

**HONDA**  
The Power of Dreams



32K26B21  
00X32-K26-B210

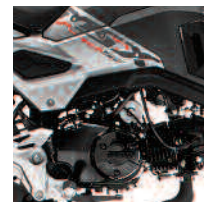
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PRINTED IN XXXXX



MSX125A

## OWNER'S MANUAL

 **HONDA**  
**MSX125A**



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

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

## Welcome

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

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

### Country Codes

Code	Country
<b>MSX125</b>	
ED	European direct sales France, UK
KO	Korea

\*The specifications may vary with each locale.

## A Few Words About Safety

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

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

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

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# Motorcycle Safety

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

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## Safety Guidelines

### Safety Guidelines

Follow these guidelines to enhance your safety:

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

#### Always Wear a Helmet

It's a proven fact: helmets and protective apparel significantly reduce the number and severity of head and other injuries. So always wear an approved motorcycle helmet and protective apparel. ■ P. 10

#### Before Riding

Make sure that you are physically fit, mentally focused and free of alcohol and drugs. Check

that you and your passenger are both wearing an approved motorcycle 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 motorcycle is stopped.

#### Take Time to Learn & Practice

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

## Safety Guidelines

### Motorcycle Safety

#### Make Yourself Easy to See

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

#### Ride within Your Limits

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

#### Don't Drink and Ride

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

#### Keep Your Honda in Safe Condition

It's important to keep your motorcycle properly maintained and in safe riding condition. Inspect your motorcycle before every ride and perform all recommended maintenance. Never exceed load limits (➤ P. 15), and do not modify your motorcycle or install accessories that would make your motorcycle unsafe (➤ P. 14).

#### 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 off, and evaluate the condition of your motorcycle. Inspect for fluid leaks,



## Safety Guidelines

check the tightness of critical nuts and bolts, and check the handlebar, control levers, brakes, and wheels. Ride slowly and cautiously. Your motorcycle may have suffered damage that is not immediately apparent. Have your motorcycle thoroughly checked at a qualified service facility as soon as possible.

**Carbon Monoxide Hazard**

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

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

**⚠ WARNING**

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

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

Motorcycle Safety

## Image Labels

# Image Labels

### ED type only

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 motorcycle 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)**

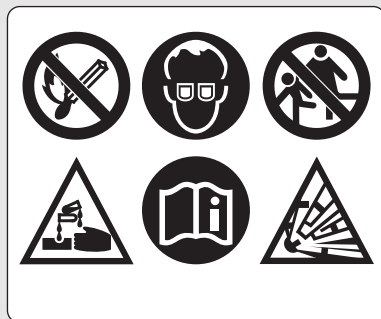
You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.

### **CAUTION (with YELLOW background)**

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

## Image Labels

Motorcycle Safety



### BATTERY LABEL

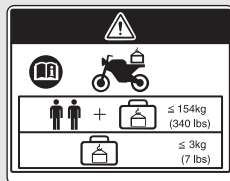
#### DANGER

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

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## Image Labels

Motorcycle Safety



### ACCESSORIES AND LOADING WARNING LABEL WARNING

#### ACCESSORIES AND LOADING

- The safety stability and handling of this motorcycle 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 **154 kg (340 lb)**, which is the maximum weight capacity.
- The luggage weight must not exceed **3 kg (7 lb)** under any circumstances.
- The fitting of large fork-mounted or large handlebar mounted fairing is not recommended.

## Image Labels

Motorcycle Safety

### TYRE INFORMATION LABEL

Cold tyre pressure:

[Driver only]

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

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

[Driver and passenger]

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

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

Tyre size:

Front **120/70-12 51L**

Rear **130/70-12 56L**

Tyre brand: VEE RUBBER

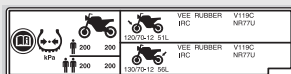
IRC

Front **V119C**

**NR77U**

Rear **V119C**

**NR77U**



### SAFETY REMINDER LABEL

For your protection, always wear helmet, protective apparel.

### FUEL LABEL

Unleaded petrol only



### DRIVE CHAIN LABEL

Keep chain adjusted and lubricated.

**30 to 40 mm (1.2 to 1.6 in) Freeplay**



## Image Labels

Motorcycle Safety



or



### **SAFETY REMINDER LABEL**

For your protection, always wear helmet, protective apparel.

### **FUEL LABEL**

Unleaded petrol only

ETHANOL up to 10 % by volume



### **DRIVE CHAIN LABEL**

Keep chain adjusted and lubricated.

**30 - 40 mm (1.2 - 1.6 in)** Freeplay

2018 Model

## Safety Precautions

### Safety Precautions

Motorcycle Safety

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

### Protective Apparel

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

#### ■ Helmet

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

- Must fit comfortably but securely, with the chin strap fastened

- Face shield with unobstructed field of vision or other approved eye protection

### ⚠ WARNING

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

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

#### ■ Gloves

Full-finger leather gloves with high abrasion resistance

#### ■ Boots or Riding Shoes

Sturdy boots with non-slip soles and ankle protection

#### ■ Jacket and Trousers

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

## Riding Precautions

### Riding Precautions

#### Running-in Period

During the first 500 km (300 miles) of running, follow these guidelines to ensure your motorcycle'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 down-shifts.
  - ▶ Sudden braking can reduce the motorcycle'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.

Motorcycle Safety

continued 11



## Riding Precautions

### Motorcycle Safety

### Engine Braking

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

### Wet or Rainy Conditions

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

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


## Parking

- Park on a firm, level paved surface.
- If you must park on a slight incline or loose surface, park so that the motorcycle 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 motorcycle 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.

## Riding Precautions

3. Slowly lean the motorcycle 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 motorcycle to fall.
5. Turn the ignition switch to the  (LOCK) position and remove the key. ➡ P. 26

## Refuelling and Fuel Guidelines

Follow these guidelines to protect the engine and catalytic converter:

- Use only unleaded petrol.
- Use recommended octane number. Using lower octane petrol will result in decreased engine performance.
- Do not use fuels containing a high concentration of alcohol. ➡ P. 96
- Do not use stale or contaminated petrol or an oil/petrol mixture.
- Avoid getting dirt or water in the fuel tank.

Motorcycle Safety

## Accessories & Modifications

### Motorcycle Safety

## Accessories & Modifications

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

## Loading

### Loading

- Carrying extra weight affects your motorcycle's handling, braking and stability. Always ride at a safe speed for the load you are carrying.
- Avoid carrying an excessive load and keep within specified load limits.  
**Maximum weight capacity / Maximum luggage weight** P. 98
- Tie all luggage securely, evenly balanced and close to the centre of the motorcycle.
- 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.

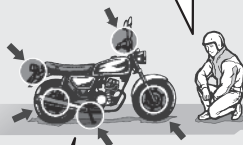
Follow all load limits and other loading guidelines in this manual.

Motorcycle Safety

# Basic Operation Flow

## Pre-ride Inspection ➡ P.38

Carefully inspect your motorcycle to make sure that it is safe to ride.



## Acceleration

Apply throttle gradually.  
Obey the speed limit.



## Shift change ➡ P.30



## Starting the Engine ➡ P.29

Start and warm the engine.  
Avoid revving the engine.



## Starting the Motorcycle

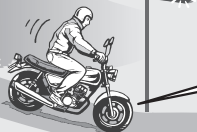
Before pulling away, indicate your direction with the turn signal switch, and check for oncoming traffic.

How to use basic features.

- Instruments ➡ P.20
- Indicators ➡ P.25
- Switches ➡ P.26
- Steering Lock ➡ P.27
- Retractable Ignition Key ➡ P.28

### Braking

**STOP!**



Close the throttle and apply the front and rear brakes together.  
▶ The brakelight will indicate that you have applied the brakes.

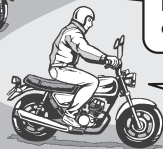
### Stopping

If pulling off the road, signal early enough to show traffic that you are pulling over, and pull over smoothly.



### Turning Corners

Do your braking before entering corners.



Gradually reapply throttle when exiting turn.

### Parking ➡ P.12

Park on a firm level surface. Use the stand, and lock the steering.

