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
Е	UK
F	France
ED	European direct sales
	South Africa
KO	Korea

<sup>\*</sup>The specifications may vary with each locale.

## A Few Words About Safety

Your safety, and the safety of others, is very important. Operating this 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:

## **ADANGER**

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

## **AWARNING**

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

## **ACAUTION**

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

# Other important information is provided under the following titles:

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

## **Contents**

Motorcycle Safety	P. 2
Operation Guide	P. 16
Maintenance	P. 32
Troubleshooting	P. 69
Information	P. 84
Specifications Specification Speci	P. 95
Index	P. 98

# **Motorcycle Safety**

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

Safety Guidelines	P. 3
Image Labels	
Safety Precautions	P. 10
Riding Precautions	
Accessories & Modifications	P. 14
Loading	P. 15

## **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.

## 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 evaluate the condition of your motorcycle. If the engine is still running, turn it off. Inspect for fluid leaks, check the tightness of critical nuts and bolts, and check the handlebar, control levers, brakes, and wheels. Ride slowly and cautiously. Your 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.

## AWARNING

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.

## **Image Labels**

#### Except KO type

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

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

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



Read instructions contained in Owner's Manual carefully.



Read instructions contained in Shop Manual carefully. In the interest of safety, take the 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.



# 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.



# 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.

#### TYRE INFORMATION LABEL

Cold tyre pressure:

[Driver only]

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

[Driver and passenger]

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

Tyre size:

Front **120/70-12 51L**Rear **130/70-12 56L**Tyre brand: VEE RUBBER

Front V119C Rear V119C

#### **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







## **Safety Precautions**

- Ride cautiously and keep your hands on the handlebar and feet on the footpegs.
- Keep passenger's hands onto the seat strap, 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

## AWARNING

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

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

#### Gloves

Full-finger leather gloves with high abrasion resistance

## Boots or Riding Shoes

Sturdy boots with non-slip soles and ankle protection

## Jacket and Trousers

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

## **Riding Precautions**

### **Running-in Period**

During the first 500 km (300 miles) of running, follow these guidelines to ensure your motorcycle's future reliability and performance.

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

#### **Brakes**

Observe the following guidelines:

- Avoid excessively hard braking and sudden shifting to a lower gear.
  - Sudden braking can reduce the motorcycle's stability.
  - ➤ Where possible, reduce speed before turning; otherwise you risk wheel slippage.
- Exercise caution on low traction surfaces.
  - ► The wheels lock more easily on such surfaces, and braking distances are longer.
- Avoid continuous braking.
  - ► Repeated braking can overheat the brakes, reducing their effectiveness.

## I 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.

- **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. 27

## **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. 87
- Do not use stale or contaminated petrol or an oil/petrol mixture.
- Avoid getting dirt or water in the fuel tank.

# Accessories & Modifications

We strongly advise that you do not add any accessories that were not specifically designed for your 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.

## AWARNING

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

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

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

## Loading

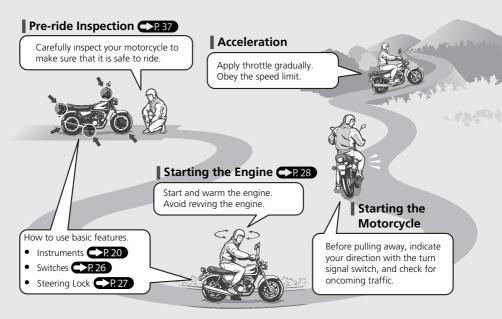
- Carrying extra weight affects your motorcycle's handling, braking and stability.
   Always ride at a safe speed for the load you are carrying.
- Avoid carrying an excessive load and keep within specified load limits.
  - Maximum weight capacity / Maximum luggage weight P. 95
- Tie all luggage securely, evenly balanced and close to the centre of the motorcycle.
- Do not place objects near the lights or the muffler

