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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.

To protect your investment, we urge you to take responsibility for keeping your motorcycle well serviced and maintained. Also, observe the break-in guidelines, and always perform the pre-ride inspection and other periodic checks in this manual. When service is required, remember that your Honda dealer knows your motorcycle best. If you have the required mechanical "know-how" and tools, you can purchase an official Honda Service Manual to help you perform many maintenance and repair tasks. ▶ P. 158

Read the warranty information thoroughly so that you understand the warranty coverage and that you are aware of your rights and responsibilities. ⊇ P. 159 You may also want to visit our website at www.powersports.honda.com. Canada www.honda.ca. Happy riding!

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 judgment.

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:

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

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:

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

Motorcycle Safety

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

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

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. 9

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.

We recommend that all riders take a certified course approved by the Motorcycle Safety Foundation (MSF). New riders should start with the basic course, and even experienced riders will find the advanced course beneficial.

Safety Guidelines

For information about the MSF training course nearest you, call the national toll-free number: (800) 446-9227.

USA Other riding tips can be found in the You and Your Motorcycle Riding Tips booklet that came with your motorcycle.

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 judgment 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.

Motorcycle Safety

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 to the OFF position, and evaluate the condition of your motorcycle. 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 colorless, 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

Running the engine of your motorcycle while in an enclosed or even partially enclosed area can cause a rapid buildup of toxic carbon monoxide gas.

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

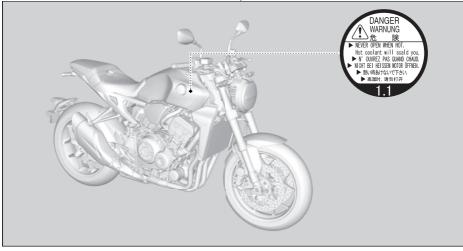
Only run your motorcycle's engine when it is located in a well ventilated area outdoors.

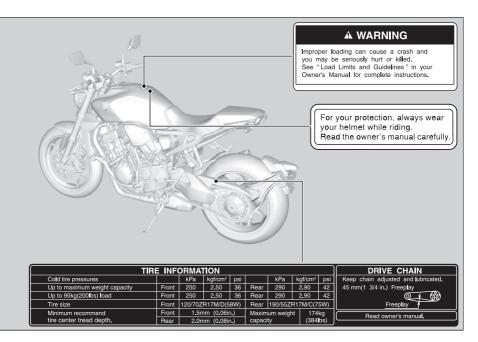
Safety Labels

Safety Labels

Safety and information labels on your motorcycle provide important safety information and may warn you of potential

hazards that could cause serious injury. Read these labels carefully and don't remove them. If a label comes off or becomes hard to read, contact your dealer for a replacement.





Safety Precautions

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

Protective Apparel

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

Helmet

Should be safety-standard certified, highvisibility, and 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
 USA Look for a DOT (Department of Transportation) certification label on any helmet you buy.

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 Pants

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

Riding Precautions

Break-in Period

During the first 300 miles (500 km) 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 downshifting.
 - 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 tires slip more easily on such surfaces and braking distances are longer.
- Avoid continuous braking.
 - Repeated braking, such as when descending long, steep slopes can seriously overheat the brakes, reducing their effectiveness. Use engine braking with intermittent use of the brakes to reduce speed.
- For full braking effectiveness, operate both the front and rear brakes together.

Anti-lock Brake System (ABS)

This model is equipped with an Anti-lock Brake System (ABS) designed to help prevent the brakes from locking up during hard braking.

- ABS does not reduce braking distance. In certain circumstances, ABS may result in a longer stopping distance.
- ABS does not function at speeds below 6 mph (10 km/h).
- The brake lever and pedal may recoil slightly when applying the brakes. This is normal.
- Always use the recommended front/rear tires and sprockets to ensure correct ABS operation.

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.

Riding Precautions

Parking

- Park on a firm, level 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. 56

Refueling and Fuel Guidelines

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

- Use only unleaded gasoline.
- Use recommended octane number. Using lower octane gasoline will result in decreased engine performance.
- Do not use fuels containing a high concentration of alcohol. P. 157
- Do not use stale or contaminated gasoline or an oil/gasoline mixture.
- Avoid getting dirt or water in the fuel tank.

Honda selectable torque control

When the Honda selectable torque control (Torque Control) detects rear wheel spin during acceleration, the system will limit the amount of torque applied to the rear wheel based on the Torque Control level selected. Additionally, the system will limit torque during

a wheelie while accelerating based on the Torque Control level selected.

Torque Control will allow some wheel spin during acceleration at the lower Torque Control levels settings. Select a level that is appropriate for your skill and riding conditions.

Torque Control does not work during deceleration and will not prevent the rear wheel from skidding due to engine braking. Do not close the throttle suddenly, especially when riding on slippery surfaces. Torque Control may not compensate for rough road conditions or rapid throttle operation. Always consider road and weather conditions, as well as your skills and condition, when applying throttle.

If your motorcycle gets stuck in mud, snow or sand, it may be easier to free it by turning off the Torque Control temporarily.

Temporarily turning off Torque Control also may help you maintain control and balance when riding on off-road terrain.

Always use the recommended tires and sprockets to ensure correct Torque Control operation.

Accessories & Modifications

We strongly advise that you do not add any accessories that were not specifically designed or approved 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 D P. 164

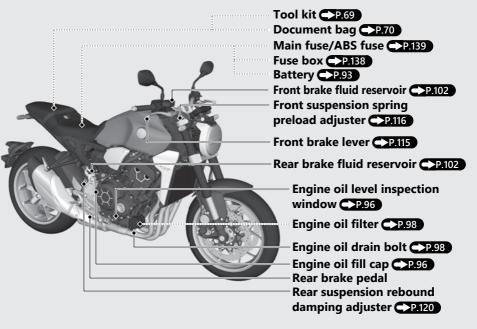
- Tie all luggage securely, evenly balanced and close to the center of the motorcycle.
- Do not place objects near the lights or the muffler.

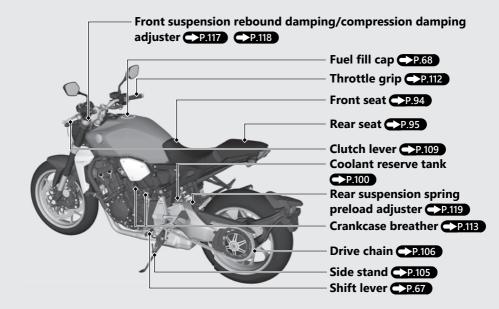
AWARNING

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

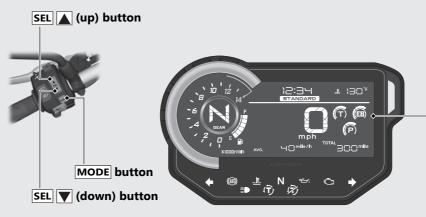
Follow all load limits and other loading guidelines in this manual.

Parts Location



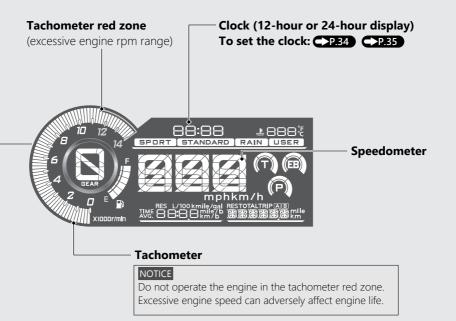


Instruments

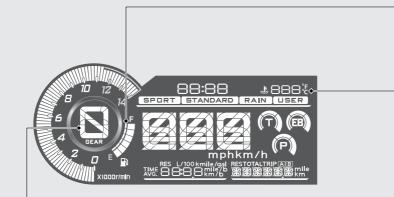


Display Check

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



Instruments (Continued)



Gear position indicator

The gear position is shown in the gear position indicator.

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

Fuel gauge

Remaining fuel when only 1st (E) segment starts flashing: approximately 0.92 US gal (3.5 L) If the fuel gauge indicator flashes in a repeat pattern or turns off: C>P.127

Coolant temperature gauge (💒)

Display range: 94°F to 269°F (35°C to 132°C)

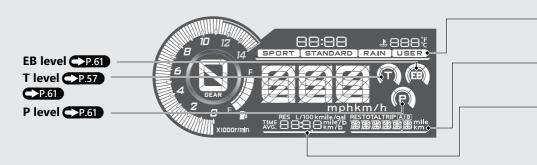
- 93°F (34°C) or less: "---" is displayed.
- Between 251°F and 268°F (122°C and 131°C):
 - High coolant temperature indicator lights.
 - Coolant temperature digits flash.
- Above 269°F (132°C):
 - High coolant temperature indicator lights.
 - "269°F" or "132°C" flashes.
- Even if the engine coolant temperature is low, the cooling fan may start running when you rev up the engine. This is normal.

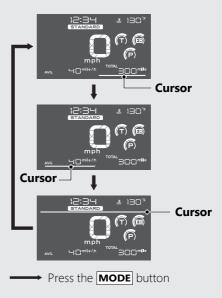


Continued 21

Instruments (Continued)

Press the **MODE** button to move the cursor to a desired display.





Riding mode display (>P.59)

- INFO 1 display - P.24

INFO 2 display

Instruments (Continued) INFO 1 display

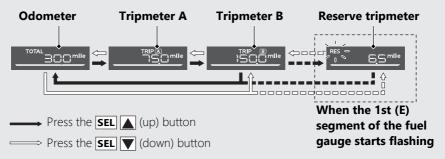
You can select the following:

- Odometer [TOTAL]
- Tripmeter [TRIP A/B]
- Reserve tripmeter [RES]

Changing the INFO 1 display

Press the SEL (up) or the SEL (down) button until the desired indication is displayed.

Press the MODE button. The INFO 1 display is set, and then the display moves to the INFO 2 display.



When the 1st (E) segment of the fuel gauge starts flashing, the odometer and tripmeters switches to the reserve tripmeter.

Odometer

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

Tripmeter A/B

Distance ridden since tripmeter was reset. When "----.-" is displayed, go to your dealer for service.

To reset the tripmeter: -P.26

Reserve tripmeter

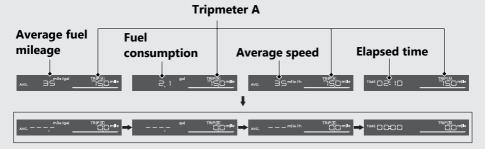
Distance ridden since the 1st (E) segment of the fuel gauge starts flashing. When the 1st (E) segment of the fuel gauge starts flashing, the odometer or tripmeters switch to the reserve tripmeter. You should refill the tank as soon as possible. When "----- " is displayed, go to your dealer for service.

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

Instruments (Continued)

To reset the tripmeter, average fuel mileage, fuel consumption, average speed and elapsed time

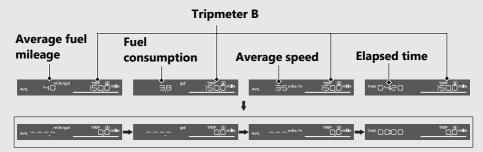
To reset tripmeter A, average fuel mileage, fuel consumption, average speed and elapsed time (these are based on tripmeter A) together, press and hold the **MODE** button while tripmeter A or odometer and average fuel mileage, fuel consumption, average speed and elapsed time is displayed.



Then, the display returns to the last selected indication.

Also, the tripmeter A, average fuel mileage, fuel consumption, average speed and elapsed time will automatically reset by refueling more than the reserve amount and riding your motorcycle for 0.06 mile (0.1 km). You can activate or deactivate the automatic reset mode by refueling.

To reset tripmeter B, average fuel mileage, fuel consumption, average speed and elapsed time (these are based on tripmeter B) together, press and hold the **MODE** button while tripmeter B is displayed.



Then, the display returns to the last selected indication.

