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

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## Welcome

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

To ensure your safety and riding pleasure:

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

- The following codes in this manual indicate each country.
- The illustrations here in are based on the CMX500A ED type.

#### **Country Codes**

Code	Country
CMX500A	
	European Direct Sales, Hong

CRAVEOGAG	
U	Australia, New Zealand
KO	Korea
ED	Kong

#### CMX500A2

ED	European Direct Sales, Hong Kong
U	Australia, New Zealand

<sup>\*</sup>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:

# **ADANGER**

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

# **AWARNING**

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

## **ACAUTION**

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

# Other important information is provided under the following titles:

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

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# **Vehicle Safety**

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

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

# **Safety Guidelines**

Follow these guidelines to enhance your safety:

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

### **Always Wear a Helmet**

It's a proven fact: helmets and protective apparel significantly reduce the number and severity of head and other injuries. So always wear an approved helmet and protective apparel. 
▶ P. 12

#### **Before Riding**

Make sure that you are physically fit, mentally focused and free of alcohol and drugs. Check that you and your passenger are both wearing an approved helmet and protective apparel. Instruct your passenger on holding onto the seat strap or your waist, leaning with you in turns, and keeping their feet on the footpegs, even when the vehicle is stopped.

#### Take Time to Learn & Practice

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

## **Ride Defensively**

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

#### **Make Yourself Easy to See**

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

#### **Ride within Your Limits**

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

#### **Don't Drink and Ride**

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

## **Keep Your Honda in Safe Condition**

make your vehicle unsafe ( P. 17).

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. 18), and do not modify vour vehicle or install accessories that would

#### 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.

Continued 5

#### **Carbon Monoxide Hazard**

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

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

Never run your vehicle inside a garage or other enclosure.

## AWARNING

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**

#### Except KO type

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

If a label comes off or becomes hard to read, contact your 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

# **CAUTION (with YELLOW background)**

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

you don't follow instructions.



# BATTERY LABEL DANGER

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



Except U type

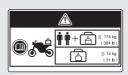
# RADIATOR CAP LABEL

DANGER NEVER OPEN WHEN HOT.

Hot coolant will scald you.

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

#### CMX500A



#### CMX500A2



#### Except U type

# 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.

#### CMX500A

 The total weight of accessories and luggage added to rider's and passenger's weight should not exceed 174 kg (384 lb), which is the maximum weight capacity.

#### CMX500A2

- The total weight of accessories and luggage added to rider's and passenger's weight should not exceed 172 kg (379 lb), which is the maximum weight capacity.
- The luggage weight must not exceed 14 kg (31 lb) under any circumstances.
- The fitting of large fork-mounted or large handlebar mounted fairing is not recommended.

#### **TYRE INFORMATION & DRIVE CHAIN LABEL**

Cold tyre pressure:

[Driver only]

Front

200 kPa (2.00 kgf/cm<sup>2</sup>, 29 psi)

Rear

200 kPa (2.00 kgf/cm<sup>2</sup>, 29 psi)

[Driver and passenger]

Front

200 kPa (2.00 kgf/cm<sup>2</sup>, 29 psi)

Rear

200 kPa (2.00 kgf/cm<sup>2</sup>, 29 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

# **Safety Precautions**

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

## **Protective Apparel**

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

#### Helmet

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

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

## AWARNING

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.

#### **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

#### 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 **O** (Off) position and remove the key.
- 6. Lock the steering. ≥ P. 40

#### **Refuelling and Fuel Guidelines**

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

- Use only unleaded petrol.
- Use recommended octane number. Using lower octane petrol will result in decreased engine performance.
- Do not use fuels containing a high concentration of alcohol. ▶ P. 125
- Do not use stale or contaminated petrol or an oil/petrol mixture.
- Avoid getting dirt or water in the fuel tank.

**Accessories & Modifications** 

# 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.

## AWARNING

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

# Loading

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

Maximum weight capacity / Maximum luggage weight ▶ P. 127

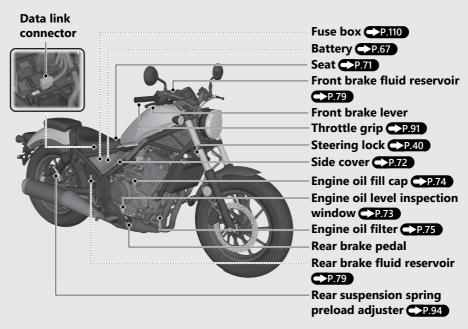
- Tie all luggage securely, evenly balanced and close to the centre of the vehicle.
- Do not place objects near the lights or the muffler.

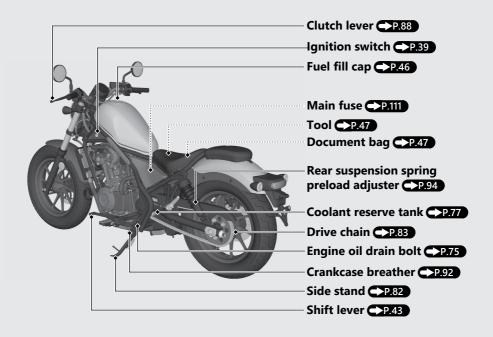
# **AWARNING**

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

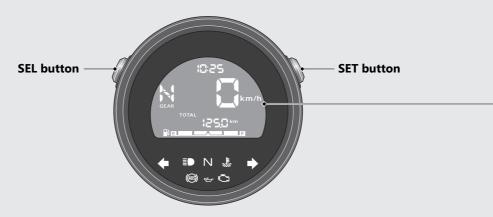
Follow all load limits and other loading guidelines in this manual.

# **Parts Location**



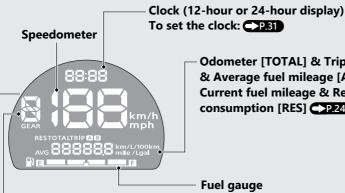


# **Instruments**



## **Display Check**

When the ignition switch is turned to the (On) position, initial animation will show. If any part of these displays does not come on when it should, have your dealer check for problems.



Odometer [TOTAL] & Tripmeter [TRIP A/B] & Average fuel mileage [AVG A/B] & Current fuel mileage & Reserve fuel consumption [RES] P.24

### **Gear position indicator**

The gear position is shown in the gear position indicator.

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

### Fuel gauge

Remaining fuel when only 1st (E) segment starts flashing: approximately 2.2 L (0.58 US gal, 0.48 Imp gal)

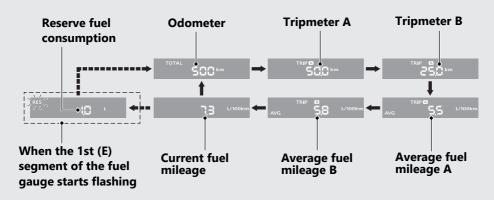


If the fuel gauge indicator flashes in a repeat pattern or turns off: P.100

#### **Instruments** (Continued)

# Odometer [TOTAL] & Tripmeter [TRIP A/B] & Current fuel mileage & Average fuel mileage [AVG A/B] & Reserve fuel consumption [RES]

The SEL button switches between the odometer, tripmeter A, tripmeter B, average fuel mileage A, average fuel mileage B, current fuel mileage and reserve fuel consumption.