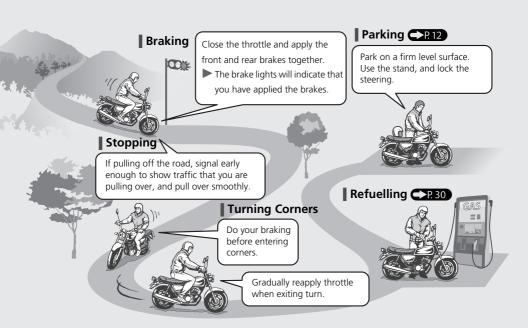
## **AWARNING**

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

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

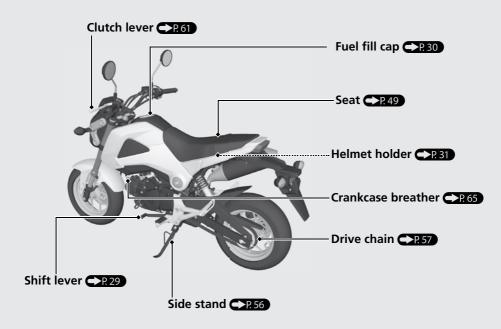
# **Basic Operation Flow**



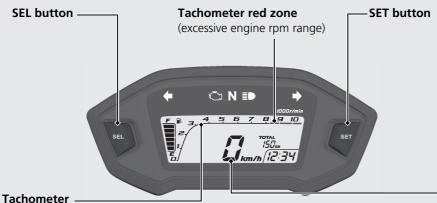


## **Parts Location**

Rear brake fluid reservoir P.54 -----Fuse box >P.83 ----- Battery > .50 Front brake fluid reservoir → P. 54 Throttle grip P. 64 Engine oil fill cap/dipstick -Spark plug →P.66 Engine oil drain bolt P.53



## **Instruments**



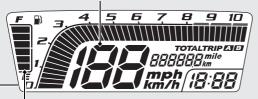
#### NOTICE

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, and the tachometer segment progress to maximum scale and then disappear. If any part of these displays does not come on when it should, have your dealer check for problems.

## Speedometer



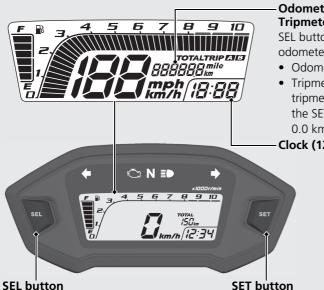
## – Fuel gauge

Remaining fuel when only 1st (E) segment starts flashing: approximately 1.45 litres (0.383 US gal, 0.319 lmp gal)

If the fuel gauge indicators repeat flashing or turned off: • P.72



## **Instruments** (Continued)



# 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)

## **Display Setting**

You can adjust the following settings.

- Clock setting
- (E 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.

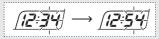
#### 1 To set the clock:

- 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.

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 (Except E type)

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

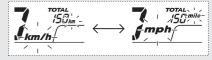
(E type only)

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.

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

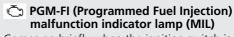
# 2 (E type only) Changing the speed and mileage unit:

- 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.

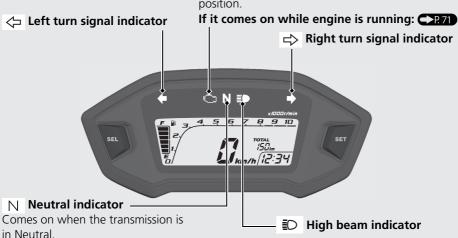


The adjustment can also be set by turning the ignition switch off.

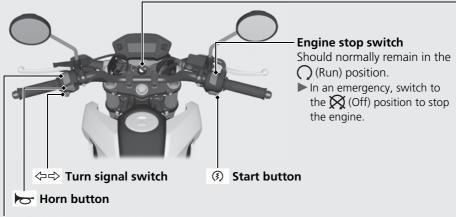
## **Indicators**



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



## **Switches**



## **Headlight dimmer switch**

- ≣D: High beam
- **≣**D: Low beam

### **Ignition Switch**

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

Key can be removed when in the OFF or LOCK position.

# OFF Turns engine off. LOCK Locks steering.

ON

Turns electrical system

## **Steering Lock**

Lock the steering when parking to help prevent theft.

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



## Locking

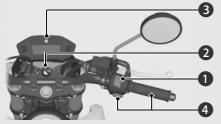
- 1 Turn the handlebar all the way to the left.
- 2 Push the key down, and turn the ignition switch to the LOCK position.
  - ▶ Jiggle the handlebar if the lock is difficult to engage.
- **3** Remove the key.

## Unlocking

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

# **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.
- Make sure the engine stop switch is in the (Run) position.
- 2 Turn the ignition switch to the ON position.
- 3 Shift the transmission to Neutral (N indicator comes on). Alternatively, pull in the clutch lever to start your 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.70

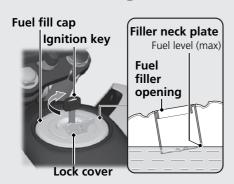
# **Shifting Gears**

Your motorcycle transmission has four 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 plate.

Fuel type: Unleaded petrol only

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

Tank capacity: 5.5 litres (1.45 US gal,

1.21 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 cap.

## Closing the Fuel Fill Cap

- 1 After refuelling, align the fuel fill cap latch with the slot in the filler neck. Push the fuel fill cap into the filler neck until it snaps closed and locks.
- Remove the key and close the lock cover.
  - The key cannot be removed if the cap is not locked

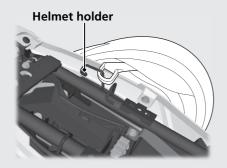
## AWARNING

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

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

# **Storage Equipment**

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



▶ Use the helmet holder only when parked.

Removing the Seat >P. 49





## **AWARNING**

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.

