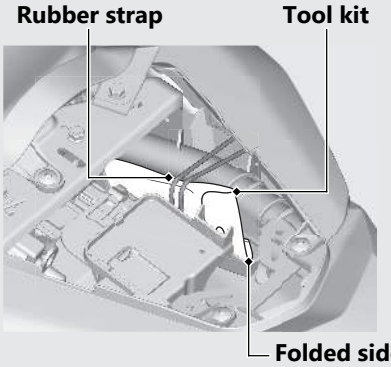
Riding with a helmet attached to the holder can interfere with the rear wheel or suspension and could cause a crash in which you can be seriously hurt or killed.

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

## Storage Equipment *(Continued)*

### Tool Kit

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

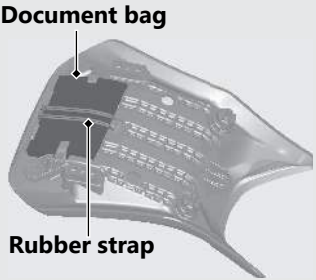



▶ Store the tool bag with the folded side facing down.

**Removing the Rear Seat** P.123

### Document Bag

The document bag is located underside of the front seat.

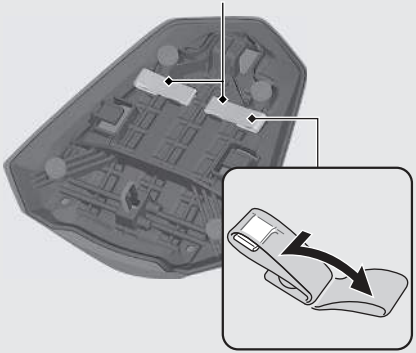



**Removing the Front Seat** P.122

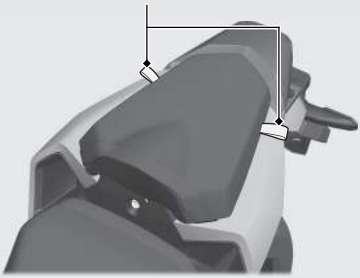
**Luggage Tie-Down Hooks**

The luggage tie-down hooks are located on the underside of the rear seat.

**Luggage tie-down hooks**



**Luggage tie-down hooks**



Never use the tie-down hooks to tow or lift the vehicle.

**Removing the Rear Seat** P.123

# Maintenance

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


**Importance of Maintenance** ..... P. 103
**Maintenance Schedule** ..... P. 104
**Maintenance Fundamentals** ..... P. 107
**Tools** ..... P. 119
**Removing & Installing Body Components** ..... P. 120
- Battery ..... P. 120
- Front Seat ..... P. 122
- Rear Seat ..... P. 123

**Engine Oil** ..... P. 124
**Coolant** ..... P. 126
**Brakes** ..... P. 128
**Side Stand** ..... P. 131
**Drive Chain** ..... P. 132
**Clutch** ..... P. 134
**Throttle** ..... P. 137
**Other Adjustments** ..... P. 138
- Adjusting the Brake Lever ..... P. 138
- Adjusting the Rear Suspension ..... P. 139

## 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. 104

**⚠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 remove the key.
- 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. 107 | Frequency*1 × 1,000 km | 1 | 12 | 24 | 36 | 48 | Annual Check | Regular Replace | Refer to page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | × 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 | | | | | | | | | 96 |
| Throttle Operation | | I | | | I | I | I | I | I | | 137 |
| Air Cleaner *2 | | | | | | R | | R | | | – |
| Crankcase Breather *3 | | | | | C | C | C | C | | | – |
| Spark Plug | | | | | | I | | R | | | – |
| Valve Clearance | | | | | | I | | I | | | – |
| Engine Oil | | I | | R | R | R | R | R | R | | – |
| Engine Oil Filter | | | | R | | R | | R | | | – |
| Engine Idle Speed | | | | | I | I | I | I | I | | – |
| Radiator Coolant *4 | | I | | | I | I | I | I | I | 3 Years | 126 |
| 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. 107 | Frequency*1 × 1,000 km | 1 | 12 | 24 | 36 | 48 | Annual Check | Regular Replace | Refer to page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | × 1,000 mi | 0.6 | 8 | 16 | 24 | 32 | | | |
| Drive Chain | | I | Every 1,000 km (600 mi): I L | | | | | | | | 132 |
| Drive Chain Slider | | | | | I | I | I | I | | | – |
| Brake Fluid *4 | | I | | | I | I | I | I | I | 2 Years | 128 |
| Brake Pads Wear | | I | | | I | I | I | I | I | | 129 |
| Brake System | | | | | I | I | I | I | I | | 107 |
| Brakelight Switch | | | | | I | I | I | I | I | | 130 |
| Headlight Aim | | | | | I | I | I | I | I | | – |
| Lights/Horn | | I | | | | | | | | | – |
| Engine Stop Switch | | I | | | | | | | | | – |
| Clutch System | | I | | | I | I | I | I | I | | 134 |
| Side Stand | | I | | | I | I | I | I | I | | 131 |
| Suspension | | | | | I | I | I | I | I | | 139 |
| Nuts, Bolts, Fasteners | | | | | I | I | I | I | I | | – |
| Wheels/Tyres | | I | | | I | I | I | I | I | | 116 |
| 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 : Service more frequently when riding in rain or at full throttle.

*4 : Replacement requires mechanical skill.

## Pre-ride Inspection

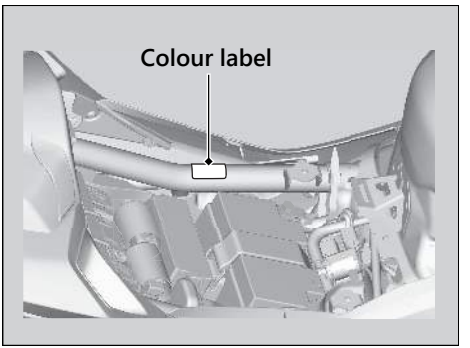
To ensure safety, it is your responsibility to perform a pre-ride inspection and make sure that any problem you find is corrected. A pre-ride inspection is a must, not only for safety, but because having a breakdown, or even a flat tyre, can be a major inconvenience.