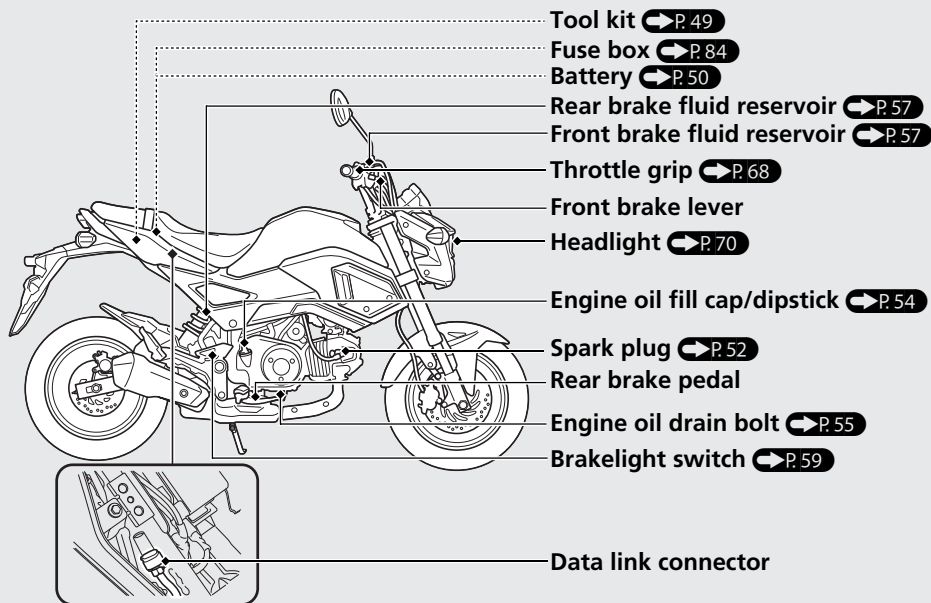


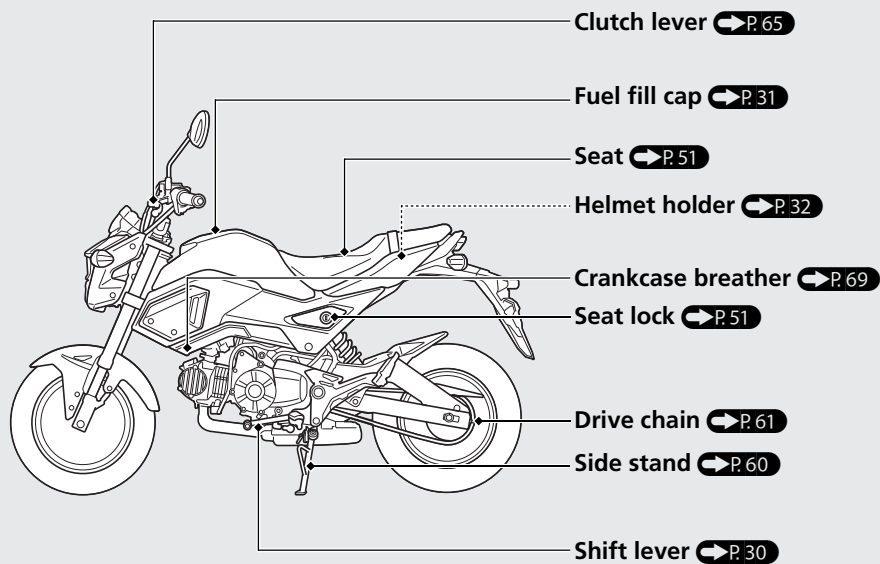
### Refuelling ➡ P.31



## Parts Location

Operation Guide







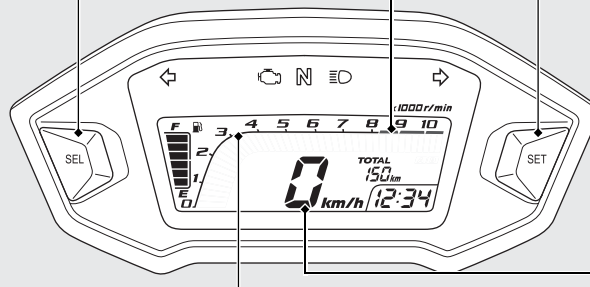
# Instruments

Operation Guide

**SEL** button

**Tachometer red zone**  
(excessive engine rpm range)

**SET** button



**Tachometer**

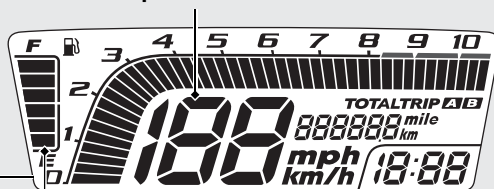
## NOTICE

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

## Display Check

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

### Speedometer



### Fuel gauge

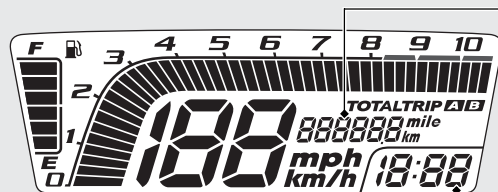
Remaining fuel when only 1st (E) segment starts flashing:  
approximately 1.42 litres (0.375 US gal, 0.312 Imp gal)

**If the fuel gauge indicators repeat flashing  
or turned off:** ➡ P.74



## Instruments (Continued)

Operation Guide

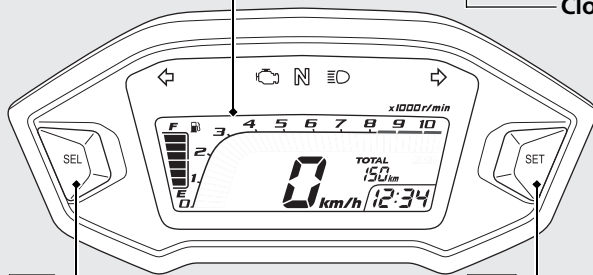


### Odometer [TOTAL] & Tripmeter [TRIP A/B]

**SEL** button switches between odometer & tripmeters.

- Odometer: Total distance ridden.
- Tripmeter: Distance ridden since tripmeter was reset (press and hold the **SET** button to reset to 0.0 km/mile).

### Clock (12-hour display)



**SEL** button

**SET** button

## Display Setting

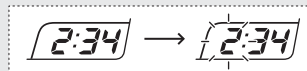
You can adjust the following settings.

- Clock setting
- **ED type only** Changing of speed and mileage unit

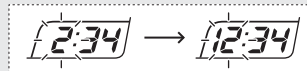
If the **SET** button was not pressed during the adjustment, and no buttons were pressed for about 30 seconds, the display will stop flashing automatically and the adjustment will be cancelled.

### 1 To set the clock:

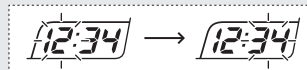
- 1 Turn the ignition switch on.
- 2 Press and hold the **SEL** and **SET** buttons until the hour digits start flashing.



- 3 Press the **SEL** button until the desired hour is displayed.
  - Press and hold to advance the hour fast.

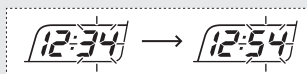


- 4 Press the **SET** button. The minute digits start flashing.



- 5 Press the **SEL** button until the desired minute is displayed.

► Press and hold to advance the minute fast.



- 6 **KO type**

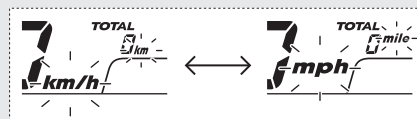
Press the **SET** button. The clock is set, and then the display returns to the ordinary display.

**ED type only**

Press the **SET** button. The clock is set, and then the display moves to the changing of the speed and mileage unit. The speed and mileage unit will start flashing.

**2 ED type only Changing the 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 returns to the ordinary display.




The adjustment can also be set by turning the ignition switch off.


The adjustment can also be set by turning the ignition switch off.

# Indicators

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

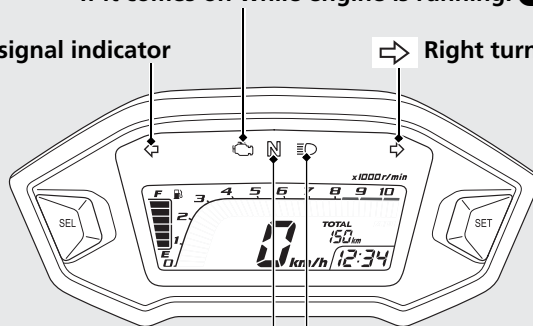
## **PGM-FI (Programmed Fuel Injection) malfunction indicator lamp (MIL)**

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

**If it comes on while engine is running:**  **P.73**


 **Left turn signal indicator**

 **Right turn signal indicator**



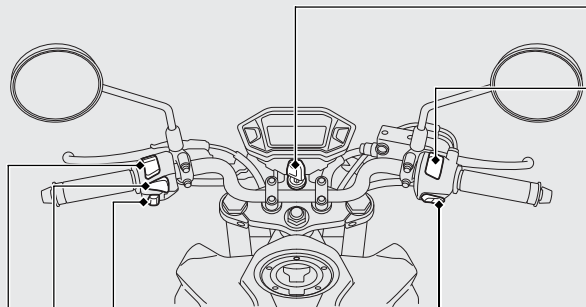
 **Neutral indicator**

Comes on when the transmission is in Neutral.

 **High beam indicator**

# Switches

Operation Guide



## Turn signal switch

- ▶ Pressing the switch turns the turn signal off.





## Horn button

## Headlight dimmer switch

- ≡D: High beam
- ≡D: Low beam

## Engine stop switch

Should normally remain in the  (Run) position.


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



## Start button

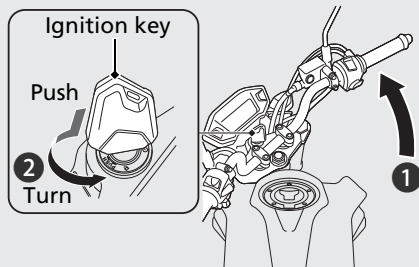
## Ignition switch

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

- Key can be removed when in the ○ (OFF) or  (LOCK) position.

## Steering Lock

Lock the steering when parking to help prevent theft.  
A U-shaped wheel lock or similar device is also recommended.

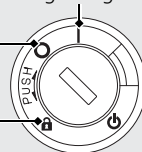


## I (ON)

Turns electrical system on for starting/riding.


○ (OFF)  
Turns engine off.

 (LOCK)  
Locks steering.



Operation Guide

## Locking

- 1 Turn the handlebar all the way to the left.
- 2 Push the key down, and turn the ignition switch to the  (LOCK) position.  
► Jiggle the handlebar if the lock is difficult to engage.
- 3 Remove the key.

## Unlocking

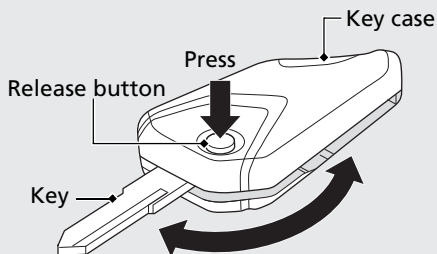
Insert the key, and turn the ignition switch to the ○ (OFF) position.