Importance of Maintenance	P. 33
Maintenance Schedule	P. 34
Maintenance Fundamentals	P. 37
Tool Kit	P. 48
Removing & Installing Body Components.	P. 48
Seat	P. 49
Battery	P. 50
Engine Oil	P. 51
Brakes	P. 54
Side Stand	P. 56
Drive Chain	P. 57
Clutch	P. 61

Throttle	P. 64
Crankcase Breather	
Spark Plug	P. 66
Other Adjustments	
Headlight Aim	
Brake Light Switch	P. 68

## 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, perform the periodic checks specified in the Maintenance Schedule. \$\mathbf{P}\$P. 34

## AWARNING

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.
- Park 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.

Items		Pre-ride	Frequency*1									Pogular	D-f+-
		Check ▶ P. 37	× 1,000 km	1	4	8	12	16	20	24	Check	Regular Replace	
			× 1,000 mi	0.6	2.5	5	7.5	10	12.5	15		періасе	page
Fuel Line	Amer				_	1	1	1	_	1	1		-
Fuel Level													30
Throttle Operation	1	1			1	1	1	1	1	1	1		64
Air Cleaner *2	3/18							B					47
Crankcase Breather *3					С	С	С	С	С	С	С		65
Spark Plug						B		B		B			66
Valve Clearance	3/18			1	1	1	1	1	1	1			-
Engine Oil				B	ß	B	B	B	B	B	<b>B</b>		51
Engine Oil Strainer Screen	*						С			С			-
Engine Oil Centrifugal Filter	*						С			С			-
Engine Idle Speed	1			1	1	1	1	1	1	1	1		-

#### 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

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

Items		Pre-ride Check ▶ P. 37	Frequency*1								A	l Dogulou	Defeate
			× 1,000 km	1	4	8	12	16	20	24	Check	Replace	Refer to
			× 1,000 mi	0.6	2.5	5	7.5	10	12.5	15		керіасе	page
Drive Chain		1		Every 500 km (300 mi):								57	
Brake Fluid *4											1	2 Years	54
Brake Pads Wear		1			1	1	1	1	1	1	1		55
Brake System													54
Brake Light Switch					1	1	1	1	1	1	1		68
Headlight Aim													68
Lights/Horn		1											-
Engine Stop Switch													-
Clutch System		1		1	1	1	1	1	1	1	1		61
Side Stand													56
Suspension	1				1	1	1	1	1	1	1		-
Nuts, Bolts, Fasteners	1												-
Wheels/Tyres	*	1			1	1	1	1	1	1	1		44
Steering Head Bearings	*												-

#### Notes:

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

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

 $<sup>{}^{\</sup>star}3$ : Service more frequently when riding in rain or at full throttle.

<sup>\*4:</sup> 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 ride motorcycle:

- Fuel level Fill fuel tank when necessary.
   ▶ P. 30
- Throttle Check for smooth opening and full closing in all steering positions. ■ P. 64

- Drive chain Check condition and slack, adjust and lubricate if necessary. 
   ■ P. 57
- Brakes Check operation;
   Front and Rear: check brake fluid level and pads wear. 

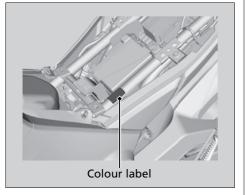
  P. 54, 55
- Lights and horn Check that lights, indicators and horn function properly.
- Engine stop switch Check for proper function.
- Clutch Check operation;
   Adjust freeplay if necessary. 

  P. 61
- Side stand ignition cut-off system Check for proper function. ■ P. 56
- Wheels and tyres Check condition, air pressure and adjust if necessary.
   ▶ P. 44

#### **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. **2** P. 49



## **AWARNING**

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.

#### **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.

## **AWARNING**

The battery gives off explosive hydrogen gas during normal operation.

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

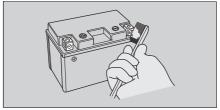
Wear protective clothing and a face shield, or have a skilled mechanic do the battery servicing.

#### Cleaning the Battery Terminals

- **1.** Remove the battery. **≥** P. 50
- **2.** If the terminals are starting to corrode and are coated with a white substance, wash with warm water and wipe clean.

#### **Maintenance Fundamentals**

**3.** If the terminals are heavily corroded, clean and polish the terminals with a wire brush or sandpaper. Wear safety glasses.



**4.** After cleaning, reinstall the battery.

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

#### NOTICE

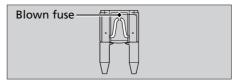
Installing non-Honda electrical accessories can overload the electrical system, discharging the battery and possibly damaging the system.