Instruments (Continued)

INFO 2 display

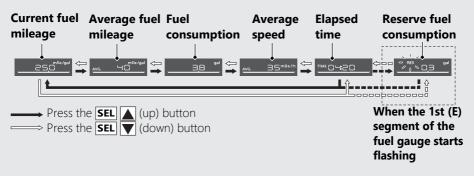
You can select the following:

- Current fuel mileage
- Average fuel mileage
- Fuel consumption
- Average speed
- Elapsed time
- Reserve fuel consumption

Changing the INFO 2 display

- Select the INFO 2 display. P.23
- Press the SEL (up) or the SEL (down) button until the desired indication is displayed.
- **3** Press the **MODE** button. The INFO 2 display is set, and then the display moves to the riding mode display.

When the 1st (E) segment of the fuel gauge starts flashing, the current fuel mileage, average fuel mileage, fuel consumption, average speed or elapsed time switch to the reserve fuel consumption.



Current fuel mileage

Displays the current or instant fuel mileage. Display range: 0.0 to 300.0 mile/gal (L/100km or km/L)

- When your speed is less than 3 mph (5 km/h): "-----" is displayed.
- More than 300.0 L/100km: "---.-" is displayed.

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

Average fuel mileage

Displays the average fuel mileage since the selected tripmeter was reset.

The average fuel mileage will be calculated based on value displayed on the tripmeter (A or B) selected. Also, the average fuel mileage for tripmeter A will be displayed when the odometer is selected on INFO 1 display.

Display range: 0.0 to 300.0 mile/gal (L/100km or km/L)

- More than 300.0 L/100km: "---.-" is displayed.
- Initial display: "---.-" is displayed.
- When the tripmeter A or B is reset: "---.-" is displayed.

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

To reset the average fuel mileage: P.26

Instruments (Continued)

Fuel consumption

Displays the fuel consumption since the selected tripmeter was reset.

The fuel consumption will be calculated based on value displayed on the tripmeter (A or B) selected. Also, the fuel consumption for tripmeter A will be displayed when the odometer is selected on INFO 1 display.

Display range: 0.0 to 300.0 gal (gallon) or 0.0 to 300.0 L (liters)

• When the tripmeter A or B is reset: "---.-" is displayed.

When "---.-" is displayed except for the above-mentioned cases, go to your dealer for service. **To reset the fuel consumption: P.26**

Average speed

Displays the average speed since the selected tripmeter was reset.

The average speed will be calculated based on value displayed on the tripmeter (A or B) selected. Also, the average speed for tripmeter A will be displayed when the odometer is selected.

• Initial display: "---" is displayed.

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

To reset the average speed: P.26

Elapsed time

Displays the operating time since the selected tripmeter was reset.

The elapsed time will be calculated based on value displayed on the tripmeter (A or B) selected. Also, the elapsed time for tripmeter A will be displayed when the odometer is selected.

Display range: 00:00 to 99:59 (hours:minutes)

• The elapsed time return to 00:00 when the readout exceeds 99:59.

To reset the elapsed time: P.26

Reserve fuel consumption

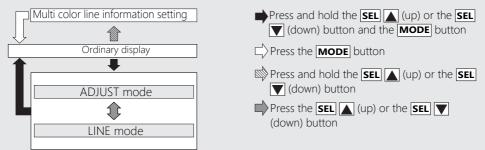
Displays the fuel consumption since the 1st (E) segment of the fuel gauge starts flashing. When the 1st (E) segment of the fuel gauge starts flashing, the current fuel mileage, average fuel mileage, fuel consumption, average speed or elapsed time switch to the reserve fuel consumption. You should refill the tank as soon as possible.

- Flashes from "0.0" gal or L.
- ▶ When the amount of consumed fuel is more than 0.55 US gal (2.1 L), the RES mark on the display blinks faster.

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

Instruments (Continued) Display Setting

Select the items you want to set from the following setting modes.



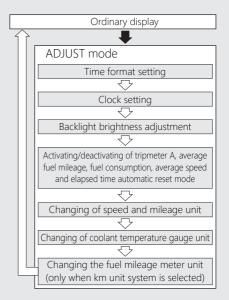
To set the ADJUST mode or LINE mode, press the **MODE** button.

If the ignition switch is turned to the OFF position or none of the $\boxed{\text{MODE}}$, $\boxed{\text{SEL}}$ (up) and $\boxed{\text{SEL}}$ (down) buttons are pressed for about 30 seconds, the control is automatically switched from the setting mode to the ordinary display.

ADJUST mode

Following items can be changed sequentially.

- Time format setting
- Clock setting
- Backlight brightness adjustment
- Activating/deactivating of tripmeter A, average fuel mileage, fuel consumption, average speed and elapsed time automatic reset mode
- Changing the speed and mileage unit
- Changing the coolant temperature gauge unit
- Changing the fuel mileage meter unit (only when km unit system is selected)
- Press and hold the SEL (up) or the SEL
 (down) button and the MODE button



Instruments (Continued)

If the ignition switch is turned to the OFF

position or none of the **MODE**, **SEL** (up) and **SEL** (down) buttons is pressed for about 30 seconds, the control is automatically switched from the setting

mode to the ordinary display.

If the buttons are not pressed for about 30 seconds, items in the process of being set will be discarded and only items where settings have been finalized will be applied. Only if the ignition switch is turned to the OFF position will items in the process of being set and those that are finalized be applied.

1 Time format setting:

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

1 Turn the ignition switch to the ON position.

► The current time format start flashing.

- 3 Press the SEL 🛕 (up) button or the SEL
 - (down) button to select "12hr" or "24hr".



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

2 Clock setting:

- Press the SEL ▲ (up) button or the SEL
 (down) button until the desired hour is displayed.
 - Press and hold the SEL (up) button or the SEL (down) button to advance the hour fast.



2 Press the **MODE** button. The minute digits start flashing.



- Press the SEL (up) button or the SEL
 (down) button until the desired minute is displayed.
 - Press and hold the SEL (up) button or the SEL (down) button to advance the minute fast.

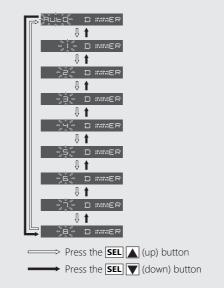


• Press the **MODE** button. The clock is set, and then the display moves to the backlight brightness adjustment.

Instruments (Continued) 3 Backlight brightness adjustment:

You can adjust the brightness to one of eight levels or "Auto" (Auto adjustment).

- Press the SEL (up) button or the SEL
 (down) button. The brightness is switched.
- Press the **MODE** button. The backlight is set, and then the display moves to the Activating/deactivating of tripmeter A, average fuel mileage, fuel consumption, average speed and elapsed time automatic reset mode.



4 Activating/deactivating of tripmeter A, average fuel mileage, fuel consumption, average speed and elapsed time automatic reset mode:

You can also activate or deactivate the automatic reset mode by refueling after 1st (E) segment of the fuel gauge starts flashing. Activation is initially set.

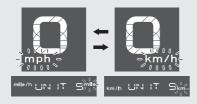
 Press the SEL (up) button or the SEL
 (down) button to select "On"(activate) or "OFF" (deactivate) in the automatic reset mode.



2 Press the **MODE** button. The activation/ deactivation of automatic reset mode is set, and then the display moves to the changing of the speed and mileage unit.

Instruments (Continued) 5 Changing the speed and mileage unit:

- Press the **SEL** (up) button or the **SEL** (down) button to select either "km/h" & "km" or "mph" & "mile".
 - ► The message of "UNIT SPEED" scrolls in INFO 1 display.



When selecting the "mph" & "mile".

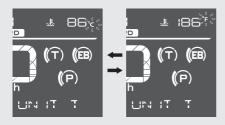
- Fuel mileage meter unit shows "mile/gal".
- Fuel consumption unit shows "gal".

When selecting the "km/h" & "km".

- Fuel mileage meter unit shows "km/L" or "L/100km".
- Fuel consumption unit shows "L".
- Press the MODE button. The speed and mileage unit is set, and then the display moves to the changing of the coolant temperature gauge unit.

6 Changing the coolant temperature gauge unit:

- Press the SEL ▲ (up) button or the SEL ▼ (down) button to select "°F" or "°C".
 - The message of "UNIT TEMP" scrolls in INFO 1 display.



2 When selecting the "mph" and "mile" for speed and mileage unit.

Press the **MODE** button. The coolant temperature gauge unit is set, and then the display will return to the ordinary display.

When selecting the "km/h" and "km" for speed and mileage unit.

Press the **MODE** button. The coolant temperature gauge unit is set, and then the display moves to the changing of the fuel mileage meter unit.

Instruments (Continued)

7 Changing the fuel mileage meter unit: 1 Press the SEL (up) button or the SEL V

(down) button to select "L/100km" or "km/L".

The message of "UNIT FUEL COM" scrolls in INFO 1 display.



Press the MODE button. The fuel mileage meter unit is set, and then the display will return to the ordinary display.

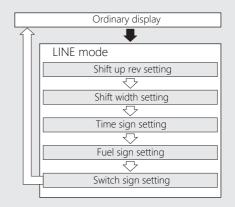
LINE mode

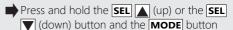
Following items can be changed sequentially.

- Shift up rev setting
- Shift width setting
- Time sign setting
- Fuel sign setting
- Switch sign setting



If the time sign, fuel sign and switch sign setting is on, the multi color line lights or blinks.





Press the **MODE** button

Instruments (Continued) 1 Shift up rev setting

You can adjust the shift up point. Turn the ignition switch to the ON position.

- 2 Select the LINE mode. P.32
 - The tachometer bar and RPM value (x 100) in INFO 2 display start flashing, and the message of "SHIFT REV" scrolls in INFO 1 display.

— Tachometer bar

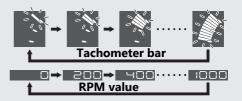
INFO 2 display INFO 1 display

- Seach time the SEL ▲ (up) button or the SEL ▼ (down) button is pressed, tachometer bar and RPM value in INFO 2 display increase or decrease by 200 r/min (rpm) (one segment). When the set value exceeds the allowable range, the set value automatically returns to 5,000 r/min (rpm) or 11,400 r/min (rpm).
 - Press and hold the SEL (up) button or the SEL (down) button to advance the RPM fast.
 - Available setting range: 5,000 to 11,400 r/min (rpm)
- Press the **MODE** button. The shift up rev is set, and then the display moves to the shift width setting.

2 Shift width setting

You can set the interval RPM from flashing point to shift up point of the multi color line. The tachometer bar and RPM value in INFO 2 display start flashing, and the message of "SHIFT WIDTH" scrolls in INFO 1 display.

- Each time the SEL ▲ (up) button or the SEL ▼ (down) button is pressed, tachometer bar and RPM value in INFO 2 display increase or decrease by 200 r/min (rpm). When the set value exceeds the allowable range, the set value automatically returns to 0 r/min (rpm) or 1,000 r/min (rpm).
 - Press and hold the SEL (up) button or the SEL (down) button to advance the RPM fast.
 - Available setting range: 0 to 1,000 r/min (rpm) (10 segments)
 - ► Initial setting: 600 r/min (rpm)



Instruments (Continued)

Example: When shift up rev setting is 10,000 r/min (rpm) and shift width setting is 200 r/min (rpm).

When the multi color line information is set to Rev up linkage mode (white color mode)

P.48

multi color line	r/min (rpm)
Blinks	9,600
Blinks fast	9,800
Blinks faster	10,000

When the multi color line information is set to Rev up linkage mode (color mode)

►P.49

multi color line	r/min (rpm)
Yellow	9,600
Amber	9,800
Pink	10,000

If the shift width setting is 0 r/min (rpm), the multi color line starts to flash or lights in Pink (depends on Rev up linkage mode) when reaching to the setting value of shift up rev.