When the 1st (E) segment of the fuel gauge starts flashing, the odometer, tripmeter A, tripmeter B, average fuel mileage A, average fuel mileage B or current fuel mileage switches to the reserve fuel consumption.

#### Odometer [TOTAL]

Total distance ridden. When "----" is displayed, 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.28

#### Average fuel mileage [AVG A/B]

The average fuel mileage A will be based on tripmeter A. Displays the average fuel mileage A since tripmeter A was reset. The average fuel mileage B will be based on tripmeter B. Displays the average fuel mileage B since tripmeter B was reset.

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

KO, U type Display range: 0.0 to 299.9 km/L (L/100km)

- Initial display: "--.-" is displayed.
- ED type More than 299.9 L/100km (km/L, mile/gal or mile/L): "299.9" is displayed.
- KO, U type More than 299.9 km/L (L/ 100km): "299.9" is displayed.
- When the tripmeter A or B is reset: "--.-" is displayed.

#### **Instruments** (Continued)

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

To reset the average fuel mileage:

#### Current fuel mileage

Displays the current instant fuel mileage. ED type Display range: 0.0 to 299.9 L/100km

(km/L, mile/gal or mile/L)

KO, U type Display range: 0.0 to 299.9 km/L (L/100km)

- Initial display: "--.-" is displayed.
  When your speed is less than 6 km/h (4
- mph): "--.-" is displayed.

   ED type More than 299.9 L/100km (km/L, mile/gal or mile/L): "299.9" is displayed.
- KO, U type More than 299.9 km/L (L/ 100km): "299.9" is displayed.

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

## Reserve fuel consumption [RES]

Displays the fuel consumption since the 1st (E) segment of the fuel gauge starts flashing. When the 1st (E) segment of the fuel gauge

starts flashing, the odometer, tripmeter A, tripmeter B, average fuel mileage A, average fuel mileage B or current fuel mileage

switches to the reserve fuel consumption.

You should refill the tank as soon as possible. ED type Display range: 0.0 to 99.9 L (litres) or

0.0 to 99.9 gal (gallon)

KO, U type Display range: 0.0 to 99.9 L (litres)

- Flashes from "0.0"
- ED type More than 99.9 L (litres) or 99.9 gal (gallon): "99.9" is displayed.
- KO, U type More than 99.9 L (litres): "99.9" is displayed.

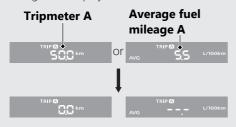
After refuelling more than the reserve amount, the display returns to normal.

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

#### **Instruments** (Continued)

# To reset the tripmeter [TRIP A/B] and average fuel mileage [AVG A/B]

To reset the tripmeter A and average fuel mileage A together, press and hold the SET button while the tripmeter A or average fuel mileage A is displayed.



When they are reset, reset display appears at each indication. Then, the display returns to the last selected indication.



To reset the tripmeter B and average fuel mileage B together, press and hold the SET button while the tripmeter B or average fuel mileage B is displayed.



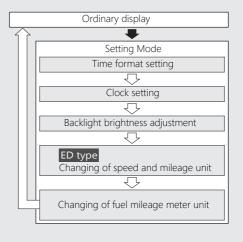
When they are reset, reset display appears at each indication. Then, the display returns to the last selected indication.



# **Instruments** (Continued) Display Setting

Following items can be changed sequentially.

- Time format setting
- · Clock setting
- Backlight brightness adjustment
- ED type Changing of speed and mileage unit
- Changing of fuel mileage meter unit



→ Press and hold SEL and SET buttons

Press the SET button

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

- The buttons is not pressed for about 30 seconds
- Turn the ignition switch to the (Off) position and then to the (On) position.

#### 1 Time format setting:

You can switch the time format between 12 hour format or 24 hour format.

- 1 Turn the ignition switch to the (On) position.
- 2 Press and hold SEL and SET buttons until the current time format start flashing.



3 Press SEL button to select "12 hr" or "24 hr".



4 Press SET button. The time format is set, and then the display moves to the clock setting.

#### **Instruments** (Continued)

#### 2 Clock setting:

- 1 Press SEL button until the desired hour is displayed.
  - Press and hold SEL button to advance the hour quickly.



2 Press SET button. The minute digits start flashing.



- 3 Press SEL button until the desired minute is displayed.
  - Press and hold SEL button to advance the minute quickly.

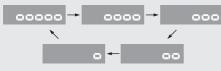


Press SET button. The clock is set, and then the display moves to the backlight brightness adjustment.

#### 3 Backlight brightness adjustment:

You can adjust the brightness to one of five levels.

Press SEL button. The brightness is switched.



2 Press SET button. The backlight is set.

#### ED type

The display moves to the changing of speed and mileage unit.

## KO, U type

The display moves to the changing of fuel mileage meter unit.

#### 4 Changing of speed and mileage unit:

#### ED type

Press SEL button to select either "km/h" and "km" or "mph" and "mile".



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

## **Instruments** (Continued)

### 5 Changing of fuel mileage meter unit:

1 When the "km/h" for speed and "km" for mileage are selected

Press SEL button to select "L/100km" or "km/L".



When the "mph" for speed and "mile" for mileage are selected (ED type only)

Press SEL button to select "mile/L" or "mile/gal".



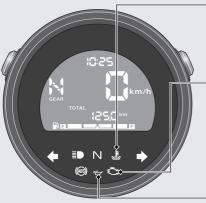
2 Press SET button. The fuel mileage meter unit is set, and then the display moves to the ordinary display.

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

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

# **Indicators**

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



**□** High coolant temperature indicator

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

If it comes on while riding: P.97

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

Comes on briefly when the ignition switch is turned to the (On) position with the engine stop switch in the  $\bigcirc$  (Run) position.

If it comes on while engine is running:

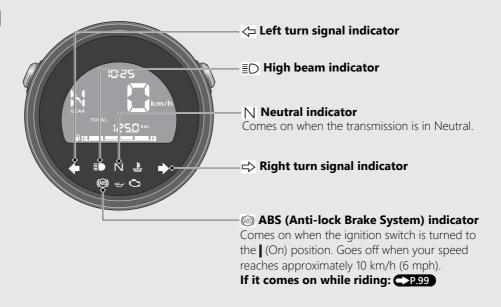
Low oil pressure indicator

Comes on when the ignition switch is turned to the (On) position. Goes off when the engine starts.

If it comes on while engine is running:

→P.98

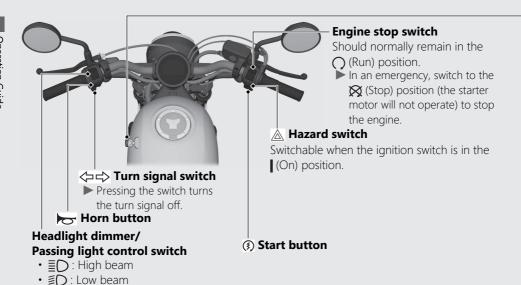
## **Indicators** (Continued)





• PASS: Flashes the high beam headlight

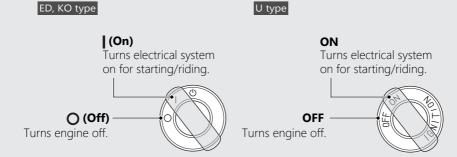
# **Switches**



## **Ignition switch**

Switches the electrical system on/off.