Check the following items before you get on your vehicle:

- Fuel level - Fill fuel tank when necessary. ➔ P. 96
- Throttle - Check for smooth opening and full closing in all steering positions. ➔ P. 137
- Engine oil level - Add engine oil if necessary. Check for leaks. ➔ P. 124
- Coolant level - Add coolant if required. Check for leaks. ➔ P. 126
- Drive chain - Check condition and slack, adjust and lubricate if necessary. ➔ P. 132
- Brakes - Check operation; Front and Rear: check brake fluid level and pads wear ➔ P. 128, ➔ P. 129
- Lights and horn - Check that lights, indicators and horn function properly.
- Engine stop switch - Check for proper function. ➔ P. 68
- Clutch - Check operation; Adjust freeplay if necessary ➔ P. 134
- Side stand ignition cut-off system - Check for proper function. ➔ P. 131
- Wheels and tyres - Check condition, air pressure and adjust if necessary. ➔ P. 116

## Replacing Parts

Always use Honda Genuine Parts or their equivalents to ensure reliability and safety. When ordering coloured components, specify the model name, colour, and code mentioned on the colour label.
The colour label is attached to the under the front seat. P. 122




## ⚠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.

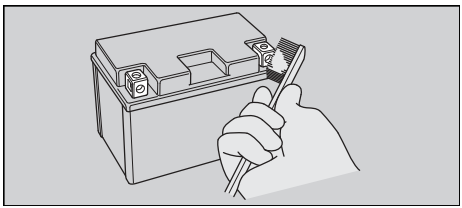
A spark or flame can cause the battery to explode with enough force to kill or seriously hurt you.

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. 120
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

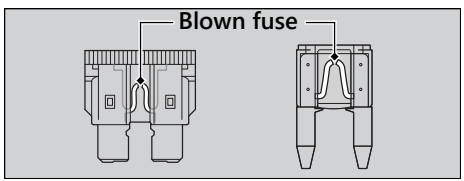
Installing non-Honda electrical accessories can overload the electrical system, discharging the battery and possibly damaging the system.

## 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. 155

### Inspecting and Replacing Fuses

Turn the ignition switch to the ○ (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. 181




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.

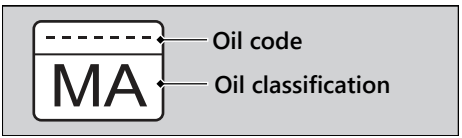
### Selecting the Engine Oil

For recommended engine oil, see "Specifications." P. 180

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

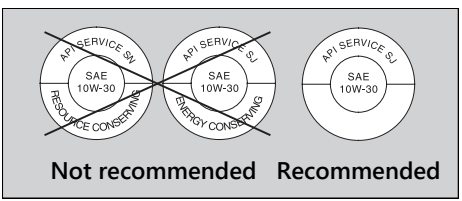
- JASO T 903 standard[*1]: MA
- SAE standard[*2]: 10W-30
- API classification[*3]: SJ or higher

[*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.

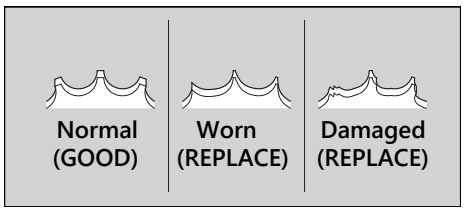
**Recommended brake fluid:**
Honda DOT 4 Brake Fluid or equivalent

## 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. 132

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.



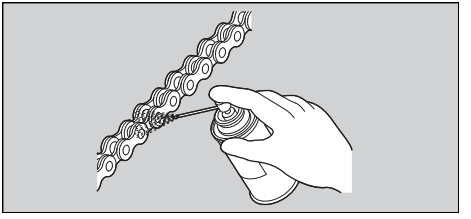

NOTICE
Use of a new chain with worn sprockets will cause rapid chain wear.

## 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 Singapore, Hong Kong, and India

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.

Singapore, Hong Kong, and India

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. 104

NOTICE

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

## Crankcase Breather

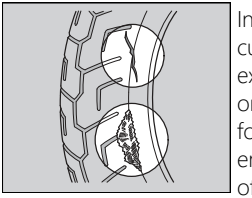
Service more frequently when riding in rain, at full throttle, or after the vehicle is washed or overturned. Service if the deposit level can be seen in the transparent section of the drain tube.
If the drain tube overflows, the air filter may become contaminated with engine oil, causing poor engine performance.

## Tyres (Inspecting/Replacing)

### Checking the Air Pressure

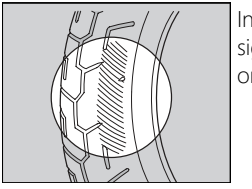
Visually inspect your tyres and use an air pressure gauge to measure the air pressure at least once a month or any time you think the tyres look low. Always check air pressure when your tyres are cold.

### 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.

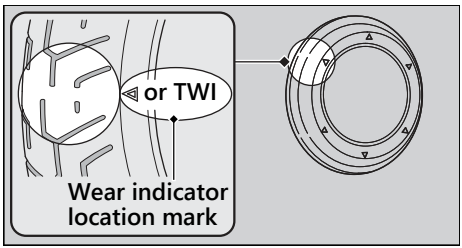
### Inspecting for Abnormal Wear



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. 180
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.

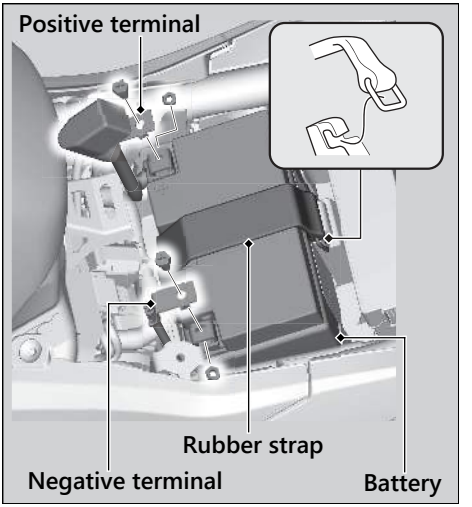
# Tools

The tool kit is stored under the rear seat.
➔P. 123

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

- No. 2 Phillips screwdriver
- Screwdriver handle
- 10 × 14 mm Open end wrench
- 5 mm Hex wrench
- Fuse puller
- Pin spanner
- Extension bar

## Battery




### Removal

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

1. Remove the front seat. ➡ P. 122
2. Unhook the rubber strap from rear 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.

