Contents

Vehicle Safety	P. 2
Operation Guide	P. 20
Maintenance	P. 38
Troubleshooting	P. 90
Information	P. 110
Specifications	P. 133
Index	P. 137

Welcome

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

To ensure your safety and riding pleasure:

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

To protect your investment, we urge you to take responsibility for keeping your vehicle 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 vehicle 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. 127

Read the warranty information thoroughly so that you understand the warranty coverage and that you are aware of your rights and responsibilities. ➡ P. 128

You may also want to visit our website at www.powersports.honda.com.
Happy riding!

A Few Words About Safety

Your safety, and the safety of others, is very important. Operating this vehicle safely is an important responsibility.
To help you make informed decisions about safety, we have provided operating procedures and other information on safety labels and in this manual. This information alerts you to potential hazards that could hurt you or others.
Of course, it is not practical or possible to warn you about all hazards associated with operating or maintaining a vehicle. You must use your own good judgment.

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

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

⚠DANGER

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

⚠WARNING

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

⚠CAUTION

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

Other important information is provided under the following titles:

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

Vehicle Safety

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

Safety Guidelines ..... P. 3
Safety Labels ..... P. 7
Safety Precautions ..... P. 9
Riding Precautions ..... P. 11
Accessories & Modifications ..... P. 15
Loading ..... P. 16

Safety Guidelines

Follow these guidelines to enhance your safety:

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

Always Wear a Helmet

It's a proven fact: helmets and protective apparel significantly reduce the number and severity of head and other injuries. So always wear an approved helmet and protective apparel. ➔P. 9

Before Riding

Model not equipped with Optional Passenger Seat Kit

Make sure that you are physically fit, mentally focused and free of alcohol and drugs. Check that you are wearing an approved helmet and protective apparel.

Model equipped with Optional Passenger Seat Kit

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

Take Time to Learn & Practice

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

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

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

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.

Never Carry a passenger

Model not equipped with Optional Passenger Seat Kit

There are no handholds, seat, or footrests to carry a passenger.

Do not carry a passenger unless you have purchased and installed the Honda Genuine Accessory Passenger Seat Kit, or equivalent parts specifically designed for this vehicle, which must include the passenger seat, seat strap, footpegs, and the mounting hardware.

Don't Drink and Ride

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

Keep Your Honda in Safe Condition

It's important to keep your vehicle properly maintained and in safe riding condition. Inspect your vehicle before every ride and perform all recommended maintenance. Never exceed load limits (P. 16), and do not modify your vehicle or install accessories that would make your vehicle unsafe (P. 15).

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.

Continued

If you decide to continue riding, first turn the ignition switch to the OFF position, and evaluate the condition of your vehicle. Inspect for fluid leaks, check the tightness of critical nuts and bolts, and check the handlebar, control levers, brakes, and wheels. Ride slowly and cautiously. Your vehicle may have suffered damage that is not immediately apparent. Have your vehicle thoroughly checked at a qualified service facility as soon as possible.

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 vehicle inside a garage or other enclosure.

⚠WARNING

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

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

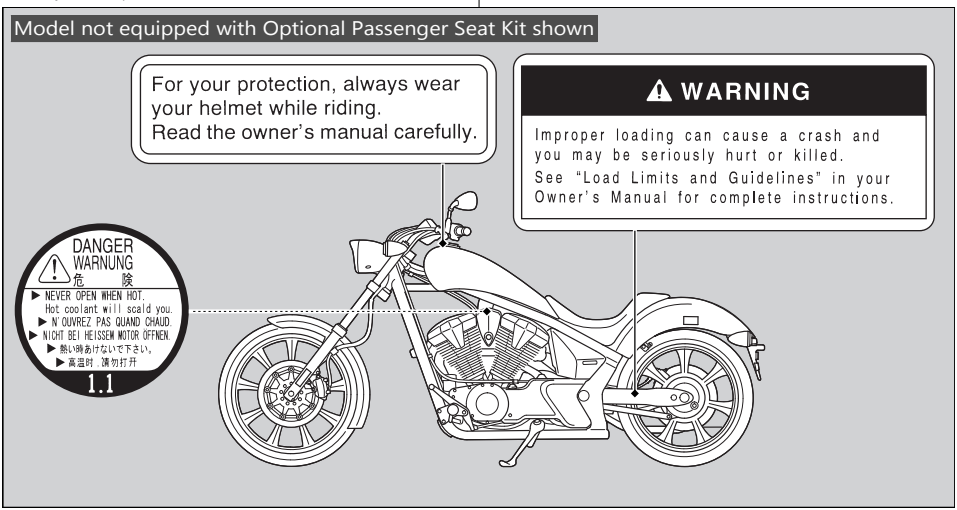
Only run your vehicle's engine when it is located in a well ventilated area outdoors.

Safety Labels

Safety and information labels on your vehicle 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.

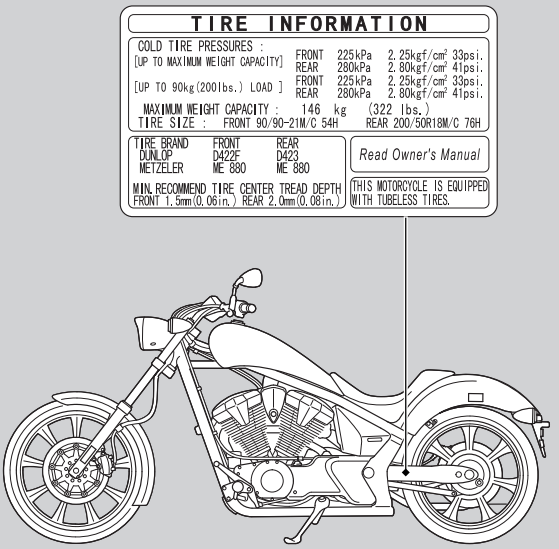
If a label comes off or becomes hard to read, contact your dealer for a replacement.

Model not equipped with Optional Passenger Seat Kit shown



Continued

Model not equipped with Optional Passenger Seat Kit shown



Safety Precautions

- Ride cautiously and keep your hands on the handlebar and feet on the footpegs.
- Model equipped with Optional Passenger Seat Kit
  Keep passenger's hands onto the seat strap or your waist, passenger's feet on the footpegs while riding.
- Model not equipped with Optional Passenger Seat Kit
  Always consider the safety of other drivers and riders.
- Model equipped with Optional Passenger Seat Kit
  Always consider the safety of your passenger, as well as other drivers and riders.

Protective Apparel

Model not equipped with Optional Passenger Seat Kit

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

Model equipped with Optional Passenger Seat Kit

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

Continued

Helmet

Should be safety-standard certified, high-visibility, 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

Look for a DOT (Department of Transportation) certification label on any helmet you buy.

⚠WARNING

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

Model not equipped with Optional Passenger Seat Kit

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

Model equipped with Optional Passenger Seat Kit

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 vehicle's future reliability and performance.

