CMX500A/A2

OWNER'S MANUAL

HONDA

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

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Welcome

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

To ensure your safety and riding pleasure:

- Read this owner's manual carefully.
- Follow all recommendations and procedures contained in this manual.
- Pay close attention to safety messages contained in this manual and on the vehicle.
- The following codes in this manual indicate each destination.
- The illustrations here in are based on the CMX500A ED type.

Destination Codes

Code	Destination
CMX500A	
ED	European direct sales, Hong Kong, Singapore, U.K., Serbia, Israel, Gibraltar, Montenegro, North Macedonia, Ukraine, Mexico, Colombia, Ecuador, Paraguay, Bolivia, Peru, New Zealand
CMX500A2	
ED	European direct sales, Hong Kong, U.K., Serbia, Israel, Gibraltar, Montenegro, North Macedonia, Ukraine, Mexico, Colombia, Ecuador, Paraguay, Bolivia, Peru, New Zealand

*The specifications may vary with each locale.

A Few Words About Safety

Your safety, and the safety of others, is very important. Operating this vehicle safely is an important responsibility.

To help you make informed decisions about safety, we have provided operating procedures and other information on safety labels and in this manual. This information alerts you to potential hazards that could hurt you or others.

Of course, it is not practical or possible to warn you about all hazards associated with operating or maintaining a vehicle. You must use your own good judgement.

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

- Safety labels on the vehicle
- Safety Messages preceded by a safety alert symbol ⚠ and one of three signal words: DANGER, WARNING, or CAUTION. These signal words mean:

⚠DANGER

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

⚠WARNING

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

⚠CAUTION

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

Other important information is provided under the following titles:

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

Contents

Vehicle Safety P. 2

Operation Guide P. 20

Maintenance P. 47

Troubleshooting P. 86

Information P. 98

Specifications P. 111

Vehicle Safety

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

Safety Guidelines ..... P. 3
Image Labels ..... P. 7
Safety Precautions ..... P. 13
Riding Precautions ..... P. 14
Accessories & Modifications ..... P. 18
Loading ..... P. 19

Safety Guidelines

Follow these guidelines to enhance your safety:

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

Always Wear a Helmet

It's a proven fact: helmets and protective apparel significantly reduce the number and severity of head and other injuries. So always wear an approved helmet and protective apparel. ➔P. 13

Before Riding

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

Take Time to Learn & Practice

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

Ride Defensively

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

Make Yourself Easy to See

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

Ride within Your Limits

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

Don't Drink or Use Drugs and Ride

Alcohol or drugs and riding don't mix. Even one alcoholic drink can reduce your ability to respond to changing conditions, and your reaction time gets worse with every additional drink. The same is true for drug use. Don't drink or use and ride, and don't let your friends do it either.

Keep Your Honda in Safe Condition

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

If You are Involved in a Crash

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

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

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

Continued

Carbon Monoxide Hazard

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

If you run the engine in a confined or even partly enclosed area, the air you breathe could contain a dangerous amount of carbon monoxide.
Never run your vehicle inside a garage or other enclosure.

⚠WARNING

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

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

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

Image Labels

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

If a label comes off or becomes hard to read, contact your dealer for a replacement.

There is a specific symbol on each label. The meanings of each symbol and label are as follows.



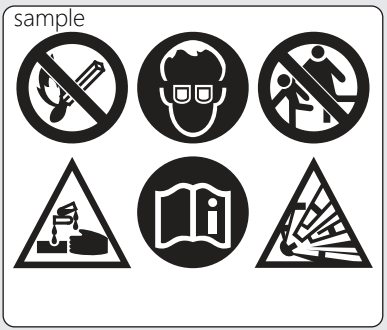
Read instructions contained in Owner's Manual carefully.



Read instructions contained in Shop Manual carefully. In the interest of safety, take the vehicle to be serviced only by your dealer.



DANGER (with RED background)
You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.
WARNING (with ORANGE background)
You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.
CAUTION (with YELLOW background)
You CAN be HURT if you don't follow instructions.



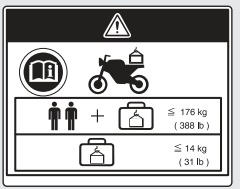
BATTERY LABEL
DANGER

- 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.



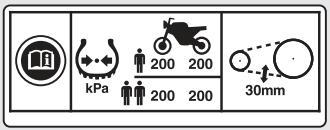
RADIATOR CAP LABEL
DANGER
NEVER OPEN WHEN HOT.
Hot coolant will scald you.
Relief pressure valve begins to open at **1.1 kgf/cm²**.

Continued



ACCESSORIES AND LOADING WARNING LABEL
WARNING
ACCESSORIES AND LOADING

- The safety stability and handling of this vehicle may be affected by the addition of accessories and luggage.
- Read carefully the instructions contained in user's manual and installation guide before installing any accessory.
- The total weight of accessories and luggage added to rider's and passenger's weight should not exceed **176 kg (388 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/cm², 29 psi)**
Rear	**200 kPa (2.00 kgf/cm², 29 psi)**

[Driver and passenger]

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

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

Protective Apparel

Make sure that you and any passenger are wearing an approved helmet, eye protection, and high-visibility protective clothing. Avoid wearing loose clothes that could get caught on any part of the vehicle. Ride defensively in response to weather and road conditions.

Helmet

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

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

⚠WARNING

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

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

Gloves

Full-finger leather gloves with high abrasion resistance

Boots or Riding Shoes

Sturdy boots with non-slip soles and ankle protection

Jacket and Trousers

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

Riding Precautions

Running-in Period

During the first 500 km (300 miles) of running, follow these guidelines to ensure your 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.

Continued

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. 38

Refuelling and Fuel Guidelines

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

- Use only unleaded petrol.
- Use the recommended octane number. Using lower octane petrol will result in decreased engine performance.
- Do not use fuels containing a high concentration of alcohol. ➔P. 109
- Do not use stale or contaminated petrol or an oil/petrol mixture.
- Avoid getting dirt or water in the fuel tank.

Accessories & Modifications

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

⚠WARNING

Improper accessories or modifications can cause a crash in which you can be seriously hurt or killed.

Follow all instructions in this owner's manual regarding accessories and modifications.

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

Loading

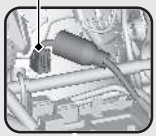
- Carrying extra weight affects your vehicle's handling, braking and stability.
  Always ride at a safe speed and never exceed 130 km/h (80 mph) for the load you are carrying.
- Avoid carrying an excessive load and keep within specified load limits.
  Maximum weight capacity / Maximum luggage weight P. 111
- Tie all luggage securely, evenly balanced, and close to the centre of the vehicle.
- Do not place objects near the lights or the muffler.

⚠WARNING

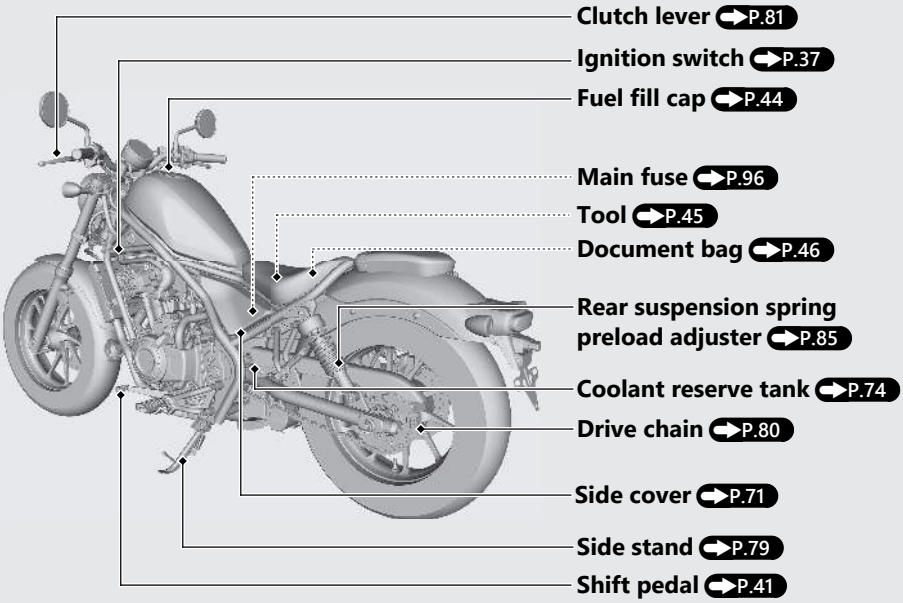
Overloading or improper loading can cause a crash and you can be seriously hurt or killed.