► Key can be removed when in the **(**Off) position.



# **Switches** (Continued) **Steering Lock**

Lock the steering when parking to help prevent theft.

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



## Locking

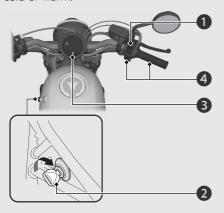
- 1 Turn the handlebar all the way to the left.
- 2 Insert the ignition key in the steering lock.
- 3 Push the ignition key down, and turn it 180 degrees clockwise.
  - ▶ Jiggle the handlebar if the lock is difficult to engage.
- 4 Remove the ignition key.

## Unlocking

Insert the ignition key, push it in, and turn it 180 degrees counterclockwise.

# **Starting the Engine**

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

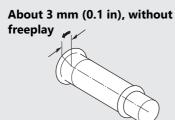


#### NOTICE

- · 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.
- 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.
- 4 Press the start button with the throttle completely closed.

# **Starting the Engine** (Continued) If you cannot start the engine:

With the throttle slightly open (about 3 mm (0.1 in), without freeplay) while starting the engine.



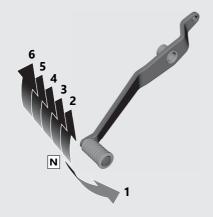
#### If the engine does not start:

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

If Engine Will Not Start P.96

# **Shifting Gears**

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



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

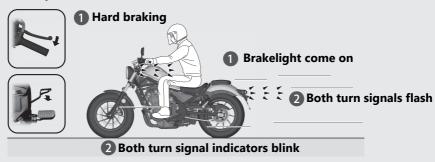
# **Emergency Stop Signal**

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

The emergency stop signal stops operating when:

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

## When the system 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 with the hazard switch pressed in.
- ▶ 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:

11.2 L (2.96 US gal, 2.46 Imp gal)

Refuelling and Fuel Guidelines P.16

### **Opening the Fuel Fill Cap**

Open the lock cover, insert the ignition key, and turn it clockwise to open the fuel fill cap.

## Closing the Fuel Fill Cap

- After refuelling, push the fuel fill cap closed until it locks.
- Remove the ignition key and close the lock cover.
  - ► The ignition key cannot be removed if the fuel fill cap is not locked.

## AWARNING

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

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

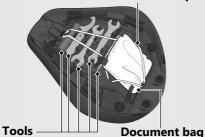
# Storage Equipment

### **Tool/Document Bag**

The tools and document bag are stored on the underside of the seat.

Store the tools and document bag, then secure them with the rubber strap as shown.

**Rubber strap** 



Removing the Seat P.71

The 5 mm Hex wrench is stored behind the right side cover.

To remove the 5 mm Hex wrench, loosen the screw with a coin.

Screw

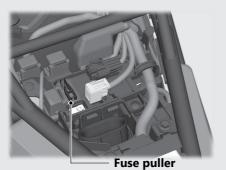


5 mm Hex wrench

Removing the Right Side Cover →P.72

## **Storage Equipment** (Continued)

The fuse puller is stored on the battery cover under the seat.



Removing the Seat P.71

## Maintenance

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

D 50

importance or Maintenance	
Maintenance Schedule	<b></b> P. 51
Maintenance Fundamentals	<b></b> P. 54
Tool	<b></b> P. 66
<b>Removing &amp; Installing Body Components</b>	<b></b> P. 67
Battery	P. 67
Clip	P. 70
Seat	P. 71
Side Cover	P. 72
Engine Oil	<b></b> P. 73
Coolant	<b></b> P. 77
Brakes	<b></b> P. 79
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Drive Chain	<b></b> P. 83

Importance of Maintenance

P. 88
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## Importance of Maintenance

## 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.

## **AWARNING**

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.

#### Maintenance Schedule

Items		Pre-ride Check ▶ P. 54	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			Page
Fuel Line	1				I		1	I			=
Fuel Level											-
Throttle Operation	1										91
Air Cleaner*2	1					ß		B			-
Crankcase Breather*3					С	С	С	С			92
Spark Plug	*					B		0			-
Valve Clearance	*										-
Engine Oil				ß	ß	ß	B	B	B		75
Engine Oil Filter				ß		B		0			75
Engine Idle Speed	1										-
Radiator Coolant*4										3 Years	77
Cooling System	1										-
Secondary Air Supply System	1										-
Evaporative Emission Control System*5	1							П			-

#### **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**

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

R : Replace

: Lubricate

c : Clean

#### Maintenance Schedule

Items		Pre-ride Check ▶ P. 54		requenc							
			× 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				Every 1,000 km (600 mi): [							83
Drive Chain Slider											87
Brake Fluid *4										2 Years	79
Brake Pads Wear											80
Brake System											54
Brakelight Switch											81
Headlight Aim											93
Lights/Horn											-
Engine Stop Switch											-
Clutch System											88
Side Stand											82
Suspension	1										-
Nuts, Bolts, Fasteners	1										-
Wheels/Tyres	*										62
Steering Head Bearings	*										-

#### Notes:

- \*1: At higher odometer reading, repeat at the frequency interval established here.
- \*2 : Service more frequently when riding in unusually wet or dusty areas.
- \*3 : Service more frequently when riding in rain or at full throttle.
- \*4 : Replacement requires mechanical skill.
- \*5 : ED, KO type only

## **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 46
- Engine oil level Add engine oil if necessary.
   Check for leaks ₱ P 73
- Coolant level Add coolant if required.
   Check for leaks ► P 77
- Drive chain Check condition and slack, adjust and lubricate if necessary. 

   P. 83

- Brakes Check operation;
   Front and Rear: check brake fluid level and pads wear. ■ P. 79, ■ P. 80
- Lights and horn Check that lights, indicators and horn function properly.
- Clutch Check operation;
   Adjust freeplay if necessary. 

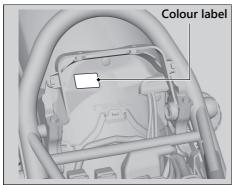
  P. 88
- Side stand ignition cut-off system Check for proper function. 

   P. 82
- Wheels and tyres Check condition, air pressure and adjust if necessary.
   ▶ P. 62

## **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 battery box under the seat. 
▶ P. 71



## AWARNING

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

## AWARNING

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. 67
- 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

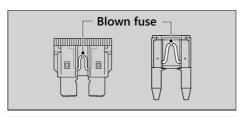
Installing non-Honda electrical accessories can overload the electrical system, discharging the battery and possibly damaging the system.

#### Fuses

Fuses protect the electrical circuits on your vehicle. If something electrical on your vehicle stops working, check for and replace any blown fuses. **5** P. 110

## 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. 129



#### 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

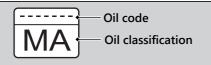
For recommended engine oil, see "Specifications." 