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

Brakes

Observe the following guidelines:

- Avoid excessively hard braking and downshifting.
  - ▶ Sudden braking can reduce the vehicle's stability.
  - ▶ Where possible, reduce speed before turning; otherwise you risk sliding out.

Continued

- 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.

Combined ABS

VT1300CXA only

Your vehicle's rear brake system is linked to the front brake. This means that operating the rear brake pedal applies the rear brake and a portion of the front brake.
Operating the front brake lever applies only the front brake.
For full braking effectiveness, operate both the front and rear brakes together.

This model is also 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 tires to ensure correct ABS operation.

Engine Braking

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

Wet or Rainy Conditions

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

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

Parking

- Park on a firm, level surface.
- If you must park on a slight incline or loose surface, park so that the vehicle cannot move or fall over.
- Make sure that high-temperature parts cannot come into contact with flammable materials.
- Do not touch the engine, muffler, brakes and other high-temperature parts until they cool down.
- To reduce the likelihood of theft, always lock the handlebar and remove the key when leaving the vehicle unattended.
  Use of an anti-theft device is also recommended.

Continued

Parking with the Side Stand

1. Stop the engine.
2. Push the side stand down.
3. Slowly lean the vehicle to the left until its weight rests on the side stand.
4. Turn the handlebar fully to the left.
   ▶ Turning the handlebar to the right reduces stability and may cause the vehicle to fall.
5. Turn the ignition switch to the OFF position and remove the key.
6. Lock the steering. ➡ P. 30

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. 126
- Do not use stale or contaminated gasoline or an oil/gasoline mixture.
- Avoid getting dirt or water in the fuel tank.

Accessories & Modifications

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

⚠WARNING

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

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

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

Loading

- Model not equipped with Optional Passenger Seat Kit

  Never carry a passenger. Your vehicle was not designed to carry a passenger.
- Carrying extra weight affects your vehicle's handling, braking and stability.
  Always ride at a safe speed for the load you are carrying.
- Avoid carrying an excessive load and keep within specified load limits.
  Maximum weight capacity ➡ P. 133
- Tie all luggage securely, evenly balanced and close to the center of the vehicle.
- Do not place objects near the lights or the muffler.

⚠WARNING

Model not equipped with Optional Passenger Seat Kit

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

Model equipped with Optional Passenger Seat Kit

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.

Your vehicle comes from the factory with a single seat for operator only, but ratings capacity (subject to applicable weight ratings) to also carry a passenger with the purchase and installation of the optional Honda Genuine Accessory Passenger Seat Kit, or equivalent parts specifically designed for this vehicle.

Do not carry a passenger unless a passenger seat (with seat strap) and footpegs have been securely installed on your vehicle.

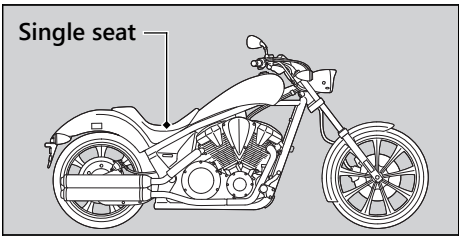
⚠WARNING

Carrying a passenger without a properly designed and installed passenger seat and footpegs can result in serious injury or death to you and/or the passenger.

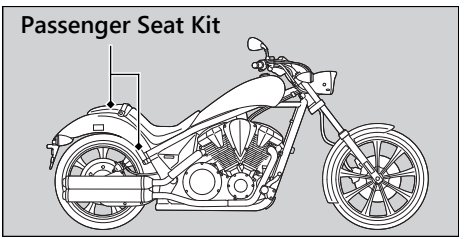
Never carry a passenger without first installing a passenger seat (with seat strap) and footpegs specifically designed for this vehicle. Further, never carry more than one passenger.

Continued

The vehicle GVWR, weight ratings and tire load capacities can be found on the vehicle.
Single seat as produced.



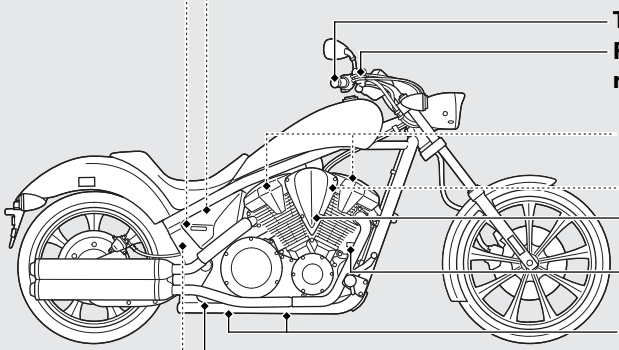
Optional Honda Genuine Accessory Passenger Seat Kit shown.



BLANK PAGE

Parts Location

Model not equipped with Optional Passenger Seat Kit



Fuse box P.108

Rear suspension spring preload adjuster P.88

Throttle grip P.85

Front brake fluid reservoir P.78

Spark plugs P.65

Air cleaner P.73

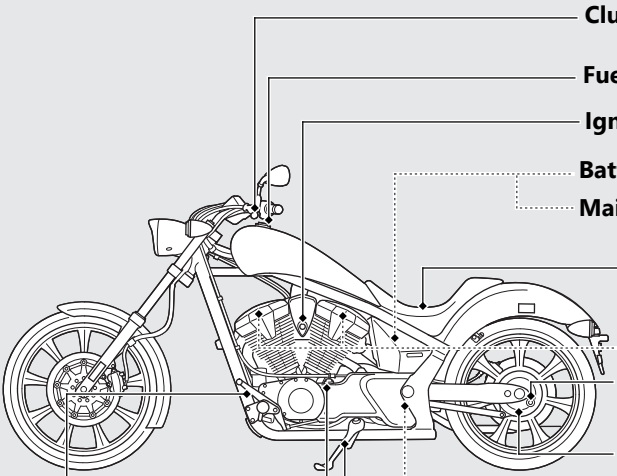
Crankcase breather tube P.86

Rear brake fluid reservoir P.78

Engine oil drain bolts P.71

Engine oil filter P.71

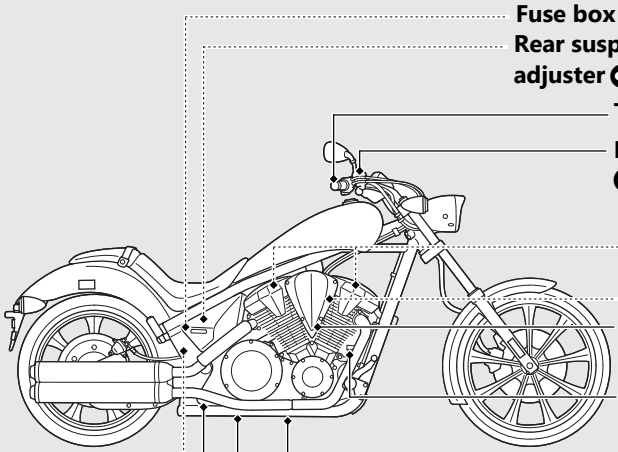
Rear suspension rebound damping adjuster P.89