Press the **MODE** button. The shift width is set, and then the display moves to the time sign setting.

3 Time sign setting

You can display the time with a multi color line.

When the minutes of the clock change from 59 to 00, multi color line will blink three times when the setting is on.

- Press the **SEL** (up) button or the **SEL**
 - (down) button to select "On" or "OFF".
 - The message of "TIME SIGN" scrolls in INFO 1 display.



Press the **MODE** button. The time sign is set, and then the display moves to the fuel sign setting.

4 Fuel sign setting

You can set the fuel sign with a multi color line.

When the 1st (E) segment of the fuel gauge starts flashing, the line will light in amber for 15 seconds when the setting is on

15 seconds when the setting is on.

- Press the SEL ▲ (up) button or the SEL
 (down) button to select "On" or "OFF"
 - The message of "FUEL SIGN" scrolls in INFO 1 display.

2 Press the **MODE** button. The fuel sign is set, and then the display moves to the switch sign setting.

Instruments (Continued) 5 Switch sign setting

You can set the switch sign with a multi color line.

When the **SEL** (up) button, **SEL** (down) button, **MODE** button or Torque Control switch is pressed, the multi color line will light briefly when the setting is on.

Press the SEL ▲ (up) button or the SEL
 (down) button to select "On" or "OFF".

The message of "SW SIGN" scrolls in INFO 1 display.



2 Press the **MODE** button. The switch sign is set, and then the display will return to the ordinary display.

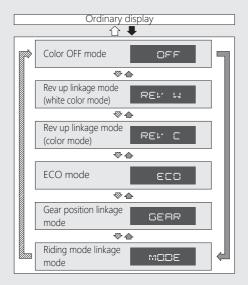
Multi color line information setting

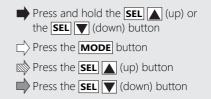
You can show the riding conditions by setting the multi color line information.

One of the following items can be selected in this setting.

- Color OFF mode
- Rev up linkage mode (white color mode)
- Rev up linkage mode (color mode)
- ECO mode
- Gear position linkage mode
- Riding mode linkage mode







Instruments (Continued)

Order of priority for the color:

Rev up linkage mode

>

ECO mode Gear position linkage mode Riding mode linkage mode

Color OFF mode

All color mode is deactivated. The multi color line will light if the time sign setting, fuel sign setting or switch sign setting is On, even when the color OFF mode is selected.

Rev up linkage mode (white color mode)

When the number of engine revolution reaches the shift up point you have set, the color of the multi color line blinks in white. This informs you of the indication to shift up.

Example: When shift up rev setting is 10,000 r/min (rpm) and shift width setting is 200 r/min (rpm).

multi color line	r/min (rpm)	
Blinks	9,600	
Blinks fast	9,800	
Blinks faster	10,000	

To set the shift up rev setting: P.42 / To set the shift width setting: P.43

When the number of engine revolution reaches shift up point you have set, the color of the multi color line will change. This informs you of the indication to shift up.

Example: When shift up rev setting is 10,000 r/min (rpm) and shift width setting is 200 r/min (rpm).

multi color line	r/min (rpm)	
Yellow	9,600	
Amber	9,800	
Pink	10,000	

To set the shift up rev setting: P.42 / To set the shift width setting: P.43

ECO mode

Depending on fuel consumption, the multi color line will change.

If fuel consumption is improved, the color of the multi color line will change to Aqua.

Further, when fuel consumption is improved, it will turn Green.

▶ The ECO mode includes Rev up linkage mode (color mode).

Instruments (Continued)

Gear position linkage mode

Depending on the gear position, the multi color line changes as follows.

Gear position	1st	2nd	3rd	4th	5th	6th
Color	Yellow	Pink	Violet	Blue	Aqua	Green

The gear position linkage mode includes Rev up linkage mode (white color mode).

Riding mode linkage mode

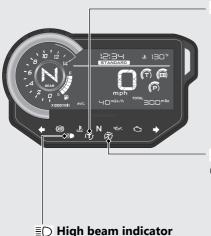
Depending on the riding mode, the multi color line changes as follows.

Riding mode	Sport	STANDARD	RAIN	USER
Color	Pink	Violet	Aqua	Blue

The riding mode linkage mode includes Rev up linkage mode (white color mode).

Indicators

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



Torque Control indicator

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

If it comes on while riding: P.126

Torque Control OFF indicator

Comes on when the Torque Control is turned off.

Indicators (Continued)



(B) ABS (Anti-lock Brake System) indicator

Comes on when the ignition switch is turned to the ON position. Goes off when your speed reaches approximately 6 mph (10 km/h).

If it comes on while riding: P.125

🙏 High coolant temperature indicator

Comes on briefly when the ignition switch is turned to the ON position.

If it comes on while riding: P.123

Low oil pressure indicator

Comes on when the ignition switch is turned to the ON position. Goes off when the engine starts.

If it comes on while engine is running: P.124

Left turn signal indicator 12:34 # 1301 (T) (B) (P) 300""

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

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

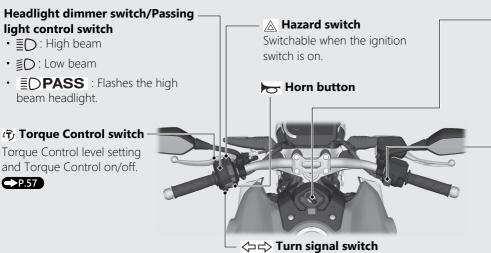
If it comes on while engine is running:

⇒ Right turn signal indicator

Neutral indicator

Comes on when the transmission is in Neutral.

Switches



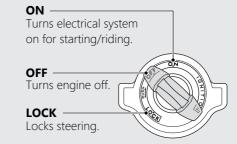
▶ Pressing the switch turns the turn signal off.

Operation Guide

Ignition Switch

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

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



Engine stop switch/ ③ Start button

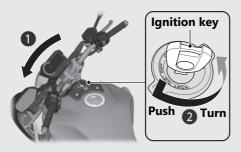
Should normally remain in the \bigcap (Run) position. In an emergency, switch to the \bigotimes (Stop) position

to stop the engine.

Switches (Continued) Steering Lock

Lock the steering when parking to help prevent theft.

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



Locking

1 Turn the handlebar all the way to the left.

2 Push the key down, and turn the ignition switch to the LOCK position.

► Jiggle the handlebar if the lock is difficult to engage.

3 Remove the key.

Unlocking

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

Honda selectable torque control

Torque Control level (engine power control) can be selected or turned on/off.

- The Torque Control setting can be changed or turned off only when the riding mode is USER. CPP59
- ► Do not operate the Torque Control switch while riding.

Stop the motorcycle first and the turn off or on and select the desired level.

The Torque Control setting cannot be changed or turned off when the system is activated (Torque Control indicator flashing).

- Each time the ignition switch is turned to the ON position, the Torque Control level will automatically be set to level it was set to. However, if the level was set to off, it will become Low.
- When the Torque Control is turned from the off position to the on position, it will automatically be set to Low.

Honda selectable torque control (Continued)

Torque Control level setting

The Torque Control level setting can be done only when the riding mode is USER. **P.59** The level can be selected by pressing the Torque Control switch.

► High is the maximum Torque Control level

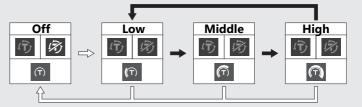
► Low is the minimum Torque Control level

Torque Control on and off

Torque Control can be turned on and off by pressing and holding the Torque Control switch.

Torque Control switch





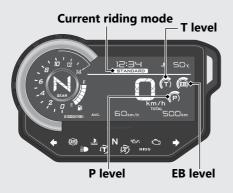
-----> Press the Torque Control switch

Press and hold the Torque Control switch

Riding mode

You can change the riding mode. The riding mode consists of the following parameters.

P: Engine output level T: Torque control level EB: Engine brake level



Riding mode has four modes. There are four available modes:

SPORT, STANDARD, RAIN and USER.

SPORT, STANDARD and RAIN

- **SPORT**: This mode is suitable for sports riding. You can feel the highest engine response.
- STANDARD: Standard, all-round mode for a variety of situations.
- RAIN: Good for stable riding on slippery surfaces such as rainy conditions.
 These levels cannot be changed.

USER

Each level can be changed.

Riding mode (Continued)

Initial setting

	P level	T level	EB level
	High	Low	Low
Sport		(T)	(EB)
	Middle	Middle	Middle
STANDARD		(T)	(EB)
	Low	High	Middle
RAIN	(P)	$\overline{(7)}$	(EB)
	Low*1	Low*1, 2	Low*1
USER	(P)	(T)	(EB)

Notes:

*1: Level can be changed.

*2 : If off is selected, the level will change to Low the next time the ignition is turned on.

P level (Engine output level)

P level has three setting levels. Available setting range: Low to High



- High has the most power.
- ► Low has the least power.

T level (Torque control level)

T level has three setting levels or can be turned off.

Available setting range: Low to High, or Off



Low is the minimum Torque Control level
 High is the maximum Torque Control level.

► Off deactivates the Torque Control.

EB level (Engine brake level)

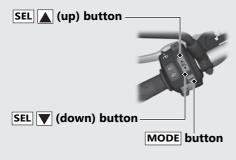
EB level has three setting levels. Available setting range: Low to High

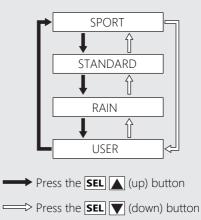


- ► High has the strongest engine braking effect.
- ▶ Low has the weakest engine braking effect.

Riding mode (Continued) Selecting the riding mode

Stop the motorcycle.
 Select the riding mode display. P.23
 Press the SEL (up) or SEL (down) button with the throttle fully closed.





Setting the riding mode

You can change the P, EB and T levels on the USER of the riding mode.

- 1 Stop the motorcycle.
- 2 Select the USER in the riding mode .

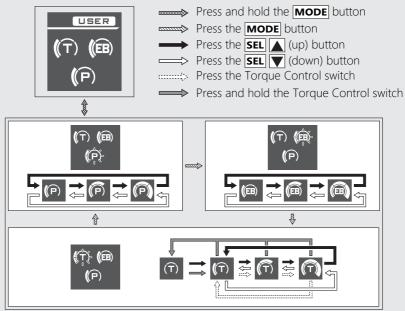
►P.62

- Press and hold the MODE button until P display is flashed.
- Press the SEL ▲ (up) or ▼ (down) button until the desired level is displayed.
- S Press the **MODE** button. The P level is set, and EB display is flashed.
- 6 Press the SEL ▲ (up) or ▼ (down) button until the desired level is displayed.
- Press the MODE button. The EB level is set, and T display is flashed.

- 8 Press the SEL ▲ (up) or ▼ (down) button or torque control switch until the desired level is displayed.
 - T level can be changed to off by pressing and holding the torque control switch.
 - T level can be changed from Off to Low by pressing and holding the torque control switch or pressing the SEL (up) button.
- Press and hold the **MODE** button until ordinary display is displayed

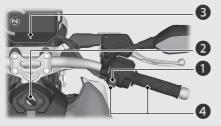
You can stop setting the riding modes at any time by pressing and holding the **MODE** button.

Riding mode (Continued)



Starting the Engine

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



NOTICE

- If the engine does not start within 5 seconds, turn the ignition switch to the OFF position and wait 10 seconds before trying to start the engine again to recover battery voltage.
- Extended fast idling and revving the engine can damage the engine, and the exhaust system.
- Snapping the throttle or fast idling for more than about 5 minutes may cause exhaust pipe discoloration.

- 1 Make sure the engine stop switch is in the O (Run) position.
- **2** Turn the ignition switch to the ON position.
- 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.
- Press the start button with the throttle completely closed.
 - If you cannot start the engine, open the throttle slightly (about 1/8 in (3 mm), without freeplay) and press the start button.