▶ P. 128

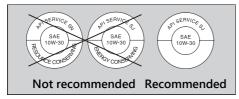
If you use non-Honda engine oil, check the label to make sure that the oil satisfies all of the following standards:

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

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



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



#### **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:

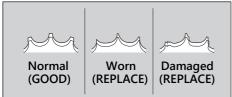
Honda DOT 4 Brake Fluid or equivalent

#### **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. 83

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

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



#### NOTICE

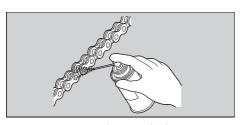
Use of a new chain with worn sprockets will cause rapid chain wear.

## 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**

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

#### **Concentration:**

50% antifreeze and 50% distilled water

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

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

#### NOTICE

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

#### 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.

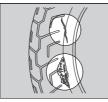
If the drain tube overflows, the air filter may become contaminated with engine oil causing poor engine performance. ▶ P. 92

## Tyres (Inspecting/Replacing)

### Checking the Air Pressure

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

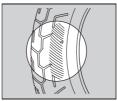
## Inspecting for Damage



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

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

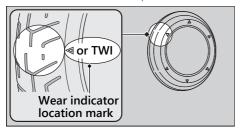
## Inspecting for Abnormal Wear



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

### 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.



## AWARNING

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. 128

Follow these guidelines whenever you replace tyres.

- Use the recommended tyres or equivalents of the same size, construction, speed rating, and load range.
- Have the wheel balanced with Honda Genuine balance weights or 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.

## AWARNING

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.

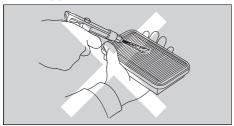
Always use the size and type of tyres recommended in this owner's manual.

### **Air Cleaner**

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

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

Do not perform the maintenance. Should be serviced by your dealer.



## Tool

The tools are stored underside of the seat.

**₽** P. 71

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

- Standard/Phillips screwdriver
- Screwdriver handle10 x 14 mm Open end wrench
- 12 x 14 mm Open end wrench
- Pin spanner

The following tool is stored behind the right side cover. ▶ P. 72

• 5 mm Hex wrench

The following tool is stored on the battery cover under the seat. ■ P. 71

Fuse puller

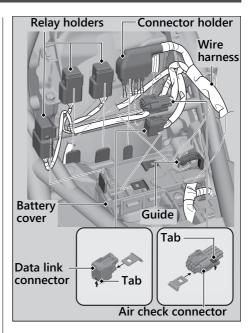
## **Removing & Installing Body Components**

## **Battery**

#### I Removal

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

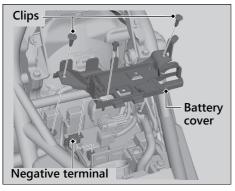
- 1. Remove the seat ▶ P 71
- 2. Remove the data link connector and air check connector while pressing each tab from the battery cover.
- **3.** Remove the connector holder and relay holders from the battery cover.
- 4. Release the wire harness from the guide on the battery cover.



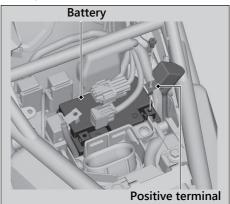
### Removing & Installing Body Components ▶ Battery

- **5.** Remove the clips. **▶** P. 70
- **6.** Disconnect the negative 

   terminal from the battery.
- **7.** Pull up the battery cover.



- **8.** Disconnect the positive  $\oplus$  terminal from the battery.
- **9.** Remove the battery taking care not to drop the terminal nuts.



## Removing & Installing Body Components ▶ Battery

## **I** Installation

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

Make sure the clock information is correct

after the battery is reconnected. ■ P. 32 For proper handling of the battery, see "Maintenance Fundamentals." ■ P. 55 "Battery Goes Dead." ■ P. 108

Removing & Installing Body Components ► Clip



### **Installation**

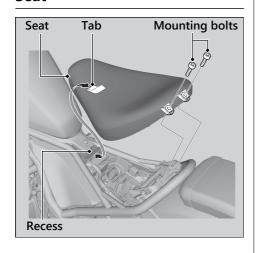
**1.** Push the bottom of the centre pin.



2. Insert the clip into the hole.

**3.** Press down on the centre pin to lock the clip.

# Seat



#### Removing & Installing Body Components ► Seat

#### | Removal

- Pull the rear corners of the seat up, then remove the mounting bolts using the provided 5 mm Hex wrench. ₱ P. 66
- 2. Pull the seat back and up.

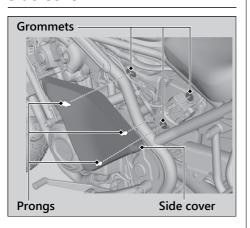
#### **I** Installation

- 1. Insert the tab into the recess.
- **2.** Install and tighten the mounting bolts securely.

Make sure that the seat is locked securely in position by pulling it up lightly.

#### Removing & Installing Body Components ► Side Cover

## **Side Cover**



The right and left side covers can be removed in the same way.

#### | Removal

- **1.** Grasp the side cover.
- **2.** Remove the prongs from the grommets.
- **3.** Remove the side cover.

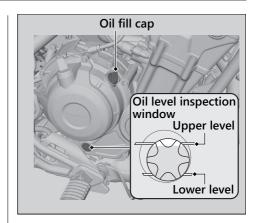
#### **I** Installation

Install the parts in the reverse order of removal.

# **Engine Oil**

# **Checking the Engine Oil**

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



Engine Oil ► Adding Engine Oil

# **Adding Engine Oil**

If the engine oil is below or near the lower level mark, add the recommended engine oil. 
▶ P. 58, ▶ P. 128

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

#### NOTICE

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

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

P. 58

#### Engine Oil ► Changing Engine Oil & Filter

# **Changing Engine Oil & Filter**

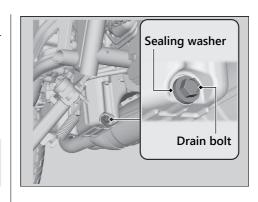
Changing the oil and filter requires special tools. We recommend that you have your vehicle serviced by your dealer.

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

#### NOTICE

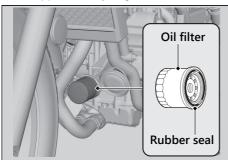
Using the wrong oil filter can result in serious damage to the engine.

- 1. If the engine is cold, idle the engine for 3 to 5 minutes.
- **2.** Turn the ignition switch to the **(**Off) position and wait for 2 to 3 minutes.
- **3.** Place your vehicle on a firm, level surface.
- 4. Place a drain pan under the drain bolt.
- 5. Remove the oil fill cap, drain bolt, and sealing washer to drain the oil.



#### Engine Oil ► Changing Engine Oil & Filter

- **6.** Remove the oil filter with a filter wrench and let the remaining oil drain out. Make sure the prior seal is not stuck to the engine.
  - Discard the oil and oil filter at an approved recycling centre.



**7.** Apply a thin coat of engine oil to the rubber seal of a new oil filter.

8. Install the new oil filter and tighten.

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

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

**Torque:** 30 N·m (3.1 kgf·m, 22 lbf·ft)

**10.** Fill the crankcase with the recommended oil (♠ P. 58, ▶ P. 128) and install the oil fill cap.

#### Required oil

When changing oil & engine oil filter:

2.7 L (2.9 US qt, 2.4 Imp qt) When changing oil only:

2.5 L (2.6 US qt, 2.2 Imp qt)

- 11. Check the oil level. ▶ P. 73
- **12.** Check that there are no oil leaks.