Clutch lever P.82
Fuel fill cap P.34
Ignition switch P.29
Battery P.59
Main fuse P.108
Seat P.61
Spark plugs P.65
Final drive gear oil fill cap P.76
Final drive gear oil drain bolt P.77
Coolant reserve tank P.74
Side stand P.81
Engine oil fill cap/dipstick P.69
Shift lever P.33

Continued

Parts Location *(Continued)*

Model equipped with Optional Passenger Seat Kit



Fuse box P.108

Rear suspension spring preload adjuster P.88

Throttle grip P.85

Front brake fluid reservoir P.78

Spark plugs P.65

Air cleaner P.73

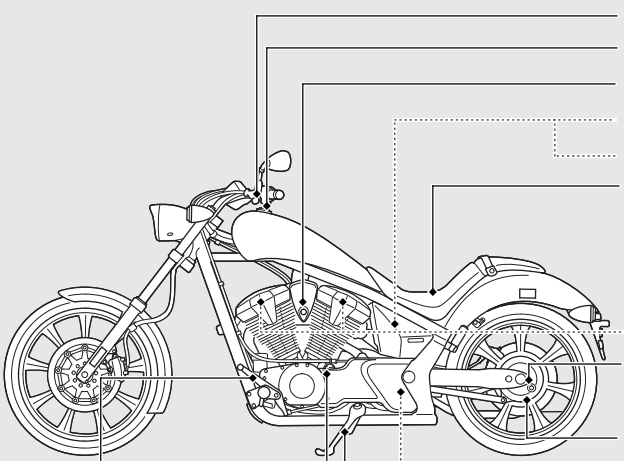
Crankcase breather tube P.86

Rear brake fluid reservoir P.78

Engine oil drain bolts P.71

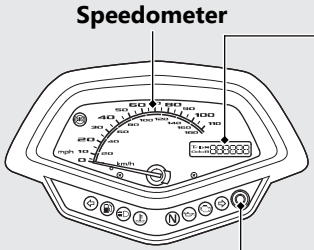
Engine oil filter P.71

Rear suspension rebound damping adjuster P.89



Clutch lever P.82
Fuel fill cap P.34
Ignition switch P.29
Battery P.59
Main fuse P.108
Seat P.62
Spark plugs P.65
Final drive gear oil fill cap P.76
Final drive gear oil drain bolt P.77
Coolant reserve tank P.74
Side stand P.81
Engine oil fill cap/dipstick P.69
Shift lever P.33

Instruments





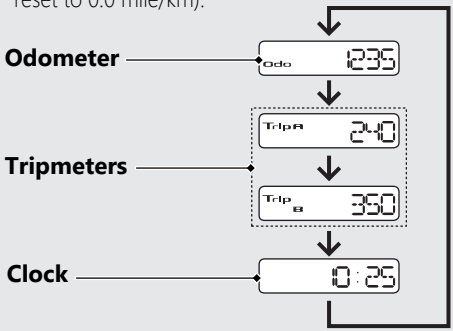
Odometer [Odo], Tripmeter [Trip A/B] & Clock (24-hour display)

Select/reset button switches between the odometer, tripmeters and clock.

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

Select/Reset button

Odometer & tripmeter read in miles.



To set the clock:

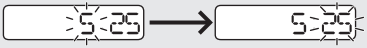
1. Turn the ignition switch to the ON position.
2. Select the clock.
3. Press and hold the select/reset button until the hour digits start flashing.



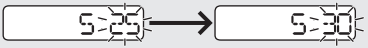
4. Press the select/reset button until the desired hour is displayed.



5. Press and hold the select/reset button. The minute digits start flashing.



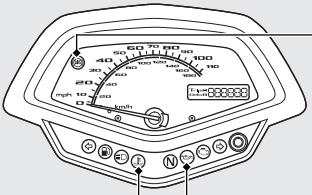
6. Press the select/reset button until the desired minute is displayed.



7. Press and hold the select/reset button until the display stop flashing. The clock is set.
   - ▶ The time can also be set by turning the ignition switch to the OFF position.
   - ▶ The display will stop flashing automatically and the adjustment will be cancelled if the button is not pressed for about 30 seconds.

Indicators

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



VT1300CXA

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.94

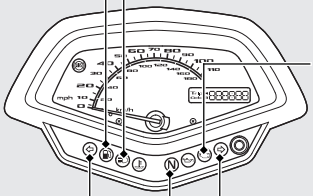
Low oil pressure indicator

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.93

High coolant temperature indicator

If it comes on while riding: P.92



Low fuel indicator
Comes on when there is only reserve fuel left in the fuel tank. Remaining fuel when the indicator comes on: 0.66 US gal (2.5 L)

High beam indicator

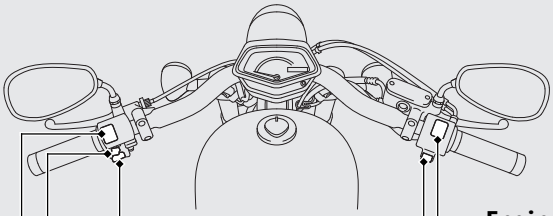
PGM-FI (Programmed Fuel Injection) malfunction indicator lamp (MIL)
Comes on briefly when the ignition switch is turned to the ON position with the engine stop switch in the ( ) (Run) position.
If it comes on while engine is running: P.93

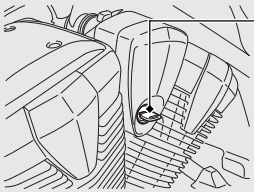
Right turn signal indicator

Neutral indicator
Comes on when the transmission is in Neutral.

Left turn signal indicator

Switches





Horn button

Turn signal switch

▶ Pressing the switch turns the turn signal off.

Headlight dimmer switch

- : High beam
- : Low beam

Engine stop switch

Should normally remain in the (Run) position.

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

Start button

Headlight turns off when operating the starter motor.

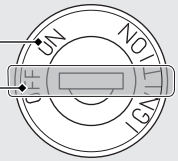
Ignition switch

Switches the electrical system on/off.

► Key can be removed when in the OFF position.

ON

Turns electrical system on for starting/riding.



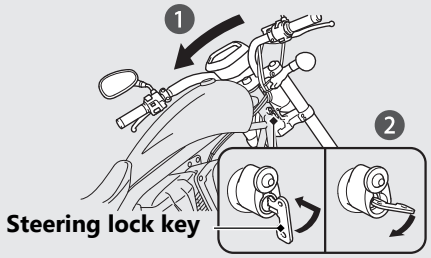
OFF

Turns engine off.

Switches *(Continued)*

Steering Lock

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



The shape of the steering lock key may differ from the actual key.