# Retractable Ignition Key

Avoid contact with the key whenever it extends or retracts.

Operation Guide



## To release the key

Press the release button to release the key out from the key case.

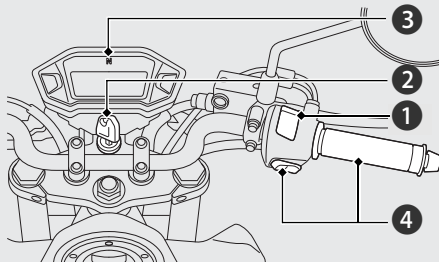
► Make sure to fully extend the key.

## To retract the key

Push the key inside the key case until you hear a click while pressing the release button.

# Starting the Engine

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






Consult your dealer for advice if you plan to ride your motorcycle at an altitude above 2,500 m (8,000 feet).

## NOTICE

- If the motorcycle is transported to a place 2,000 m (6,500 feet) higher or lower than the start point, you may not be able to achieve sufficient engine performance at the new altitude. Consult your dealer before transporting your motorcycle.

## NOTICE

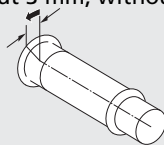
- If the engine does not start within 5 seconds, turn the ignition off and wait 10 seconds before trying to start the engine again to recover battery voltage.
- Extended fast idling and revving the engine can damage the engine, and the exhaust system.
- The engine will not start if the throttle is fully open.

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

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

▶ If you cannot start the engine, open the throttle slightly (about 3 mm, without freeplay) and press the start button.

About 3 mm, without freeplay



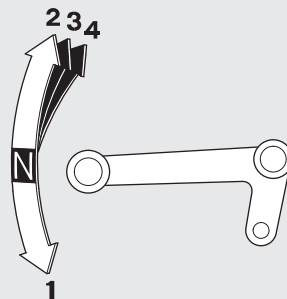
### If the engine does not start:

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

**If Engine Will Not Start** ➡ P.72

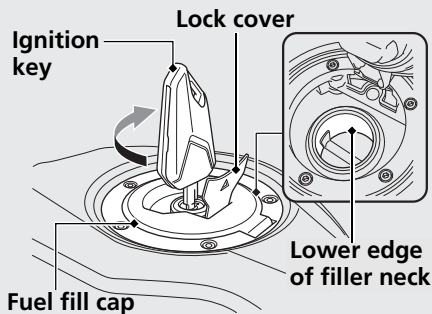
## Shifting Gears

Your motorcycle transmission has 4 forward gears in a one-down, three-up shift pattern.



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

# Refuelling



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

**Fuel type:** Unleaded petrol only

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

**Tank capacity:** 5.7 litres (1.51 US gal, 1.25 Imp gal)

**Refuelling and Fuel Guidelines** ➡ P.13

## 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

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

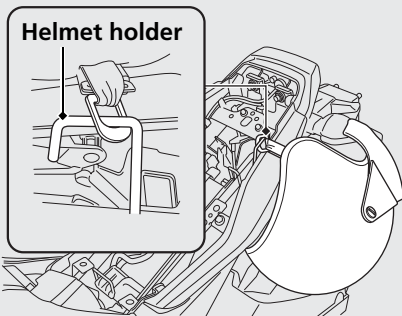
## ⚠ WARNING

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

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

## Storage Equipment

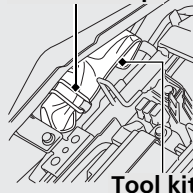
The Helmet holder and tool kit are located under the seat by the rubber strap. Document bag is located underside of the seat by the rubber strap.



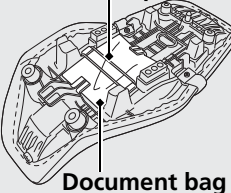
► Use the helmet holder only when parked.

**Removing the Seat** ➡ P.51

Rubber strap



Rubber strap



### **⚠ WARNING**

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

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

# Maintenance

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

<b>Importance of Maintenance</b> .....	P. 34	<b>Clutch</b> .....	P. 65
<b>Maintenance Schedule</b> .....	P. 35	<b>Throttle</b> .....	P. 68
<b>Maintenance Fundamentals</b> .....	P. 38	<b>Crankcase Breather</b> .....	P. 69
<b>Tool Kit</b> .....	P. 49	<b>Other Adjustments</b> .....	P. 70
<b>Removing &amp; Installing Body Components</b> ...	P. 50	Headlight Aim .....	P. 70
Battery .....	P. 50		
Seat .....	P. 51		
<b>Spark Plug</b> .....	P. 52		
<b>Engine Oil</b> .....	P. 54		
<b>Brakes</b> .....	P. 57		
<b>Side Stand</b> .....	P. 60		
<b>Drive Chain</b> .....	P. 61		

## Importance of Maintenance

### Importance of Maintenance

Keeping your motorcycle 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 motorcycle before each ride, and perform the periodic checks specified in the Maintenance Schedule. ■ P. 35

Maintenance

### **⚠ WARNING**

Improperly maintaining your motorcycle 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 motorcycle 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 motorcycle is properly maintained. Make sure that whomever performs the maintenance completes this record.

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

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

Maintenance

*continued* 35



## Maintenance Schedule

Items	Pre-ride Check P. 38	Frequency*1								Annual Check	Regular Replace	Refer to page
		× 1,000 km	1	4	8	12	16	20	24			
		× 1,000 mi	0.6	2.5	5	7.5	10	12.5	15			
Fuel Line	🔧			I	I	I	I	I	I	I		-
Fuel Level		I										-
Throttle Operation	🔧	I		I	I	I	I	I	I	I		68
Air Cleaner *2	🔧						R					48
Crankcase Breather *3				C	C	C	C	C	C	C		69
Spark Plug				I	R	I	R	I	R			52
Valve Clearance	🔧		I	I	I	I	I	I	I			-
Engine Oil		I	R	R	R	R	R	R	R	R		55
Engine Oil Strainer Screen	🔧					C			C			-
Engine Oil Centrifugal Filter	🔧					C			C			-
Engine Idle Speed	🔧		I	I	I	I	I	I	I	I		-

### Maintenance Level

- 🔧 : Intermediate. We recommend service by your dealer, unless you have the necessary tools and are mechanically skilled. Procedures are provided in an official Honda Shop Manual.
- 🔧 : Technical. In the interest of safety, have your motorcycle serviced by your dealer.

### Maintenance Legend

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

# Maintenance Schedule

Items		Pre-ride Check P. 38	Frequency*1								Annual Check	Regular Replace	Refer to page
			× 1,000 km	1	4	8	12	16	20	24			
			× 1,000 mi	0.6	2.5	5	7.5	10	12.5	15			
Drive Chain		I	Every 500 km (300 mi): I L										61
Brake Fluid *4		I		I	I	I	I	I	I	I	2 Years	57	
Brake Pads Wear		I		I	I	I	I	I	I	I		58	
Brake System			I	I	I	I	I	I	I	I		38	
Brakelight Switch				I	I	I	I	I	I	I		59	
Headlight Aim				I	I	I	I	I	I	I		70	
Lights/Horn		I										–	
Engine Stop Switch		I										–	
Clutch System		I	I	I	I	I	I	I	I	I		65	
Side Stand		I		I	I	I	I	I	I	I		60	
Suspension	🔧			I	I	I	I	I	I	I		–	
Nuts, Bolts, Fasteners	🔧		I		I		I		I	I		–	
Wheels/Tyres	🔧	I		I	I	I	I	I	I	I		45	
Steering Head Bearings	🔧		I			I			I	I		–	

## Notes:

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

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

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










\*4 : Replacement requires mechanical skill.

## Maintenance Fundamentals

### 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 motorcycle:

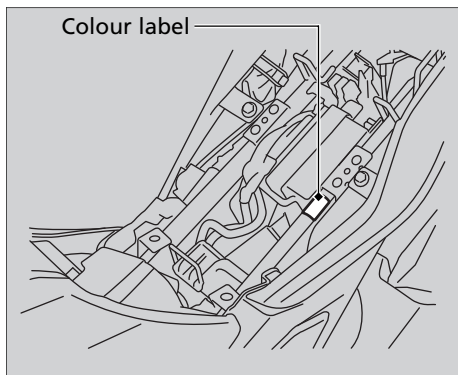
- Fuel level – Fill fuel tank when necessary.  P. 31
- Throttle – Check for smooth opening and full closing in all steering positions.  P. 68
- Engine oil level – Add engine oil if necessary. Check for leaks.  P. 54
- Drive chain – Check condition and slack, adjust and lubricate if necessary.  P. 61
- Brakes – Check operation;  
Front and Rear: check brake fluid level and pads wear.  P. 57, 58
- Lights and horn – Check that lights, indicators and horn function properly.
- Engine stop switch – Check for proper function.  P. 26
- Clutch – Check operation;  
Adjust freeplay if necessary.  P. 65
- Side stand ignition cut-off system - Check for proper function.  P. 60
- Wheels and tyres – Check condition, air pressure and adjust if necessary.  P. 45

## Maintenance Fundamentals

### 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 frame under the seat. ➤ P. 51



### **⚠ WARNING**

Installing non-Honda parts may make your motorcycle 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 motorcycle.

## Maintenance Fundamentals

### Battery

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

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

#### NOTICE

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



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

#### NOTICE

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


### WARNING

The battery gives off explosive hydrogen gas during normal operation.

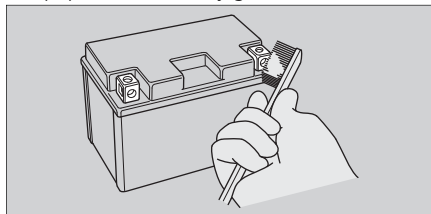
A spark or flame can cause the battery to explode with enough force to kill or seriously hurt you.