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

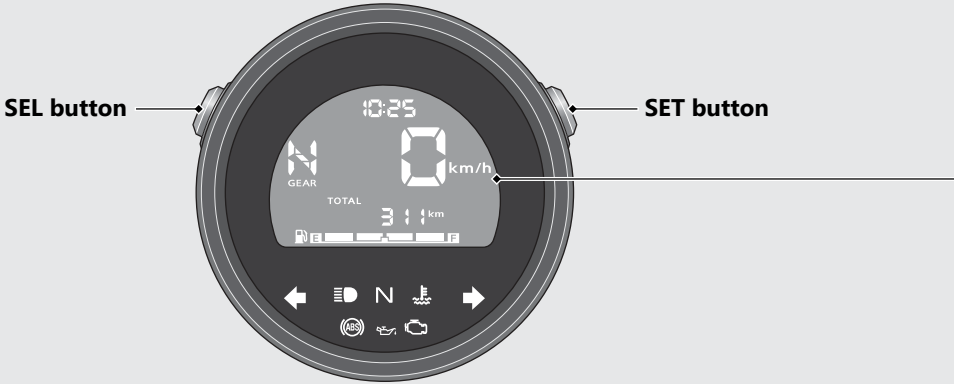
Parts Location



Data link connector
Fuse box P.95
Battery P.66
Seat P.70
Front brake fluid reservoir P.76
Front brake lever
Throttle grip P.84
Steering lock P.38
Side cover P.71
Engine oil fill cap P.72
Engine oil level inspection window P.72
Rear brake pedal
Rear brake fluid reservoir P.76
Rear suspension spring preload adjuster P.85

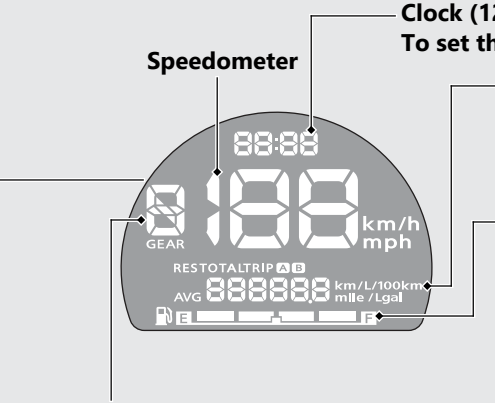

Clutch lever P.81
Ignition switch P.37
Fuel fill cap P.44
Main fuse P.96
Tool P.45
Document bag P.46
Rear suspension spring preload adjuster P.85
Coolant reserve tank P.74
Drive chain P.80
Side cover P.71
Side stand P.79
Shift pedal P.41

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.





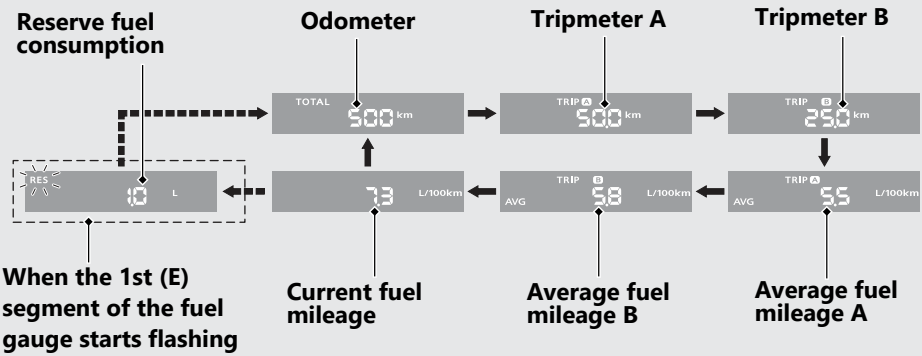
If the fuel gauge indicator flashes in a repeat pattern or turns off: P.92

NOTICE

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

Odometer [TOTAL] and Tripmeter [TRIP A/B] and Average fuel mileage [AVG A/B] and Current fuel mileage and 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 reserve fuel consumption information will replace the current display.

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.27

Average fuel mileage [AVG A/B]

The average fuel mileage A will be based on tripmeter A. This indicator displays the average fuel mileage A since tripmeter A was reset.

The average fuel mileage B will be based on tripmeter B. This indicator displays the average fuel mileage B since tripmeter B was reset.

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

- More than 299.9: "299.9" is displayed.
- When the tripmeter A or B is reset: "---.-" is displayed.

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

To reset the average fuel mileage: P.27

Current fuel mileage

Displays the current instant fuel mileage.
Display range: 0.0 to 299.9 L/100km (km/L, mile/gal or mile/L)

- When your speed is less than 6 km/h (4 mph): "---.-" is displayed.
- More than 299.9: "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.
Display range: 0.0 to 99.9 L (litres) or 0.0 to 99.9 gal (gallon)

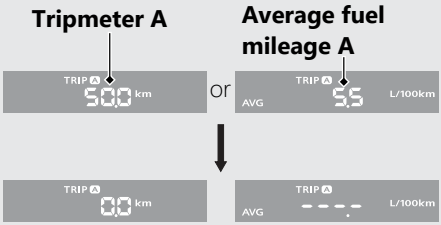
- More than 99.9: "99.9" is displayed.

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

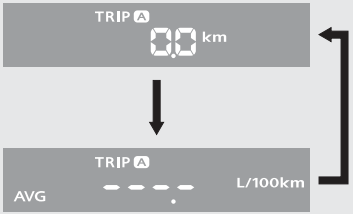
When "---.-" is displayed, go to your dealer for service.

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.

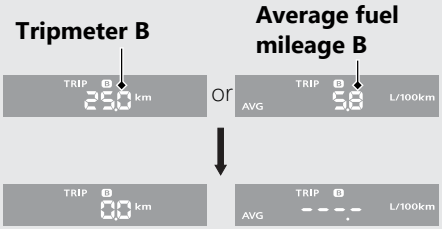


When they are reset, the display quickly cycles through each indication to show each item has been reset. Then, the display returns to the last selected indication.

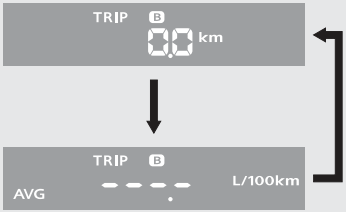


Instruments *(Continued)*

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.



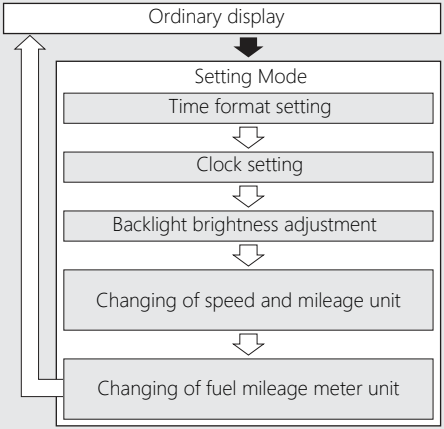
When they are reset, the display quickly cycles through each indication to show each item has been reset. Then, the display returns to the last selected indication.



Display Setting

The following items can be changed sequentially.

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



➡ Press and hold SEL and SET buttons

⇨ Press the SET button

Instruments *(Continued)*

To return to the ordinary display, turn the ignition switch to the ○ (Off) position or press the SET button until the end of the settings is reached.

If no buttons are pressed for 30 seconds, the display will automatically return to the ordinary display and the selected settings except clock setting will be saved and applied.

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 the SEL and the SET buttons until the current time format start flashing.



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



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

2 Clock setting:

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



2. Press the SET button. The minute digits start flashing.



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



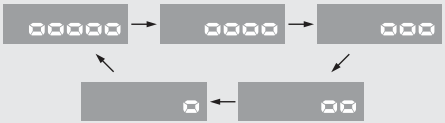
4. Press the SET button. The clock is set, and then the display moves to the backlight brightness adjustment.

Instruments *(Continued)*

3 Backlight brightness adjustment:

You can adjust the brightness to one of five levels.

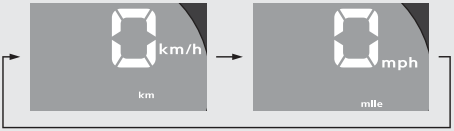
1. Press the SEL button. The brightness is switched.



2. Press the SET button. The backlight is set The display moves to the changing of speed and mileage unit.

4 Changing of speed and mileage unit:

1. Press the SEL button to select either “km/h” and “km” or “mph” and “mile”.

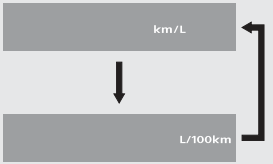


2. Press the SET button. The speed and mileage unit is set, and then the display moves to the changing of fuel mileage meter unit.