Locking

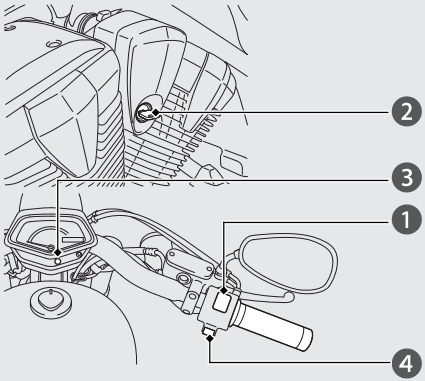
1. Turn the handlebar all the way to the left.
2. Insert the steering lock key in the steering lock, turn the key 90 degrees counterclockwise. Push and turn the key clockwise.
   ▶ Jiggle the handlebar if the lock is difficult to engage.
3. Remove the key.

Unlocking

Insert the steering lock key into the steering lock and turn it counterclockwise.

Starting the Engine

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



NOTICE

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

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

Continued

Starting the Engine *(Continued)*

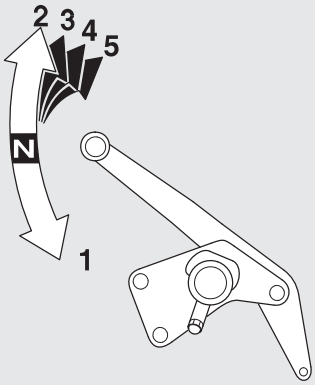
If the engine does not start:

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

If Engine Will Not Start ➡P.91

Shifting Gears

Your vehicle transmission has 5 forward gears in a one-down, four-up shift pattern.



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

Recommended Shift Points

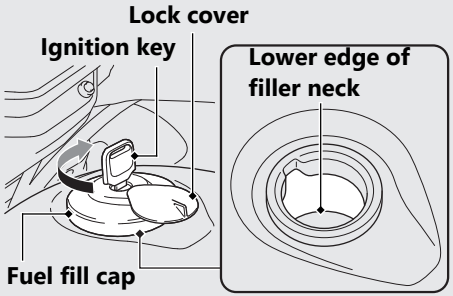
Shifting Up	
From 1st to 2nd	12 mph (20 km/h)
From 2nd to 3rd	19 mph (30 km/h)
From 3rd to 4th	25 mph (40 km/h)
From 4th to 5th	31 mph (50 km/h)

Shifting Down	
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 vehicle for long distances with the engine off can damage the transmission.

Refueling



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

Fuel type: Unleaded gasoline only

Recommended fuel octane number: Pump Octane Number (PON) 86 or higher.

Tank capacity: 3.38 US gal (12.8 L)

Refueling and Fuel Guidelines P.14

Opening the Fuel Fill Cap

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

Closing the Fuel Fill Cap

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

⚠WARNING

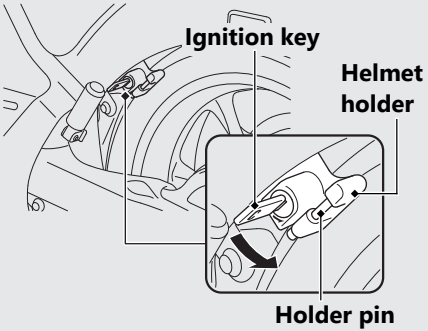
Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel.

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

Storage Equipment

Helmet Holder

Helmet holder is located on the left side below the seat.



Unlocking

Insert the ignition key and turn it counterclockwise.

Locking

1. Hang your helmet on the holder pin and push it in to lock.
2. Remove the ignition key.
   ▶ Use the helmet holder only when parked.

⚠WARNING

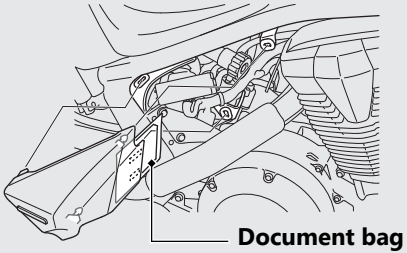
Riding with a helmet attached to the holder can interfere with the rear wheel or suspension and could cause a crash in which you can be seriously hurt or killed.

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

Storage Equipment *(Continued)*

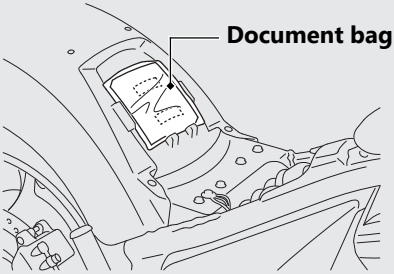
Document Bag

Store the owner's manual in the document bag attached to the inside of the right side cover.



Removing the Side Cover P.64

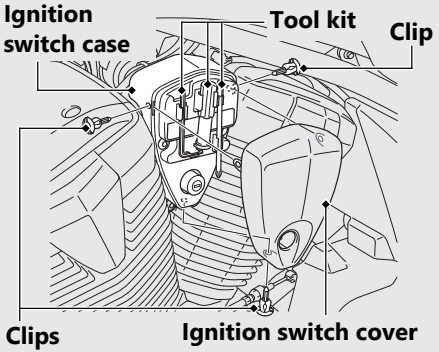
Store other documents in the document bag attached to the rear fender under the seat.



Removing the Seat P.61

Tool Kit

The tool kit is stored on the face of the ignition switch case behind the ignition switch cover.



Removing the Ignition Switch Cover

1. Remove the clips. ➡P.60
2. Remove the ignition switch cover.

Installing the Ignition Switch Cover

Install the parts in the reverse order of removal.

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. 39
Maintenance Schedule ..... P. 41
Maintenance Record ..... P. 44
Maintenance Fundamentals ..... P. 45
Removing & Installing Body Components .. P. 59
- Battery ..... P. 59
- Clip ..... P. 60
- Seat ..... P. 61
- Side Cover ..... P. 64

Spark Plug ..... P. 65
Engine Oil ..... P. 69
Air Cleaner ..... P. 73
Coolant ..... P. 74
Final Drive Oil ..... P. 76
Brakes ..... P. 78
Side Stand ..... P. 81
Clutch ..... P. 82
Throttle ..... P. 85
Crankcase Breather ..... P. 86
Other Adjustments ..... P. 87
- Adjusting the Headlight Aim ..... P. 87
- Adjusting the Rear Suspension ..... P. 88

Importance of Maintenance

Keeping your vehicle well-maintained is absolutely essential to your safety and to protect your investment, obtain maximum performance, avoid breakdowns, and reduce air pollution. Maintenance is the owner's responsibility. Be sure to inspect your vehicle before each ride, and perform the periodic checks specified in the Maintenance Schedule. ➡P. 41

⚠WARNING

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

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

For information about the exhaust emission and noise emission requirements of the U.S. Environmental Protection Agency (EPA), and the California Air Resources Board (CARB). ➡P. 120

Maintenance, replacement or repair of the emission control devices and systems may be performed by any vehicle 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 vehicle on a firm, level surface using the side stand or a maintenance stand to provide support.
- Allow the engine, muffler, brakes, and other high-temperature parts to cool before servicing as you can get burned.
- Run the engine only when instructed, and do so in a well-ventilated area.