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

### Cleaning the Battery Terminals

1. Remove the battery.  P. 50
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.

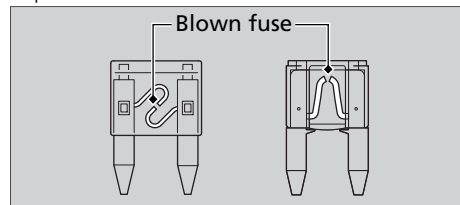
## Maintenance Fundamentals

### Fuses

Fuses protect the electrical circuits on your motorcycle. If something electrical on your motorcycle stops working, check for and replace any blown fuses. **P. 84**

### Inspecting and Replacing Fuses

Turn off the ignition switch to remove and inspect fuses. If a fuse is blown, replace with a fuse of the same rating. For fuse ratings, see "Specifications." **P. 100**



#### NOTICE

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

## Maintenance Fundamentals

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

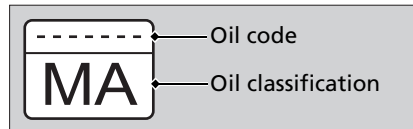
### Selecting the Engine Oil

For recommended engine oil, see "Specifications." ▢ P. 99

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

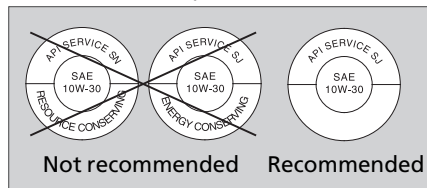
- JASO T 903 standard\*<sup>1</sup>: MA
- SAE standard\*<sup>2</sup>: 10W-30
- API classification\*<sup>3</sup>: SG or higher

\*<sup>1</sup>. 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.



\*<sup>2</sup>. The SAE standard grades oils by their viscosity.

\*<sup>3</sup>. The API classification specifies the quality and performance rating of engine oils. Use SG or higher oils, excluding oils marked as "Energy Conserving" or "Resource Conserving" on the circular API service symbol.



## Maintenance Fundamentals

### 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:

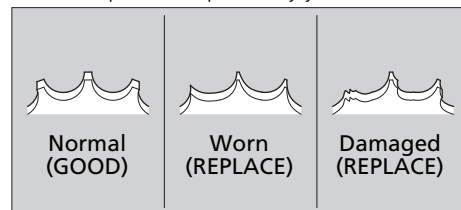
Honda DOT 3 or DOT 4 Brake Fluid or equivalent

### 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. 61

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

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



#### NOTICE

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



## Maintenance Fundamentals

### Cleaning and Lubricating

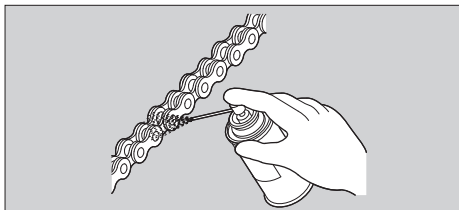
After inspecting the slack, clean the chain and sprockets while rotating the rear wheel. Use a dry cloth with high flash-point solvent. Use a soft brush if the chain is dirty.

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

#### Recommended lubricant:

Drive chain lubricant

If not available, use SAE 80 or 90 gear oil.



Never use petrol or low flash point solvents for cleaning the drive chain. A fire or explosion could result.

Avoid getting lubricant on the brakes or tyres.

Avoid applying excess chain lubricant to prevent spray onto your clothes and the motorcycle.

## Maintenance Fundamentals

### Crankcase Breather

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

If the drain tube overflows, the air filter may become contaminated with engine oil causing poor engine performance. ■ P. 69

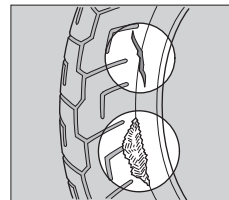
### Tyres (Inspecting/Replacing)

#### ■ Checking the Air Pressure

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

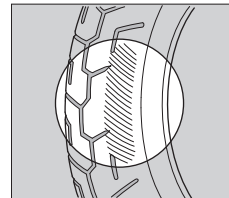
#### ■ Inspecting for Damage

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



#### ■ Inspecting for Abnormal Wear

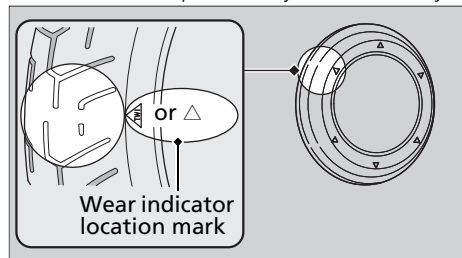
Inspect the tyres for signs of abnormal wear on the contact surface.



## Maintenance Fundamentals

### Inspecting Tread Depth

Inspect the tread wear indicators. If they become visible, replace the tyres immediately.



Maintenance

### **⚠ WARNING**

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

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

#### Germany

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

## Maintenance Fundamentals

Have your tyres replaced by your dealer.  
For recommended tyres and air pressure, see  
"Specifications." ■ P. 99  
Follow these guidelines whenever you replace  
tyres.

- Use the recommended tyres or equivalents of the same size, construction, speed rating, and load range.
- Do not install a tube inside a tubeless tyre on this motorcycle. Excessive heat build-up can cause the tube to burst.
- Use only tubeless tyres on this motorcycle.  
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 motorcycle 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.

## Maintenance Fundamentals

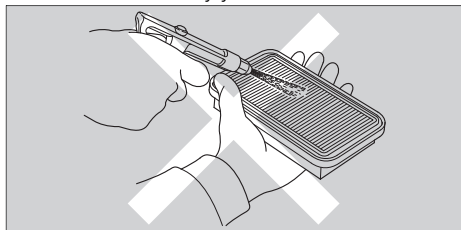
### Air Cleaner

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

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

Do not perform the maintenance.

Should be serviced by your dealer.



## Tool Kit

The tool kit is stored under the seat. ➡ P. 51

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

### ED type

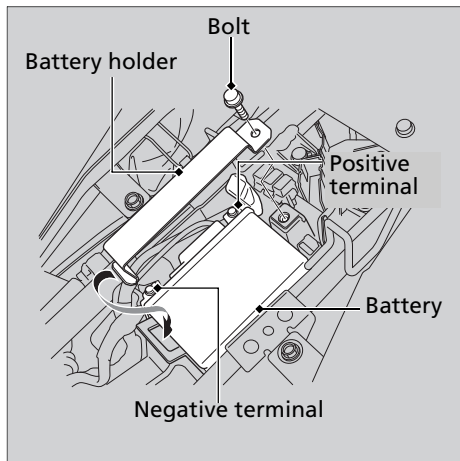
- Standard/Phillips screwdriver
- Screwdriver handle
- Spark plug wrench
- 10 x 14 mm Open end wrench
- 5 mm Hex wrench

### KO type

- Standard/Phillips screwdriver
- Screwdriver handle
- Spark plug wrench

## Removing & Installing Body Components

### Battery



#### Removal

Make sure the ignition switch is off.

1. Remove the seat. P. 51

2. Remove the battery holder by removing the bolt.
3. Disconnect the negative  $\ominus$  terminal from the battery.
4. Disconnect the positive  $\oplus$  terminal from the battery.
5. Remove the battery taking care not to drop the terminal nuts.

#### Installation

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

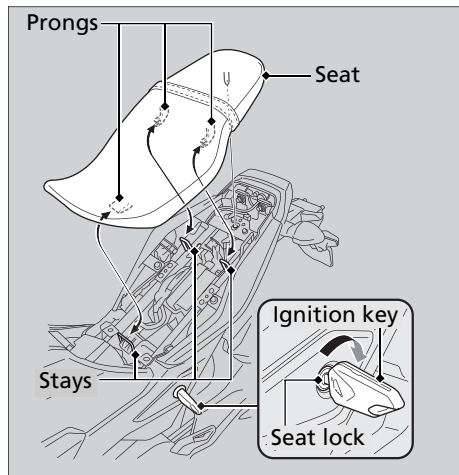
Make sure the clock information is correct after the battery is reconnected. P. 23

For proper handling of the battery, see "Maintenance Fundamentals." P. 40

"Battery Goes Dead." P. 81

## Removing & Installing Body Components ► Seat

### Seat



### Removal

1. Insert the ignition key into the seat lock.
2. Turn it clockwise, then pull the seat up and backward.

### Installation

1. Insert the prongs into the stays on the frame.
2. Push forward and down on the rear of the seat until it locks in place.  
Make sure that the seat is locked securely in position to pull it up lightly.

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



## Spark Plug

### Checking Spark Plug

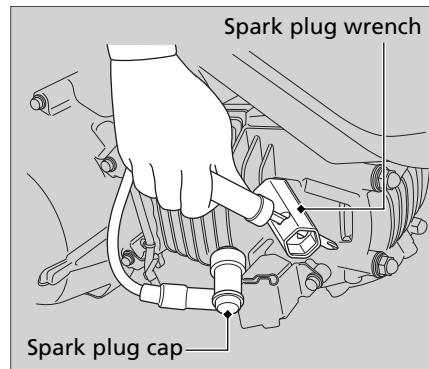
For the recommended spark plug, see "Specifications." ■ P. 99

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

#### NOTICE

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

1. Disconnect the spark plug cap from the spark plug.
2. Clean any dirt from around the spark plug base.
3. Remove the spark plug using the spark plug wrench provided in the tool kit.