#### **Fuses**

Fuses protect the electrical circuits on your motorcycle. If something electrical on your motorcycle stops working, check for and replace any blown fuses. ▶ P. 83

#### 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. 97



#### NOTICE

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

If a fuse fails repeatedly, you likely have an electrical fault. Have your 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. 96

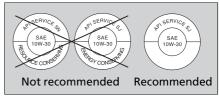
If you use non-Honda engine oil, check the label to make sure that the oil satisfies all of the following standards:

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

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



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



#### **Brake Fluid**

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

#### NOTICE

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

#### Recommended brake fluid:

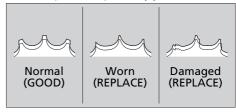
Honda DOT 3 or DOT 4 Brake Fluid or equivalent

#### **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.

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

Also inspect the engine sprocket and rear wheel sprocket. If either has worn or damaged teeth, have the sprocket replaced by your dealer.



#### NOTICE

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

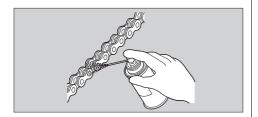
#### Cleaning and Lubricating

After inspecting the slack, clean the chain and sprockets while rotating the rear wheel. Use 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:

Pro Honda HP Chain Lube or SAE 80/90 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.

#### **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.

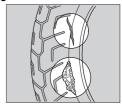
#### Tyres (Inspecting/Replacing)

#### 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

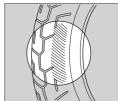
Inspect the tyres for cuts, slits, or cracks that exposes fabric or cords, or nails or other foreign objects embedded in the side of the tyre or the tread. Also inspect



for the bumps or bulges in the side walls of the tyres.

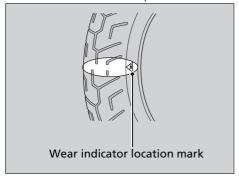
#### Inspecting for Abnormal Wear

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



#### Inspecting Tread Depth

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



## AWARNING

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

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

#### **Maintenance Fundamentals**

Have your tyres replaced by your dealer. For recommended tyres, and air pressure, see "Specifications." ■ P. 96

Follow these guidelines whenever you replace tyres.

- Use the recommended tyres or equivalents of the same size, construction, speed rating, and load range.
- Have the wheel balanced with Honda Genuine balance weights or equivalents after the tyre is installed.
- 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 tubetype tyre could slip on the rim and cause the tyre to rapidly deflate.

### AWARNING

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.

#### 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. 49

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

#### (Except KO type)

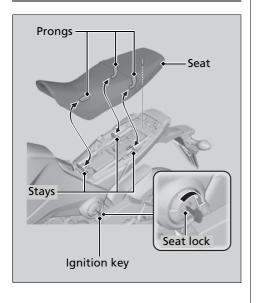
- Standard/Phillips screwdriver
- Screwdriver handle
- Spark plug wrench
- 10 x 14 mm Open end wrench
- 5 mm Hex wrench

#### (KO type)

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

## **Removing & Installing Body Components**

#### Seat



#### Removal

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

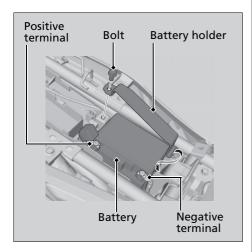
#### **I** Installation

- **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 key under the seat.

## **Battery**



#### Removal

Make sure the ignition switch is off.

1. Remove the seat. ▶ P. 49

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

#### Installation

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

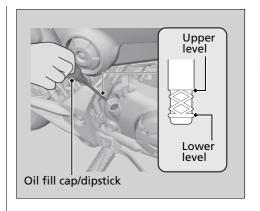
Readjust the clock after the battery is reconnected since the clock goes wrong once the battery is disconnected.

For proper handling of the battery, see "Maintenance Fundamentals." ▶ P. 39 "Battery Goes Dead." ▶ P. 79

## **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, stop the engine 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, wipe it clean.
- 5. Insert the oil fill cap/dipstick until it seats, but don't screw it in. Check that the oil level is between the upper and lower level marks in the oil fill cap/dipstick.
- **6.** Securely install the oil fill cap/dipstick.



## **Adding Engine Oil**

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

#### **₽** P. 41

- 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.

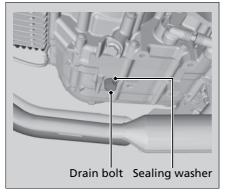
For the recommended oil and oil selection guidelines, see "Maintenance Fundamentals." 
P. 41

## **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, stop the engine and wait for 2 to 3 minutes.

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



- **5.** Install a new sealing washer onto the drain bolt.
- 6. Install the drain bolt and tighten.

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

 Fill the crankcase with the recommended oil (►) P. 41) and install the oil fill cap/ dipstick.

#### Required oil

#### When changing oil:

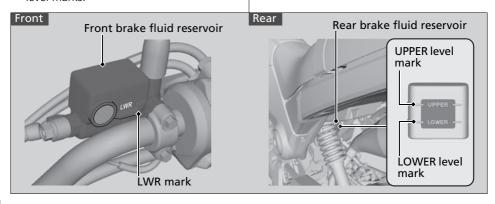
0.9 litres (1.0 US qt, 0.8 lmp qt)

- 8. Check the oil level. 
  ▶ P. 51
- **9.** Check that there are no oil leaks.