Maintenance Schedule

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

Maintenance work should be performed in accordance with Honda's standards and specifications by properly trained and equipped technicians. Your dealer meets all of these requirements. All scheduled maintenance is considered a normal owner operating cost and will be charged to you by your dealer. Keeping an accurate maintenance record will help ensure your vehicle is properly maintained.
➔P. 44

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

Items		Frequency	Odometer Reading *1								Refer to page
			× 1,000 mi	0.6	4	8	12	16	20	24	
			× 1,000 km	1.0	6.4	12.8	19.2	25.6	32.0	38.4	
Emission-related Items	Fuel Line	🔧				I		I		I	–
	Throttle Operation	🔧				I		I		I	85
	Air Cleaner *2						R			R	73
	Crankcase Breather*3				C	C	C	C	C	C	86
	Spark Plugs				I	R	I	R	I	R	65
	Valve Clearance	🔧		I		I		I		I	–
	Engine Oil		Initial = 600 mi (1,000 km) or 1 month: R Regular = Every 8,000 mi (12,800 km) or 12 months: R								71
	Engine Oil Filter			R		R		R		R	71
	Engine Idle Speed	🔧		I	I	I	I	I	I	I	–
	Radiator Coolant *4					I		I		R	74
	Cooling System	🔧				I		I		I	–
	Secondary Air Supply System	🔧				I		I		I	–
	Evaporative Emission Control System *5	🔧					I			I	–

Maintenance Level

🔧 : Intermediate. We recommend service by your dealer, unless you have the necessary tools and are mechanically skilled. Procedures are provided in an official Honda Service Manual (P. 127).

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

Maintenance Legend

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

C : Clean

R : Replace

Items		Frequency	Odometer Reading *1								Refer to page
			× 1,000 mi	0.6	4	8	12	16	20	24	
			× 1,000 km	1.0	6.4	12.8	19.2	25.6	32.0	38.4	
Non-Emission-Related Items	Final Drive Oil					I		I		R	76
	Brake Fluid *4				I	I	R	I	I	R	78
	Brake Pads Wear				I	I	I	I	I	I	79
	Brake System			I		I		I		I	78
	Brake Light Switch					I		I		I	80
	Headlight Aim					I		I		I	87
	Clutch System			I	I	I	I	I	I	I	82
	Side Stand					I		I		I	81
	Suspension					I		I		I	88
	Nuts, Bolts, Fasteners			I		I		I		I	–
	Wheels/Tires					I		I		I	54
	Steering Head Bearings			I		I		I		I	–

Notes:

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

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

*3 : Service more frequently if the vehicle is ridden often at full throttle or in the rain.

*4 : Replace every 2 years, or at indicated odometer intervals, whichever comes first. Replacement requires mechanical skill.

*5 : 50 STATE (meets California).

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 pre-ride 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 vehicle:

- Tire tread wear and air pressures are within limits. ➔ P. 54
- Lights, horn, and turn signals operate normally.

Model not equipped with Optional Passenger Seat Kit

Check the following items if you are carrying a cargo:

Model equipped with Optional Passenger Seat Kit

Check the following items if you are carrying a passenger or cargo:

- Combined weight is within load limits. ➔ P. 133
- Cargo is secured properly.
- Suspension is adjusted to suit load. ➔ P. 88

Check the following items after you get on your vehicle:

- Throttle action moves smoothly without binding. ➔ P. 85
- Brake lever and pedal operate normally.
- Refuel when needed. ➔ P. 14, ➔ P. 34
- Engine stop switch functions properly. ➔ P. 28

Check the following items at regular intervals:

- Oil level is between the upper and lower level marks. ➔P. 69
- Brake fluid level is
  Front: above the LOWER level mark. ➔P. 78
  Rear: between the UPPER and LOWER level marks. ➔P. 78
- Engine coolant level is between the UPPER and LOWER level marks. ➔P. 74
- Side stand functions properly. ➔P. 81

Periodic Checks

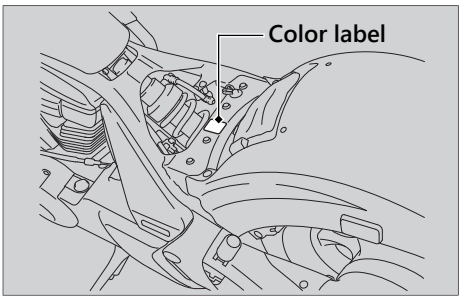
You should also perform other periodic maintenance checks at least once a month regardless of how often you ride, or more often if you ride frequently.

Also, check the odometer reading against the Maintenance Schedule and perform all maintenance that is due. ➡P. 41

Tires and wheels	Check the air pressure (➡P. 54), examine tread for wear and damage (➡P. 54), and check the wheels for damage.
Fluid levels	Check the engine oil level (➡P. 69), engine coolant level (➡P. 74), final drive oil level (➡P. 76), and brake fluid level (➡P. 78).
Lights	Check that the headlight, brake light, taillight, turn signals, and license plate light are working properly.
Controls	Check the freeplay of the throttle grip (➡P. 85), and clutch lever (➡P. 82). Check the front brake lever and rear brake pedal operate properly.
Fuses	Check that you have a full supply of spare fuses.
Nuts & bolts	Check the major nuts and bolts, and tighten as needed.
Crankcase breather	Service the crankcase breather more frequently if your vehicle is ridden in the rain or often at full throttle. Service the breather if you can see deposits in the transparent section of the drain tube (➡P. 86).

Replacing Parts

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 frame under the seat. P. 61



⚠WARNING

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

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

Battery

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

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

What to do in an emergency

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

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

⚠WARNING

The battery gives off explosive hydrogen gas during normal operation.

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

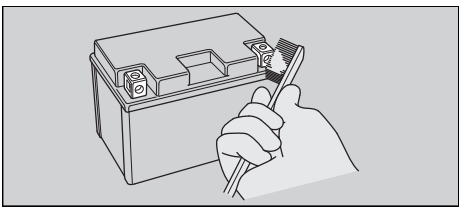
Wear protective clothing and a face shield, or have a skilled mechanic do the battery servicing.

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds. **Wash your hands after handling.**

Continued

Cleaning the Battery Terminals

1. Remove the battery. ➡ P. 59
2. If the terminals are starting to corrode and are coated with a white substance, wash with warm water and wipe clean.
3. If the terminals are heavily corroded, clean and polish the terminals with a wire brush or sandpaper. Wear safety glasses.



4. After cleaning, reinstall the battery.

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

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 vehicle's electrical system and is not recommended. Bump starting is also not recommended.

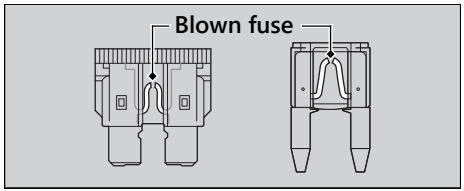
NOTICE
Installing non-Honda electrical accessories can overload the electrical system, discharging the battery and possibly damaging the system.