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

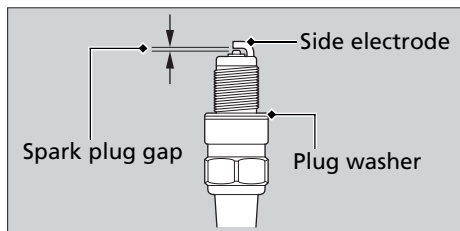
## Spark Plug ► Checking Spark Plug

5. Check the spark plug gap using a wire-type feeler gauge.

► If adjustment is necessary, bend the side electrode carefully.

### The gap should be:

0.80 to 0.90 mm (0.031 to 0.035 in)



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

8. Tighten the spark plug:

- If the old plug is good:  
1/8 turn after it seats.
- If installing a new plug, tighten it twice to prevent loosening:
  - a) First, tighten the plug:  
NGK: 1/2 turn after it seats.  
DENSO: 3/4 turn after it seats.
  - b) Then loosen the plug.
  - c) Next, tighten the plug again:  
1/8 turn after it seats.

### NOTICE

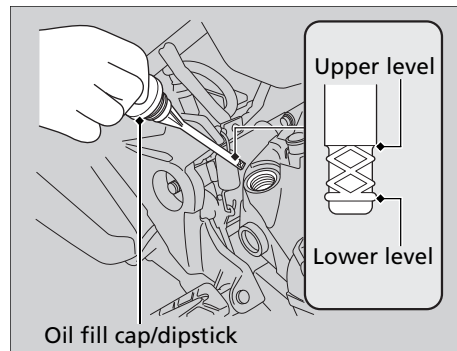
An improperly tightened spark plug can damage the engine. If a plug is too loose, a piston may be damaged. If a plug is too tight, the threads may be damaged.

9. Reinstall the spark plug cap. Take care to avoid pinching any cables or wires.

## Engine Oil

### Checking the Engine Oil

1. If the engine is cold, idle the engine for 3 to 5 minutes.
2. Turn the ignition switch off, and wait for 2 to 3 minutes.
3. Place your motorcycle in an upright position on a firm, level surface.
4. Remove the oil fill cap/dipstick and wipe it clean.
5. Insert the oil fill cap/dipstick until it seats, but don't screw it in.
6. Check that the oil level is between the upper level and lower level marks in the oil fill cap/dipstick.
7. Securely install the oil fill cap/dipstick.



**Engine Oil ► Adding Engine Oil**

## Adding Engine Oil

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

■ P. 42, 99

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

**NOTICE**

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

For the recommended oil and oil selection guidelines, see "Maintenance Fundamentals." ■ P. 42

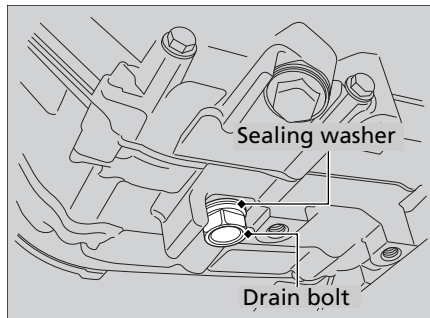
## Changing Engine Oil

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

1. If the engine is cold, idle the engine for 3 to 5 minutes.
2. Turn the ignition switch off, and wait for 2 to 3 minutes.
3. Place your motorcycle on a firm, level surface.

## Engine Oil ► Changing Engine Oil

4. Place a drain pan under the drain bolt.
5. Remove the oil fill cap/dipstick, drain bolt, and sealing washer to drain the oil.  
► Discard the oil at an approved recycling centre.



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

**Torque:** 24 N·m (2.4 kgf·m, 18 lbf·ft).

7. Fill the crankcase with the recommended oil (► P. 42, 99) and install the oil fill cap/dipstick.

### Required oil

#### When changing oil:

0.9 litres (1.0 US qt, 0.8 Imp qt)

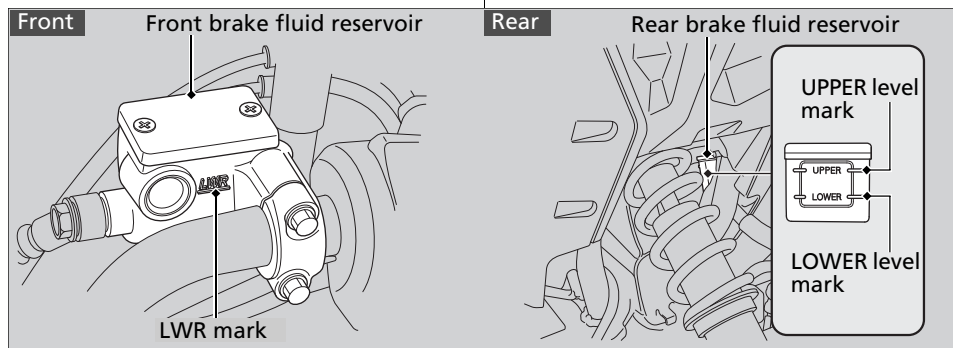
8. Check the oil level. ► P. 54
9. Check that there are no oil leaks.

## Brakes

### Checking Brake Fluid

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

If the brake fluid level in either reservoir is below the 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 motorcycle inspected by your dealer.



## Brakes ► Inspecting the Brake Pads

### Inspecting the Brake Pads

Check the condition of the brake pad wear indicators.

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

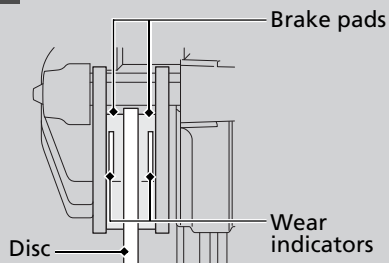
1. **Front** Inspect the brake pads from below the brake caliper.
2. **Rear** Inspect the brake pads from the rear right of the motorcycle.

If necessary have the pads replaced by your dealer.

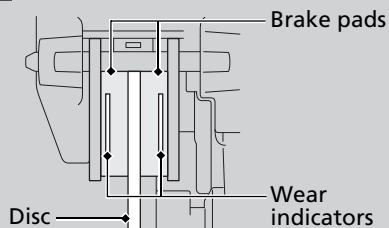
Always replace both left and right brake pads at the same time.

Maintenance

**Front**



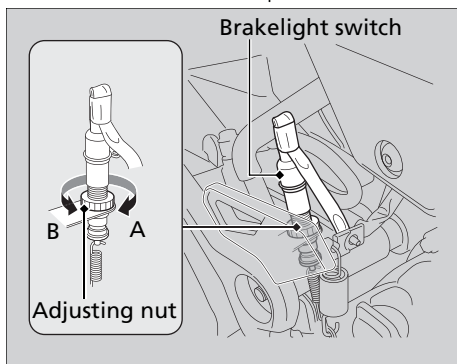
**Rear**



## Brakes ▶ Adjusting the Brakelight Switch

### Adjusting the Brakelight Switch

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

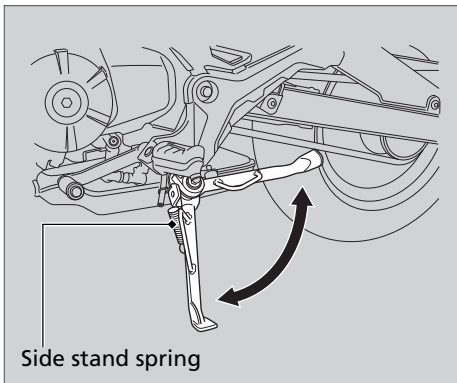




## Side Stand

### Checking the Side Stand

Maintenance



1. Check that the side stand operates smoothly. If the side stand is stiff or squeaky, clean the pivot area and lubricate the pivot bolt with clean grease.
2. Check the spring for damage or loss of tension.
3. Sit on the motorcycle, put the transmission in 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 motorcycle inspected by your dealer.

## Drive Chain

### Inspecting the Drive Chain Slack

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

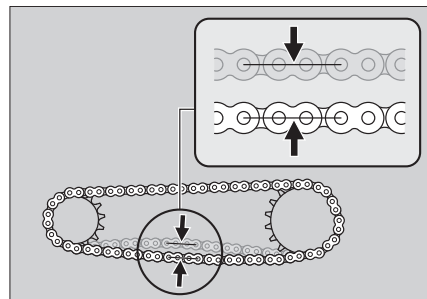
Have the chain inspected by your dealer.

1. Shift the transmission to Neutral.  
Stop the engine.
2. Place your motorcycle on the side stand on a level surface.
3. Check the slack in the lower half of the drive chain midway between the sprockets.

**Drive chain slack:**

30 to 40 mm (1.2 to 1.6 in)

- Do not ride your motorcycle if the slack exceeds 50 mm (2.0 in).



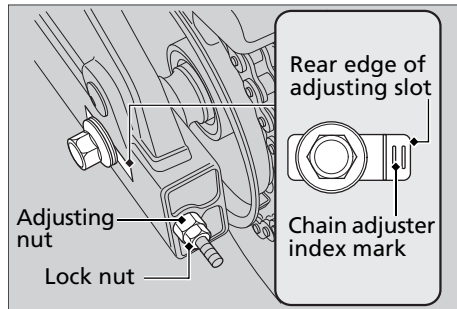
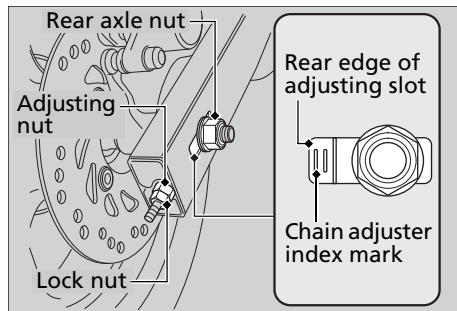
4. Roll the motorcycle forward and check that the chain moves smoothly.
5. Inspect the sprockets. ► P. 43
6. Clean and lubricate the drive chain.  
► P. 44

## Drive Chain ► Adjusting the Drive Chain Slack

### Adjusting the Drive Chain Slack

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

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



**Drive Chain ▶ Adjusting the Drive Chain Slack**

5. Turn both adjusting nuts an equal number of turns until the correct drive chain slack is obtained. Turn the adjusting nuts clockwise to tighten the chain. Turn the adjusting nuts counterclockwise to provide more slack.