5 Changing of fuel mileage meter unit:

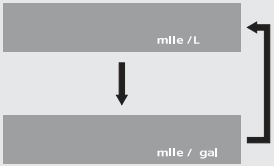
1 When the "km/h" for speed and "km" for mileage are selected

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



When the "mph" for speed and "mile" for mileage are selected

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

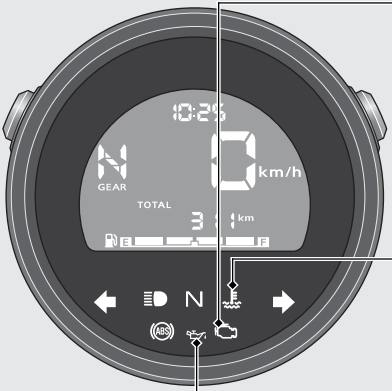


2 Press the SET button. The fuel mileage meter unit is set, and then the display moves to the ordinary display.

To finalize selected settings, turn the ignition switch to the O (Off) position or press the SET button until the end of the settings is reached.

Indicators

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



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

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

If it comes on or flashes while engine is running: P.90

High coolant temperature indicator

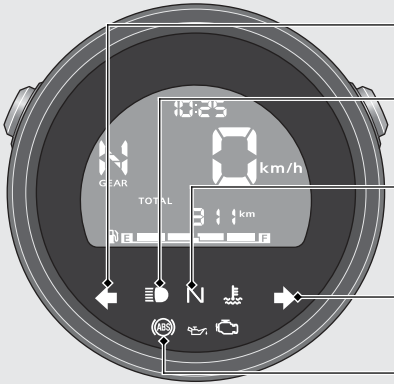
Comes on briefly when the ignition switch is turned to the | (On) position.

If it comes on while riding: P.88

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.89



Left turn signal indicator

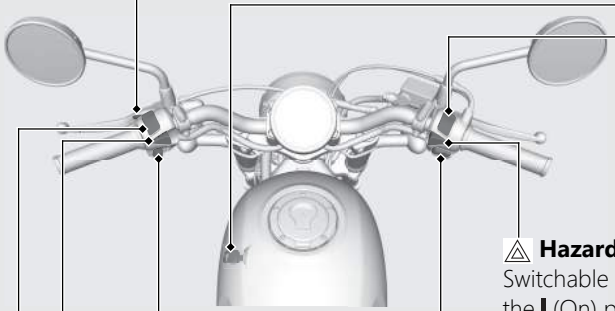
High beam indicator

Neutral indicator
Comes on when the transmission is in Neutral.

Right turn signal indicator

ABS (Anti-lock Brake System) indicator
Comes on when the ignition switch is turned to the | (On) position. Goes off when your speed reaches approximately 10 km/h (6 mph).
If it comes on while riding: P.91

Switches



PASS Passing light control switch
Flashes the high beam headlight.

Engine stop switch
Should normally remain in the (Run) position.
▶ In an emergency, switch to the (Stop) position (the starter motor will not operate) to stop the engine.

Hazard switch
Switchable when the ignition switch is in the (On) position.

Turn signal switch
▶ Pressing the switch turns the turn signal off.

Start button

Horn button

Headlight dimmer switch
- : High beam
- : Low beam

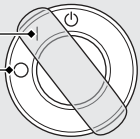
⏻ Ignition switch

Switches the electrical system on/off.

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

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

○ (Off)
Turns engine off.

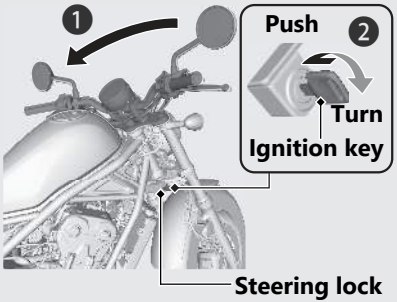


Switches *(Continued)*

Steering Lock

Lock the steering when parking to help prevent theft.

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



Locking

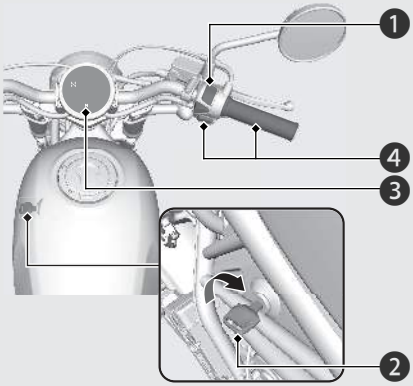
1. Turn the handlebar all the way to the left.
2. Insert the ignition key in the steering lock.
3. Push the ignition key down, and turn it 180 degrees clockwise.
   - ► Jiggle the handlebar if the lock is difficult to engage.
4. Remove the ignition key.

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.

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

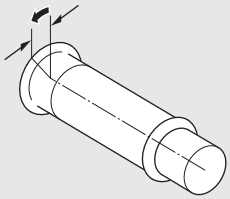
Continued

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.

About 3 mm (0.1 in), without freeplay



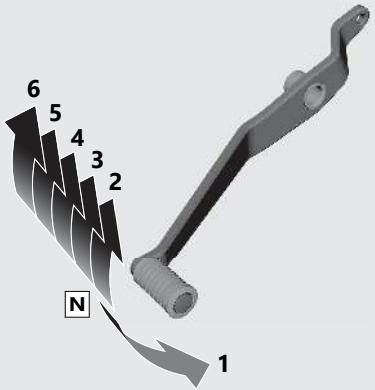
If the engine does not start:

① Open the throttle fully and press the start button for 5 seconds.
   ▶ The engine will not start at this time. (When the throttle is fully open, the engine will not start when the start button is pressed.) Release the throttle and start button after 5 seconds and proceed to step ②.
② Repeat the normal starting procedure.
③ If the engine starts, open the throttle slightly if idling is unstable.
④ If the engine does not start, wait 10 seconds before trying steps ① & ② again.

If Engine Will Not Start P.87

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.

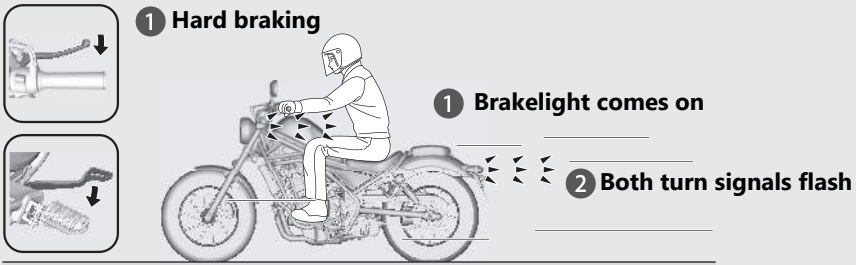
Emergency Stop Signal

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:

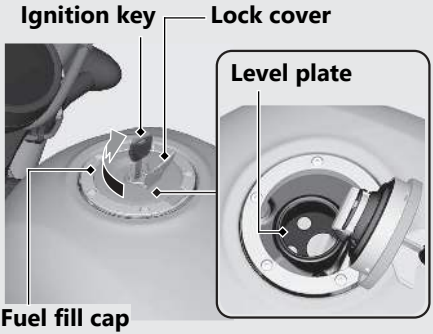
- You release the brakes.
- The ABS is deactivated.
- Your vehicle's decelerating speed becomes moderate.
- You press the hazard switch.

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 while the hazard switch is on.
- If the ABS stops working for a certain period during braking, the emergency stop signal may not activate at all.

Refuelling



Do not fill with fuel above the level plate.

Fuel type: Unleaded petrol only
Fuel octane number: Your vehicle is designed to use Research Octane Number (RON) 91 or higher.
Tank capacity: 11.2 L (2.96 US gal, 2.46 Imp gal)

Refuelling and Fuel Guidelines P.17

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

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

⚠WARNING

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

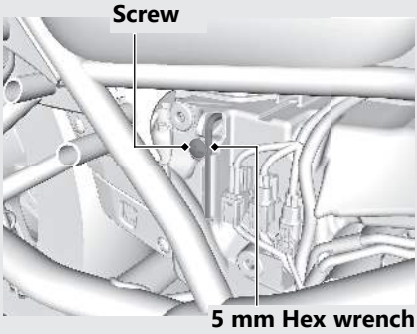
- Stop the engine, and keep heat, sparks, and flames away.
- Only handle fuel outdoors.
- Wipe up spills immediately.

Storage Equipment

Tool

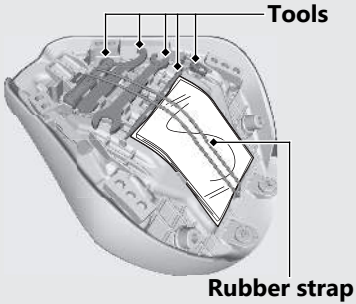
The 5 mm Hex wrench is stored behind the right side cover.