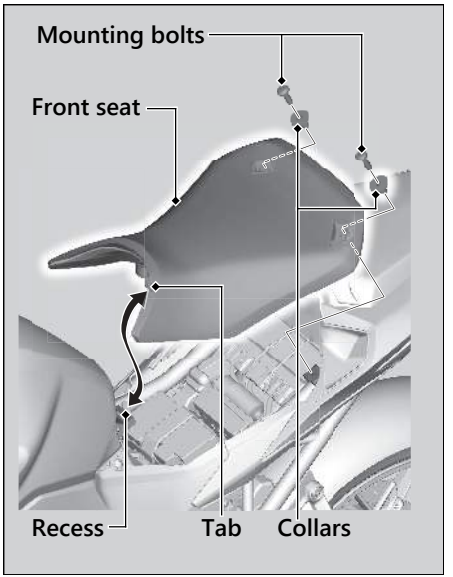
## Installation

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. 53

For proper handling of the battery, see
"Maintenance Fundamentals." ➔P. 109
"Battery Goes Dead." ➔P. 153

# Front Seat




## Removal

1. Pull the rear corners of the front seat up, then remove the mounting bolts and collars.
2. Pull the front seat back and up.

## Installation

1. Insert the tab into the recess.
2. Install the mounting bolts and collars, and tighten the mounting bolts securely.
   Make sure that the seat is locked securely in position by pulling it up lightly.

# Rear Seat

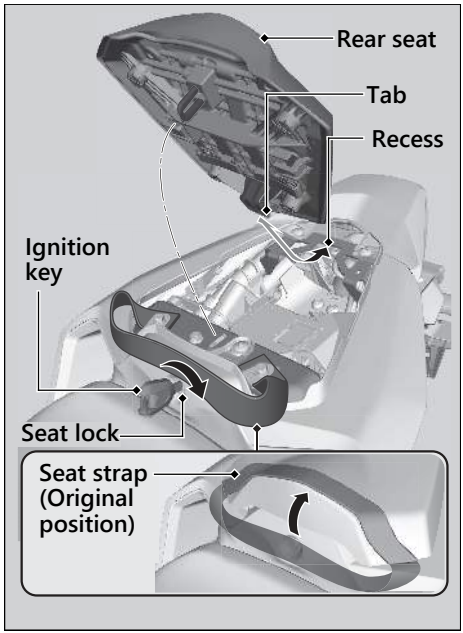
## Removal

1. Move the seat strap forward.
2. Insert the ignition key into the seat lock.
3. Turn the ignition key clockwise, then pull the rear seat forward and up.

## Installation

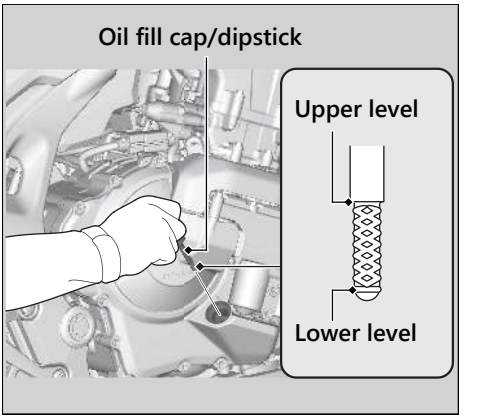
1. Insert the tab into the recess.
2. Push down on the front of the rear seat while inserting the ignition key into the seat lock.
   Make sure that the seat is locked securely in position by pulling it up lightly.
3. Move the seat strap to its original position.

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



## 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 ○ (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 oil fill cap/dipstick and wipe it clean.
5. Insert the oil fill cap/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 oil fill cap/dipstick.
7. Securely install the oil fill cap/dipstick.



# Adding Engine Oil

If the engine oil is below or near the lower level mark, add the recommended engine oil.
P. 112, P. 180

**1.** Remove the oil fill cap/dipstick. 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/dipstick.

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

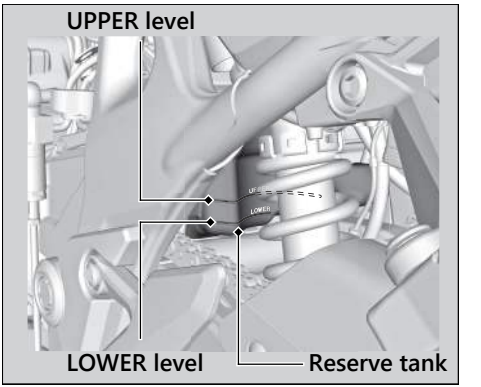
For the recommended oil and oil selection guidelines, see "Maintenance Fundamentals."
P. 112

## Checking the Coolant

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

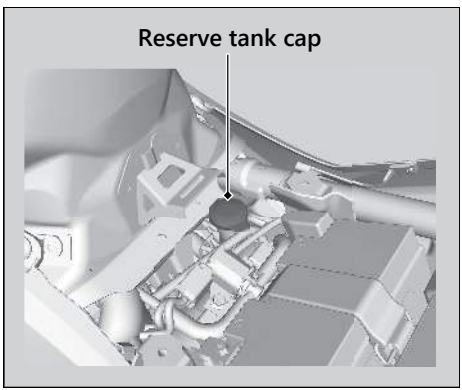
1. Place your vehicle on a firm, level surface.
2. Hold your vehicle in an upright position.
3. Check that the coolant level is between the UPPER level and LOWER level marks on the reserve tank.

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. 115) 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 front seat. P. 122
2. 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.
3. Securely reinstall the reserve tank cap.
4. Install the front seat.

**⚠WARNING**

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

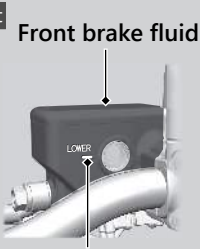
Always let the engine and radiator cool down before removing the radiator cap.

## Checking Brake Fluid

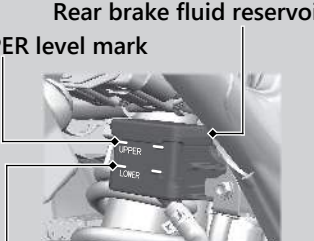
1. Place your vehicle in an upright position on a firm, level surface.
2. Front Check that the brake fluid reservoir is horizontal and that the fluid level is above the LOWER level mark.
   Rear Check that the brake fluid reservoir is horizontal and that the fluid level is between the LOWER level and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

If the brake fluid level in either reservoir is below the 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.