Adjust the slack at a point midway between the drive sprocket and the driven sprocket.

Check the drive chain slack. ■ P. 61

6. Check rear axle alignment by making sure the chain adjuster index marks align with the rear edge of the adjusting slots. Both marks should correspond. If the axle is misaligned, turn the right or left adjusting nuts until the marks are aligned and recheck chain slack.

7. Tighten the rear axle nut.

**Torque:** 59 N·m (6.0 kgf·m, 44 lbf·ft).

8. Tighten the drive chain adjusting nuts lightly, then hold the adjusting nuts and tighten the lock nuts.
9. Recheck drive chain slack.

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

Maintenance

continued 63

## Drive Chain ► Adjusting the Drive Chain Slack

### I Checking the Drive Chain Wear

If the drive chain slack is excessive when the rear axle is moved to the furthest limit of adjustment, the drive chain is worn and must be replaced.

**Chain:** DID 420D

If necessary have the drive chain replaced by your dealer.

Maintenance

## Clutch

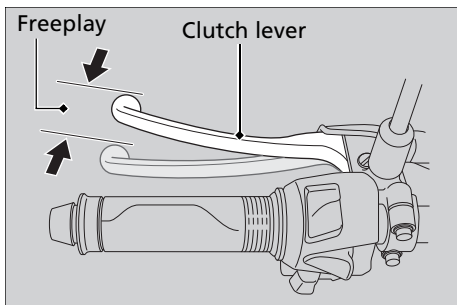
### Checking the Clutch

#### Checking the Clutch Lever Freeplay

Check the clutch lever freeplay.

##### Freeplay at the clutch lever:

10 to 20 mm (0.4 to 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.

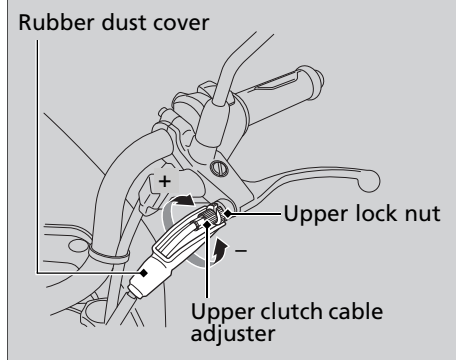
## Clutch ► Adjusting the Clutch Lever Freeplay

# Adjusting the Clutch Lever Freeplay

## Upper Adjustment

Attempt adjustment with the upper clutch cable adjuster first.

1. Pull back the rubber dust cover.
2. Loosen the upper lock nut.
3. Turn the upper clutch cable adjuster until the freeplay is 10 to 20 mm (0.4 to 0.8 in).
4. Tighten the upper lock nut and check the freeplay again.
5. Reinstall the rubber dust cover.

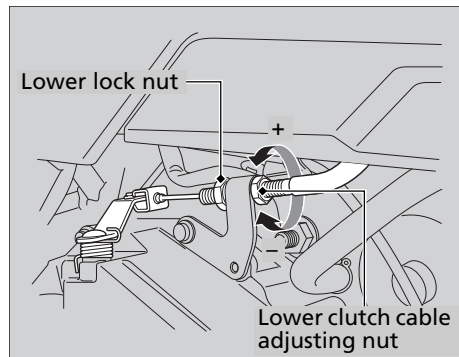


## Lower Adjustment

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

## Clutch ▶ Adjusting the Clutch Lever Freeplay

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 clutch cable adjusting nut until the clutch lever freeplay is 10 to 20 mm (0.4 to 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 motorcycle does not creep. Gradually release the clutch lever and open the throttle. Your motorcycle should move smoothly and accelerate gradually.



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



## Throttle

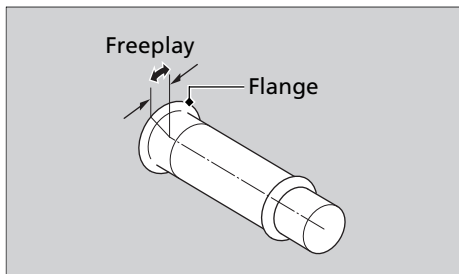
### Checking the Throttle

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

Maintenance

#### Freeplay at the throttle grip flange:

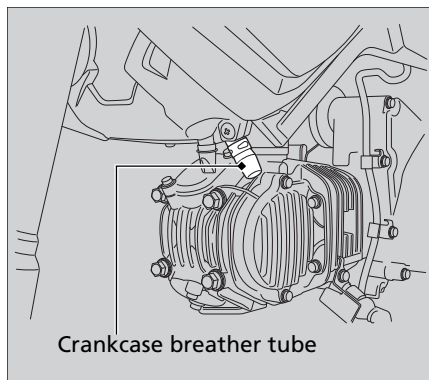
2 to 6 mm (0.1 to 0.2 in).



## Crankcase Breather

### Cleaning the Crankcase Breather

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

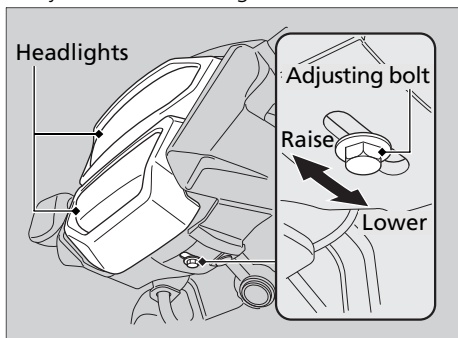


## Other Adjustments

### Adjusting the Headlight Aim

You can adjust vertical aim of the headlight for proper alignment. To move the headlight, loosen the adjusting bolt.

Tighten the adjusting bolt after adjustment. Obey local laws and regulations.



# Troubleshooting

<b>Engine Will Not Start</b> .....	P. 72	<b>Unstable Engine Running Occurs</b>	
<b>Warning Indicators On or Flashing</b> .....	P. 73	<b>Sporadically</b> .....	P. 85
PGM-FI (Programmed Fuel Injection)			
Malfunction Indicator Lamp (MIL) .....	P. 73		
<b>Other Warning Indication</b> .....	P. 74		
Fuel Gauge Failure Indication .....	P. 74		
<b>Tyre Puncture</b> .....	P. 75		
<b>Electrical Trouble</b> .....	P. 81		
Battery Goes Dead .....	P. 81		
Burned-out Light Bulb .....	P. 81		
Blown Fuse .....	P. 84		

## Engine Will Not Start

### Starter Motor Operates But Engine Does Not Start


Check the following items:

- Check the correct engine starting sequence ▮ P. 29
- Check that there is petrol in the fuel tank
- Check if the PGM-FI malfunction indicator lamp (MIL) is on
  - ▶ If the indicator light is on, contact your dealer as soon as possible.

Troubleshooting

### Starter Motor Does Not Operate

Check the following items:

- Make sure engine stop switch is in  (Run) position ▮ P. 26
  - Make sure the side stand is raised.
  - Check for a blown fuse ▮ P. 84
  - Check for a loose battery connection or battery terminal corrosion ▮ P. 40, 50
  - Check the condition of the battery ▮ P. 81
- If the problem continues, have your motorcycle inspected by your dealer.

## Warning Indicators On or Flashing

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

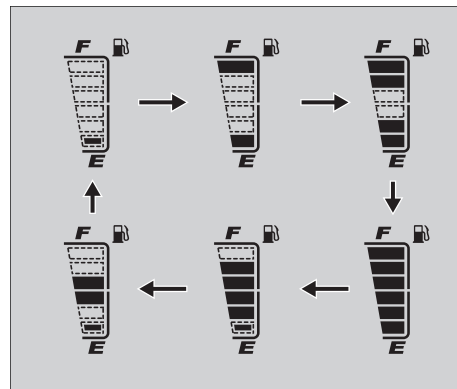
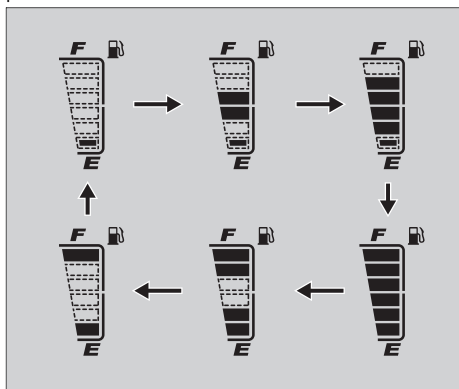
If the indicator comes on while riding, you may have a serious problem with the PGM-FI system. Reduce speed and have your motorcycle inspected by your dealer as soon as possible.

## Other Warning Indication

### Fuel Gauge Failure Indication

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

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



## Tyre Puncture

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

### Emergency Repair Using a Tyre Repair Kit

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

Follow the instructions provided with the emergency tyre repair kit.