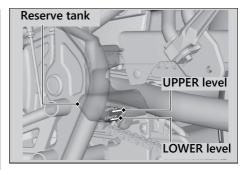
# Coolant

# **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 vour dealer.



# **Adding Coolant**

If the coolant level is below the LOWER level mark, add the recommended coolant

(▶ P. 61) until the level reaches the UPPER level mark.

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

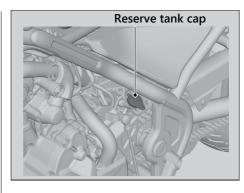
#### Coolant ► Changing Coolant

- **1.** Remove the reserve tank cap and add fluid while monitoring the coolant level.
  - ▶ Do not overfill above the UPPER level mark.
  - ► Make sure no foreign objects enter the reserve tank opening.
- 2. Securely reinstall the reserve tank cap.

# **AWARNING**

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

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



# **Changing Coolant**

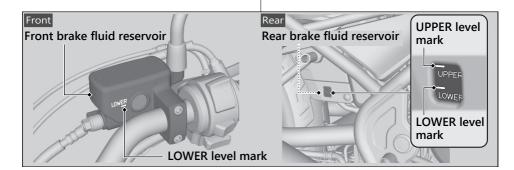
Have your dealer change the coolant unless you have the proper tools and are mechanically qualified.

### **Brakes**

# **Checking Brake Fluid**

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



Brakes ► Inspecting the Brake Pads

# **Inspecting the Brake Pads**

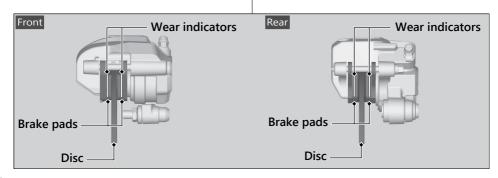
Check the condition of the brake pad wear indicators.

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

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

If necessary have the pads replaced by your dealer.

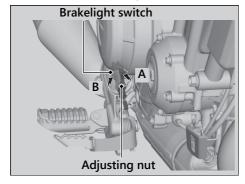
Always replace both left and right brake pads at the same time.



#### Brakes ► Adjusting the Brakelight Switch

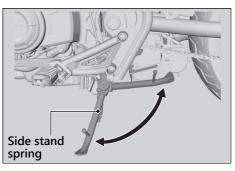
# **Adjusting the Brakelight Switch**

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



## **Side Stand**

# **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.

### **Drive Chain**

# **Inspecting the Drive Chain Slack**

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

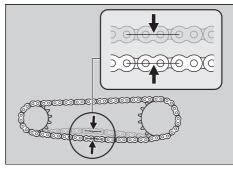
Have the chain inspected by your dealer.

- **1.** Shift the transmission to Neutral. Stop the engine.
- **2.** Place your vehicle on its side stand on a firm, level surface.
- **3.** Check the slack in the lower half of the drive chain 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. 60
- **6.** Clean and lubricate the drive chain. ▶ P. 60

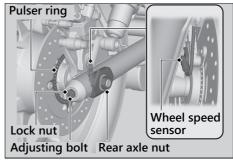
Drive Chain ► Adjusting the Drive Chain Slack

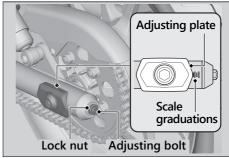
# **Adjusting the Drive Chain Slack**

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

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

- **1.** Shift the transmission to Neutral. Stop the engine.
- **2.** Place your vehicle on its side stand on a firm, level surface.
- 3. Loosen the rear axle nut.
- **4.** Loosen the lock nuts on both sides of the swingarm.





- 5. Turn both adjusting bolts an equal number of turns until the correct drive chain slack is obtained. Turn the adjusting bolts clockwise to tighten the chain. Turn the adjusting bolts counterclockwise to provide more slack. Adjust the slack at a point midway between the drive sprocket and the driven sprocket.
- 6. Check rear axle alignment by making sure the end of the chain adjusting plates align with the scale graduations on both sides of the swingarm.

Check the drive chain slack. 

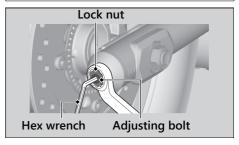
▶ P. 83

Both marks should correspond. If the axle is misaligned, turn the right or left adjusting bolt until the marks are aligned and recheck chain slack

#### Drive Chain ► Adjusting the Drive Chain Slack

- 7. Hold the adjusting bolts and tighten the lock nuts
  - To hold the adjusting bolt, use the provided 5 mm Hex wrench. ▶ P. 66

Torque: 21 N·m (2.1 kgf·m, 15 lbf·ft)



8. Tighten the rear axle nut.

Torque: 88 N·m (9.0 kgf·m, 65 lbf·ft)

**9.** Recheck drive chain slack.

#### Drive Chain ► Adjusting the Drive Chain Slack

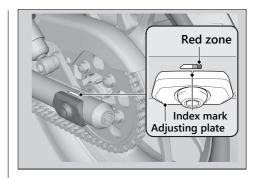
If a torque wrench was not used for installation, see your dealer as soon as possible to verify proper assembly. Improper assembly may lead to loss of braking capacity.

## | Checking the Drive Chain Wear

Check the chain wear label when adjusting the drive chain. If the index mark on the chain adjusting plate enters the red zone on the label after the chain has been adjusted to the proper slack, the chain is excessively worn and must be replaced.

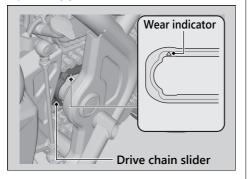
Chain: DID 520VF or RK 520KLO2

If necessary have the drive chain replaced by your dealer.



# **Checking the Drive Chain Slider**

Check the condition of the drive chain slider. The drive chain slider need to be replaced if it is worn to the wear indicator. If necessary have the drive chain slider replaced by your dealer.



Drive Chain ► Checking the Drive Chain Slider

## Clutch

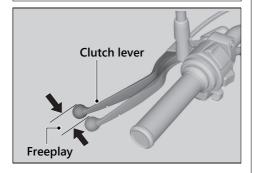
# **Checking the Clutch**

## I Checking the Clutch Lever Freeplay

Check the clutch lever freeplay.

### Freeplay at the clutch lever:

10 - 20 mm (0.4 - 0.8 in)



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

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

#### NOTICE

Improper freeplay adjustment can cause premature clutch wear.

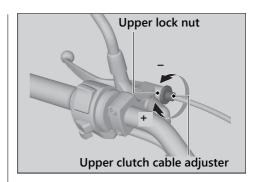
# Adjusting the Clutch Lever Freeplay

#### | Upper Adjustment

Attempt adjustment with the upper clutch cable adjuster first.

- 1. Loosen the upper lock nut.
- 2. Turn the upper clutch cable adjuster until the freeplay is 10 20 mm (0.4 0.8 in).
- **3.** Tighten the upper lock nut and check the freeplay again.