Fuses

Fuses protect the electrical circuits on your vehicle. If something electrical on your vehicle stops working, check for and replace any blown fuses. P. 108

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. 135



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

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

Engine Oil

Engine oil consumption varies and oil quality deteriorates according to riding conditions and time elapsed.
Check the engine oil level regularly, and add the recommended engine oil if necessary. Dirty oil or old oil should be changed as soon as possible.

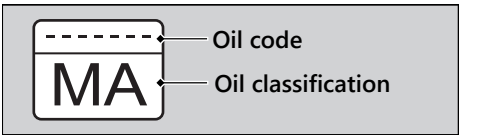
Selecting the Engine Oil

For recommended engine oil, see "Specifications." ➡ P. 134

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

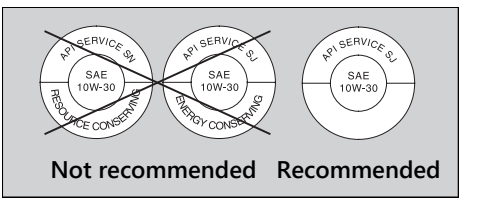
- JASO T 903 standard*1: MA
- SAE standard*2: 10W-30
- API classification*3: SG or higher

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



*2. The SAE standard grades oils by their viscosity.

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



Brake Fluid

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

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

Recommended brake fluid:
Honda DOT 4 Brake Fluid or equivalent

Final Drive Oil

Recommended final drive oil:
Hypoid gear oil SAE 80

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 Breather

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

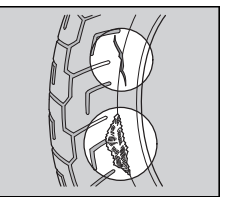
If the drain tube overflows, the air filter may become contaminated with engine oil causing poor engine performance. P. 86

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.

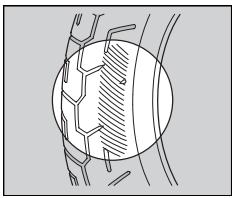
Inspecting for Damage



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.

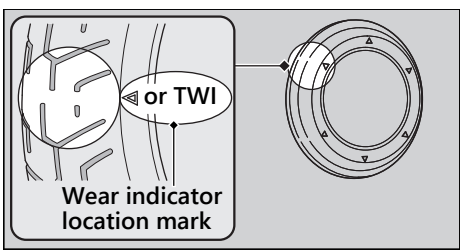
Inspecting for Abnormal Wear

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.



⚠WARNING

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.

Continued

Have your tires replaced by your dealer.
For recommended tires, air pressure and minimum tread depth, see "Specifications."
P. 134
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 vehicle. Excessive heat build-up can cause the tube to burst.
- Use only tubeless tires on this vehicle. The rims are designed for tubeless tires, and during hard acceleration or braking, a tube-type tire could slip on the rim and cause the tire to rapidly deflate.

⚠WARNING

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

Always use the size and type of 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.

① ② ③

DOT XXXX XXXX 22 09

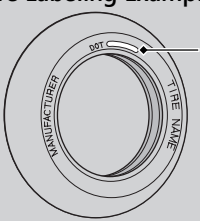
DOT: This indicates that the tire meets all requirements of the U.S. Department of Transportation.

① XXXX: Factory code

② XXXX: Tire type code

③ 22 09: Date of manufacture (week & year). Example: week 22 in year 09.

Tire Labeling Example

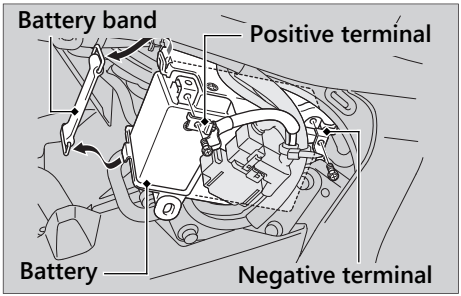


Tire identification number (TIN)

Air Cleaner

This vehicle 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 left side cover. P. 64
2. Remove the battery band.
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 ⊕ terminal first.

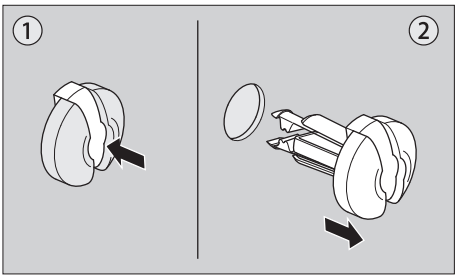
Make sure that bolts and nuts are tight.

Make sure the clock information is correct after the battery is reconnected. P. 25

For proper handling of the battery, see
"Maintenance Fundamentals." P. 49
"Battery Goes Dead." P. 104

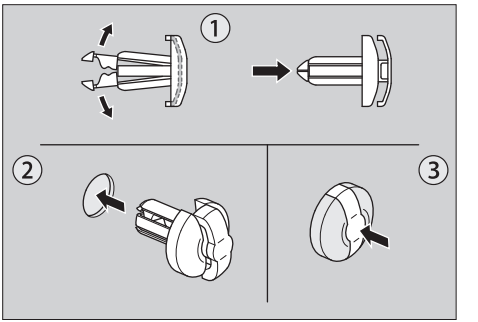
Clip

Removal



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

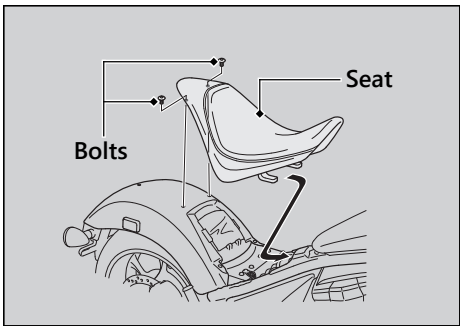
Installation



1. Slightly open the retaining pawls and then push them out.
2. Insert the clip into the hole.
3. Press down on the center pin to lock the clip.

Seat

Model not equipped with Optional Passenger Seat Kit



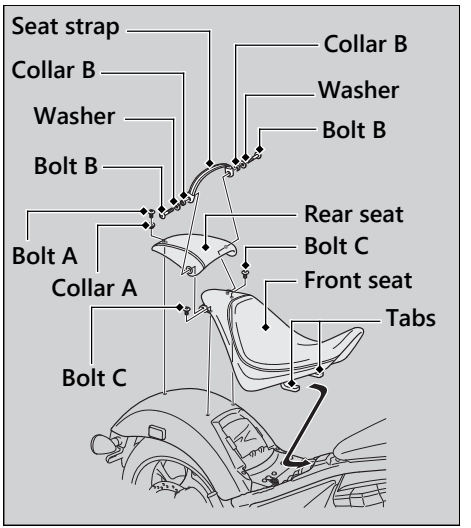
Removal

1. Remove the bolts.
2. Pull the seat back and up.

Installation

1. Insert the tabs into the recess under the frame.
2. Install and tighten the bolts.
   ▶ Be careful not to scratch the rear fender during seat installation or removal.