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

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

### Removing Wheels

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

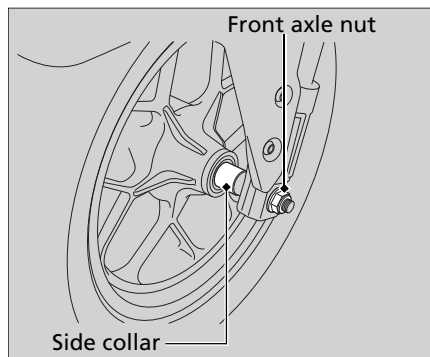


## Tyre Puncture ► Removing Wheels

### Front Wheel

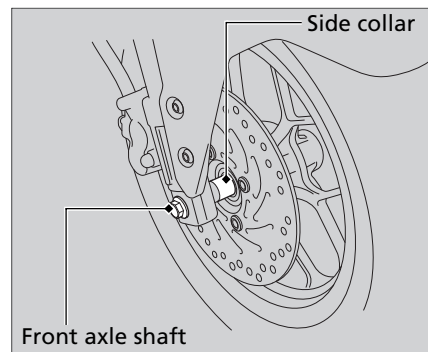
#### Removal

1. Place your motorcycle on a firm, level surface.
2. Support your motorcycle securely and raise the front wheel off the ground using a maintenance stand or a hoist.
3. Remove the front axle nut.



4. Remove the front axle shaft, front wheel and side collars.

- Avoid getting grease, oil, or dirt on the disc or pad surfaces.
- Do not pull the brake lever while the front wheel is removed.



## Tyre Puncture ► Removing Wheels

### Installation

1. Attach the side collars to the wheel.
2. Position the wheel between the fork legs and insert the front axle shaft from the right side, through the wheel hub and right fork leg.

#### NOTICE

When installing the wheel, carefully fit the brake disc between the pads to avoid scratching them.

3. Tighten the front axle nut.

**Torque:** 54 N·m (5.5 kgf·m, 40 lbf·ft).

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

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

Troubleshooting

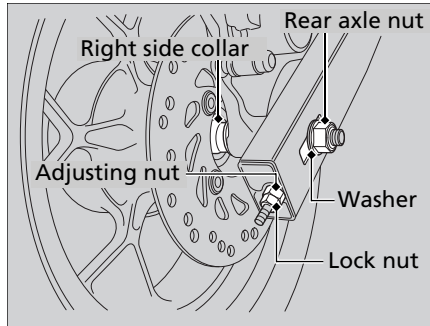
continued 77

## Tyre Puncture ► Removing Wheels

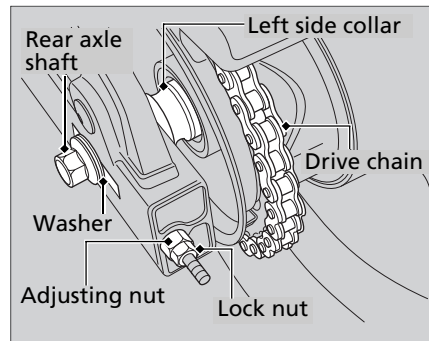
### Rear Wheel

#### Removal

1. Support your motorcycle securely and raise the rear wheel off the ground using a maintenance stand or a hoist.
2. Loosen the rear axle nut, lock nuts and turn the adjusting nuts so the rear wheel can be moved all the way forward for maximum drive chain slack.
3. Remove the rear axle nut and washer.



4. Remove the drive chain from the driven sprocket by pushing the rear wheel forward.



## Tyre Puncture ► Removing Wheels

5. Remove the rear axle shaft, washer, right side collar, left side collar and rear wheel.
  - Support the brake caliper assembly so that it doesn't hang from the brake hose. Do not twist the brake hose.
  - Avoid getting grease, oil, or dirt on the disc or pad surfaces.
  - Do not push the brake pedal while the brake caliper assembly is removed.

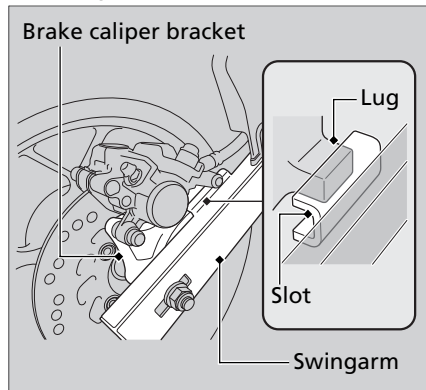
### Installation

1. To install the rear wheel, reverse the removal procedure.
  - Take care to prevent the brake caliper from scratching the wheel during installation.

#### NOTICE

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

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



Troubleshooting

continued 79

## Tyre Puncture ► Removing Wheels

3. Adjust the drive chain slack. ► P. 62
4. Install and tighten the rear axle nut.

**Torque:** 59 N·m (6.0 kgf·m, 44 lbf·ft).

5. After installing the wheel, apply the brake pedal several times, then recheck that the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.

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

Troubleshooting

## Electrical Trouble

### Battery Goes Dead

Charge the battery using a motorcycle battery charger.

Remove the battery from the motorcycle 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 is not recommended, as this can damage your motorcycle's electrical system.

### Burned-out Light Bulb

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

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

Allow the bulb to cool before replacing it.

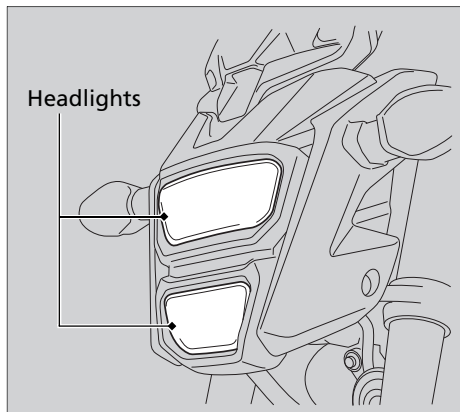
Do not use bulbs other than those specified.

Check the replacement bulb for correct operation before riding.

For the light bulb wattage, see "Specifications." ➤ P. 100

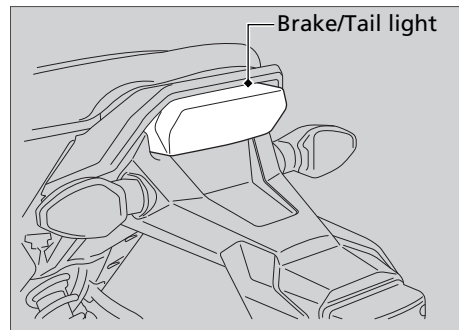
## Electrical Trouble ► Burned-out Light Bulb

### Headlight



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

### Brake/Tail Light

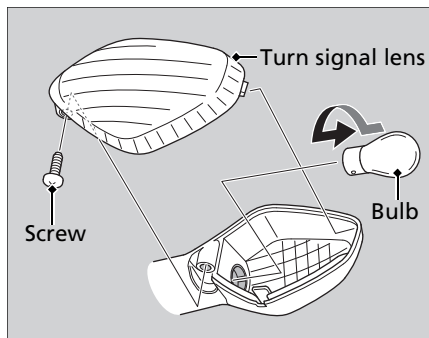


The brake and tail light uses several LEDs.  
If there is a LED which is not turned on, see  
your dealer for servicing.

## Front/Rear Turn Signal Bulb

The right and left turn signal bulbs replacement can be done in the same way.

1. Remove the screw.
2. Remove the turn signal lens.
3. Slightly press the bulb and turn it counterclockwise.

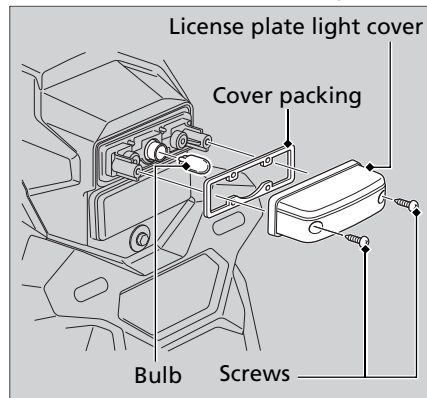


4. Install a new bulb and the parts in the reverse order of removal.

## Electrical Trouble ► Burned-out Light Bulb

### License Plate Light Bulb

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



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



## Electrical Trouble ► Blown Fuse

### Blown Fuse

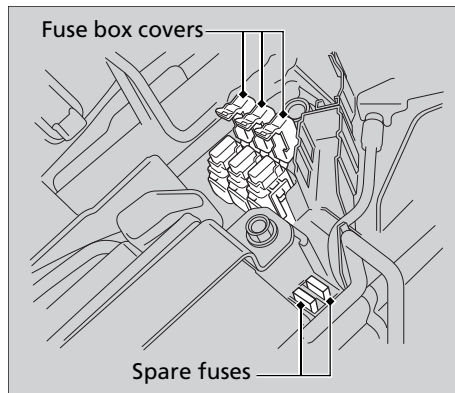
Before handling fuses, see "Inspecting and Replacing Fuses." ▣ P. 41

#### I Fuse Box Fuses

1. Remove the seat. ▣ P. 51
2. Open the fuse box covers.
3. Pull out the fuses one by one to check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.  
► Spare fuses are provided near the battery.
4. Close the fuse box covers.
5. Reinstall the seat.

#### NOTICE

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



## Unstable Engine Running Occurs Sporadically

If the fuel pump filter is clogged, unstable engine running will occur sporadically while riding.

Even if this symptom is occurred, you can continue to ride your motorcycle.

If unstable engine running is occurred even sufficient fuel is available, have your motorcycle inspected by your dealer as soon as possible.

# Information

<b>Keys</b> .....	P. 87
<b>Instruments, Controls, &amp; Other Features</b> .....	P. 88
<b>Caring for Your Motorcycle</b> .....	P. 90
<b>Storing Your Motorcycle</b> .....	P. 92
<b>Transporting Your Motorcycle</b> .....	P. 93
<b>You &amp; the Environment</b> .....	P. 94
<b>Serial Numbers</b> .....	P. 95
<b>Fuels Containing Alcohol</b> .....	P. 96
<b>Catalytic Converter</b> .....	P. 97

## Keys

### Keys

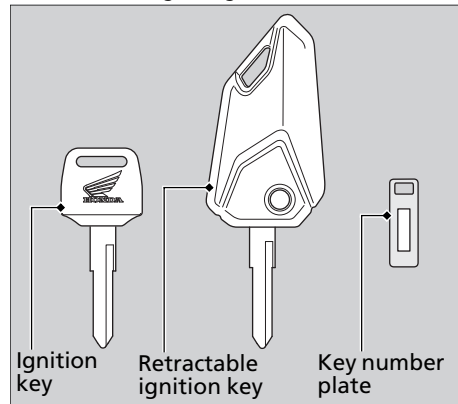
#### Ignition Key and Retractable Ignition Key

Be sure to record the key number provided with the key number plate and record it in this manual.