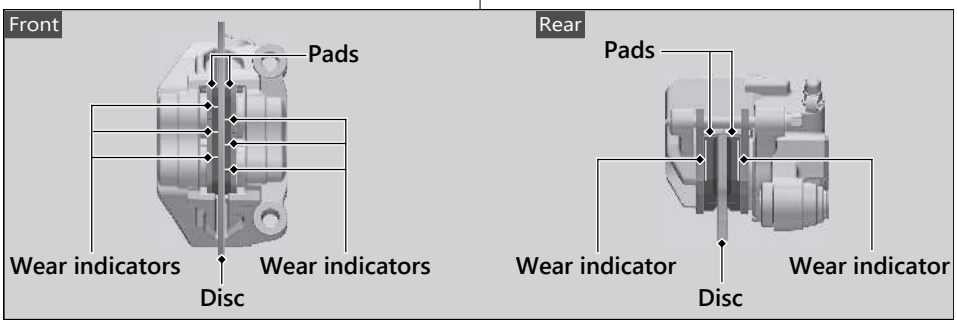
Front The pads need to be replaced if a brake pad is worn to the bottom of the indicator.

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.

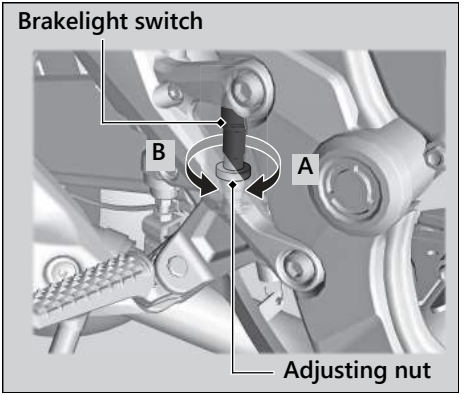
If necessary, have the pads replaced by your dealer.

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

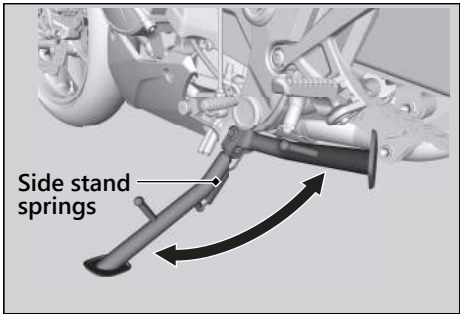


# Adjusting the Brakelight Switch

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 springs 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.

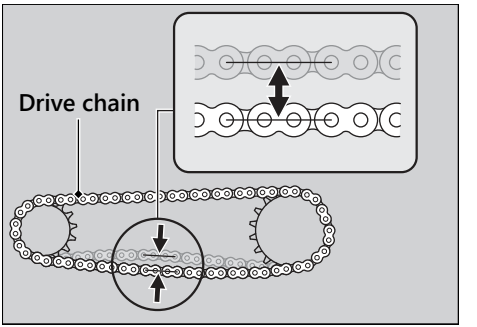
Have the chain inspected by your dealer.

1. Shift the transmission to Neutral. Stop the engine.
2. Place your vehicle on its side stand on a firm, level surface.
3. Move the lower part of the drive chain up and down to check chain slack, midway between the sprockets.

**Drive chain slack:**

25 - 35 mm (1.0 - 1.4 in)

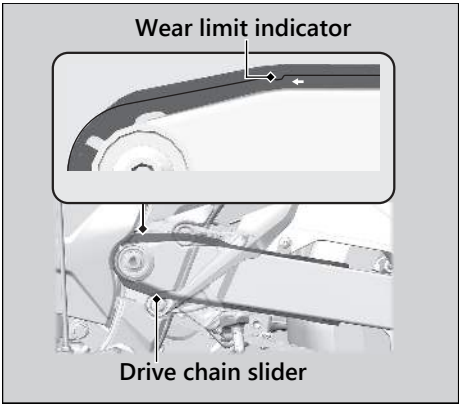
▶ Do not ride your vehicle if the slack exceeds 50 mm (2.0 in).




4. Roll the vehicle forward and check that the chain moves smoothly.
5. Inspect the sprockets. ➡ P. 113
6. Clean and lubricate the drive chain. ➡ P. 114

## 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 bottom of the wear limit indicator.
If necessary, have the drive chain slider replaced by your dealer.



# Checking the Clutch

## Checking the Clutch Lever Freeplay

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

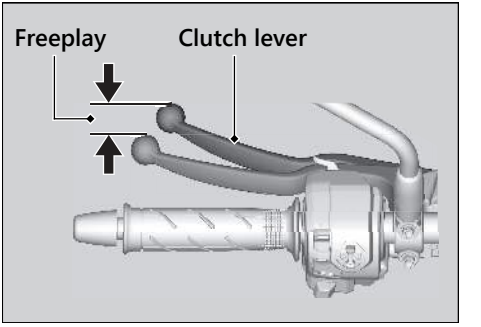
▶ Clutch lever freeplay will increase after ignition switch is turned to the | (On) position with gear position in Neutral.

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.




Improper freeplay adjustment may cause Honda E-Clutch to work incorrectly.

NOTICE
Improper freeplay adjustment can cause premature clutch wear.

# Adjusting the Clutch Lever Freeplay

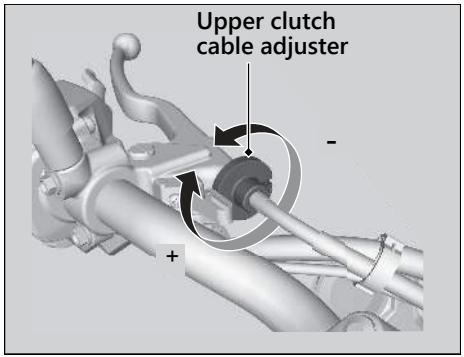
## Upper Adjustment

Attempt adjustment with the upper clutch cable adjuster first.

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

▶ Clutch lever freeplay will increase after ignition switch is turned to the | (On) position with gear position in Neutral.