## **Checking Brake Fluid**

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



## **Inspecting the Brake Pads**

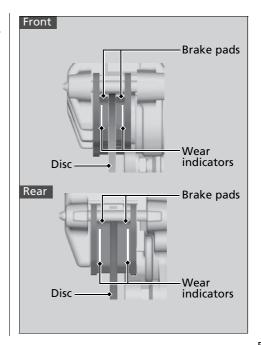
Check the condition of the brake pad groove wear indicators

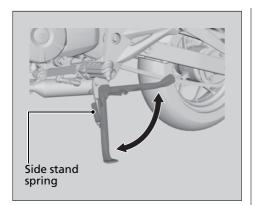
The pads need to be replaced if a brake pad is worn to the indicator

- **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.





- 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.

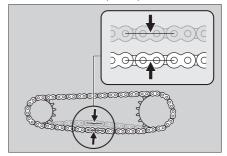
- **1.** Place your motorcycle on the side stand on a level surface
- **2.** Stop the engine. Place the transmission in Neutral

**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.

Maintenance

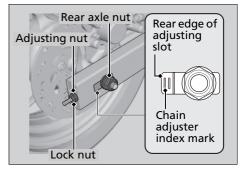
#### Drive Chain ► Adjusting the Drive Chain Slack

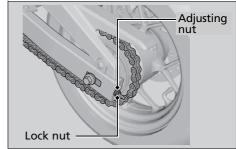
- **5.** Inspect the sprockets. **▶** P. 42
- **6.** Clean and lubricate the drive chain. **▶** P. 43

## **Adjusting the Drive Chain Slack**

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

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





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 front sprocket and the rear

wheel sprocket.

Check the drive chain slack. ▶ P. 57

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.

## 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.

## Clutch

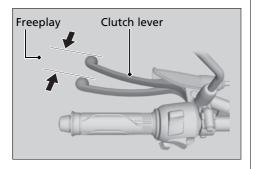
## **Checking the Clutch**

## 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.

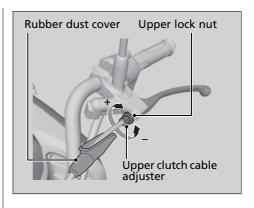
Lubricate the clutch cable with a commercially available cable lubricant to prevent premature wear and corrosion.

# Adjusting the Clutch Lever Freeplay

## Upper Adjustment

Attempt adjustment with the upper clutch cable adjuster first.

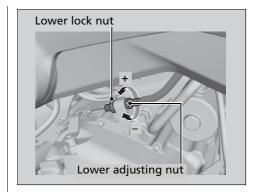
- 1. Pull back the rubber dust cover.
- 2. Loosen the upper lock nut.
- **3.** Turn the upper clutch cable adjuster until the freeplay is 10 to 20 mm (0.4 to 0.8 in).
- **4.** Tighten the upper lock nut and check the freeplay again.
- **5.** Install the rubber dust cover.



## 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 adjusting nut.

- 1. Loosen the upper lock nut and turn the upper clutch cable adjuster all the way in (to provide maximum freeplay). Tighten the upper lock nut.
- 2. Loosen the lower lock nut.
- **3.** Turn the lower adjusting nut until the clutch lever freeplay is 10 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.



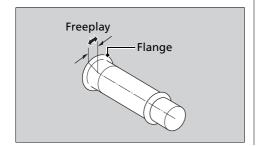
If proper adjustment cannot be obtained or the clutch does not work correctly, see your dealer.

## **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.

#### Freeplay at the throttle grip flange:

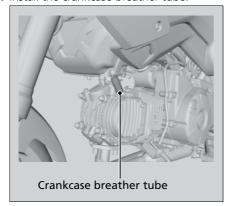
2 to 6 mm (0.1 to 0.2 in).



### **Crankcase Breather**

## Cleaning the Crankcase Breather

- **1.** Remove the crankcase breather tube.
- **2.** Drain deposits into a suitable container.
- 3. Install the crankcase breather tube.



## **Spark Plug**

## **Checking Spark Plug**

For the recommended spark plug, see "Specifications." 

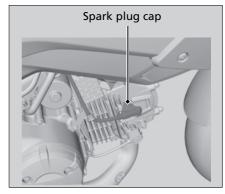
P. 96

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

#### NOTICE

Using spark plugs an improper heat range can cause engine damage.

- 1. Disconnect the spark plug cap.
- **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.

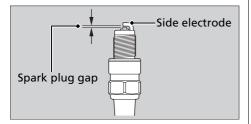


- **4.** Inspect the electrodes and centre porcelain for deposits, erosion or carbon fouling.
  - ► If the erosion or deposit is heavy, replace the plug.
  - Clean a carbon or wet-fouled plug with a plug cleaner, otherwise use a wire brush.