#### Clutch ► Adjusting the Clutch Lever Freeplay

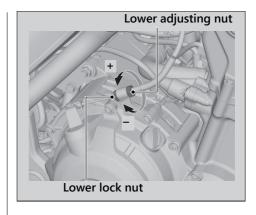


# | Lower Adjustment

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.

#### Clutch ► Adjusting the Clutch Lever Freeplay

- Loosen the upper lock nut and turn the upper clutch cable adjuster all the way in (to provide maximum freeplay).
   Tighten the upper lock nut.
- 2. Loosen the lower lock nut.
- **3.** Turn the lower 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.

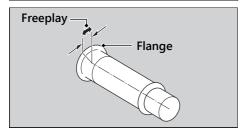
# **Throttle**

# **Checking the Throttle**

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

# Freeplay at the throttle grip flange:

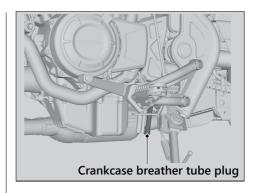
2 - 6 mm (0.1 - 0.2 in)



# **Crankcase Breather**

# **Cleaning the Crankcase Breather**

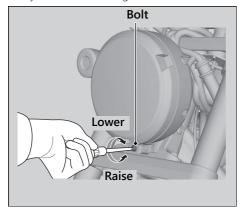
- **1.** Place a suitable container to receive deposits.
- **2.** Remove the crankcase breather tube plug from the tube.
- 3. Drain deposits into a suitable container.
- **4.** Install the crankcase breather tube plug.



# Other Adjustments

# **Adjusting the Headlight Aim**

You can adjust vertical aim of the headlight for proper alignment. Turn the bolt in or out as necessary using the provided Phillips screwdriver. ▶ P. 66
Obey local laws and regulations.



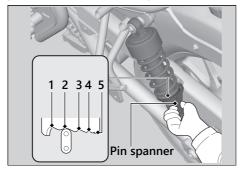
Other Adjustments ► Adjusting the Rear Suspension

# **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 provided pin spanner. ▶ P. 66

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



#### NOTICE

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

#### NOTICE

Do not turn the adjuster beyond its limits. Adjust both left and right shock absorbers to the same spring preload.

#### 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**

Overneating (migh coolant temperature	
indicator is on)	P. 97
Warning Indicators On or Flashing	P. 98
Low Oil Pressure Indicator	P. 98
PGM-FI (Programmed Fuel Injection)	
Malfunction Indicator Lamp (MIL)	P. 98
ABS (Anti-lock Brake System) Indicator	P. 99
Other Warning Indications	P. 100
Fuel Gauge Failure Indication	P. 100
Tyre Puncture	P. 101
Electrical Trouble	P. 108
Battery Goes Dead	P. 108
Burned-out Light Bulb	P. 108
S	

Engine Will Not Start......P. 96

# **Engine Will Not Start**

# **Starter Motor Operates But Engine Does Not Start**

Check the following items:

- Check the correct engine starting sequence. ▶ P. 41
- Check that there is petrol in the fuel tank.
- Check if the PGM-FI malfunction indicator lamp (MIL) is on.
  - If the indicator lamp is on, contact your dealer as soon as possible.

# **Starter Motor Does Not Operate**

Check the following items:

- Check the correct engine starting sequence. 
   ■ P. 41
- Make sure engine stop switch is in the 
   (Run) position. 
   ▶ P. 38
- Check for a blown fuse. ▶ P. 110
- Check for a loose battery connection
   (►) P. 67) or battery terminal corrosion
   (►) P. 55).
- Check the condition of the battery. P. 108

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

# Overheating (High coolant temperature indicator is on)

The engine is overheating when the following occurs:

- High coolant temperature indicator comes on.
- 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 to come on.

#### NOTICE

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

- 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 O (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  $\bigcirc$  (Off) position.

- 3. After the engine has cooled, inspect the radiator hose and check if there is a leak. 
  ▶ P. 77
  - 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. 77
  - Add coolant as necessary.
- **5.** If 1-4 check normal, you may continue riding, but closely monitor the high coolant temperature indicator.

# Warning Indicators On or Flashing

#### **Low Oil Pressure Indicator**

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

#### NOTICE

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

- 1. Check the engine oil level, and add oil as necessary. 

  ▶ P. 73, 

  ▶ P. 74
- 2. Start the engine.
  - Only continue riding if the low oil pressure indicator goes off.

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

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

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

# ABS (Anti-lock Brake System) Indicator

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

- Indicator comes on or starts flashing while riding.
- Indicator does not go off at speeds above 10 km/h (6 mph).

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

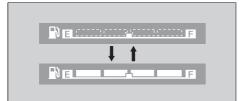
The ABS indicator may flash if you turn the rear wheel while the rear wheel is lifted off the ground. In this case, turn the ignition switch to the (Off) position, and then to the (On) position again. The ABS indicator will go off after your speed reaches 30 km/h (19 mph).

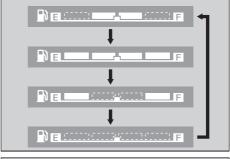
# **Other Warning Indications**

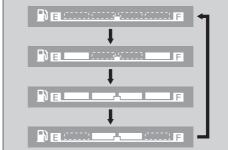
# **Fuel Gauge Failure Indication**

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

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







## **Tyre Puncture**

Repairing a puncture or removing a wheel requires special tools and technical expertise. We recommend you have this type of service performed by your dealer.

After an emergency repair, always have the tyre inspected/replaced by your dealer.

# **Emergency Repair Using a Tyre Repair Kit**

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

Follow the instructions provided with the emergency tyre repair kit.

Riding your 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.

#### AWARNING

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.

# **Removing Wheels**

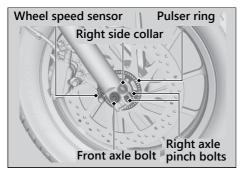
Follow these procedures if you need to remove a wheel in order to repair a puncture.

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

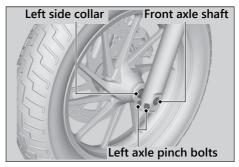
#### | Front Wheel

#### Removal

- 1. Place your vehicle on a firm, level surface.
- 2. Remove the front axle bolt.



- 3. Loosen the right and left axle pinch bolts.
- **4.** Support your vehicle securely and raise the front wheel off the ground using a maintenance stand or a hoist.
- **5.** Remove the front axle shaft, front wheel and side collars.
  - Avoid getting grease, oil, or dirt on the disc or pad surfaces.
  - ▶ Do not pull the brake lever while the wheel is removed.



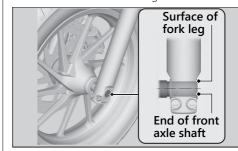
#### Installation

- 1. Attach the side collars to the wheel.
- On the left side, place the wheel between the fork legs and insert the front axle shaft, through the left fork leg and wheel hub.

#### NOTICE

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

**3.** Align the end of the front axle shaft with the surface of the fork leg.



- **4.** Tighten the left axle pinch bolts to hold the front axle shaft.
- 5. Install and tighten the front axle bolt.