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



The tools are stored on the underside of the seat.

Store the tools and secure them with the rubber strap as shown.



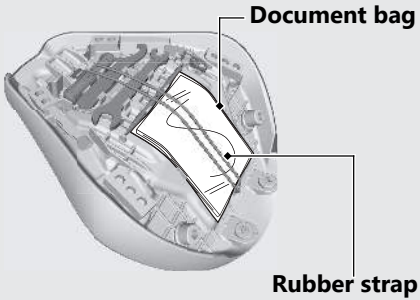
Removing the Seat P.70

Removing the Right Side Cover P.71

Storage Equipment *(Continued)*

Document Bag

The document bag is stored on the underside of the seat.
Store the document bag and secure it with the rubber strap as shown.



Removing the Seat P.70

Maintenance

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

Importance of Maintenance ..... P. 48
Maintenance Schedule ..... P. 49
Maintenance Fundamentals ..... P. 52
Tools ..... P. 65
Removing & Installing Body Components .. P. 66
- Battery ..... P. 66
- Clip ..... P. 69
- Seat ..... P. 70
- Side Cover ..... P. 71

Engine Oil ..... P. 72
Coolant ..... P. 74
Brakes ..... P. 76
Side Stand ..... P. 79
Drive Chain ..... P. 80
Clutch ..... P. 81
Throttle ..... P. 84
Other Adjustments ..... P. 85
- Adjusting the Rear Suspension ..... P. 85

Importance of Maintenance

Keeping your vehicle well-maintained is absolutely essential to your safety and to protect your investment, obtain maximum performance, avoid breakdowns, and reduce air pollution. Maintenance is the owner's responsibility. Be sure to inspect your vehicle before each ride and perform the periodic checks specified in the Maintenance Schedule.
➔P. 49

⚠WARNING

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

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

Maintenance Safety

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

Follow these guidelines when performing maintenance.

- Stop the engine and remove the key.
- Place your vehicle on a firm, level surface using the side stand or a maintenance stand to provide support.
- Allow the engine, muffler, brakes, and other high-temperature parts to cool before servicing as you can get burned.
- Run the engine only when instructed, and do so in a well-ventilated area.

Maintenance Schedule

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

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

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

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

Continued

Items		Pre-ride Check ➔ P. 52	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			
Fuel Line	🔧				I	I	I	I	I		–
Fuel Level		I									–
Throttle Operation	🔧	I			I	I	I	I	I		84
Air Cleaner*2	🔧					R		R			–
Crankcase Breather *3					C	C	C	C			–
Spark Plug	🔧					R		R			–
Valve Clearance	🔧					I		I			–
Engine Oil		I		R	R	R	R	R	R		–
Engine Oil Filter				R		R		R			–
Engine Idle Speed	🔧				I	I	I	I	I		–
Radiator Coolant *4		I			I	I	I	I	I	3 Years	74
Cooling System	🔧				I	I	I	I	I		–
Secondary Air Supply System	🔧					I		I			–
Evaporative Emission Control System	🔧					I		I			–

Maintenance Level

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

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

Maintenance Legend

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

Items		Pre-ride Check ➡ P. 52	Frequency*1 × 1,000 km	1	12	24	36	48	Annual Check	Regular Replace	Refer to page
			× 1,000 mi	0.6	8	16	24	32			
Drive Chain		I	Every 1,000 km (600 mi): I L								80
Drive Chain Slider					I	I	I	I			–
Brake Fluid *4		I			I	I	I	I	I	2 Years	76
Brake Pads Wear		I			I	I	I	I	I		77
Brake System					I	I	I	I	I		52
Brakelight Switch					I	I	I	I	I		78
Headlight Aim					I	I	I	I	I		–
Lights/Horn		I									–
Engine Stop Switch		I									–
Clutch System		I			I	I	I	I	I		81
Side Stand		I			I	I	I	I	I		79
Suspension					I	I	I	I	I		–
Nuts, Bolts, Fasteners					I	I	I	I	I		–
Wheels/Tyres		I			I	I	I	I	I		60
Steering Head Bearings					I	I	I	I	I		–

Notes:

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

Pre-ride Inspection

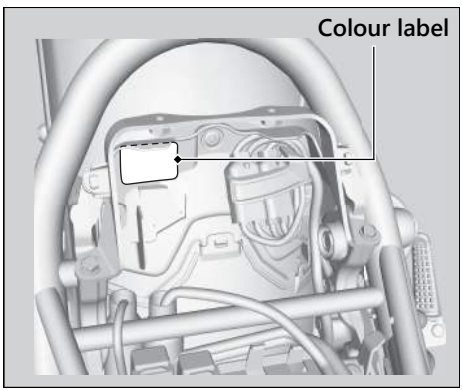
To ensure safety, it is your responsibility to perform a pre-ride inspection and make sure that any problem you find is corrected. A pre-ride inspection is a must, not only for safety, but because having a breakdown, or even a flat tyre, can be a major inconvenience.

Check the following items before you get on your vehicle:

- Fuel level - Fill fuel tank when necessary ➔P. 44
- Throttle - Check for smooth opening and full closing in all steering positions ➔P. 84
- Engine oil level - Add engine oil if necessary. Check for leaks ➔P. 72
- Coolant level - Add coolant if required. Check for leaks ➔P. 74
- Drive chain - Check condition and slack, adjust and lubricate if necessary ➔P. 80
- Brakes - Check operation; Front and Rear: check brake fluid level and pads wear ➔P. 76, ➔P. 77
- Lights and horn - Check that lights, indicators and horn function properly
- Engine stop switch - Check for proper function ➔P. 36
- Clutch - Check operation; Adjust freeplay if necessary ➔P. 81
- Side stand ignition cut-off system - Check for proper function ➔P. 79
- Wheels and tyres - Check condition, air pressure and adjust if necessary ➔P. 60

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. 70



⚠WARNING

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

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

Battery

Your vehicle has a maintenance-free type battery. You do not have to check the battery electrolyte level or add distilled water. Clean the battery terminals if they become dirty or corroded.
Do not remove the battery cap seals. There is no need to remove the cap when charging.

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



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

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

What to do in an emergency

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

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

⚠WARNING

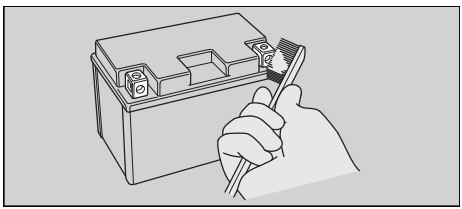
The battery gives off explosive hydrogen gas during normal operation.

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

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

Cleaning the Battery Terminals

1. Remove the battery. P. 66
2. If the terminals are starting to corrode and are coated with a white substance, wash with warm water and wipe clean.
3. If the terminals are heavily corroded, clean and polish the terminals with a wire brush or sandpaper. Wear safety glasses.



4. After cleaning, reinstall the battery.

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

NOTICE

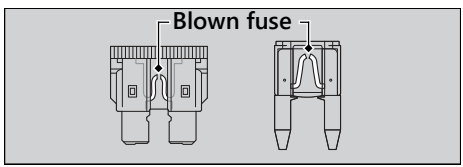
Installing non-Honda electrical accessories can overload the electrical system, discharging the battery and possibly damaging the system.

Fuses

Fuses protect the electrical circuits on your vehicle. If something electrical on your vehicle stops working, check for and replace any blown fuses. P. 95

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. 113



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.

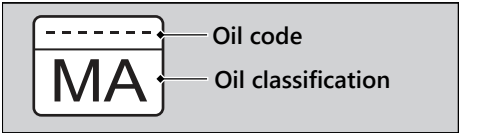
Selecting the Engine Oil

For recommended engine oil, see "Specifications." ➡ P. 112

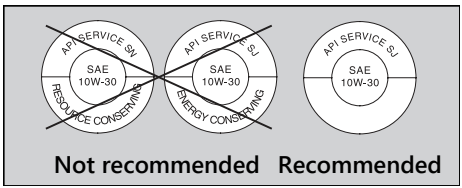
If you use non-Honda engine oil, check the label to make sure that the oil satisfies all of the following standards:

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

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



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



Brake Fluid

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

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

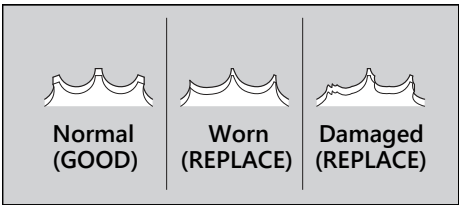
Recommended brake fluid:
Honda DOT 4 Brake Fluid or equivalent

Drive Chain

The drive chain must be inspected and lubricated regularly. Inspect the chain more frequently if you often ride on bad roads, ride at high speed, or ride with repeated fast acceleration. P. 80

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

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



NOTICE

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

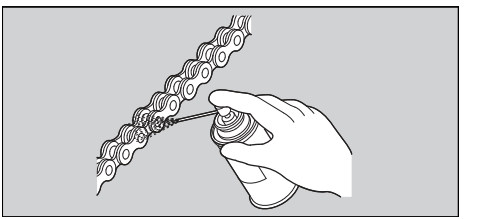
Cleaning and Lubricating

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

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

Recommended lubricant:

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



Do not use a steam cleaner, a high pressure cleaner, a wire brush, volatile solvent such as petrol and benzene, abrasive cleaner, chain cleaner or lubricant NOT designed specifically for O-ring chains as these can damage the rubber O-ring seals.