About 1/8 in (3 mm), without freeplay



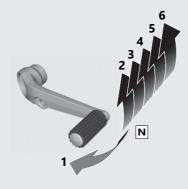
Starting the Engine (Continued) If the engine does not start:

- ①Open 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.122

Shifting Gears

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



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

Recommended Shift Points

Shifting Up

From 1st to 2nd	12 mph (20 km/h)
From 2nd to 3rd	19 mph (30 km/h)
From 3rd to 4th	25 mph (40 km/h)
From 4th to 5th	31 mph (50 km/h)
From 5th to 6th	37 mph (60 km/h)

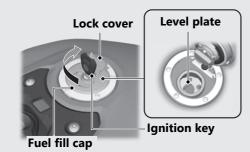
Shifting Down

From 6th to 5th	28 mph (45 km/h)
From 5th to 4th	22 mph (35 km/h)
From 4th to 3rd	16 mph (25 km/h)

NOTICE

Improper shifting can damage the engine, transmission, and drive train. Also, coasting or towing the motorcycle for long distances with the engine off can damage the transmission.

Refueling



Do not fill with fuel above the level plate. **Fuel type:** Unleaded gasoline only **Recommended fuel octane number:** Pump Octane Number (PON) 86 or higher. **Tank capacity:** 4.28 US gal (16.2 L)

Refueling and Fuel Guidelines P.12

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

After refueling, push the fuel fill cap closed until it locks.

- 2 Remove the key and close the lock cover.
 - The key cannot be removed if the cap is not locked.

AWARNING

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

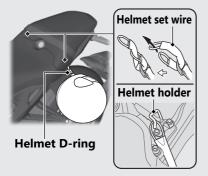
- Stop the engine, and keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Wipe up spills immediately.

Storage Equipment

Helmet Holders

The helmet holders are located under the rear seat.

A helmet set wire is in the tool kit.



Use the helmet holder only when parked.

Removing the Rear Seat -P.95

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.

Tool Kit

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

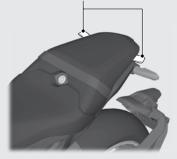


Storage Equipment (Continued) Document Bag and Luggage Tie-down Hooks

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



Luggage tie-down hooks



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

Removing the rear seat **P**.95

Maintenance

Please read "Importance of Maintenance" and "Maintenance Fundamentals" carefully before attempting any maintenance. Refer to "Specifications" for service data. An optional larger tool kit may be available. Check with your Honda dealer's parts department.

Importance of Maintenance	 P. 72
Maintenance Schedule	 P. 74
Maintenance Record	
Maintenance Fundamentals	P. 78
Removing & Installing Body Componen	ts P. 93
Battery	P. 93
Front Seat	P. 94
Rear Seat	P. 95
Engine Oil	P. 96
Coolant	
Brakes	P. 102
Side Stand	P. 105
Drive Chain	
Clutch	P. 109

Throttle	 Р. 112
Crankcase Breather	P. 113
Other Adjustments	 P. 114
Adjusting the Headlight Aim	
Adjusting the Brake Lever	P. 115
Adjusting the Front Suspension	
Adjusting the Rear Suspension	

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. 74

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. For information about the exhaust emission and noise emission requirements of the U.S. Environmental Protection Agency (EPA), the California Air Resources Board (CARB), and the Environment and Climate Change Canada (ECCC). ➡ P. 152

USA

Maintenance, replacement or repair of the emission control devices and systems may be performed by any motorcycle repair establishment or individual using parts that are "certified" to EPA standards.

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 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.

Make sure whoever performs the scheduled maintenance completes the maintenance record. Retain all service documents. If you sell your motorcycle, these service documents should be transferred with the motorcycle to the new owner.

_							Frequ	ency *1				
	Items		× 1,000 mi	0.6	4	8	12	16	20	24	Regular	Refer to
	-		× 1,000 km	1.0	6.4	12.8	19.2	25.6	32.0	38.4	Replace	page
	Fuel Line	1				1		1		1		-
	Throttle Operation	*										112
	Air Cleaner *2						ß			ß		92
ms	Crankcase Breather *3				С	С	С	С	С	С		113
Ite	Spark Plug		Every 16,000 mi (25,600 km): 🎹, Every 32,000 mi (51,200 km): 🚯							-		
Related	Valve Clearance	\checkmark										-
Sela	Engine Oil			ß		ß		ß		ß	1 Year	96
				ß				ß				98
issio	Engine Oil Filter Engine Idle Speed Radiator Coolant ^{*5}	1										-
Em	Radiator Coolant *5										3 Years	100
	Cooling System	\checkmark										-
	Secondary Air Supply System	1										-
	Evaporative Emission Control System *4	*										-

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 Service Manual (> P. 158).
- 💥 : Technical. In the interest of safety, have your motorcycle serviced by your dealer.

Maintenance Legend

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

R : Replace

L : Lubricate

C : Clean

						Frequ	ency *1				
Items	× 1,000 mi	0.6	4	8	12	16	20	24	Regular Replace	Refer to page	
		× 1,000 km	1.0	6.4	12.8	19.2	25.6	32.0			38.4
Drive Chain			Ever	y 600 m	ni (1,000) km):	, L				106
Brake Fluid *5										2 Years	102
Brake Pads Wear											103
											78
Brake Light Switch Headlight Aim									1		104
Headlight Aim											114
Clutch System											109
Clutch System Side Stand											105
Suspension	**										116
Nuts, Bolts, Fasteners	*										-
Wheels/Tires	*										88
Steering Head Bearings	*										-

Notes:

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

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

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

*4 : 50 STATE (meets California)

*5 : Replacement requires mechanical skill.

Maintenance Record

Distance	Odometer	Date	Performed By:	Notes
600 miles (1,000 km)				
4,000 miles (6,400 km)				
8,000 miles (12,800 km)				
12,000 miles (19,200 km)				
16,000 miles (25,600 km)				
20,000 miles (32,000 km)				
24,000 miles (38,400 km)				
28,000 miles (44,800 km)				
32,000 miles (51,200 km)				
36,000 miles (57,600 km)				
40,000 miles (64,000 km)				
44,000 miles (70,400 km)				
48,000 miles (76,800 km)				
52,000 miles (83,200 km)				
56,000 miles (89,600 km)				
60,000 miles (96,000 km)				
64,000 miles (102,400 km)				
68,000 miles (108,800 km)				

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 preride inspection is a must, not only for safety, but because having a breakdown, or even a flat tire, can be a major inconvenience.

Check the following items before you get on your motorcycle:

- Tire tread wear and air pressures are within limits. ≥ P. 88
- Lights, horn, and turn signals operate normally.
- Check the condition of the drive chain. Adjust slack and lubricate as needed. ■ P. 85 Check the following items if you are carrying a passenger or cargo:
- Combined weight is within load limits. ▶ P. 164
- Cargo is secured properly.

● Suspension is adjusted to suit load. ≥ P. 116, ≥ P. 119

Check the following items after you get on your motorcycle:

- Throttle action moves smoothly without binding. ► P. 112
- Brake lever and pedal operate normally.
- Check the fuel level and refuel when needed. ► P. 12, ► P. 68
- Engine stop switch functions properly. ▶ P. 54

Check the following items at regular intervals:

- Oil level is between the upper and lower level marks. ➡ P. 96
- Brake fluid level is

Front: between the UPPER and LWR level marks.

€ P. 102

Rear: between the UPPER and LOWER level marks. ▶ P. 102

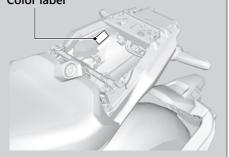
- Engine coolant level is between the UPPER and LOWER level marks. ► P. 100
- Side stand functions properly. ≥ P. 105

Periodic Checks					
You should also perform other periodic maintenance checks at least once a month regardless of how often you ride, or more often if you ride frequently.					
Also, check the odometer rea Maintenance Schedule and p maintenance that is due. ➡ P.	erform all				
Tires and wheels	Check the air pressure (≥ P. 88), examine tread for wear and damage (≥ P. 88), and check the wheels for damage.				
Fluid levels	Check the engine oil level (\blacktriangleright P. 96), engine coolant level (\triangleright P. 100), and brake fluid level (\triangleright P. 102).				
Lights	Check that the headlight, brake light, taillight, turn signals and license plate light are working properly.				
Controls	Check the freeplay of the clutch lever (\blacktriangleright P. 109).				
Drive chain	Check the slack (\triangleright P. 106), adjust the slack (\triangleright P. 107), and lubricate (\triangleright P. 86) as needed.				
Fuses	Check that you have a full supply of spare fuses.				
Nuts & bolts	Check the major nuts and bolts, and tighten as needed.				

Always use Honda Genuine Parts or their equivalents to ensure reliability and safety. When ordering colored components, specify the model name, color, and code mentioned on the color label.

The color label is attached to the rear fender under the rear seat. ▶ P. 95

Color label



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

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

What to do in an emergency

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

- Electrolyte splashes into your eyes:
 - Wash your eyes repeatedly with cool water for at least 15 minutes. Using water under pressure can damage your eyes.

- Electrolyte splashes onto your skin:
 - Remove affected clothing and wash your skin thoroughly using water.
- Electrolyte splashes into your mouth:
 - Rinse mouth thoroughly with water, and do not swallow.

AWARNING

The battery gives off explosive hydrogen gas during normal operation.

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

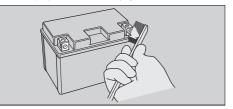
Wear protective clothing and a face shield, or have a skilled mechanic do the battery servicing.

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds.

Wash your hands after handling.

Cleaning the Battery Terminals

- 1. Remove the battery. ₽ P. 93
- 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.

Charging

If you use electrical accessories that drain the battery or you do not ride frequently, we recommend that you charge the battery every 30 days using a charger designed specifically for your Honda, which can be purchased from your dealer. Read the information that came with your battery charger and follow the instructions on the battery. Avoid using an automobile-type battery charger, as these can overheat a motorcycle battery and cause permanent damage.

Make sure the ignition switch is in the OFF position before charging the battery.

NOTICE

Improper charging can damage the battery. If you can't charge the battery or it appears unable to hold a charge, contact your dealer.

NOTICE

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

NOTICE

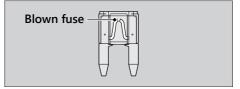
Installing non-Honda electrical accessories can overload the electrical system, discharging the battery and possibly damaging the system.

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. 138

Inspecting and Replacing Fuses

Turn the ignition switch to the OFF position to remove and inspect fuses. If a fuse is blown, replace with a fuse of the same rating. For fuse ratings, see "Specifications." ▶ P. 166



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.

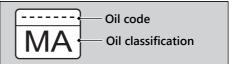
Selecting the Engine Oil

For recommended engine oil, see "Specifications." ► P. 165

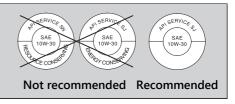
If you use non-Honda engine oil, check the label to make sure that the oil satisfies all of the following standards:

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

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



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



Brake Fluid

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

NOTICE

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

Recommended brake fluid:

Honda DOT 4 Brake Fluid or equivalent

AWARNING

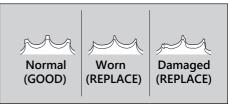
Clean filler cap before removing. Use only DOT 4 fluid from a sealed container.

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. 106

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

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



NOTICE

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

Cleaning and Lubricating

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

Recommended lubricant:

Pro Honda HP Chain Lube or equivalent



Do not use a steam cleaner, a high pressure cleaner, a wire brush, volatile solvent such as gasoline and benzene, abrasive cleaner, chain cleaner or lubricant NOT designed specifically for O-ring chains as these can damage the rubber O-ring seals. Avoid getting lubricant on the brakes or tires. Avoid applying excess chain lubricant to prevent spray onto your clothes and the motorcycle.