**Torque:** 51 N·m (5.2 kgf·m, 38 lbf·ft)

- 6. Loosen the left axle pinch bolt.
- 7. Tighten the right axle pinch bolts.

**Torque:** 22 N·m (2.2 kgf·m, 16 lbf·ft)

- 8. Lower the front wheel on the ground.
- **9.** Apply the brake lever and pump the fork several times.
- **10.** Retighten the left axle pinch bolts.

# **Torque:** 22 N·m (2.2 kgf·m, 16 lbf·ft)

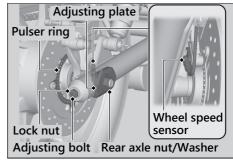
- **11.** Raise the front wheel off the ground again, and check that the wheel rotates freely after you release the brake.
- If a torque wrench was not used for installation, see your dealer as soon as possible to verify proper assembly. Improper assembly may lead to loss of braking capacity.

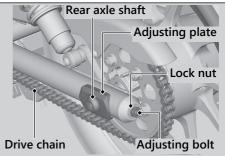
#### I Rear Wheel

When using a maintenance stand, be careful not to damage the wheel speed sensor wire and brake hose

#### Removal

- 1. Support your vehicle securely and raise the rear wheel off the ground using a maintenance stand or a hoist.
- 2. Loosen the rear axle nut, lock nuts and turn the adjusting bolts so the rear wheel can be moved all the way forward for maximum drive chain slack.
- Remove the drive chain from the driven sprocket by pushing the rear wheel forward.
- 4. Remove the rear axle nut and washer.





#### Tyre Puncture ► Removing Wheels

- **5.** Remove the rear axle shaft, chain adjusting plates, brake caliper bracket, rear wheel and side collars.
  - ➤ Support the brake caliper assembly so that it doesn't hang from the brake hose. Do not twist the brake hose.
  - Avoid getting grease, oil, or dirt on the disc to pad surfaces.
  - ➤ Do not push the brake pedal while the wheel is removed.

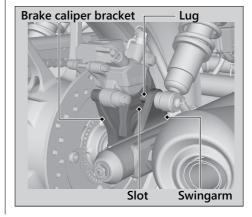
#### Installation

- **1.** Attach the right and left side collars in their original locations on the rear wheel.
- **2.** To install the rear wheel, reverse the removal procedure.
  - Take care to prevent the brake caliper from scratching the wheel during installation.

#### NOTICE

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

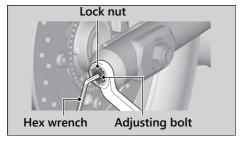
Make sure that the lug on the swingarm is positioned in the slot on the brake caliper bracket.



#### Tyre Puncture ► Removing Wheels

- 4. Adjust the drive chain. ▶ P. 84
- **5.** Hold the adjusting bolts and tighten the lock nuts.
  - ➤ To hold the adjusting bolt, use the provided 5 mm Hex wrench. ▶ P. 66

**Torque:** 21 N·m (2.1 kgf·m, 15 lbf·ft)



6. Tighten the rear axle nut.

Torque: 88 N·m (9.0 kgf·m, 65 lbf·ft)

7. Recheck the drive chain slack and rear axle alignment. ▶ P. 83

**8.** After installing the wheel, apply the brake pedal several times, then check if the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.

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

# **Electrical Trouble**

# **Battery Goes Dead**

Charge the battery using a motorcycle battery charger.
Remove the battery from the vehicle before

charging.

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

#### NOTICE

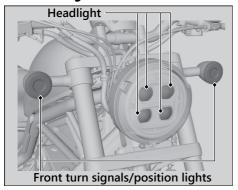
Jump starting using an automobile battery can damage your vehicle's electrical system and is not recommended.

# **Burned-out Light Bulb**

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

# Electrical Trouble ► Burned-out Light Bulb

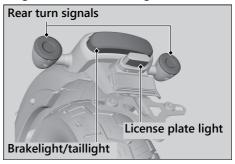
# | Headlight/Front Turn Signal/ Position Light



The headlight, front turn signals and position lights use several LEDs.

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

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



The brakelight, taillight, rear turn signals and license plate light use several LEDs.

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

#### Electrical Trouble ► Blown Fuse

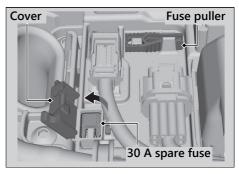
# **Blown Fuse**

Before handling fuses, see "Inspecting and Replacing Fuses." ▶ P. 57

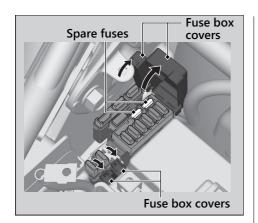
#### I Fuse Box Fuses

- 1. Remove the battery cover. 
  ▶ P. 67
- 2. Open the fuse box covers.
- **3.** Pull the fuses out one by one with the fuse puller and check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.
  - ► The fuse puller is stored on the battery cover.
  - ➤ Spare fuses are provided in the fuse box and on the battery cover (to access the spare fuse, open the cover).

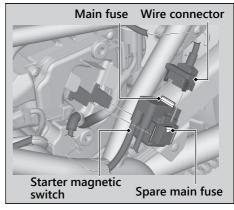
- 4. Close the fuse box covers.
- **5.** Reinstall parts in the reverse order of removal.



#### Electrical Trouble ► Blown Fuse



## | Main Fuse



- 1. Remove the left side cover. 
  ▶ P. 72
- **2.** Remove the starter magnetic switch from the air cleaner housing cover, then disconnect the wire connector of the starter magnetic switch.

#### Electrical Trouble ► Blown Fuse

- **3.** 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.
- **4.** 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

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Catalytic Converter	Ρ.	126
•		

Service Diagnostic Recorders

# Service Diagnostic Recorders

#### Except U type

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/Steering Lock Key**

Be sure to record the key number provided with the key number plate. Store the spare key and key number in a safe location.

To make a duplicate, take the spare key or the key number to your dealer.

If you lose all ignition keys and the key number, the ignition switch assembly will probably have to be removed by your dealer to determine the key number.

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

#### Instruments, Controls, & Other Features

# Instruments, Controls, & Other Features

#### **Ignition Switch**

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

Do not turn the 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 locks at 999,999 when the read-out exceeds 999,999.

## **Tripmeter**

The tripmeters return to 0.0 when each readout exceeds 9,999.9.

#### **Document Bag**

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

Instruments, Controls, & Other Features

## **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.

# **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. Always wash your vehicle thoroughly after riding on coastal or treated roads.

# Washing

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

- **1.** Rinse your 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, drum or shoes contaminated with oil will suffer greatly reduced braking effectiveness and can lead to a crash
- **5.** Lubricate the drive chain immediately after washing and drying the vehicle.
- **6.** Apply a coat of wax to prevent corrosion.
  - Avoid products that contain harsh detergents or chemical solvents. These can damage the metal, paint, and plastic on your vehicle. Keep the wax clear of the tyres and brakes.
  - ▶ If your vehicle has any mat painted parts, do not apply a coat of wax to the mat painted surface.