Avoid getting lubricant on the brakes or tyres. Avoid applying excess chain lubricant to prevent spray onto your clothes and the vehicle.

Recommended Coolant

Except Hong Kong and Singapore

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.

Hong Kong and Singapore

Use only genuine HONDA PRE-MIX COOLANT without diluting with water. Genuine HONDA PRE-MIX COOLANT is excellent at preventing corrosion and overheating.
The coolant should be inspected and replaced properly by following the maintenance schedule. P. 49

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

Crankcase Breather

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

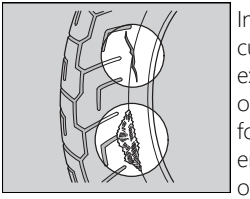
If the drain tube overflows, the air filter may become contaminated with engine oil, causing poor engine performance.

Tyres (Inspecting/Replacing)

Checking the Air Pressure

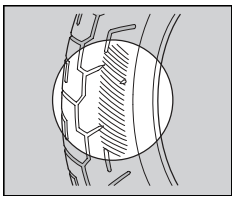
Visually inspect your tyres and use an air pressure gauge to measure the air pressure at least once a month or any time you think the tyres look low. Always check air pressure when your tyres are cold.

Inspecting for Damage



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

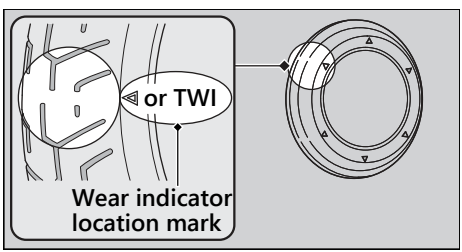
Inspecting for Abnormal Wear



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

Inspecting Tread Depth

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



⚠WARNING

Riding on tyres that are excessively worn or improperly inflated can cause a crash in which you can be seriously hurt or killed.

Follow all instructions in this owner's manual regarding tyre inflation and maintenance.

Germany

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

Have your tyres replaced by your dealer.
For recommended tyres, air pressure, and minimum tread depth, see “Specifications.”
P. 112
Follow these guidelines whenever you replace tyres:

- Use the recommended tyres or their equivalents of the same size, construction, speed rating, and load range.
- Have the wheel balanced with Honda Genuine balance weights or equivalent after the tyre is installed.
- Do not install a tube inside a tubeless tyre on this vehicle. Excessive heat build-up can cause the tube to burst.
- Use only tubeless tyres on this vehicle. The rims are designed for tubeless tyres, and during hard acceleration or braking, a tube-type tyre could slip on the rim and cause the tyre to rapidly deflate.

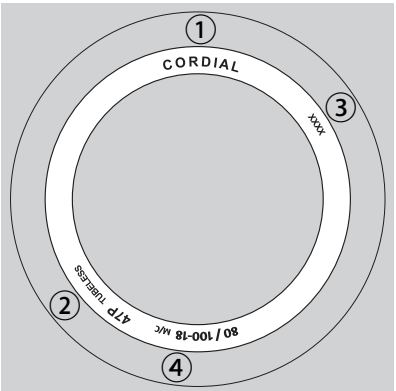
⚠WARNING

Installing improper tyres on your vehicle can adversely affect handling and stability, and can cause a crash in which you can be seriously hurt or killed.

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

Tyre Labelling Example

Colombia



The tyre sidewall contains the information, includes, but not limited to the below.

1. Manufacturer's name or brand name
2. Tyre structure
3. Date of manufacture (week & year)
4. Tyre size designation (see below how to read)

To confirm the specification of your vehicle, please see "Specifications." ➔P. 112

<Example>

80/100-18M/C 47P

- 80: Tyre width: 80 mm
- 100: Series / Profile: 100 %
- 18: Inner rim size: 18 inch
- M: Usage: Motorcycle
- 47: Load index: 175 kg *1
- P: Speed Symbol: 150 km/h *1

*1 : Under the conditions specified in the tyre regulations and specifications.
Please see European Tyre & RIM Technical Organization website for more information.
These values are not warranted in any vehicle installed condition.

Load Index	Load capacity (kg)	Load Index	Load capacity (kg)	Load Index	Load capacity (kg)	Load Index	Load capacity (kg)	Load Index	Load capacity (kg)	Load Index	Load capacity (kg)
30	106	40	140	50	190	60	250	70	335	80	450
31	109	41	145	51	195	61	257	71	345	81	462
32	112	42	150	52	200	62	265	72	355	82	475
33	115	43	155	53	206	63	272	73	365	83	487
34	118	44	160	54	212	64	280	74	375	84	500
35	121	45	165	55	218	65	290	75	387	85	515
36	125	46	170	56	224	66	300	76	400	86	530
37	128	47	175	57	230	67	307	77	412	87	545
38	132	48	180	58	236	68	315	78	425	88	560
39	136	49	185	59	243	69	325	79	437	89	580

Speed Symbol	Maximum Speed (km/h)	Speed Symbol	Maximum Speed (km/h)
J	100	H	210
L	120	V	240
P	150	(* *W)	Over 270
S	180	"* *" means Load Index	

Normative Reference; European Tyre & RIM Technical Organization Standards Manual

Tools

The tools are stored on the underside of the seat. ➔P. 45
The 5 mm Hex wrench is stored behind the right side cover. ➔P. 45

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

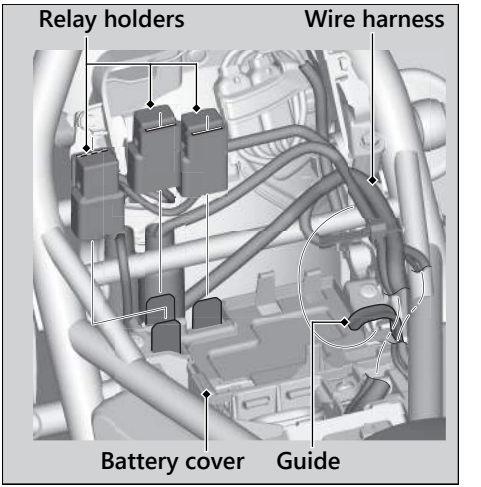
- Standard/Phillips screwdriver
- Screwdriver handle
- 10 x 14 mm Open end wrench
- Pin spanner
- 5 mm Hex wrench
- Fuse puller

Battery

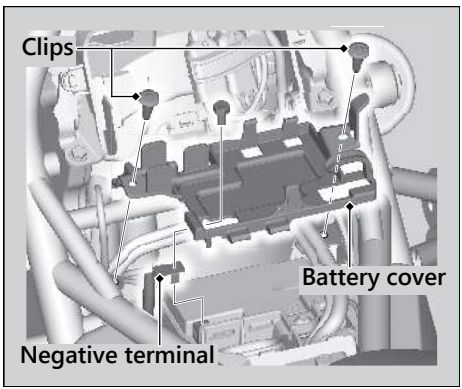
Removal

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

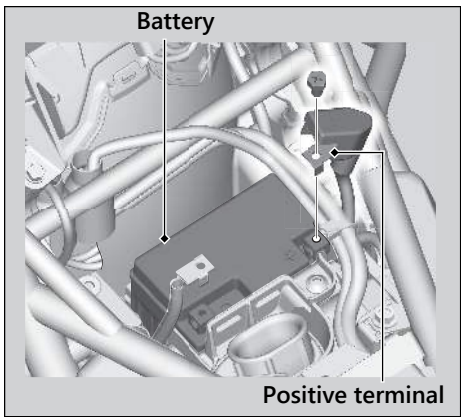
1. Remove the seat. P. 70
2. Remove the relay holders from the battery cover.
3. Release the wire harness from the guide on the battery cover.



4. Remove the clips. P. 69
5. Disconnect the negative ⊖ terminal from the battery.
6. Pull up the battery cover.



7. Disconnect the positive ⊕ terminal from the battery.
8. Remove the battery, taking care not to drop the terminal nuts.