Recommended Coolant

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

Concentration:

50% antifreeze and 50% distilled water

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

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

NOTICE

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

Crankcase Breathers

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.

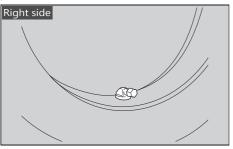
If the drain tube overflows, the air filter may become contaminated with engine oil causing poor engine performance. ₽ P. 113

Tires (Inspecting/Replacing)

Checking the Air Pressure

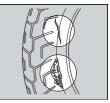
Visually inspect your tires and use an air pressure gauge to measure the air pressure at least once a month or any time you think the tires look low. Always check air pressure when your tires are cold.

Even if the direction of the valve stem is changed, do not return it to the original position. Have your motorcycle inspected by your dealer.



Inspecting for Damage

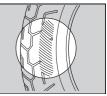
Inspect the tires for cuts, slits, or cracks that exposes fabric or cords, or nails or other foreign objects embedded in the side of the tire or the tread.



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

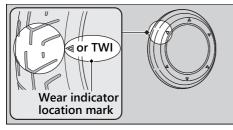
Inspecting for Abnormal Wear

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



Inspecting Tread Depth

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



AWARNING

Riding on tires 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 tire inflation and maintenance.

Have your tires replaced by your dealer. For recommended tires, air pressure and minimum tread depth, see "Specifications." ▶ P 165

Follow these guidelines whenever you replace tires

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

AWARNING

Installing improper tires 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 tires recommended in this owner's manual.

Tire Service Life

The service life of your tires is dependent on many factors, including, but not limited to, riding habits, road conditions, vehicle loading, tire air pressure, maintenance history, speed, and environmental conditions (even when the tires are not in use).

In addition to your regular inspections and maintenance, it is recommended that you have annual inspections performed once the tires reach 5 years old. It is also recommended that all tires be removed from service after 10 years from the date of manufacture, regardless of their condition or state of wear.

The last four digits of the TIN (tire identification number) indicate the date of manufacture.

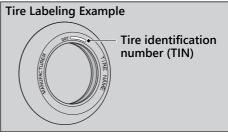
Tire Identification Number (TIN)

The tire identification number (TIN) is a group of numbers and letters located on the sidewall of the tire.



DOT XXXX XXXX 22 09

- DOT: This indicates that the tire meets all requirements of the U.S. Department of Transportation.
- $\widehat{1}$ XXXX: Factory code
- $\widehat{2}$ XXXX: Tire type code
- 3 22 09: Date of manufacture (week & year). Example: week 22 in year 09.



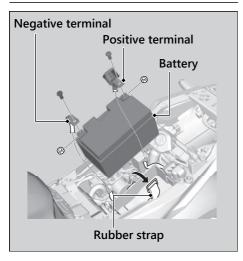
Maintenance Fundamentals

Air Cleaner

This motorcycle is equipped with a viscous type air cleaner element which cannot be cleaned with compressed air or otherwise without degrading its performance.

If the filter becomes dirty, replace it with a new one.

Battery



Removal

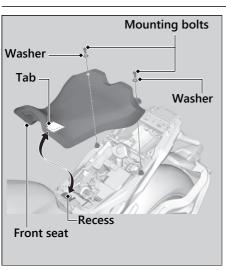
Make sure the ignition switch is in the OFF position.

- 1. Remove the front seat. ₽ P. 94
- 2. Unhook the rubber strap from right side.
- 3. Disconnect the negative ⊖ terminal from the battery.
- **4.** Disconnect the positive ⊕ terminal from the battery.
- **5.** Remove the battery taking care not to drop the terminal nuts.

Installation

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

Make sure the clock information is correct after the battery is reconnected. ⊇ P. 35 For proper handling of the battery, see "Maintenance Fundamentals." ⊇ P. 81 "Battery Goes Dead." ⊇ P. 135



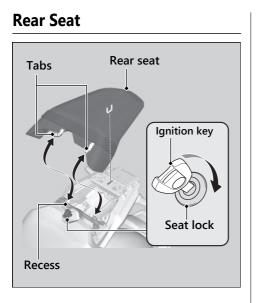
Front Seat

Removal

- 1. Remove the rear seat. ≥ P. 95
- 2. Remove the mounting bolts and washers, and then pull the front seat back and up.

Installation

- **1.** Install the front seat while inserting the tab into the recess.
- 2. Install the washers and mounting bolts.
- Tighten the mounting bolts securely. Make sure that the seat is locked securely in position by pulling it up lightly.



Removal

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

Installation

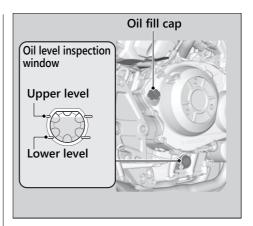
- 1. Insert the tabs into the recess.
- 2. Push down on the rear of the rear seat.
 - Make sure that the seat is locked securely in position by pulling it up lightly.

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

Engine Oil

Checking the Engine Oil

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



Adding Engine Oil

If the engine oil is below or near the lower level mark, add the recommended engine oil. ₽ P. 84, ₽ P. 165

- Remove the oil fill cap. 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.

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. 84

Changing Engine Oil & Filter

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

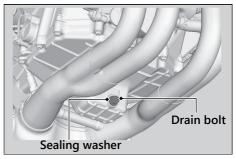
Use a new Honda Genuine oil filter or equivalent specified for your model.

NOTICE

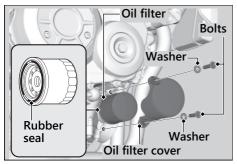
Using the wrong oil filter can result in serious damage to the engine.

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

- 4. Place a drain pan under the drain bolt.
- **5.** Remove the oil fill cap, drain bolt, and sealing washer to drain the oil.



- **6.** Remove the oil filter cover by removing the bolts and washers.
- 7. Remove the oil filter with a filter wrench and let the remaining oil drain out. Make sure the prior seal is not stuck to the engine.
 - Discard the oil and oil filter at an approved recycling center.



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

9. Install the new oil filter and tighten.

Torque: 19 lbf·ft (26 N·m, 2.7 kgf·m)

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

Torque: 22 lbf·ft (30 N·m, 3.1 kgf·m)

Fill the crankcase with the recommended oil
 P. 84, ⇒ P. 165) and install the oil fill cap.

Required oil When changing oil & engine oil filter: 3.2 US qt (3.0 L) When changing oil only: 2.9 US qt (2.7 L)

- 12. Check the oil level. ₽ P. 96
- **13.**Check that there are no oil leaks.
- **14.** Install the parts in the reverse order of removal.

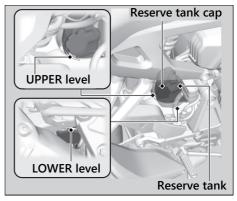
Coolant

Checking the Coolant

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

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

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



Adding Coolant

If the coolant level is below the LOWER level mark, add the recommended coolant (2 P. 87) until the level reaches the UPPER level mark.

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

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

AWARNING

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

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

Changing Coolant

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

Brakes

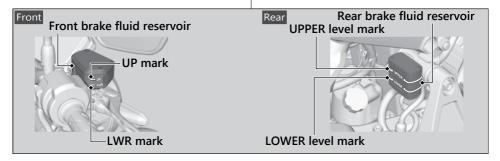
level marks

Checking Brake Fluid

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

between the LOWER level and UPPER

If the brake fluid level in either reservoir is below the LWR mark 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

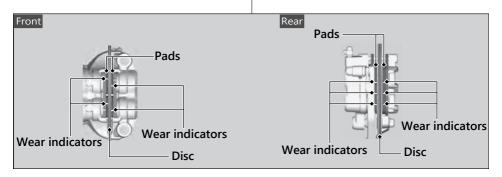
Check the condition of the brake pad wear indicators.

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

- **1. Front** Inspect the brake pads from in front of the brake caliper.
 - Always inspect both left and right brake calipers.
- 2. Rear Inspect the brake pads from the right side of the rear tire.

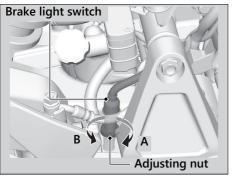
If necessary have the pads replaced by your dealer.

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

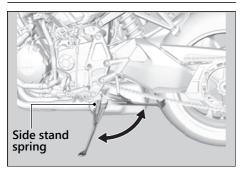


Adjusting the Brake Light Switch

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



Checking the Side Stand



- 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, shift the transmission to Neutral, and raise the side stand.
- **4.** Start the engine, pull the clutch lever in, and shift the transmission into gear.
- 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.

Inspecting the Drive Chain Slack

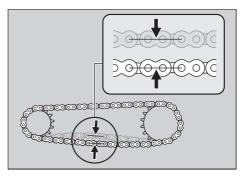
Check the drive chain slack at several points along the chain. If the slack is not constant at all points, some links may be kinked and binding.

- Have the chain inspected by your dealer.
- **1.** Shift the transmission to Neutral. Stop the engine.
- 2. Place your motorcycle on its side stand on a firm, level surface.
- Check the slack in the lower half of the drive chain midway between the sprockets.

Drive chain slack:

1 9/16 - 1 15/16 in (40 - 50 mm)

Do not ride your motorcycle if the slack exceeds 1 15/16 in (50 mm).



- **4.** Roll the motorcycle forward and check that the chain moves smoothly.
- 5. Inspect the sprockets. ₽ P. 85
- 6. Clean and lubricate the drive chain.▶ P. 86

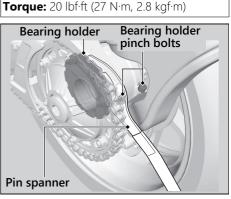
Adjusting the Drive Chain Slack

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

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

- **1.** Shift the transmission to Neutral. Stop the engine.
- 2. Place your motorcycle on its side stand on a firm, level surface.
- **3.** Support your motorcycle securely and raise the rear wheel off the ground using a hoist.
- 4. Loosen the bearing holder pinch bolts.
- **5.** Turn the bearing holder clockwise or counterclockwise to obtain the proper chain slack with the pin spanner.
- 6. Check the drive chain slack. ≥ P. 106

7. Tighten the bearing holder pinch bolts to the specified torque.



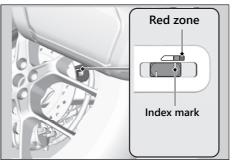
8. Recheck drive chain slack. If a torque wrench was not used for installation, see your dealer as soon as possible to verify proper assembly. Improper assembly may lead to loss of braking capacity.

Checking the Drive Chain Wear

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

Chain: RK525ROZ7

If necessary have the drive chain replaced by your dealer.



Clutch

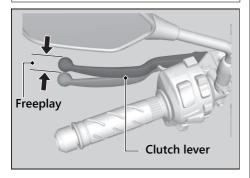
Checking the Clutch

Checking the Clutch Lever Freeplay

Check the clutch lever freeplay.

Freeplay at the clutch lever:

3/8 - 13/16 in (10 - 20 mm)



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

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

NOTICE

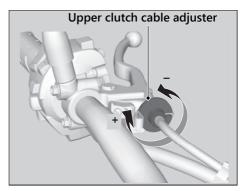
Improper freeplay adjustment can cause premature clutch wear.

Adjusting the Clutch Lever Freeplay

Upper Adjustment

Attempt adjustment with the upper clutch cable adjuster first.

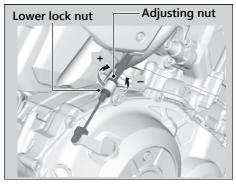
Turn the clutch cable adjuster until the freeplay is 3/8 - 13/16 in (10 - 20 mm).



Lower Adjustment

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

- 1. Turn the upper clutch cable adjuster all the way in (to provide maximum freeplay).
- 2. Loosen the lower lock nut.
- **3.** Turn the adjusting nut until the clutch lever freeplay is 3/8 13/16 in (10 20 mm).
- **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.