- **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. 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

Improperly tightened spark plugs 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.

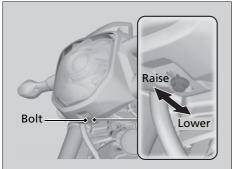
**9.** Reinstall the spark plug cap. Take care avoid pinching any cables or wires.

## **Other Adjustments**

## **Adjusting the Headlight Aim**

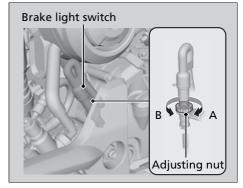
You can adjust vertical aim of the headlight for proper alignment. To move the headlight case, loosen the bolt.

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



## Adjusting the Brake Light Switch

Check the operation of the brake light switch. 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.



## **Troubleshooting**

Engine Will Not Start	P. 70
Warning Indicators On or Flashing	
PGM-FI (Programmed Fuel Injection)	
Malfunction Indicator Lamp (MIL)	P. 71
Other Warning Indication	P. 72
Fuel Gauge Failure Indication	P. 72
Tyre Puncture	P. 73
Electrical Trouble	P. 79
Battery Goes Dead	P. 79
Burned-out Light Bulb	P. 79
Blown Fuse	P. 83

### **Engine Will Not Start**

# Starter Motor Operates But Engine Does Not Start

Check the following items:

- Check the correct engine starting sequence ▶ P. 28
- 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.

#### Starter Motor Does Not Operate

Check the following items:

- Check for a blown fuse ▶ P. 83
- Check for a loose battery connection or battery terminal corrosion 

  P. 50
- Check the condition of the battery P. 79 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)

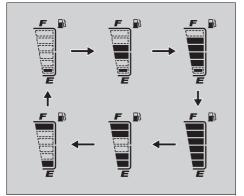
If the indicator comes on while riding, you may have a serious problem with the PGM-FI system. Reduce speed and have your motorcycle inspected by your dealer as soon as possible.

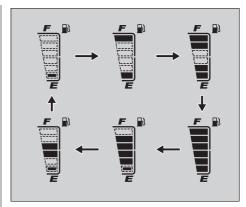
### **Other Warning Indication**

# **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.

#### AWARNING

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.

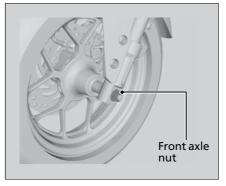
## **Removing Wheels**

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

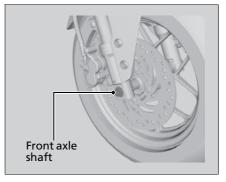
#### I Front Wheel

#### Removal

- **1.** Park on a firm, level surface.
- 2. Remove the front axle nut.



- **3.** Support your motorcycle securely and raise the front wheel off the ground using a maintenance stand or a hoist.
- **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.



#### Installation

- **1.** Attach the side collars to the wheel.
- 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).

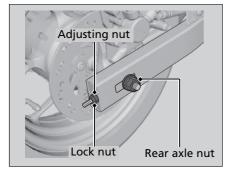
**4.** After installing the wheel, apply the brake lever several times, then check if the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.

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.

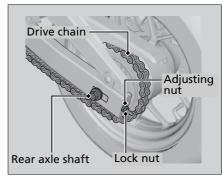
#### Rear Wheel

#### 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.



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



- **5.** Remove the rear axle shaft, side collars 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 is removed.

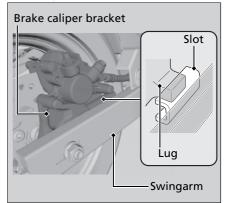
#### Installation

- **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.



#### Tyre Puncture ► Removing Wheels

- **3.** Adjust the drive chain. ▶ P. 58
- **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 check if the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.

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

#### **Electrical Trouble**

### **Battery Goes Dead**

Charge the battery using a motorcycle battery charger.

Remove the battery from the motorcycle while 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**

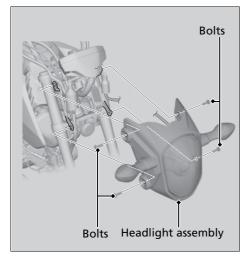
Follow the procedure below to replace a burned-out light bulb.

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. 97

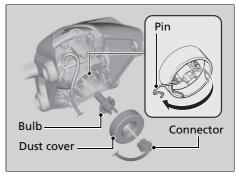
#### | Headlight Bulb



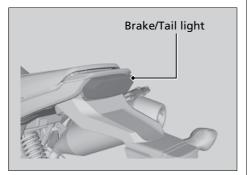
**1.** Remove the bolts and headlight assembly.

- 2. Pull off the connector without turning.
- 3. Remove the dust cover.
- **4.** Press the pin down and pull out the bulb without turning it.
- **5.** Install a new bulb and parts in the reverse order of removal.