Installation

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

Make sure the clock information is correct after the battery is reconnected. ➔P. 31

For proper handling of the battery, see "Maintenance Fundamentals." ➔P. 53

"Battery Goes Dead." ➔P. 94

Clip

Removal

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



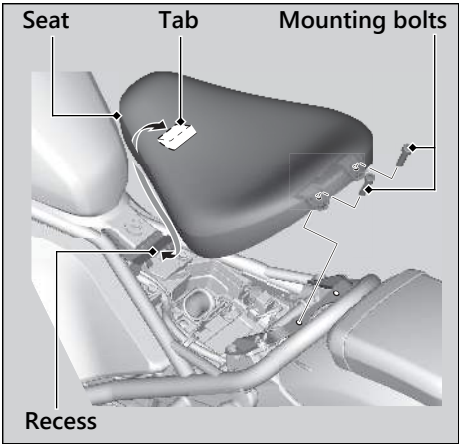
Installation

1. Push the bottom of the centre pin.



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

Seat



Removal

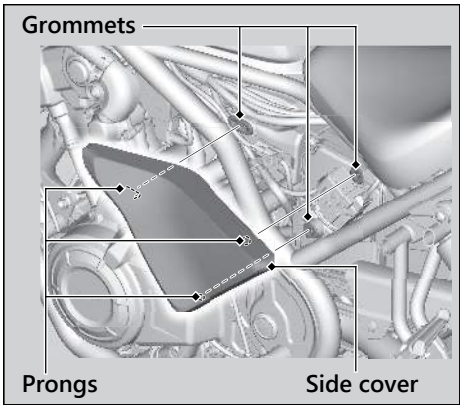
1. Pull the rear corners of the seat up, then remove the mounting bolts using the provided 5 mm Hex wrench. P. 45
2. Pull the seat back and up.

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.

Side Cover



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

Removal

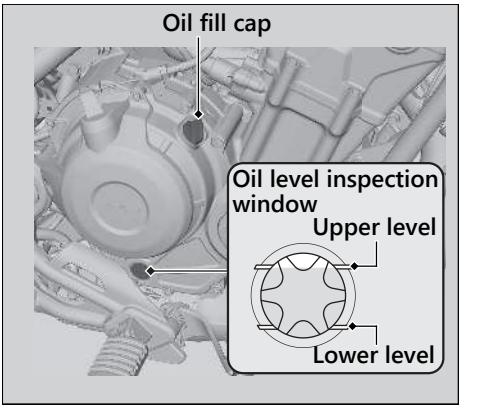
1. Grasp the side cover.
2. Remove the prongs from the grommets.
3. Remove the side cover.

Installation

Install the parts in the reverse order of removal.

Checking the Engine Oil

1. If the engine is cold, idle the engine for 3 to 5 minutes.
2. Turn the ignition switch to the ○ (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.



Adding Engine Oil

If the engine oil is below or near the lower level mark, add the recommended engine oil.
➡P. 56, ➡P. 112

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

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

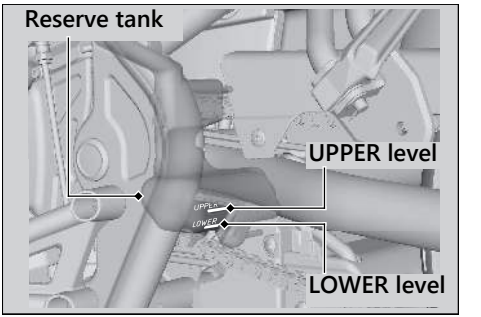
For the recommended oil and oil selection guidelines, see "Maintenance Fundamentals."
➡P. 56

Checking the Coolant

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

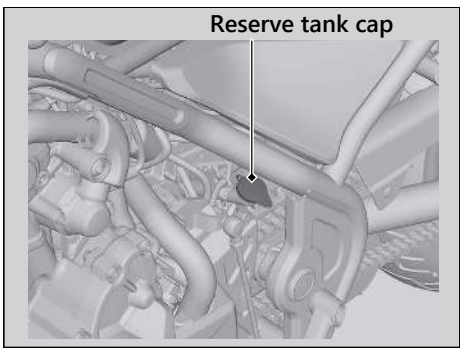
1. Place your vehicle on a firm, level surface.
2. Hold your vehicle in an upright position.
3. Check that the coolant level is between the UPPER level and LOWER level marks on the reserve tank.

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



Adding Coolant

If the coolant level is below the LOWER level mark, add the recommended coolant (P. 59) until the level reaches the UPPER level mark.
Add fluid only from the reserve tank cap and do not remove the radiator cap.



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

⚠WARNING

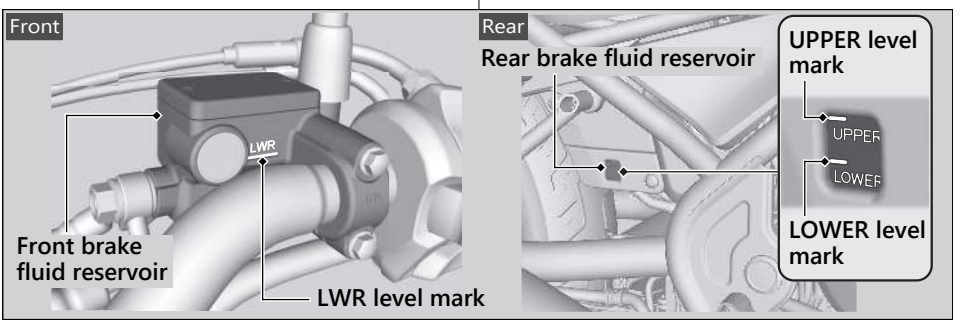
Removing the radiator cap while the engine is hot can cause the coolant to spray out, potentially scalding you.

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

Checking Brake Fluid

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

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

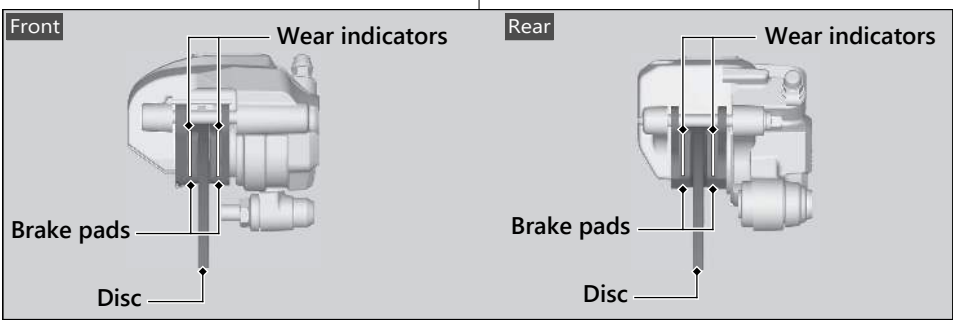


Inspecting the Brake Pads

Check the condition of the brake pad wear indicators.
The pads need to be replaced if a brake pad is worn to the indicator.

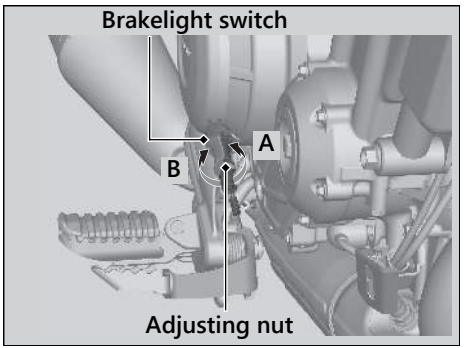
1. Front Inspect the brake pads from below the brake caliper.
2. Rear Inspect the brake pads from the rear right of the vehicle.

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

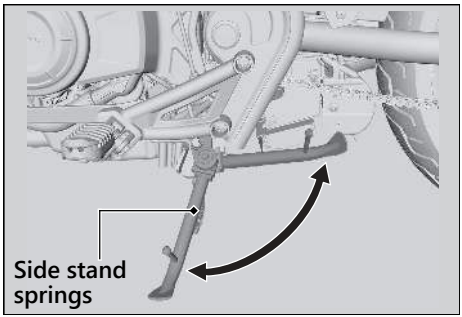


Adjusting the Brakelight Switch

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



Checking the Side Stand



1. Check that the side stand operates smoothly. If the side stand is stiff or squeaky, clean the pivot area and lubricate the pivot bolt with clean grease.
2. Check the springs for damage or loss of tension.
3. Sit on the vehicle, shift the transmission to Neutral, and raise the side stand.
4. Start the engine, pull the clutch lever in, and shift the transmission into gear.
5. Lower the side stand all the way. The engine should stop as you lower the side stand. If the engine doesn't stop, have your vehicle inspected by your dealer.