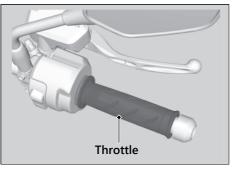


If proper adjustment cannot be obtained or the clutch does not work correctly, see your dealer.

Throttle

Checking the Throttle

With the engine off, check that the throttle rotates smoothly from fully closed to fully open. If the throttle does not move smoothly, close automatically, have the motorcycle inspected by your dealer.



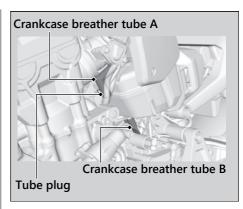
Cleaning the Crankcase Breather

Crankcase breather tube A

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

Crankcase breather tube B

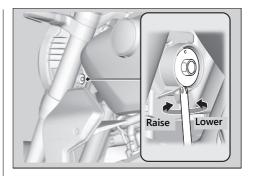
- 1. Place a suitable container under the crankcase breather tube.
- **2.** Remove the crankcase breather tube and drain deposits.
- 3. Reinstall the crankcase breather tube.



Maintenance

Adjusting the Headlight Aim

You can adjust vertical aim of the headlight for proper alignment. Turn the pinion in or out as necessary using a Phillips screwdriver. Obey local laws and regulations.



Adjusting the Brake Lever

You can adjust the distance between the tip of the brake lever and handle grip.

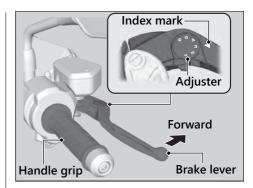
Adjustment method

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

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

NOTICE

Do not turn the adjuster beyond its natural limit.

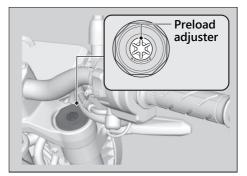


Adjusting the Front Suspension

Spring Preload

You can adjust the spring preload by the adjuster to suit the load or the road surface. Turn the adjuster using a 6 mm Hex wrench. The spring preload adjuster has 20 turns from the full soft position.

Turn clockwise to increase spring preload (hard), or turn counterclockwise to decrease spring preload (soft). The standard position is the 7 turns from the full soft position.



NOTICE

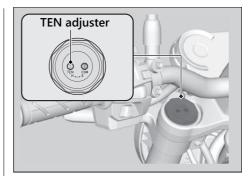
Do not turn the adjuster beyond its limits.

Rebound Damping

You can adjust the rebound damping by the TEN adjuster to suit the load or the road surface.

The TEN adjuster has 5 1/2 turns from the full hard position.

Turn clockwise to increase rebound damping (hard), or turn counterclockwise to decrease rebound damping (soft). The standard position is 5 turns from the full hard position.



NOTICE

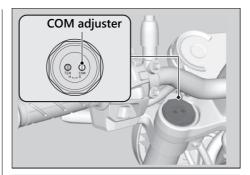
Do not turn the adjuster beyond its limits.

Compression Damping

You can adjust the compression damping by the COM adjuster to suit the load or the road surface.

The COM adjuster has 7 turns from the full hard position.

Turn clockwise to increase compression damping (hard), or turn counterclockwise to decrease compression damping (soft). The standard position is 5 3/4 turns from the full hard position.



NOTICE

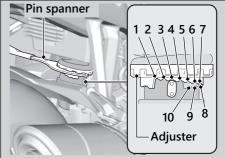
Do not turn the adjuster beyond its limits.

Adjusting the Rear Suspension

Adjusting the suspension requires a pin spanner. We recommend that you have your motorcycle serviced by your dealer.

Spring Preload

You can adjust the spring preload by the adjuster to suit the load or the road surface. The preload adjuster has 10 positions. Positions 1 to 2 are for a decrease spring preload (soft), or turn the position 4 to 10 increase spring preload (hard). The standard position is 3.



Maintenance

NOTICE

Do not turn the adjuster beyond its limits. Attempting to adjust directly from 1 to 10 or 10 to 1 may damage the shock absorber.

NOTICE

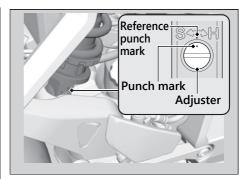
The rear shock absorber damper unit contains high pressure nitrogen gas. Do not attempt to disassemble, service, or improperly dispose of the damper. See your dealer.

Rebound Damping

You can adjust the rebound damping by the adjuster to suit the load or the road surface. The adjuster has 3 turns from the full hard position.

Turn clockwise to increase rebound damping (hard), or turn counterclockwise to decrease rebound damping (soft).

The standard position is 1 3/4 turns from the full hard position so that the punch mark on the adjuster aligns with the reference punch mark.



NOTICE

Do not turn the adjuster beyond its limits.

NOTICE

The rear shock absorber damper unit contains high pressure nitrogen gas. Do not attempt to disassemble, service, or improperly dispose of the damper. See your dealer.

Troubleshooting

Engine Will Not Start	 Р.	122
Overheating (High coolant temperature		
indicator is on)	P.	123
Warning Indicators On or Flashing	P.	124
Low Oil Pressure Indicator	P.	124
PGM-FI (Programmed Fuel Injection)		
Malfunction Indicator Lamp (MIL)	P.	124
ABS (Anti-lock Brake System) Indicator	P.	125
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Other Warning Indications	P.	127
Fuel Gauge Failure Indication	P.	127
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Burned-out Light Bulb	Ρ.	135
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Starter Motor Operates But Engine Does Not Start

Check the following items:

- Check the correct engine starting sequence. ▶ P. 65
- Check that there is gasoline in the fuel tank.
- Check if the PGM-FI malfunction indicator lamp (MIL) is on.
 - If the indicator lamp is on, contact your dealer as soon as possible.

Starter Motor Does Not Operate

Check the following items:

- Check the correct engine starting sequence. ▶ P. 65
- Make sure engine stop switch is in the (Run) position.
 P. 54
- Check for a blown fuse. ₽ P. 138
- Check for a loose battery connection
 (≥ P. 93) or battery terminal corrosion
 (≥ P. 81).
- Check the condition of the battery. ▶ P. 135

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

Overheating (High coolant temperature indicator is on)

The engine is overheating when the following occurs:

- High coolant temperature indicator comes on.
- Acceleration becomes sluggish. If this occurs, pull safely to the side of the road and perform the following procedure.

Extended fast idling may cause the high coolant temperature indicator to come on.

NOTICE

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

 Stop the engine using the ignition switch, and then turn the ignition switch to the ON position. **2.** Check that the radiator fan is operating, and then turn the ignition switch to the OFF position.

If the fan is not operating:

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

If the fan is operating:

Allow the engine to cool with the ignition switch in the OFF position.

3. After the engine has cooled, inspect the radiator hose and check if there is a leak.▶ P. 100

If there is a leak:

Do not start the engine. Transport your motorcycle to your dealer.

 Check the coolant level in the reserve tank.
 P. 100

Add coolant as necessary.

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

Low Oil Pressure Indicator

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

NOTICE

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

- Check the engine oil level, and add oil as necessary.
 P. 96,
 P. 97
- 2. Start the engine.
 - Only continue riding if the low oil pressure indicator goes off.

Rapid acceleration may momentarily cause the low oil pressure indicator to come on, especially if the oil is at or near the low level. If the low oil pressure indicator stays on when the oil level is at the proper level, stop the engine and contact your dealer. If the engine oil level goes down rapidly, your motorcycle may have a leak or another serious problem. Have your motorcycle inspected by your dealer.

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

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

ABS (Anti-lock Brake System) Indicator

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

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

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

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

Torque Control Indicator

If the indicator operates in one of the following ways, you may have a serious problem with the Torque Control. Reduce your speed and have your motorcycle inspected by your dealer as soon as possible. • Indicator comes and stays on (solid) while

- riding.
 Indicator does not come on when the ignition switch is turned to the ON position.
- Indicator does not go off at speeds above 3 mph (5 km/h).

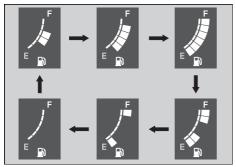
Even when the Torque Control indicator is on, your motorcycle will have normal riding ability without Torque Control function.

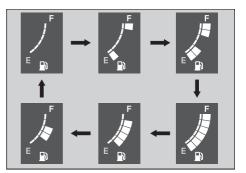
► When the indicator comes on while the Torque Control is in operation, you will have to completely close the throttle to regain normal riding ability. The Torque Control indicator may come on if you rotate the rear wheel while your motorcycle is lifted off the ground. In this case, turn the ignition switch to the OFF position, and then to the ON position again. The Torque Control indicator will go off after your speed reaches 3 mph (5 km/h).

Fuel Gauge Failure Indication

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

If these occur, see your dealer as soon as possible.





Tire 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 tire inspected/replaced by your dealer.

Emergency Repair Using a Tire Repair Kit

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

Follow the instructions provided with the emergency tire repair kit.

Riding your motorcycle with a temporary tire repair is very risky. Do not exceed 30 mph (50 km/h). Have the tire replaced by your dealer as soon as possible.

AWARNING

Riding your motorcycle with a temporary tire 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 tire repair, ride slowly and carefully and do not exceed 30 mph (50 km/h) until the tire is replaced.

Removing Wheels

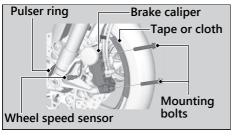
Follow these procedures if you need to remove a wheel in order to repair a puncture.

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

Front Wheel

Removal

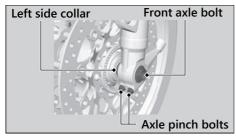
- **1.** Place your motorcycle on a firm, level surface.
- 2. Cover the both sides of the front wheel and brake caliper with protective tape or cloth.



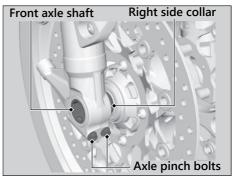
- **3.** On the right side, remove the mounting bolts and remove the brake caliper.
- **4.** On the left side, remove the mounting bolts and remove the brake caliper.
 - Support the brake caliper assembly so that it doesn't hang from the brake hose. Do not twist the brake hose.
 - Avoid getting grease, oil, or dirt on the disc or pad surfaces.
 - ► Do not pull the front brake lever while the brake caliper is removed.
 - Take care to prevent the brake caliper from scratching the wheel during removal.

Tire Puncture <a>> Removing Wheels

- 5. Remove the front axle bolt.
- 6. Loosen the left axle pinch bolts.
- **7.** Support your motorcycle securely and raise the front wheel off the ground using a maintenance stand or a hoist.

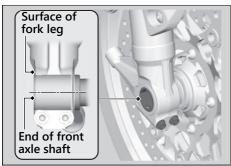


- 8. Loosen the right axle pinch bolts.
- **9.** On the right side, withdraw the front axle shaft, and remove the side collars and wheel.



Installation

- 1. Attach the side collars to the wheel.
- 2. On the right side, place the wheel between the fork legs and insert the lightly greased front axle shaft to the end, through the right fork leg and wheel hub.
- **3.** Align the end of the front axle shaft with the surface of the fork leg.



4. Tighten the right axle pinch bolts to hold the axle.

5. Install and tighten the axle bolt.

Torque: 58 lbf·ft (79 N·m, 8.1 kgf·m)

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

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

8. Install the right brake caliper and tighten the mounting bolts.

Torque: 33 lbf·ft (45 N·m, 4.6 kgf·m).

9. Install the left brake caliper and tighten the mounting bolts.

Torque: 33 lbf·ft (45 N·m, 4.6 kgf·m).

- Take care to prevent the brake caliper from scratching the wheel during installation.
- Use new mounting bolts when installing the brake caliper.