Do not touch the glass surface with your fingers. If you touch the bulb with your bare hands, clean it with a cloth moistened with alcohol.



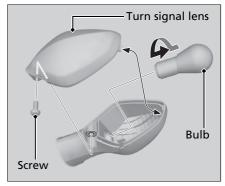
#### Brake/Tail Light



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

#### Front/Rear Turn Signal Bulb

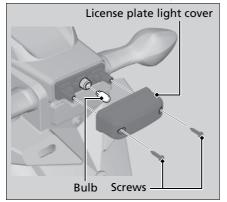
- **1.** Remove the screw.
- 2. Remove the turn signal lens.
- **3.** Slightly press the bulb and turn it counterclockwise.



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

#### License Plate Light

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



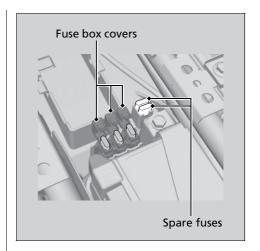
**4.** Install a new bulb in the reverse order of removal.

#### **Blown Fuse**

Before handling fuses, see "Inspecting and Replacing Fuses." ▶ P. 40

#### Fuse Box Fuses

- 1. Remove the seat. 
  ▶ P. 49
- 2. Open the fuse box cover.
- **3.** Pull the fuses out one by one check for a blown fuse. Always replace a blown fuse with a spare of the same rating.
- 4. Close the fuse box cover.
- **5.** Reinstall the seat.



# Information

Keys	P. 85
Instruments, Controls, & Other Features	P. 86
Fuels Containing Alcohol	P. 87
Catalytic Converter	P. 88
Caring for Your Motorcycle	P. 89
Storing Your Motorcycle	P. 91
Transporting Your Motorcycle	P. 92
You & the Environment	P. 93
Serial Numbers	P. 94

# **Keys**

#### Ignition key

You will need the key number if you ever have to replace a key. Store the plate in a safe place.

To reproduce keys, bring all keys, key number plate and motorcycle to your dealer.

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

# Instruments, Controls, & Other Features

#### **Ignition Switch**

Leaving the ignition switch 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 returns to 0.0 when the read-out exceeds 9999.9.

#### **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 OFF and back to the ON position before the engine can be restarted.

# **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) 10 % by volume (max).
- Petrol containing ethanol may be marketed under the name Gasohol.
- Methanol (methyl alcohol) 5 % by volume (max) that contain cosolvents and corrosion inhibitors to protect the fuel system. Never use a blend containing more than 5 %.

The use of petrol containing more than 10 % ethanol (or more than 5 % methanol) may:

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

#### NOTICE

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

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

# **Catalytic Converter**

This motorcycle is equipped with a three-way catalytic converter. The catalytic converter contain 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.

# **Caring for Your Motorcycle**

Frequent cleaning and polishing is important to ensure the long 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.

#### 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.
- 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 or pads 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 matte painted parts, do not apply a coat of wax to the matte 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.
- 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.

#### **Aluminium Components**

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

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

#### **Panels**

Follow these guidelines to prevent scratches and blemishes:

 Wash gently using a soft sponge and plenty of water.

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

#### **Exhaust Pipe and Muffler**

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 matte painted surfaces).
   Coat chrome pieces with rust-inhibiting oil.
- Lubricate the drive chain. ▶ P. 43
- 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 

    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.

#### 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

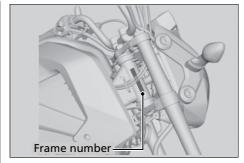
drain or on the ground. Used oil, petrol, coolant, and cleaning solvents contain poisons that can hurt refuse workers and contaminate drinking water, lakes, rivers, and oceans.

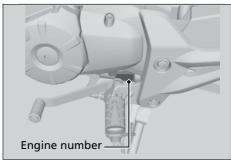
#### **Serial Numbers**

The frame and engine serial numbers uniquely identify your motorcycle and are required in order to register your motorcycle. They may also be required when ordering replacement parts. The frame number is stamped on the right side of the steering head.

The engine number is stamped on the left side of the crankcase.

You should record these numbers and keep them in a safe place.





# **Specifications**

■ Main Components

I Main Components		
Туре	JC61	
Overall length	1,760 mm (69.3 i	n)
Overall width	755 mm (29.7 in)	1
Overall height	1,010 mm (39.8 i	n)
Wheelbase	1,200 mm (47.2 i	n)
Minimum ground clearance	160 mm (6.3 in)	
Caster angle	25°	
Trail	81 mm (3.19 in)	
Curb weight	Except KO type KO type	102 kg (225 lb) 100 kg (220 lb)
Maximum weight	Except KO type	154 kg (340 lb)
capacity*1	KO type	134 kg (295 lb)
Maximum luggage weight*2	3 kg (7 lb)	
Passenger capacity	Rider and 1 passenger	
Minimum turning radius	1.9 m (6.2 ft)	

<sup>\*1</sup> Including rider, passenger, all luggage, and accessories \*2 Includes the weight of the luggage and added accessories.