Inspecting the Drive Chain Slack

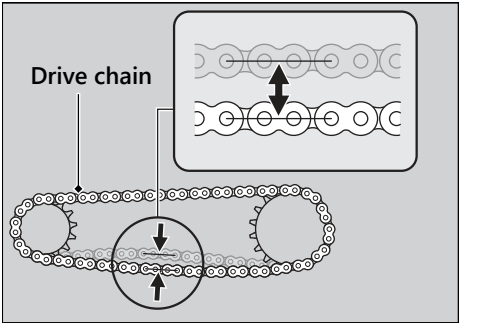
Check the drive chain slack at several points along the chain. If the slack is not constant at all points, some links may be kinked and binding.

Have the chain inspected by your dealer.

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

Drive chain slack:
25 - 35 mm (1.0 - 1.4 in)

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



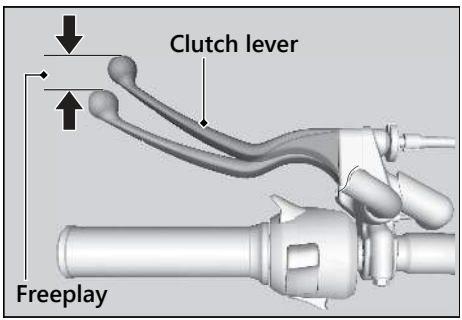
4. Roll the vehicle forward and check that the chain moves smoothly.
5. Inspect the sprockets. P. 57
6. Clean and lubricate the drive chain. P. 58

Checking the Clutch

Checking the Clutch Lever Freeplay

Check the clutch lever freeplay.

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



Check the clutch cable for kinks or signs of wear. If necessary, have it replaced by your dealer.
Lubricate the clutch cable with a commercially available cable lubricant to prevent premature wear and corrosion.

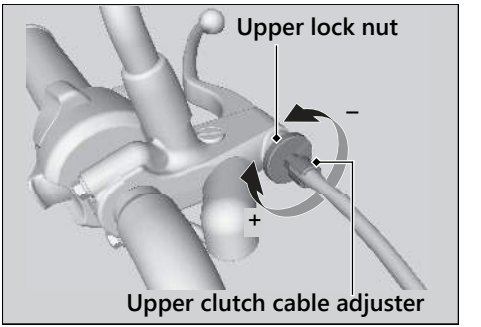
NOTICE
Improper freeplay adjustment can cause premature clutch wear.

Adjusting the Clutch Lever Freeplay

Upper Adjustment

Attempt adjustment with the upper clutch cable adjuster first.

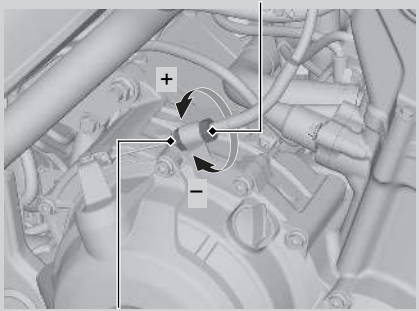
1. Loosen the upper lock nut.
2. Turn the upper clutch cable adjuster until the freeplay is 10 - 20 mm (0.4 - 0.8 in).
3. Tighten the upper lock nut and check the freeplay again.



Lower Adjustment

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

1. 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.

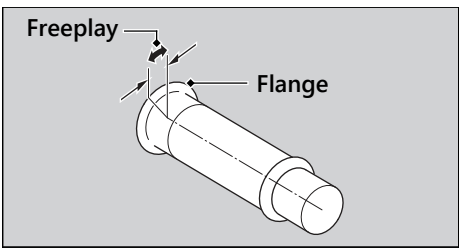


If proper adjustment cannot be obtained or the clutch does not work correctly, see your dealer.

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 or 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)

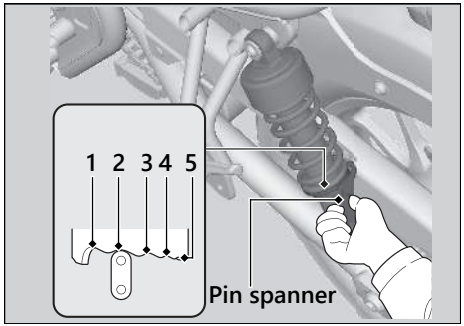


Adjusting the Rear Suspension

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. 45

Position 1 is for a decrease in spring preload (soft), or turn the position from 3 to 5 to 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.

Troubleshooting

Engine Will Not Start ..... P. 87
Overheating (High coolant temperature indicator is on) ..... P. 88
Warning Indicators On or Flashing ..... P. 89
Low Oil Pressure Indicator ..... P. 89
PGM-FI (Programmed Fuel Injection) Malfunction Indicator Lamp (MIL) ..... P. 90
ABS (Anti-lock Brake System) Indicator ..... P. 91
Other Warning Indications ..... P. 92
Fuel Gauge Failure Indication ..... P. 92
Tyre Puncture ..... P. 93
Electrical Trouble ..... P. 94
Battery Goes Dead ..... P. 94
Burned-out Light Bulb ..... P. 94
Blown Fuse ..... P. 95
Unstable Engine Operation Occurs Intermittently ..... P. 97

Starter Motor Operates But Engine Does Not Start

Check the following items:

- Check the correct engine starting sequence. P. 39
- 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. 39
- Make sure engine stop switch is in the ↻ (Run) position. P. 36
- Check for a blown fuse. P. 95
- Check for a loose battery connection (P. 66) or battery terminal corrosion (P. 53).
- Check the condition of the battery. P. 94

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.

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

If the fan is not operating:

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

If the fan is operating:

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

3. After the engine has cooled, inspect the radiator hose and check if there is a leak. ➡P. 74

   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. 74

   ▶ Add coolant as necessary.
5. If 1-4 check normal, you may continue riding, but closely monitor the high coolant temperature indicator.

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. 72, ➡P. 73
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)

Reasons for the indicator lamp to come on or blink

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

What to do when the indicator lamp comes on

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

NOTICE

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

What to do when the indicator lamp blinks

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

NOTICE

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

ABS (Anti-lock Brake System) Indicator

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

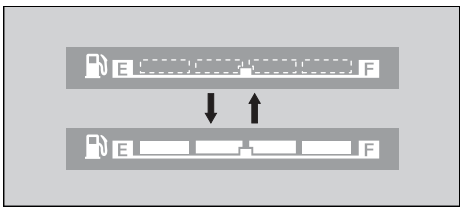
- Indicator comes on or starts flashing while riding.
- Indicator does not come on when the ignition switch is in the | (On) position.
- Indicator does not go off at speeds above 10 km/h (6 mph).

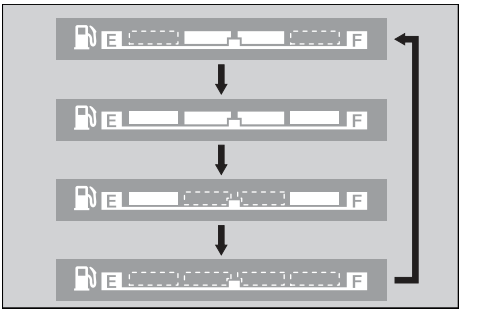
If the ABS indicator stays on, your brakes will continue to work as a conventional system, but without the anti-locking function.

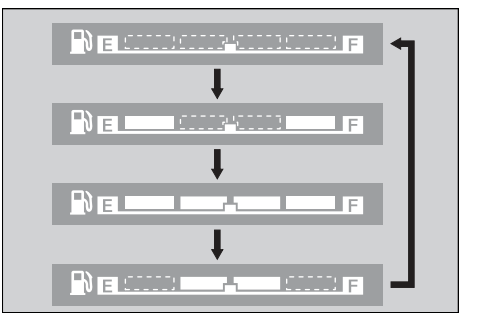
The ABS indicator may flash if you turn the rear wheel while the rear wheel is lifted off the ground. In this case, turn the ignition switch to the O (Off) position, and then to the | (On) position again. The ABS indicator will go off after your speed reaches 30 km/h (19 mph).

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.







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

Emergency Repair Using a Tyre Repair Kit

If your tyre has a minor puncture, you can make an emergency repair using a tubeless tyre repair kit.
Follow the instructions provided with the emergency tyre repair kit.
Riding your vehicle with a temporary tyre repair is very risky. Do not exceed 50 km/h (30 mph). Have the tyre replaced by your dealer as soon as possible.