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



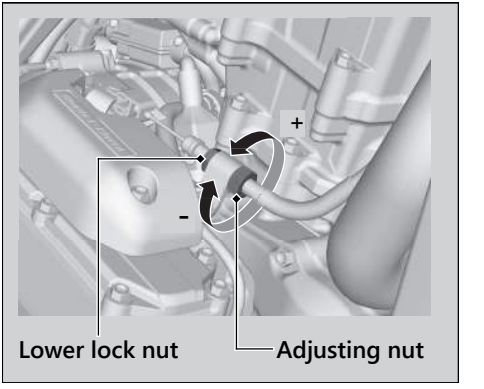
## Lower Adjustment

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.

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

▶ Clutch lever freeplay will increase after ignition switch is turned to the | (On) position with gear position in Neutral.

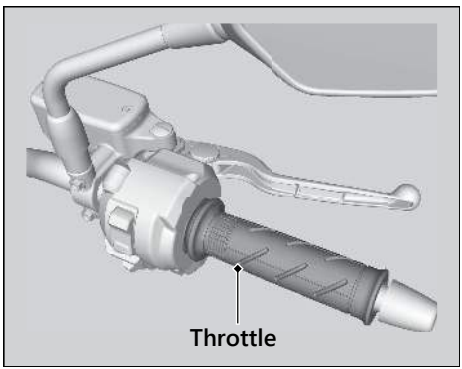
1. Turn the upper clutch cable adjuster all the way in (to provide maximum freeplay).
2. Loosen the lower lock nut.
3. Turn the adjusting nut until the clutch lever freeplay is 10 - 20 mm (0.4 - 0.8 in).
4. Tighten the lower lock nut and check the clutch lever freeplay.
5. Start the engine, pull the 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.

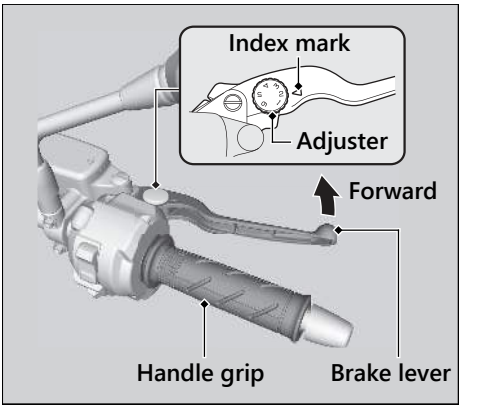
### Adjustment method

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

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

NOTICE

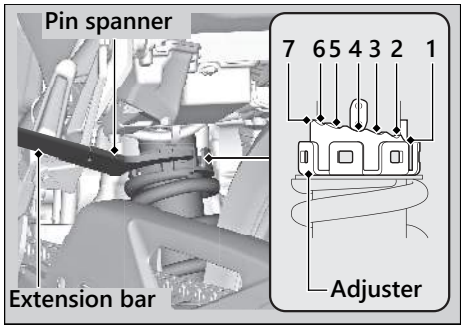
Do not turn the adjuster beyond its natural limit.



# 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. 119
The preload adjuster has 7 positions. Positions 1 to 3 are for a decrease spring preload (soft), or turn the position 5 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.

# Troubleshooting


**Engine Will Not Start (HISS indicator stays on)** ..... P. 141
**Overheating (High coolant temperature/ warning indicators are on)** ..... P. 142
**Warning Indicators On or Flashing** ..... P. 143
Low Oil Pressure Indicator ..... P. 143
PGM-FI (Programmed Fuel Injection) Malfunction Indicator Lamp (MIL) ..... P. 144
ABS (Anti-lock Brake System) Indicator ..... P. 145
Torque Control Indicator ..... P. 146
**Other Warning Indications** ..... P. 147
If the "-" and the current gear position are blinking in the gear position indicator ..... P. 147
If Honda E-Clutch warning indicator appears in the INFO area ..... P. 147
Fuel Gauge Failure Indication ..... P. 148
Coolant Temperature Gauge Failure Indication ..... P. 149
**Tyre Puncture** ..... P. 150
**Smartphone Pairing Trouble** ..... P. 151
**Electrical Trouble** ..... P. 153
Battery Goes Dead ..... P. 153
Burned-out Light Bulb ..... P. 153
Blown Fuse ..... P. 155

## Starter Motor Operates But Engine Does Not Start

Check the following items:

- Check the correct engine starting sequence. ➡P. 83
- 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.
- Check if the HISS indicator stays on.
  ▶ Turn the ignition switch to the ○ (Off) position and remove the key. Reinsert the key and turn the ignition switch to the | (On) position. If the indicator still stays on, check the following:
  Check if there is no another HISS key (including spare key) close to the ignition switch.
  Check if there are no any metallic seals or stickers on the key.
  If the HISS indicator still stays on, have your vehicle inspected by your dealer.

## Starter Motor Does Not Operate

Check the following items:

- Check the correct engine starting sequence. ➡P. 83
- Check for a blown fuse. ➡P. 155
- Check for a loose battery connection (➡P. 120) or battery terminal corrosion (➡P. 109).
- Check the condition of the battery. ➡P. 153

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.
- High coolant temperature indicator is displayed in the warning information. ➡P. 64
- Coolant temperature display flashes at WATER TEMP in the setting mode. ➡P. 61
- 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. 126

   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. 126

   ▶ 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. 124, P. 125
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)



### 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 O (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).

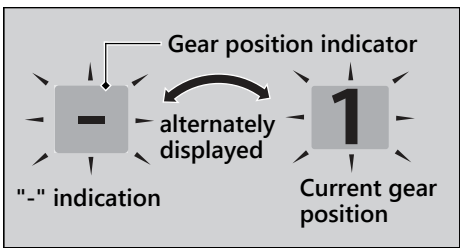
Even when the Torque Control indicator is on, your vehicle will have normal riding ability without Torque Control function.

▶ 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).

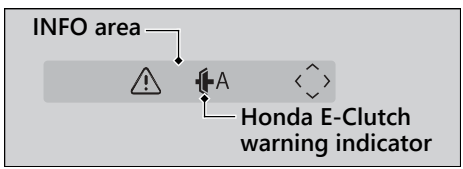
## If the "-" and the current gear position are blinking in the gear position indicator

If the "-" and the current gear position are blinking in the gear position indicator, some function of Honda E-Clutch does not work. Have your vehicle inspected by your dealer. You can temporarily ride the vehicle as a manual transmission vehicle in this situation.