Model equipped with Optional Passenger Seat Kit



Removal

1. Remove the bolt A and collar A.
2. Remove the seat strap by removing the bolts B, washers and collars B.
3. Remove the rear seat.
4. Remove the bolts C.
5. Pull the front seat back and up.

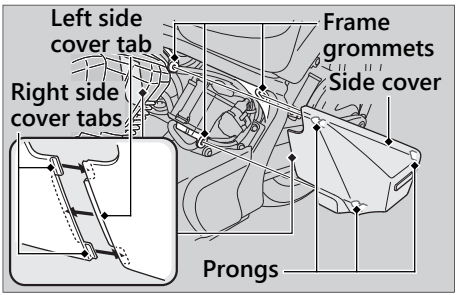
Installation

1. Insert the tabs into the recess under the frame.
2. Install and tighten the bolts C.
3. Install the rear seat.
4. Install the collars B, washers, bolts B and seat strap to the rear seat. Tighten the bolts B.

Torque: 16 lbf·ft (22 N·m, 2.2 kgf·m)

5. Install the bolt A and collar A.
6. Tighten the bolts securely.
   - ▶ Be careful not to scratch the rear fender during seat installation or removal.
   - ▶ Be careful not to get the seat caught between the stay and bolts while installing the seat.

Side Cover



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

Removal

1. Carefully pull the side cover out until the prongs are clear of the frame grommets.
2. Remove the side cover.

Installation

1. Align the left side cover tab with the right side cover tabs.
2. Position the side cover so the prongs are aligned with the frame grommets.
3. Push the prongs in.

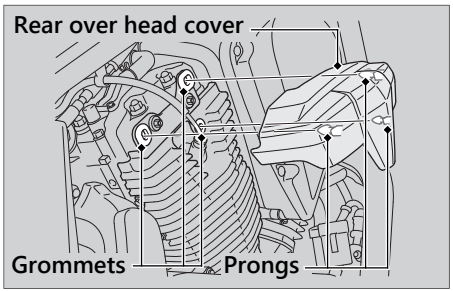
Checking Spark Plug

For the recommended spark plugs, see "Specifications." P. 134

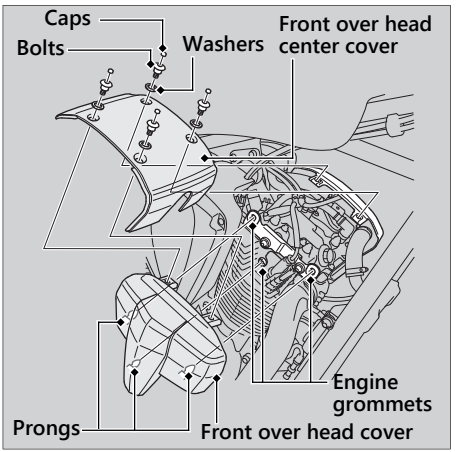
Use only the recommended type of spark plugs in the recommended heat range.

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

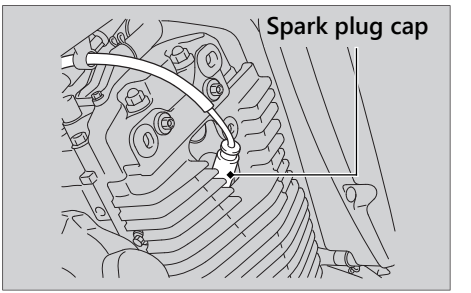
1. Carefully pull the rear over head covers on both sides out until the prongs are clear of the grommets.



2. Remove the caps, bolts and washers.
3. Carefully pull the front over head covers on both sides out until the prongs are clear of the engine grommets.
4. Remove the front over head center cover.



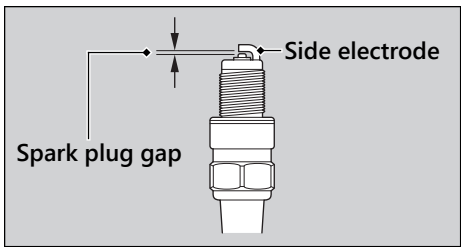
5. Disconnect the spark plug caps from the spark plugs.
6. Clean any dirt from around the spark plug bases.
7. Remove the spark plugs using a suitable spark plug wrench.



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

9. Check the spark plug gap using a wire-type feeler gauge.
- ▶ If adjustment is necessary, bend the side electrode carefully.

The gap should be:
0.03 - 0.04 in (0.8 - 0.9 mm)



10. Make sure the plug washer is in good condition.

11. Install the spark plugs. With the plug washers attached, thread the spark plugs in by hand to prevent cross-threading.

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

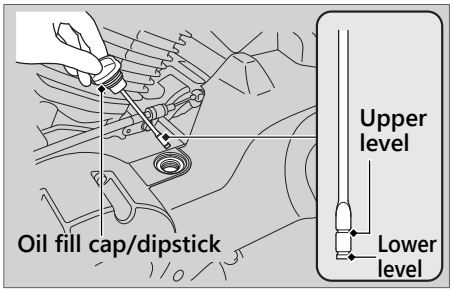
NOTICE
An improperly tightened spark plug can damage the engine. If a plug is too loose, a piston may be damaged. If a plug is too tight, the threads may be damaged.

13. Install the parts in the reverse order of removal.
▶ When reinstalling the spark plug caps, take care to avoid pinching any cables or wires.

14. Install the removed parts in the reverse order of removal.

Checking the Engine Oil

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



Adding Engine Oil

If the engine oil is below or near the lower level mark, add the recommended engine oil.
➡P. 52, ➡P. 134

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

2. Securely reinstall the oil fill cap/dipstick.

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

For the recommended oil and oil selection guidelines, see "Maintenance Fundamentals."
➡P. 52

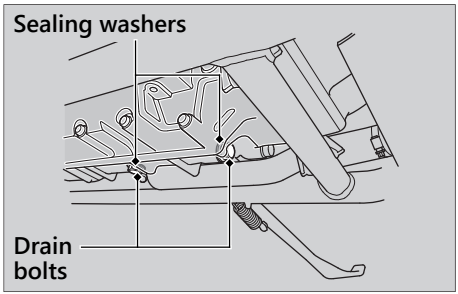
Changing Engine Oil & Filter

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

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

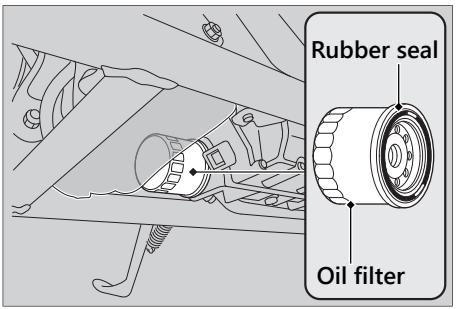
NOTICE
Using the wrong oil filter can result in serious damage to the engine.