#### Washing Precautions

Follow these guidelines when washing:

- Do not use high-pressure washers:
  - High-pressure water cleaners can damage moving parts and electrical parts, rendering them inoperable.
  - ➤ Water in the air intake can be drawn into the throttle body and/or enter the air cleaner.
- Do not direct water at the muffler:
  - ► Water in the muffler can prevent starting and causes rust in the muffler.
- Dry the brakes:
  - Water adversely affects braking effectiveness. After washing, apply the brakes intermittently at low speed to help dry them.
- Do not direct water under the seat:
  - ➤ Water 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 surface:
  - Use a soft cloth or sponge, plenty of water, and a mild detergent to clean mat painted surfaces. Dry with a soft clean cloth.

#### **Aluminium Components**

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

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

#### **Panels**

Follow these guidelines to prevent scratches and blemishes:

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

#### Windscreen

#### CMX500A2

Using plenty of water, clean the windscreen with a soft cloth or sponge. (Avoid using detergents or any kind of chemical cleaner on the windscreen.) Dry with a soft, clean cloth.

#### NOTICE

To avoid possible scratching or other damage, use only water and a soft cloth or sponge to clean the windscreen

For a dirtier windscreen, use a diluted neutral detergent with a sponge and plenty of water. Make sure to wash off all the detergent. (Detergent residue may cause windscreen cracks.)

Replace the windscreen if scratches cannot be removed and they obstruct clear vision.

Take care to keep battery electrolyte, brake fluid, or other chemical solvents off the windscreen and screen garnish. They will damage the plastic.

# **Exhaust Pipe and Muffler**

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

## Storing Your Vehicle

# **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. 60
- 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. 67) to prevent discharge. Fully charge the battery and then place it in a shaded, well-ventilated area.

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

## **Transporting Your Vehicle**

# **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 can cause serious damage to the transmission.

#### You & the Environment

# 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.

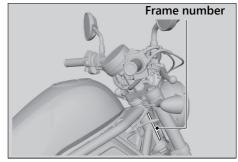
## **Recycle Wastes**

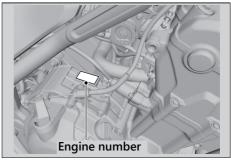
Put oil and other toxic wastes in approved containers and take them to a recycling centre. Call your local or state office of public works or environmental services to find a recycling centre in your area, and to get instructions on how to dispose of non-recyclable wastes. Do not place used engine oil 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**

# **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**

# **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

# **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 gasses into safe compounds.

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

Follow these guidelines to protect your 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.

# **Specifications**

**■** Main Components

Overall length	_	2,205 mm (86.8 in)
ما الما الما الما الما الما الما الما ا	ED, U type	820 mm (32.3 in)
Overall width	KO type	760 mm (29.9 in)
Overall height		1,090 mm (42.9 in)
Wheelbase		1,490 mm (58.7 in)
Minimum	ED, KO type	125 mm (4.9 in)
ground clearance	U type	135 mm (5.3 in)
Castananala	ED, U type	28° 0′
Caster angle	KO type	28°
Trail		110 mm (4.3 in)
Curb weight	CMX500A ED type and CMX500A2 U type	191 kg (421 lb)
,	CMX500A2 ED type	192 kg (423 lb)
	CMX500A U, KO type	190 kg (419 lb)
	CMX500A ED type	174 kg (384 lb)
Maximum	CMX500A2 ED type	172 kg (379 lb)
weight	CMX500A KO type	151 kg (333 lb)
capacity *1	CMX500A/A2 U type	171 kg (377 lb)
Maximum luggage weight		14 kg (31 lb)
Passenger capacity		Rider and 1 passenger
Minimum turning radius		2.8 m (9.2 ft)

Displacement	471 cm <sup>3</sup> (28.7 cu-in)	
Bore x stroke	67.0 x 66.8 mm (2.64 x 2.63 in)	
Compression ratio	10.7 : 1	
	Unleaded petrol	
Fuel	Recommended: 91 RON o higher	
Fuel containing alcohol	ETHANOL up to 10% by volume	
Tank capacity	11.2 L (2.96 US gal, 2.46 Imp gal)	
	YTZ8V	
Battery	12 V-7 Ah (10 HR) / 7.4 Ah	
	(20 HR)	
	1st 3.285	
	2nd 2.105	
Gear ratio	3rd 1.600	
Geal Tatio	4th 1.300	
	5th 1.150	
	6th 1.043	
Reduction ratio (primary / final)	2.029 / 2.667	

<sup>\*1:</sup> Including rider, passenger, all luggage, and accessories.

# Specifications

## **■** Service Data

Tyre size	Front	130/90-16M/C 67H
Tyre size	Rear	150/80-16M/C 71H
Tyre type		Bias-ply, tubeless
Recommended	Front	DUNLOP D404F QA
tyre	Rear	DUNLOP D404 QA
	Normal	Permitted
Tyre category of	Special	Not Permitted
use	Snow	Not Permitted
	Moped	Not Permitted
Tyre air pressure	Front	200 kPa (2.00 kgf/cm <sup>2</sup> , 29 psi)
	Rear	200 kPa (2.00 kgf/cm², 29 psi)
Minimum tread	Front	1.5 mm (0.06 in)
depth	Rear	2.0 mm (0.08 in)
Spark plug	(standard)	CPR8EA-9 (NGK)
Spark plug gap		0.80 - 0.90 mm (0.031 - 0.035 in)
Idle speed		1,200 ± 100 rpm
Recommended engine oil Honda 4-stroke motorcycle oil, API Servic Classification SG or higher, excluding oils marked as "Energy Conserving" or "Resource Conserving," SAE 10W-30, JASI T 903 standard MA		SG or higher, excluding oils ergy Conserving" or nserving," SAE 10W-30, JASO

	After draining	2.5 L (2.6 US qt, 2.2 Imp qt)
Engine oil capacity	After draining & filter change	2.7 L (2.9 US qt, 2.4 Imp qt)
	After disassembly	3.2 L (3.4 US qt, 2.8 Imp qt)
Recommended brake fluid	Honda DOT 4	Brake Fluid
Cooling system capacity	1.61 L (1.70 US qt, 1.42 Imp qt)	
Recommended coolant	Pro Honda HP	Coolant
Recommended drive chain	Drive chain lubricant designed specifically for O-ring chains	
lubricant	If not available	e, use SAE 80 or 90 gear oil.
Drive chain slack	25 - 35 mm (1	.0 - 1.4 in)
Standard drive	DID 520VF or	RK 520KLO2
chain	No. of links	112
Standard sprocket	Drive sprocket	15T
size	Driven sprocket	40T

# Specifications

#### **■** Bulbs

LED
LED
LED
LED
LED

## **■** Fuses

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

## **■** Torque Specifications

Engine oil drain bolt	30 N·m (3.1 kgf·m, 22 lbf·ft)
Oil filter	26 N·m (2.7 kgf·m, 19 lbf·ft)
Drive chain adjusting lock nut	21 N·m (2.1 kgf·m, 15 lbf·ft)
Rear wheel axle nut	88 N·m (9.0 kgf·m, 65 lbf·ft)
Front wheel axle bolt	51 N·m (5.2 kgf·m, 38 lbf·ft)
Front wheel axle pinch holt	22 N·m (2.2 kaf·m. 16 lbf·ft)

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