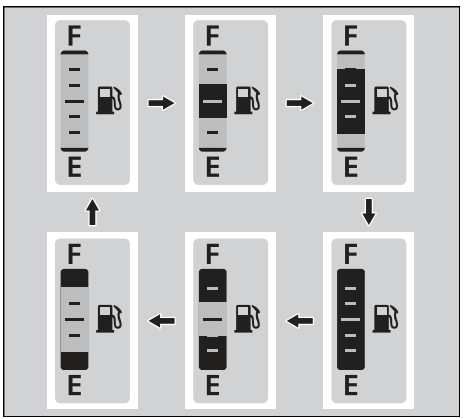

## If Honda E-Clutch warning indicator appears in the INFO area

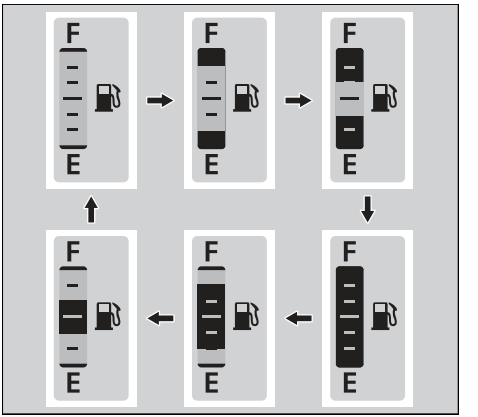
If the Honda E-Clutch warning indicator appears in the INFO area, Honda E-Clutch is not working correctly.
Stop the vehicle at a safe place and turn the ignition switch to the ○ (Off) position, and then to the | (On) position again, then you can temporarily ride the vehicle using the manual transmission.
Have your vehicle inspected by your dealer.

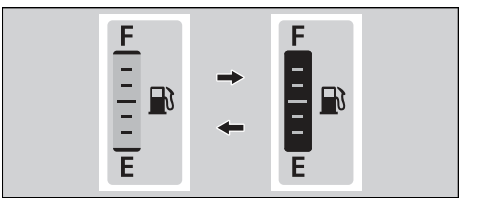


# Fuel Gauge Failure Indication

If the fuel system has an error, the fuel gauge indicators will be displayed as shown in the illustrations.
If these occur, see your dealer as soon as possible.

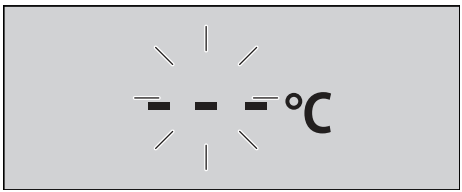


# Coolant Temperature Gauge Failure Indication

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



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. 75 |
| | 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. |



*Continued* 

| 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

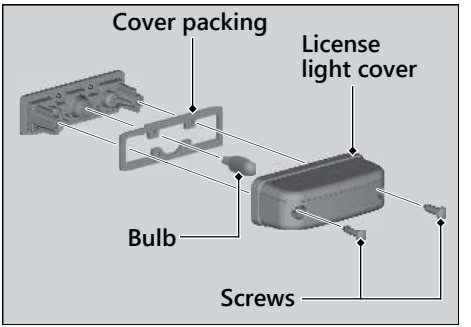
Follow the procedure below to replace a burned-out light bulb.
Turn the ignition switch to the ○ (Off) or (Lock) position.
Allow the bulb to cool before replacing it.
Do not use bulbs other than those specified.
Check the replacement bulb for correct operation before riding.

For the light bulb wattage, see "Specifications." ➔ P. 181

The headlight, position light, front turn signals, brakelight, taillight, rear turn signals use several LEDs. If there is an LED which is not turned on, see your dealer for servicing.

## License Plate Light Bulb

1. Remove the screws, license light cover and cover packing.
2. Pull out the bulb without turning.



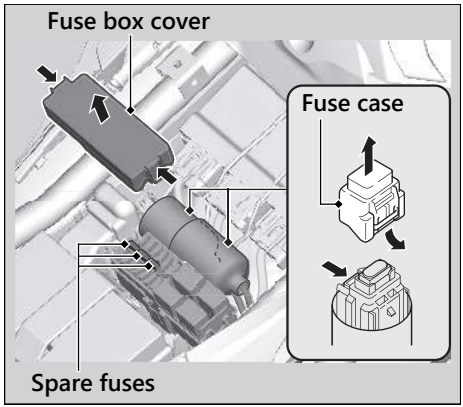

3. Install a new bulb and reinstall the parts in the reverse order of removal.

# Blown Fuse

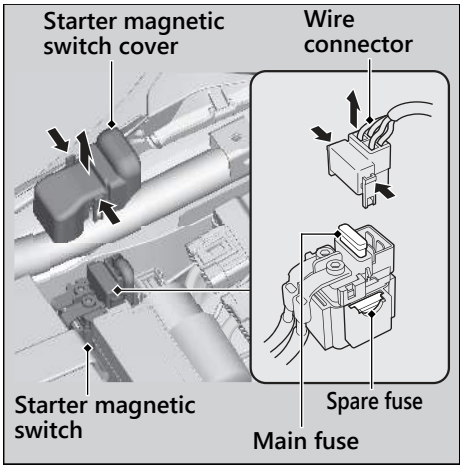
Before handling fuses, see "Inspecting and Replacing Fuses." P. 111

## Fuse Box Fuses

1. Remove the front seat. P. 122
2. Remove the fuse box cover and the fuse cases.
3. Pull the fuses out one by one with the fuse puller in the tool kit and check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.
4. Install the parts in the reverse order of removal.



## Main Fuse




1. Remove the front seat. ➡ P. 122
2. Remove the starter magnetic switch cover.
3. Disconnect the wire connector of the starter magnetic switch.
4. Pull the main fuse out and check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.
   ▶ Spare main fuse is provided in the starter magnetic switch.
5. 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. 158
**Keys**..... P. 159
**Instruments, Controls, & Other Features**... P. 160
**Caring for Your Vehicle**..... P. 169
**Storing Your Vehicle**..... P. 173
**Transporting Your Vehicle** ..... P. 174
**You & the Environment** ..... P. 174
**Serial Numbers** ..... P. 176
**Fuels Containing Alcohol** ..... P. 177
**Catalytic Converter** ..... P. 178

# 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

## Ignition Key

This vehicle has two ignition keys and a key tag with a key number and a bar code.