NOTICE

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

10. Lower the front wheel on the ground.

- **11.** Apply the brake lever several times. Then, pump the fork several times.
- **12.** Retighten the right axle pinch bolts.

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

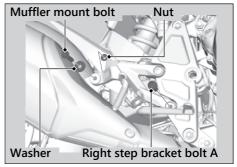
- **13.** Raise the front wheel off the ground again, and check that the wheel rotates freely after you release the brake.
- 14. Uncover the protective tape or cloth.

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.

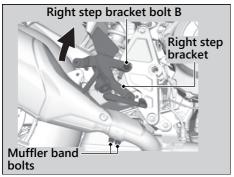
Rear Wheel

Removal

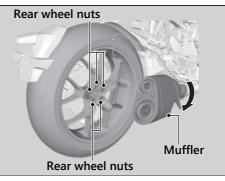
- **1.** Place your motorcycle on a firm, level surface.
- 2. Loosen the rear wheel nuts.
- **3.** Support your motorcycle securely and raise the rear wheel off the ground using a hoist.
- **4.** Remove the muffler mount bolt, washer and nut.
- 5. Remove the right step bracket bolt A.



6. Loosen the right step bracket bolt B and muffler band bolts and then, lift up the right step bracket upward.



7. Turn the muffler clockwise, and remove the rear wheel by removing the rear wheel nuts.



Installation

- **1.** To install the rear wheel, reverse the removal procedure.
- **2.** Install the rear wheel and tighten the rear wheel nuts equally.

Torque: 80 lbf·ft (108 N·m, 11.0 kgf·m).

- **3.** Turn the muffler counterclockwise until its original position.
- 4. Tighten the muffler band bolts.

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

- 5. Install the step bracket bolt A.
- 6. Tighten the right step bracket bolt A and B.

Torque: 27 lbf·ft (37 N·m, 3.8 kgf·m).

7. Install the muffler mount bolt, washer, and nut and tighten it.

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

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 before charging.

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

NOTICE

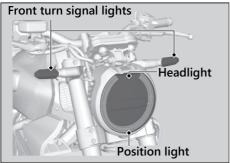
Jump starting using an automobile battery can damage your motorcycle's electrical system and is not recommended.

Bump starting is also not recommended.

Burned-out Light Bulb

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

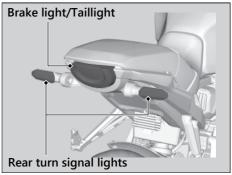
Headlight/Position Light/Front Turn Signal Lights



The headlight, position light and front turn signal lights use several LEDs. If there is an LED which is not turned on, see

your dealer for servicing.

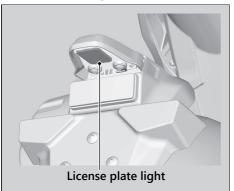
Brake light/Taillight/Rear Turn Signal Lights



The brake light, taillight and rear turn signal lights use several LEDs.

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

License Plate Light



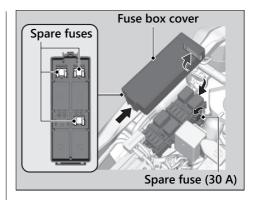
The license plate light uses an LED. If there is an LED which is not turned on, see your dealer for servicing.

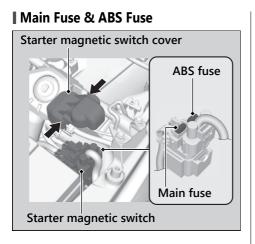
Blown Fuse

Before handling fuses, see "Inspecting and Replacing Fuses." ▶ P. 83

Fuse Box Fuses

- 1. Remove the front seat. ≥ P. 94
- 2. Remove the fuse box cover.
- **3.** Pull the fuses out one by one with the fuse puller in the tool kit and check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.
- 4. Reinstall the fuse box cover.
- 5. Reinstall the front seat.





- 1. Remove the front seat. ₽ P. 94
- **3.** Remove the starter magnetic switch cover.
- Pull the main fuse and ABS fuse out one by one and check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.
 - Spare fuse (30 A) is provided in the fuse case nearby the fuse box. ≥ P. 138
- **5.** Reinstall parts in the reverse order of removal.

NOTICE

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

Information

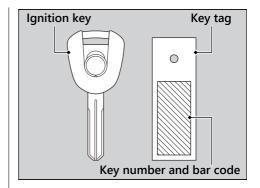
Keys	 P.	141
Instruments, Controls, & Other Features.	 P.	142
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Keys

Ignition Key

This motorcycle has two ignition keys and a key tag with a key number and a bar code. Store the spare key and the key tag in a safe location. To make a duplicate key, take the spare key and the key tag to your dealer or a locksmith. If you lose all ignition keys and the key tag, the ignition switch assembly will probably have to be removed by your dealer to determine the key number.

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



Instruments, Controls, & Other Features

Ignition Switch

Leaving the ignition switch in the ON position with the engine stopped will drain the battery. Do not turn the key while riding.

Engine Stop Switch

Do not use the engine stop switch except in an emergency. Doing so when riding will cause the engine to suddenly turn off, making riding unsafe.

If you stop the engine using the engine stop switch, turn the ignition switch to the OFF position. Failing to do so will drain the battery.

Odometer

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

Tripmeter

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

Document Bag

The owner's manual, registration, and insurance information can be stored in the plastic document bag located underside of the rear seat. \blacksquare P. 70

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

Assist-slipper Clutch System

The assist-slipper clutch system helps to prevent the rear tire from locking up when the deceleration of your motorcycle produces a strong engine braking effect. It also makes the clutch lever operation feel lighter.

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

Throttle by Wire System

This model is equipped with a Throttle by Wire System.

Do not put magnetized items or items susceptible to magnetic interference near the right handlebar switches.

Automatic Brightness Control

The backlight brightness of the mater will be controlled automatically when "Auto" is selected on the backlight brightness setting. Ambient brightness is detected by the photosensor.

Do not damage or cover the photosensor. Otherwise, the automatic brightness control may not work properly.

Photosensor



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.

Washing

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

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

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

- **3.** Thoroughly rinse your 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 tires. Brake discs, pads, drum or shoes contaminated with oil will suffer greatly reduced braking effectiveness and can lead to a crash.
- **5.** Lubricate the drive chain immediately after washing and drying the 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 tires and brakes
 - If your motorcycle has any matte painted parts, do not apply a coat of wax to the matte painted surface.

Washing Precautions

Follow these guidelines when washing:

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

- Do not direct water at the air cleaner:
 - ► Water in the air cleaner can prevent the engine from starting.
- Do not direct water near the headlight:
 - The headlight's inside lens may fog temporarily after washing or while riding in the rain. This does not impact the headlight function.

However, if you see a large amount of water or ice accumulated inside the lens(es), have your vehicle inspected by your dealer.

- Do not use wax or polishing compounds on matte painted surface:
 - Use a soft cloth or sponge, plenty of water, and a mild detergent to clean matte painted surfaces. Dry with a soft clean cloth.

Aluminum Components

Aluminum will corrode from contact with dirt, mud, or road salt. Clean aluminum 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.

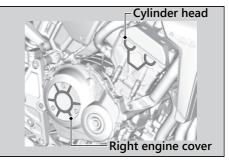
Cylinder Head/Sprocket Hub/Right Engine Cover

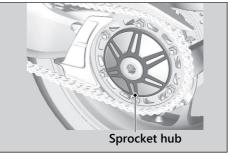
The cylinder head, sprocket hub and right engine cover contain part of non-surface treated.

To avoid corrosion and discoloration, apply a coat of wax not including abrasives.

If the non-surface treated parts have corroded, polish them using a wax including abrasives.

- Do not clean the painted parts using the wax including abrasives.
- Do not use stiff brushes, steel wool, or sand paper.
- Do not use acidic or alkaline detergent.





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 gasoline, brake fluid, or detergents on the instruments, panels, or headlight.

Exhaust Pipe and Muffler

The exhaust pipe and muffler are stainless steel but may become stained by mud or dust.

To remove mud or dust, use a wet sponge and a liquid kitchen abrasive, then rinse well with clean water. Dry with chamois or a soft towel. If necessary, remove heat stains by using a commercially available fine texture compound. Then rinse by the same manner as removing mud or dust.

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.

NOTICE

Even though the exhaust is made of stainless steel, it can become stained. Remove all marks and blemishes as soon as they are noticed.

Storing Your 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. 85
- Place your motorcycle on a maintenance stand and position a block so that both tires are off the ground.
- After rain, remove the body cover and allow the motorcycle to dry.
- Remove the battery (≥ P. 93) to prevent discharge. Fully charge the battery and then place it in a shaded, well-ventilated area.

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

USA For more information about storage, refer to the *Honda Winter Storage Guide*, available from your dealer.

Canada For more information about storage, visit our website at www.honda.ca and look up "Storage Tips" under the "Honda Warranty" in the Warranty tab for your Model.

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.

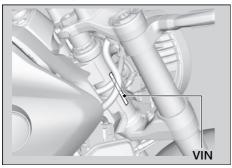
Recycle Wastes

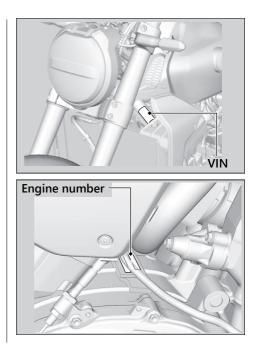
Put oil and other toxic wastes in approved containers and take them to a recycling center. Call your local or state office of public works or environmental services to find a recycling center in your area, and to get instructions on how to dispose of non-recyclable wastes. Do not place used engine oil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

Vehicle Identification Number

The VIN and engine serial number 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.





Emission Control Systems

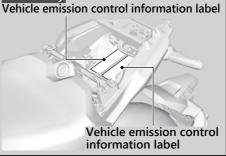
Your motorcycle engine emits combustion byproducts, including carbon monoxide (CO), oxides of nitrogen (NOx), and hydrocarbons (HC). Gasoline evaporation also emits hydrocarbons. Controlling the production of NOx, CO, and HC is important for the environment.

Exhaust Emission Requirements

The U.S. Environmental Protection Agency (EPA), the California Air Resources Board (CARB), and Environment and Climate Change Canada (ECCC) require that your motorcycle comply with applicable exhaust, crankcase, and fuel permeation emission standards during its useful life, when operated and maintained according to the instructions provided. CARB also requires that your motorcycle comply with applicable evaporative emission requirements during its useful life, when operated and maintained according to the instructions provided.

USA Compliance with the terms of the Distributor's Warranties for Honda Motorcycle Emission Control Systems is necessary in order to maintain a valid emissions system warranty. The Vehicle Emission Control Information label is attached to the rear fender under the rear seat. ⊇ P. 95

Canada only



Noise Emission Requirements

The EPA requires that motorcycles built after January 1, 1983 comply with applicable noise emission standards for one year or 3,730 miles (6,000 km) after the time of purchase when operated and maintained according to the instructions provided.

Exhaust Emission Control System

The exhaust emission control system includes the following components that should not need adjustment, although periodic inspection by your dealer is recommended.

PGM-FI System

The PGM-FI (programmed fuel injection) system uses sequential multiport fuel injection, and is comprised of air intake, engine control, fuel control, and exhaust control subsystems. The engine control module (ECM) uses sensors to determine how much air enters the engine, and then controls how much fuel to inject.

Ignition Timing Control System

The ignition timing control system adjusts the ignition timing to reduce the amount of HC, CO, and NOx produced.

Secondary Air Injection System

The secondary air injection system adds filtered air into the exhaust gas to help improve emission control performance.

Catalytic Converters

The exhaust system contains one or more catalytic converters. Catalytic converters use a catalyst to convert most of the harmful exhaust gas compounds into harmless compounds.