⚠WARNING

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

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

Battery Goes Dead

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

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

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

Burned-out Light Bulb

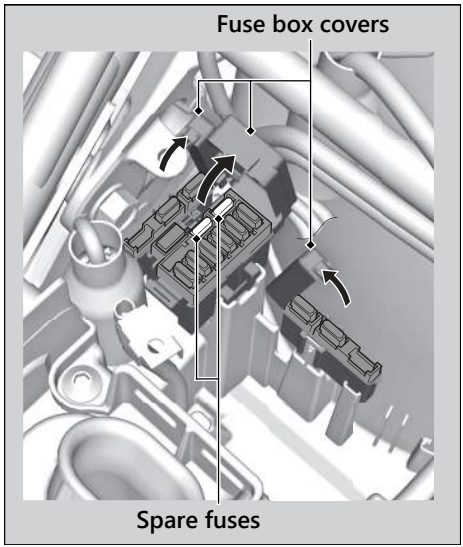
All light bulbs on the vehicle are LEDs. If there is an LED which is not turned on, see your dealer for servicing.

Blown Fuse

Before handling fuses, see "Inspecting and Replacing Fuses." P. 55

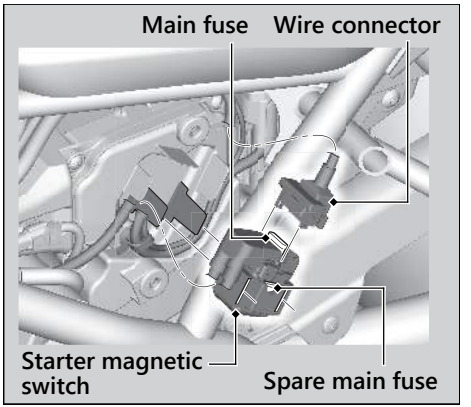
Fuse Box Fuses

1. Remove the battery. P. 66
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 underside of the seat.
   - ▶ Spare fuses are provided in the fuse boxes.
4. Close the fuse box covers.
5. Reinstall parts in the reverse order of removal.



Continued

Main Fuse



1. Remove the left side cover. P. 71
2. Remove the starter magnetic switch from the air cleaner housing cover, then disconnect the wire connector of the starter magnetic switch.
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.

Unstable Engine Operation Occurs Intermittently

If the fuel pump filter is clogged, unstable engine operation will occur intermittently while riding.
Even if this symptom occurs, you can continue to ride your vehicle.

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

Information

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Service Diagnostic Recorders

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

Keys

Ignition Key/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

Ignition Switch

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

Do not turn the key while riding.

Engine Stop Switch

Do not use the engine stop switch except in an emergency. Doing so when riding will cause the engine to suddenly turn off, making riding unsafe.
If you stop the engine using the engine stop switch, turn the ignition switch to the ○ (Off) position. Failing to do so will drain the battery.

Odometer

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

Tripmeter

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

Document Bag

Only owner's manual can be stored in the plastic document bag located underside of the seat.

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 O (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. Also, mud and dust may accelerate front suspension wear and cause oil leaks. Always wash your vehicle thoroughly after riding on coastal, treated, muddy or dusty roads.

Washing

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

1. Rinse your vehicle thoroughly using a low pressure garden hose to remove loose dirt.
2. If necessary, use a sponge or a soft towel with mild cleaner to remove road grime.
   ▶ Clean the windscreen, 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 surfaces:
  - ▶ Use a soft cloth or sponge, plenty of water, and a mild detergent to clean mat painted surfaces. Dry with a soft clean cloth.

Continued

Aluminium Components

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

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

Panels

Follow these guidelines to prevent scratches and blemishes:

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

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

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

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. 57
- 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. 66) to prevent discharge. Fully charge the battery and then place it in a shaded, well-ventilated area.
  ▶ If you leave the battery in place, disconnect the negative ⊖ terminal to prevent discharge.

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

Transporting Your Vehicle

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

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

You & the Environment

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

Choose Sensible Cleaners

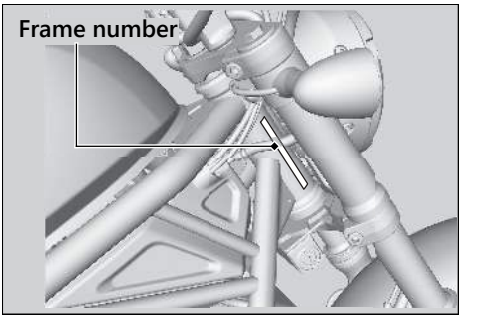
Use a biodegradable detergent when you wash your vehicle. Avoid aerosol spray cleaners that contain chlorofluorocarbons (CFCs) which damage the atmosphere's protective ozone layer.

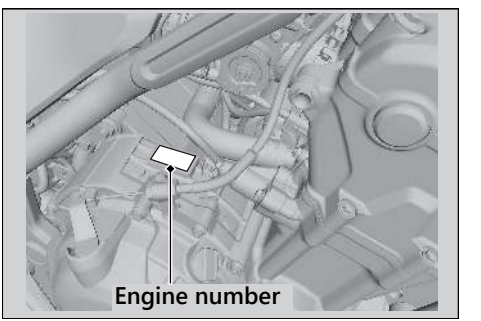
Recycle Wastes

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

Serial Numbers

The frame and engine serial numbers uniquely identify your vehicle and are required in order to register your vehicle. They may also be required when ordering replacement parts. You should record these numbers and keep them in a safe place.





Fuels Containing Alcohol

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

The following fuel blends can be used in your vehicle:

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

The use of petrol containing more than 10% ethanol may:

- Damage the painting of the fuel tank.
- Damage the rubber tubes of the fuel line.
- Cause corrosion of the fuel tank.
- Cause poor drivability.

NOTICE

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

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

Catalytic Converter

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

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

Follow these guidelines to protect your vehicle's catalytic converter:

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

■ Main Components

Overall length	2,205 mm (86.8 in)	
Overall width	810 mm (31.9 in)	
Overall height	1,090 mm (42.9 in)	
Wheelbase	1,490 mm (58.7 in)	
Minimum ground clearance	125 mm (4.9 in)	
Caster angle	28° 0′	
Trail	110 mm (4.3 in)	
Curb weight	**CMX500A**	191 kg (421 lb)
	CMX500A2	192 kg (423 lb)
Maximum weight capacity *1	176 kg (388 lb)	
Maximum luggage weight *2	14 kg (31 lb)	
Passenger capacity	Rider and 1 passenger	
Minimum turning radius	2.80 m (9.2 ft)	
Displacement	471 cm³ (28.7 cu-in)	
Bore x stroke	67.0 x 66.8 mm (2.64 x 2.63 in)	
Compression ratio	10.7 : 1	
Fuel	Unleaded petrol Recommended: 91 RON or higher	

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

Fuel containing alcohol	ETHANOL up to 10 % by volume	
Tank capacity	11.2 L (2.96 US gal, 2.46 Imp gal)	
Battery	FTZ8V or YTZ8V	
	12 V-7 Ah (10 HR)/12 V-7.4 Ah (20 HR)	
Gear ratio	1st	3.285
	2nd	2.105
	3rd	1.600
	4th	1.300
	5th	1.150
	6th	1.043
Reduction ratio (primary / final)	2.029 / 2.666	

Service Data

Tyre size	Front	130/90-16M/C 67H
	Rear	150/80-16M/C 71H
Tyre type	Bias-ply, tubeless	
Recommended tyre	Front	DUNLOP D404F QA IRC GS-23F
	Rear	DUNLOP D404 QA IRC GS-23R
Tyre category of use *1	Normal	Permitted
	Special	Not Permitted
	Snow	Not Permitted
	Moped	Not Permitted
Tyre air pressure	Front	200 kPa (2.00 kgf/cm^2, 29 psi)
	Rear	200 kPa (2.00 kgf/cm^2, 29 psi)
Minimum tread depth	Front	1.5 mm (0.06 in)
	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 Service Classification SJ or higher, excluding oils marked as "Energy Conserving" or "Resource Conserving," SAE 10W-30, JASO T 903 standard MA	

*1 : EU regulation

Engine oil capacity	After draining	2.5 L (2.6 US qt, 2.2 Imp qt)
	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	1.62 L (1.71 US qt, 1.43 Imp qt)	
Recommended coolant	**Except Hong Kong and Singapore** Pro Honda HP Coolant	
	Hong Kong and Singapore HONDA PRE-MIX COOLANT	
Recommended drive chain lubricant	Drive chain lubricant designed specifically for O-ring chains. If not available, use SAE 80 or 90 gear oil.	
Drive chain slack	25 - 35 mm (1.0 - 1.4 in)	
Standard drive chain	DID 520VF2 or RK 520KLO2	
	No. of links	112
Standard sprocket size	Drive sprocket	15T
	Driven sprocket	40T

Bulbs

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

Fuses

Main fuse	30 A
Other fuse	30 A, 10 A

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https://www.hondamotopub.com/

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