The ignition key contains a special coded chip that is recognized by the immobilizer system (HISS) in order to start the engine. Handle the key carefully to prevent damaging the HISS components.

- Do not bend keys or subject them to undue stress.
- Avoid prolonged exposure to sunlight or high temperatures.
- Do not grind, drill or in any way alter their shape.
- Do not expose to strong magnetic objects.

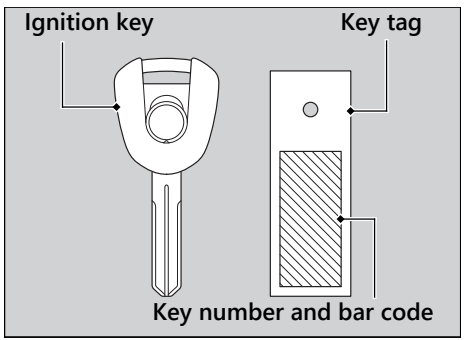
If you lose all ignition keys and the key tag, the PGM-FI unit/ignition control module must be replaced by your dealer. To avoid this, keep a duplicate key.

If you lose a key, make another duplicate key immediately.

To make a duplicate key and register it with your HISS system, take the spare key, the key tag, and the vehicle to your dealer.

► Store the key tag in a safe location.

A metal key holder may cause damage to the area surrounding the ignition switch.



# 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 key 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.

## HISS

The Honda Ignition Security System (HISS) immobilizes the engine's ignition system if an improperly-coded key is used to try and start the engine. When the ignition switch is turned to the ○ (Off) position, the HISS immobilizer system is always alert, even if the HISS indicator is not flashing.

If the ignition switch is turned to the ❙ (On) position with the engine stop switch in the ○ (Run) position, the HISS indicator turns on and goes off after a few seconds to indicate it is OK to start the engine. **HISS Indicator Does Not Turn off** P. 141

The HISS indicator starts flashing every 2 seconds for 24 hours after the ignition switch is turned to the ○ (Off) position. You can turn this feature on or off. P. 47

**EU Directive**

This immobilizer 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.

Argentina only

R!
H-16919

Singapore only

Complies with
IMDA Standards
C000226241

Morocco only

AGREE PAR L'ANRT MAROC

Numéro d'agrément : MR 6164 ANRT 2011
Date d'agrément : 24/03/2021

Paraguay only

BSSEU10

CONATEL

Honda Lock Mfg. Co., Ltd.

NR:2016-3-I-0000102 HONDA

- DIESA.S.A.
  AVADA.DR.EUSEBIO AYALA KM 4, 5
  ASUNCION
  REPUBLIC OF PARAGUAY

South Africa only

ICASA TA-2007/988 APPROVED



*Continued*

## Document Bag

The owner's manual, registration, and insurance information can be stored in the plastic document bag located underside of the front seat. P. 122

## Ignition Cut-off System

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

## 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.

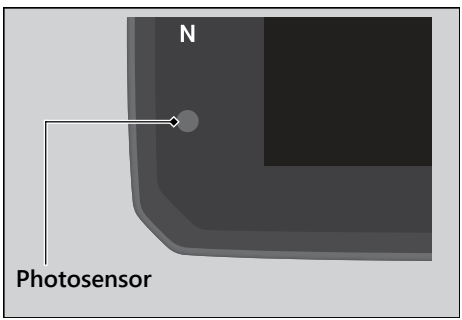
Use only MA classification engine oil for your vehicle. Using engine oil other than MA classification oil could result in damage to the assist-slipper clutch system.

## 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. 48 ➔P. 49
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

### EU Directive

Europe, North Macedonia, Montenegro, Tahiti

CE

Simplified EU DoC:

Hereby, Visteon Corporation declares that the radio equipment type SAB01is 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 **SAB0**1е в съответствие със съществените изисквания и други приложими разпоредби на директивата 2014/53/ЕС. |
| Česky | **Visteon Corporation** tímto prohlašuje, že tento **SAB01**e 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 teiste e asjakohastele sätetele. |
| English | Hereby, **Visteon Corporation**, declares that this **SAB01**is in compliance with the essential requirements andother 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/ES 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 hemmtid-Direttiva 2014/53/UE. |
| Magyar | Alulírott, **Visteon Corporation** nyilatkozom, hogy a **SAB01** megfelel a vonatkozó alapvető követelményeknek és az 2014/53/EU irányelv egyéb előírásainak. |
| 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 direktive2014/53/ES. |
| Slovensky | **Visteon Corporation** týmto vyhlasuje, že **SAB01**spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 2014/53/EÚ. |



*Continued* 

| | |
|---|---|
| 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. |
| 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, Српскохрватски језик | Ovim, **Visteon Corporation,** izjavljuje da ovaj **SAB01** je usklađen sa bitnim zahtjevima i drugim relevantnim odredbama Direktive 2014/53/UE. |
| Română<br><br>Türkiye | Prin prezenta, **Visteon Corporation,** declară că acest **SAB01** respectă cerințele esențiale și alte dispoziții relevante din Directiva 2014/53 / UE.<br>**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** usklađen 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**

Morocco only

AGREE PAR L'ANRT MAROC
Numéro d'agrément: MR00039411ANRT2023
Date d'agrément: 27/07/2023

Singapore only

Complies with
IMDA Standards
DA105282

Argentina only

R! C-28865

U.K. only

UK CA

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

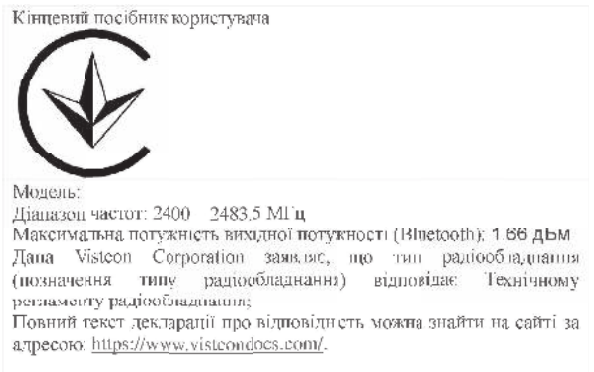


*Continued* 

Serbia only




Ukraine only


Кінцевий посібник користувача

Модель:
Діапазон частот: 2400 2483,5 МГц
Максимальна потужність вихідної потужності (Bluetooth): 1,66 дБм
Дана Visteon Corporation заявляє, що тип радіообладнання (позначення типу радіообладнання) відповідає Технічному регламенту радіообладнання;
Повний текст декларації про відповідність можна знайти на сайті за адресою: https://www.visteondocs.com/.