Evaporative Emission Control System

50 STATE (meets California)

An evaporative emissions control system uses a canister filled with charcoal to adsorb fuel vapor from the fuel tank while the engine is off. The vapor is drawn into the engine and burned while riding.

Crankcase Emissions Control System

The engine is equipped with a closed crankcase system to prevent discharging crankcase emissions into the atmosphere. Blow-by gas is returned to the combustion chamber through the front cylinder head, air cleaner housing and throttle body.

Fuel Permeation Emission Control

The fuel tank, fuel hoses, and fuel vapor charge hoses use fuel permeation control technologies to prevent fuel vapor emissions. Tampering with these components to reduce or defeat the effectiveness of the fuel permeation technologies is prohibited.

Noise Emission Control System

TAMPERING WITH THE NOISE CONTROL SYSTEM IS PROHIBITED:

U. S. federal law prohibits, and Canadian provincial laws may prohibit, the following acts or the causing thereof: (1) The removal or rendering inoperative by any person, other than for purposes of maintenance, repair or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use; or (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE FOLLOWING ACTS:

• Removal of, or puncturing the muffler, baffles, header pipes or any other component which conducts exhaust gases.

- Removal of, or puncturing of any part of the intake system.
- Lack of proper maintenance.
- Removing or disabling any emissions compliance component, or replacing any compliance component with a noncompliant component.

Problems Affecting Motorcycle Exhaust Emissions

Have your motorcycle inspected and repaired by your dealer if you experience any of the following symptoms:

- Hard starting or stalling after starting
- Rough idling
- Misfiring or backfiring during acceleration
- Poor engine performance and poor fuel economy

Catalytic Converter

This motorcycle is equipped with two three-way catalytic converters. Each 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 converters.

- Always use unleaded gasoline. Leaded gasoline will damage the catalytic converters.
- Keep the engine in good running condition. A poorly running engine can cause the catalytic converter to overheat causing damage to the converter or the motorcycle.
- If your engine is misfiring, backfiring, stalling, or otherwise not running properly, stop riding and turn off the engine. Have your motorcycle serviced as soon as possible.

Oxygenated Fuels

Some conventional fuels blended with alcohol or an ether compound are available in some locales to help reduce emissions to meet clean air standards. These gasolines are collectively referred to as oxygenated fuels. If you plan to use oxygenated fuel, check that it is unleaded and meets the minimum octane rating and blend requirement.

The following fuel blends are EPA-approved and have been approved for use in your motorcycle:

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

If you accidentally fill your fuel tank with an oxygenated fuel containing higher percentages,

you may experience performance problems. To resolve the problem, have your dealer drain the fuel tank and replace with the correct fuel. Fuel system or performance problems resulting from the use of an oxygenated fuel containing higher percentages are not covered by your warranty.

NOTICE

Improper use of oxygenated fuels can damage metal, rubber, and plastic parts of your fuel system.

Oxygenated fuel can also damage paint. Damage caused by spilled fuel is not covered by warranty.

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

Authorized Manuals

USA The Service Manual used by your authorized dealer is available from your Honda dealer or Helm, Inc.

Canada See your dealer to order authorized manuals.

Also available, but not necessary to service your model, is the Honda Common Service Manual, which explains basic service information for various systems on Honda motorcycles, scooters, and ATV.

USA The Winter Storage Guide in conjunction with the Owner's Manual and Service Manual can help you prepare your Honda motorcycle, scooter, ATV, and SxS for winter storage.

These Honda manuals are written for the professional technician. However, if you possess the proper tools, observe the safety standards, and are mechanically capable, you should find them easy to use.

Special Honda tools are necessary for some procedures.

USA

Order On-Line: www.helminc.com

Order Toll Free: 1-888-CYCLE93

(1-888-292-5393) (NOTE: For Credit Card Orders Only) Monday - Friday 8:00 AM - 6:00 PM EST

Publication Item No.		Description
61MKJ00	2018 CB1000RA Ser	vice Manual
61CSM00	Common Service M	anual
\$9507	USA Winter Storage	e Guide
31MKJ600	2018 CB1000RA Ow	ner's Manual

Warranty Coverage and Service

Coverage

Your new Honda is covered by the following warranties:

- Motorcycle Limited Warranty
- Emission Control System Warranty
- USA Noise Control Warranty

The responsibilities, restrictions, and exclusions that apply to these warranties are explained in the Warranties Booklet given to you by your Honda dealer at the time of purchase. Always keep your Honda owner's card with your Warranties Booklet.

Canada Please refer to the Warranty Booklet posted on our website at www.honda.ca.

It is important to realize that your warranty applies only to defects in material or

workmanship of your Honda. Your warranty coverage does not apply to the normal wear and deterioration associated with use of the motorcycle.

Your warranty coverage is not voided if you perform your own maintenance. However, failures that occur due directly to improper maintenance are not covered by these warranties.

USA You can extend almost all of your warranty coverage through the Honda Protection Plan. For more information, see your Honda dealer.

Service

Please remember that maintenance recommended in the Maintenance Schedule is not included in your warranty coverage.

If you believe you have a problem with your motorcycle, call the service department of your Honda dealer. Make an appointment for an inspection and diagnosis. You will be asked to authorize that inspection, and your dealer will return the results of the inspection. If a problem exists and is covered under warranty, your dealer will perform the warranty repairs. If you have any questions about your warranty coverage or the nature of the repair, talk to the Service Manager of your Honda dealer. If a misunderstanding occurs and you aren't satisfied with your dealer's handling of the situation, we suggest you discuss your problem with the appropriate member of the dealership's management team. If you are still not satisfied, contact the owner of the dealership or their designated representative.

Honda Contacts

American Honda Motor Co., Inc.

If you wish to contact Honda directly to comment on your experiences with your motorcycle or with your dealer, please send your comments to the following address:

Motorcycle Division, American Honda Motor Co., Inc., P.O. Box 2200, Torrance, CA 90509-2200 Mailstop: 100-4C-7B, Telephone: (866) 784-1870.

Canada

Honda Canada Inc. Customer Relations Department, 180 Honda Boulevard Markham, Ontario L6C 0H9 Telephone: (888) 946-6329 Fax: (877) 939-0909 E-mail: honda_cr@ch.honda.com Please include the following information in your letter:

- Name, address, and telephone number
- Product model, year, and VIN
- Date of purchase
- Dealer name and address

We will likely ask your Honda dealer to respond, or possibly acknowledge your comments directly.

Your Honda Dealer

The service department of your Honda dealer offers trained personnel to perform regular maintenance and most repairs. It has the latest available service information from Honda and also handles warranty inspections and repairs.

Information

The parts department offers Honda Genuine Parts, Pro Honda products, Honda Genuine Accessories (USA only), and Honda accessories and products (Canada only) that provide the same quality that went into your motorcycle.

USA The sales department offers the Honda Protection Plan to extend almost all of your warranty coverage.

Your Honda dealer can also supply information about, riding events, and information about safety training available in your local area.

USA Reporting Safety Defects

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying American Honda Motor Co., Inc.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or American Honda Motor Co., Inc.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at: 1-888-327-4236 (TTY: 1-800-424-9153); go to http://www.safercar.gov; or write to: Administrator, NHTSA, 1200 New Jersey Avenue, SE., Washington, DC 20590. You can also obtain other information about motor vehicle safety from: http://www.safercar.gov.

Specifications

Main Components

Overall length	83.5 in (2,120 mm)
Overall width	31.1 in (789 mm)
Overall height	42.9 in (1,090 mm)
Wheelbase	57.3 in (1,455 mm)
Minimum ground clearance	5.3 in (135 mm)
Caster angle	25° 0′
Trail	3.9 in (100 mm)
Curb weight	467 lb (212 kg)
Maximum weight capacity *1	384 lb (174 kg)
Passenger capacity	Rider and 1 passenger
Minimum turning radius	9.8 ft (3.0 m)
Displacement	60.9 cu-in (998 cm ³)
Bore x stroke	2.95 x 2.22 in (75.0 x 56.5 mm)
Compression ratio	11.6 : 1
Fuel	Unleaded gasoline Recommended: 86 PON or higher
Tank capacity	4.28 US gal (16.2 L)
Battery	YTZ10S 12 V-8.6 Ah (10 HR)

	1st	2.538	
	2nd	1.941	
Gear ratio	3rd	1.578	
Gear ratio	4th	1.363	
	5th	1.217	
	6th	1.115	
Reduction ratio (primary / final)	1.604 / 2.933		

*1 : Including rider, passenger, all luggages, and accessories

Service Da	ata			API Service Classification SG or higher
Ting since	Front	120/70ZR17M/C (58W)		except oils labeled as energy conserving or
Tire size	Rear	190/55ZR17M/C (75W)	Recommended	resource conserving on the circular API
Tire type		Radial, tubeless	engine oil	service label, SAE 10W-30, JASO T 903
	Front	BRIDGESTONE BATTLAX HYPERSPORT S21F M	J.	standard MA, Pro Honda GN4 4-stroke oil (USA & Canada) or Honda 4-stroke oil, or an equivalent motorcycle oil
Recommended		DUNLOP SPORTMAX D214F G		After draining 2.9 US qt (2.7 L)
Tire	Rear	BRIDGESTONE BATTLAX HYPERSPORT S21R M	Engine oil	After draining & engine oil filter 3.2 US gt (3.0 L)
		DUNLOP SPORTMAX D214 G	capacity	change
Tire air pressure	Front	36 psi (250 kPa, 2.50 kgf/cm ²)		After disassembly 3.8 US gt (3.6 L)
The all pressure	Rear	42 psi (290 kPa, 2.90 kgf/cm ²)	Recommended	
Minimum tread	Front	0.06 in (1.5 mm)	brake fluid	Honda DOT 4 Brake Fluid
depth	Rear	0.08 in (2.0 mm)	Cooling system	
Spark plug	(standard)	IMR9E-9HES (NGK) or	capacity	2.91 US qt (2.75 L)
Spark plug gap		VUH27ES (DENSO) 0.03 - 0.04 in (0.8 - 0.9 mm)	Recommended	Pro Honda HP Coolant
		· /	coolant	
Idle speed		1,200 ± 100 rpm	Recommended drive chain	Pro Honda HP Chain Lube or equivalent

lubricant

chain

size

Standard drive

Drive chain slack 1 9/16 - 1 15/16 in (40 - 50 mm)

RK525ROZ7

No. of links

Driven sprocket

Standard sprocket Drive sprocket

116

15T

44T

Specifications

🔳 Bulb

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

Fuse

Main fuse	30 A
Other fuse	30 A, 15 A, 10 A, 7.5 A

Torque Specifications

Engine oil drain bolt	22 lbf·ft (30 N·m, 3.1 kgf·m)
Oil filter	19 lbf·ft (26 N·m, 2.7 kgf·m)
Bearing holder pinch bolt	20 lbf·ft (27 N·m, 2.8 kgf·m)
Front wheel axle bolt	58 lbf·ft (79 N·m, 8.1 kgf·m)
Front wheel brake caliper mounting bolt	33 lbf·ft (45 N·m, 4.6 kgf·m)
Front wheel axle pinch bolt	16 lbf·ft (22 N·m, 2.2 kgf·m)
Muffler mount bolt and nut	16 lbf·ft (22 N·m, 2.2 kgf·m)
Right step bracket bolt A	27 lbf·ft (37 N·m, 3.8 kgf·m)
Right step bracket bolt B	27 lbf·ft (37 N·m, 3.8 kgf·m)
Muffler band bolt	16 lbf·ft (22 N·m, 2.2 kgf·m)
Rear wheel nut	80 lbf·ft (108 N·m, 11.0 kgf·m)

Information Record

VIN	
Engine No.	
Color Label & Code	
Owner's Name	
Address	
City/State	
Phone	
Dealer's Name	
Address	
City/State	
Phone	
Service Manager	

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AWARNING

Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.