Store the key number plate in a safe location. To make a duplicate, take the spare key or the key number plate to your dealer.

If you lose all keys and the key number plate, 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.



Information

## Instruments, Controls, & Other Features

# Instruments, Controls, & Other Features

### Ignition Switch

Leaving the ignition switch **I** (ON) 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 off. Failing to do so will drain the battery.

### Odometer

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

### Tripmeter

The tripmeter A and B return to 0.0 when the read-out exceeds 9,999.9.

### Document Bag

The owner's manual, registration, and insurance information 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 motorcycle falls over. To reset the sensor, you must turn the ignition switch to **O** (OFF) and back to the **I** (ON) position before the engine can be restarted.

## Instruments, Controls, & Other Features

### High Beam Indicator

The high beam indicator will come on briefly due to the capacitor being discharged when the ignition switch is turned on immediately after the engine is stopped with the high beam.

### Headlight

The headlight will come on briefly due to the capacitor being discharged when the headlight dimmer switch is operated immediately after the engine is stopped with the high beam.

Information

## Caring for Your Motorcycle

### Caring for Your Motorcycle

Frequent cleaning and polishing is important to ensure the life of your Honda. A clean motorcycle makes it easier to spot potential problems.

In particular, seawater and salts used to prevent ice on roads promote the formation of corrosion. Always wash your motorcycle thoroughly after riding on coastal or treated roads.

#### Information

#### Washing

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

1. Rinse your motorcycle thoroughly using a garden hose to remove loose dirt.
2. If necessary, use a sponge or a soft towel with mild cleaner to remove road grime.
  - ▶ Clean the headlight lens, panels, and other plastic components with extra care to avoid scratching them. Avoid directing

water into the air cleaner, muffler, and electrical parts.

3. Thoroughly rinse your motorcycle with plenty of clean water and dry with a soft, clean cloth.
4. After the motorcycle 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 suffer greatly reduced braking effectiveness and can lead to a crash.
5. Lubricate the drive chain immediately after washing and drying the motorcycle.
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 motorcycle.  
Keep the wax clear of the tyres and brakes.
  - ▶ If your motorcycle has any mat painted parts, do not apply a coat of wax to the mat painted surface.

## Caring for Your Motorcycle

### 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:
  - ▶ Any condensation inside the headlight should dissipate after a few minutes of running the engine.
- Do not use wax or polishing compounds on mat painted surface:
  - ▶ Use a soft cloth or sponge, plenty of water, and a mild detergent to clean mat painted surfaces. Dry with a soft clean cloth.

Information

### 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.

*continued* 91



## Storing Your Motorcycle

### Panels

Follow these guidelines to prevent scratches and blemishes:

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



### Exhaust Pipe and Muffler

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

## Storing Your Motorcycle

If you store your motorcycle outdoors, you should consider using a full-body motorcycle cover.

If you won't be riding for an extended period, follow these guidelines:

- Wash your motorcycle and wax all painted surfaces (except mat painted surfaces). Coat chrome pieces with rust-inhibiting oil.
- Lubricate the drive chain.  P. 44
- Place your motorcycle 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 motorcycle to dry.
- Remove the battery ( P. 50) to prevent discharge. Charge the battery in a shaded, well-ventilated area.
  - ▶ If you leave the battery in place, disconnect the negative  $\ominus$  terminal to prevent discharge.

## Transporting Your Motorcycle

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

## Transporting Your Motorcycle

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

### NOTICE

Towing your motorcycle can cause serious damage to the transmission.

Information

## You & the Environment

# You & the Environment

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

### Choose Sensible Cleaners

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

### Recycle Wastes

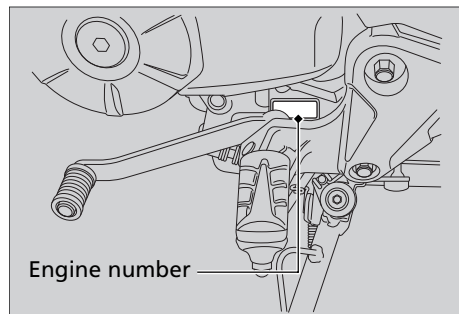
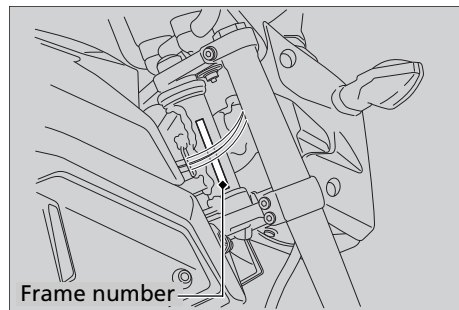
Put oil and other toxic wastes in approved containers and take them to a recycling centre. Call your local or state office of public works or environmental services to find a recycling centre in your area, and to get instructions on how to dispose of non-recyclable wastes. Do not place used engine oil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

drain or on the ground. Used oil, petrol, and cleaning solvents contain poisons that can hurt refuse workers and contaminate drinking water, lakes, rivers, and oceans.

## Serial Numbers

### Serial Numbers

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



Information

## Fuels Containing Alcohol

### Fuels Containing Alcohol

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

The following fuel blends can be used in your motorcycle:

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

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

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

#### NOTICE

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

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

## Catalytic Converter

### Catalytic Converter

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

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

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

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

Information

## Specifications

### ■ Main Components

Overall length	1,755 mm (69.1 in)
Overall width	730 mm (28.7 in)
Overall height	1,000 mm (39.4 in)
Wheelbase	1,200 mm (47.2 in)
Minimum ground clearance	155 mm (6.1 in)
Caster angle	25° 00"
Trail	81 mm (3.2 in)
Curb weight	ED type 104 kg (229 lb)
	KO type 105 kg (232 lb)
Maximum weight capacity*1	ED type 154 kg (340 lb)
	KO type 134 kg (295 lb)
Maximum luggage weight	3 kg (7 lb)
Passenger capacity	Rider and 1 passenger
Minimum turning radius	1.9 m (6.2 ft)

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

Displacement	125 cm <sup>3</sup> (7.62 cu-in)
Bore × stroke	52.4 × 57.9 mm (2.06 × 2.28 in)
Compression ratio	9.3:1
Fuel	Unleaded petrol Recommended: 91 RON or higher
Tank capacity	5.7 litres (1.51 US gal, 1.25 Imp gal)
Battery	YTZ55
	12V-3.5 Ah (10 HR) / 3.7 Ah (20 HR)
Gear ratios	1st 2.500
	2nd 1.550
	3rd 1.150
	4th 0.923
Reduction ratios (primary / final)	3.350/ 2.266

## Specifications

## ■ Service Data

Tyre size	Front	120/70-12 51L
	Rear	130/70-12 56L
Tyre type		Bias-ply, tubeless
Recommended Tyres	Front	VEE RUBBER V119C IRC NR77U
	Rear	VEE RUBBER V119C IRC NR77U
	Normal	Permitted
Tyre category of use*2	Special	Not Permitted
	Snow	Not Permitted
	Moped	Not Permitted
Tyre air pressure (Driver only)	Front	200 kPa (2.00 kgf/cm <sup>2</sup> , 29 psi)
	Rear	200 kPa (2.00 kgf/cm <sup>2</sup> , 29 psi)
Tyre air pressure (Driver and passenger)	Front	200 kPa (2.00 kgf/cm <sup>2</sup> , 29 psi)
	Rear	200 kPa (2.00 kgf/cm <sup>2</sup> , 29 psi)
Spark plugs	(standard)	CPR6EA-9 (NGK) or U20EPR9 (DENSO)
	(For extended high speed riding)	CPR7EA-9 (NGK) or U22EPR9 (DENSO)
Spark plug gap		0.80 to 0.90 mm (0.031 to 0.035 in)
Idle speed		1,400 ± 100 rpm

\*2 EU regulation

Recommended engine oil	Honda 4-stroke motorcycle oil API Service Classification SG or higher, excluding oils marked as "Energy Conserving" or "Resource Conserving," SAE 10W-30, JASO T 903 standard MA	
Engine oil capacity	After draining	0.9 litres (1.0 US qt, 0.8 Imp qt)
	After disassembly	1.1 litres (1.2 US qt, 1.0 Imp qt)
Recommended brake fluid	Honda DOT 3 or DOT 4 Brake Fluid	
Recommended drive chain lubricant	Drive chain lubricant If not available, use SAE 80 or 90 gear oil.	
Drive chain slack	30 to 40 mm (1.2 to 1.6 in)	
Standard drive chain	DID 420D	
	No. of links	106
Standard sprocket sizes	Drive sprocket	15T
	Driven sprocket	34T



## Specifications

### ■ Bulbs

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

### ■ Fuses

Main fuse	15A
Other fuses	10A

### ■ Torque Specifications

Engine oil drain bolt	24 N·m (2.4 kgf·m, 18 lbf·ft)
Rear axle nut	59 N·m (6.0 kgf·m, 44 lbf·ft)
Front axle nut	54 N·m (5.5 kgf·m, 40 lbf·ft)

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