Displacemen	t	125 cm <sup>3</sup> (7.62 cu-in)
Bore x strok		52.4 × 57.9 mm (2.06 × 2.28 in)
Compression	ratio	9.3:1
Fuel		Unleaded petrol Recommended: 91 RON or higher
Tank capacit	:y	5.5 litres (1.45 US gal, 1.21 Imp gal)
Patton/		YTZ5S
Battery		12V-3.5 Ah (10 HR) / 3.7 Ah (20 HR)
	1st	2.500
Gear ratios	2nd	1.550
dear ratios	3rd	1.150
	4th	0.923
Reduction ra (primary / fir		3.350/ 2.266

#### **Specifications**

#### **■** Service Data

= Service Data		
Turo cizo	Front	120/70-12 51L
Tyre size	Rear	130/70-12 56L
Tyre type		Bias-ply, tubeless
Recommended	Front	VEE RUBBER V119C
Tyres	Rear	VEE RUBBER V119C
Tyre air pressure	Front	200 kPa (2.00 kgf/cm <sup>2</sup> , 29 psi)
(Driver only)	Rear	200 kPa (2.00 kgf/cm <sup>2</sup> , 29 psi)
Tyre air pressure	Front	200 kPa (2.00 kgf/cm <sup>2</sup> , 29 psi)
(Driver and passenger)	Rear	200 kPa (2.00 kgf/cm², 29 psi)
	(standard)	CPR6EA-9 (NGK) or U20EPR9 (DENSO)
Spark plugs	(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	
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	After draining	0.9 litres (1.0 US qt, 0.8 Imp qt)
capacity	After disassembly	1.1 litres (1.2 US qt, 1.0 lmp qt)
Recommended brake fluid	Honda DOT 3 or DOT 4 Brake Fluid	

Recommended drive chain lubricant	Pro Honda HP Chain Lube or SAE 80/90 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	Engine sprocket	15T
sizes	Rear wheel sprocket	34T

#### **■** Bulbs

Headlight	12V-35/35W
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)

# Index

A	
Accessories	14
В	
Basic Operation Flow	16
Battery	39, 50
Brake Light Switch	
Brakes	
Fluid	42. 54
Pad Wear	
Braking	
Bulb	
Brake/Tail Light	81
Front Turn Signal	
Headlight	
License Plate Light	
Rear Turn Signal	81

C	
Caring for Your Motorcycle	89
Clock	
Clutch System	
Crankcase Breather	65
_	
D	
Digital Clock Adjustment	
Drive Chain	57
E	
Electrical Trouble	79
Engine	
Number	94
Oil	41, 51
Starting	28
Stop Switch	
Stopping	86
Environment	
Equipment	
Owner's Manual	31, 86
Tool Kit	

F	I
Flooded Engine 28	Ignition Cut-off System
Frame Number 94	Banking Sensor86
Fuel	Side Stand 56
Gauge21	Ignition key85
Recommended30	Ignition Switch27, 28
Remaining 21	Image Labels6
Tank Capacity 30	Indicators25
Fuels Containing Alcohol 87	Instruments20
Fuses 40, 83	
	L
G	Labels6
Gasohol 87	Load Limits
	Loading Guidelines15
Н	_
Headlight Aim 68	M
Headlight Dimmer Switch 26	Maintenance
Helmet Holder31	Fundamentals37
High Beam Indicator25	Importance33
Horn Button 26	Safety33
	Schedule 34
	Maximum Weight Limit
	Modifications14

N Neutral Indicator	25
Odometer 22, 8	86
Engine	51
P	
Parking	12
Parts Location	18
Petrol	87
PGM-FI (Programmed Fuel Injection) malfunction indicator lamp (MIL) 25, Protective Apparel	

ĸ	
Recommended	
Fuel	
Oil	4
Refuelling	3
Removal	
Battery	
Seat	4
Repair Kit	7
Riding Precautions	1
-	

S	
Safety Precautions 1	0
Seat	9
Serial Numbers9	4
Shifting Gears2	9
Side Stand5	6
Specifications 9	
Speedometer2	1
<b>Start Button</b> 26, 2	8
Starting the Engine2	8
Steering Lock2	
Stopping Engine 8	6
Storage	
Equipment 3	1
Owner's Manual 8	
Storing Your Motorcycle 9	1
Switches 2	6

T	
Tachometer	20
Throttle	64
Tool Kit	
Transporting Your Motorcycle	
Tripmeter	
Troubleshooting	
Turn Signal Indicator	
Turn Signal Switch	
_	∠ (
Tyres	4
Air Pressure	
Puncture	
Replacing	44, 73
w	
Warning Indicators On	7
Washing Your Motorcycle	ŏ
Weight Limit	1!
Wheels	
Front removal	74
Rear removal	70