Paraguay only




**2023-02-I-0101**

CONATEL NR:2023-02-I-0101

**DIESA.S.A.**
**AVADA.DR.EUSEBIO AYALA KM 4, 5**
**ASUNCION**
**REPUBLIC OF PARAGUAY**

# 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.



*Continued* 

## Washing Precautions

Follow these guidelines when washing:

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

## 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.



*Continued* 

## 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. 113
- 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. 120) 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

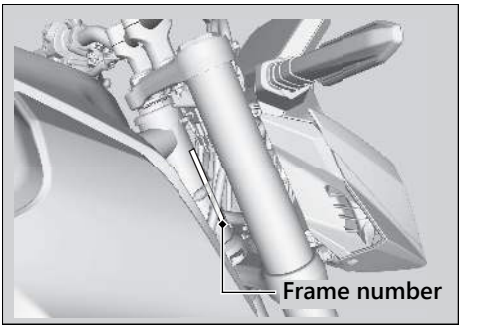
Use a biodegradable detergent when you wash your vehicle. Avoid aerosol spray cleaners that contain chlorofluorocarbons (CFCs) which damage the atmosphere's protective ozone layer.

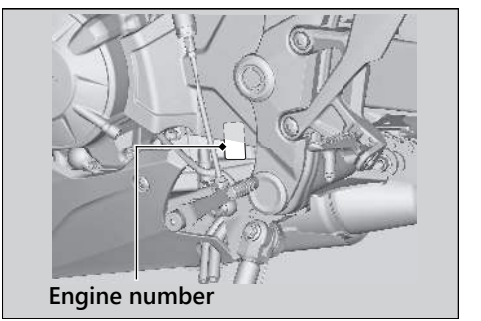
## Recycle Wastes

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 | 2,090 mm (82.3 in) |
| Overall width | 780 mm (30.7 in) |
| Overall height | 1,085 mm (42.7 in) |
| Wheelbase | 1,420 mm (55.9 in) |
| Minimum ground clearance | 140 mm (5.5 in) |
| Caster angle | 25° 0′ |
| Trail | 99 mm (3.9 in) |
| Curb weight | 196 kg (432 lb) |
| Maximum weight capacity *1 | 180 kg (397 lb) |
| Maximum luggage weight *2 | 13.5 kg (30 lb) |
| Passenger capacity | Rider and 1 passenger |
| Minimum turning radius | 2.7 m (8.9 ft) |
| Displacement | 755 $cm^3$ (46.1 cu-in) |
| Bore x stroke | 87.0 x 63.5 mm (3.43 x 2.50 in) |
| Compression ratio | 11.0:1 |
| Fuel | Unleaded petrol<br>Recommended: 91 RON or higher |
| Fuel containing alcohol | ETHANOL up to 10 % by volume |
| Tank capacity | 15.2 L (4.02 US gal, 3.34 Imp gal) |

| | | |
|---|---|---|
| Battery | YTZ10S<br>12 V-8.6 Ah (10 HR) / 12 V-9.1 Ah (20 HR) | |
| Gear ratio | 1st | 3.000 |
| | 2nd | 2.187 |
| | 3rd | 1.650 |
| | 4th | 1.320 |
| | 5th | 1.096 |
| | 6th | 0.939 |
| Reduction ratio (primary / final) | 1.777 / 2.812 | |

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

## ■ Service Data

| | | |
|---|---|---|
| Tyre size | Front | 120/70ZR17M/C (58W) |
| | Rear | 160/60ZR17M/C (69W) |
| Tyre type | Radial, tubeless | |
| Recommended Tyre | Front | DUNLOP Roadsport2 L |
| | | MICHELIN ROAD 6 |
| | Rear | DUNLOP Roadsport2 L |
| | | MICHELIN ROAD 6 |
| 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) | SILMAR8A9S (NGK) |
| Spark plug gap | (non-adjustable) | 0.8 - 0.9 mm (0.03 - 0.04 in) |
| Idle speed | 1,300 ± 100 rpm | |
| 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 | |

*1 : EU regulation

| | | |
|---|---|---|
| Engine oil capacity | After draining | 3.3 L (3.5 US qt, 2.9 Imp qt) |
| | After draining & engine oil filter change | 3.5 L (3.7 US qt, 3.1 Imp qt) |
| | After disassembly | 3.8 L (4.0 US qt, 3.3 Imp qt) |
| Recommended brake fluid | Honda DOT 4 Brake Fluid | |
| Cooling system capacity | 1.53 L (1.62 US qt, 1.35 Imp qt) | |
| Recommended coolant | **Except Singapore, Hong Kong, and India**<br>Pro Honda HP Coolant | |
| | **Singapore, Hong Kong, and India**<br>HONDA PRE-MIX COOLANT | |
| Recommended drive chain lubricant | Drive chain lubricant designed specifically for O-ring chains<br>If not available, use SAE 80 or 90 gear oil. | |
| Drive chain slack | 25 - 35 mm (1.0 - 1.4 in) | |
| Standard drive chain | DID520VM5 or RK520KZOZ2 | |
| | No. of links | 114 |
| Standard sprocket size | Drive sprocket | 16T |
| | Driven sprocket | 45T |

## Bulb

| | |
|---|---|
| Headlight | LED |
| Brakelight/Taillight | LED |
| Front turn signal/Position light | LED |
| Rear turn signal | LED |
| License plate light | 12 V-5 W |

## Fuse

| | |
|---|---|
| Main fuse | 30 A |
| Other fuse | 30 A, 15 A, 10 A |

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**https://www.hondamotopub.com/**

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00X32-MLB-6200

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