1. If the engine is cold, idle the engine for 3 to 5 minutes.
2. Turn the ignition switch to the OFF position and wait for 2 to 3 minutes.
3. Place your vehicle on a firm, level surface.
4. Place a drain pan under the drain bolts.
5. Remove the oil fill cap/dipstick, drain bolts, and sealing washers to drain the oil.



Continued

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



7. Apply a thin coat of engine oil to the rubber seal of a new oil filter.
8. Install the new oil filter and tighten.

Torque: 19 lbf·ft (26 N·m, 2.7 kgf·m)

9. Install new sealing washers onto the drain bolts. Tighten the drain bolts.

Torque: 22 lbf·ft (30 N·m, 3.1 kgf·m)

10. Fill the crankcase with the recommended oil (P. 52, P. 134) and install the oil fill cap/dipstick.

Required oil

When changing oil & engine oil filter:
3.9 US qt (3.7 L)

When changing oil only:
3.7 US qt (3.5 L)

11. Check the oil level. P. 69
12. Check that there are no oil leaks.

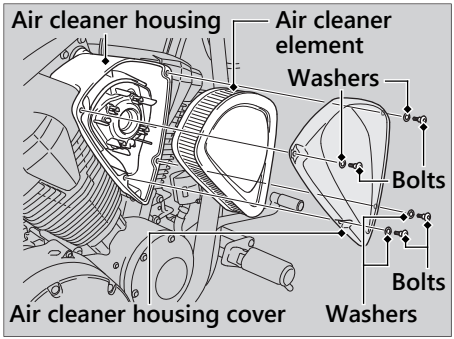
Changing Air Cleaner Element

Use a new Honda Genuine air cleaner element or an equivalent specified for your vehicle.

NOTICE
Using the wrong air cleaner element may cause premature engine wear or performance problems.

1. Remove the bolts, washers and air cleaner housing cover.
2. Remove the air cleaner element.
3. Thoroughly clean the inside of the air cleaner housing.
4. Install the new air cleaner element.
   ▶ Make sure the air cleaner element is installed securely.
5. Install the parts in the reverse order of removal.
6. Tighten the bolts.

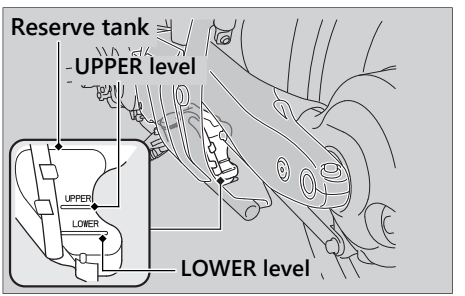
Torque: 1.1 lbf·ft (1.5 N·m, 0.2 kgf·m)



Checking the Coolant

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

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



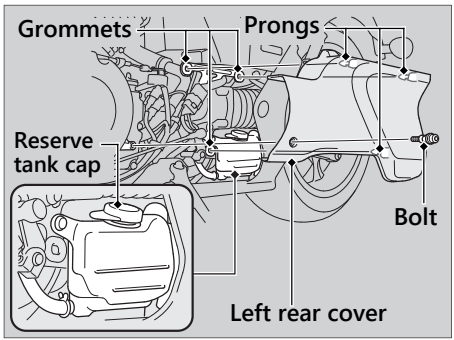
If the coolant level is dropping noticeably or the reserve tank is empty, you likely have a serious leak. Have your vehicle inspected by your dealer.

Adding Coolant

If the coolant level is below the LOWER level mark, add the recommended coolant (P. 53) 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 bolt.
2. Carefully pull the left rear cover out until the prongs are clear of the grommets.
3. Remove the left rear cover.



4. 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.
5. Securely reinstall the reserve tank cap.
6. Install the parts in the reverse order of removal.

⚠WARNING

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

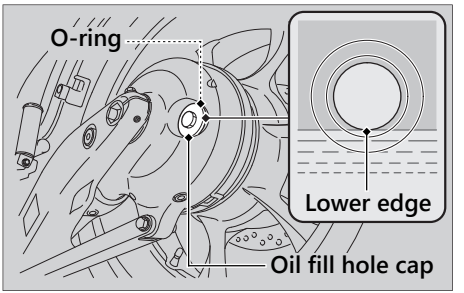
Always let the engine and radiator cool down before removing the radiator cap.

Changing Coolant

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

Checking the Final Drive Oil

1. Place your vehicle on the side stand on a level surface.
2. Remove the oil fill hole cap and O-ring.
3. Check the oil level. It should be flush with the lower edge of the oil fill hole.



Adding Final Drive Oil

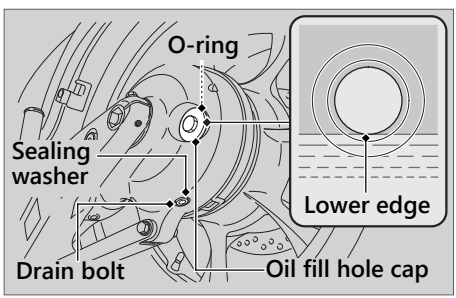
If the final drive oil level is low, check for oil leaks. Add the recommended final drive oil (P. 53) until it reaches the lower edge of the opening.

1. Pour the final drive oil into the oil fill hole until it reaches the lower edge of the opening.
   - ▶ Do not over fill above the lower edge of oil fill hole.
   - ▶ Make sure no foreign objects enter the oil fill hole.
   - ▶ Wipe up any spills immediately.
2. Install a new O-ring onto the oil fill hole cap. Tighten the oil fill hole cap.

Torque: 9 lbf·ft (12 N·m, 1.2 kgf·m)

Changing Final Drive Oil

1. Place your vehicle on the side stand on a level surface.
2. Place a drain pan under the drain bolt.
3. Remove the oil fill hole cap, O-ring, drain bolt, and sealing washer to drain the oil.
   ▶ Discard the oil at an approved recycling center.



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

Torque: 9 lbf·ft (12 N·m, 1.2 kgf·m)

5. Fill the final gear with the recommended oil. P. 53

Required oil: 4.4 US oz (130 cm^3)

6. Check the oil level. It should be flush with the lower edge of the oil fill hole.
7. Install a new O-ring onto the oil fill hole cap. Tighten the oil fill hole cap.

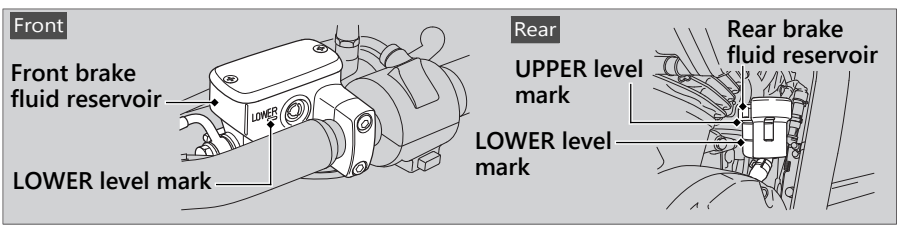
Torque: 9 lbf·ft (12 N·m, 1.2 kgf·m)

8. Check that there are no oil leaks.

Checking Brake Fluid

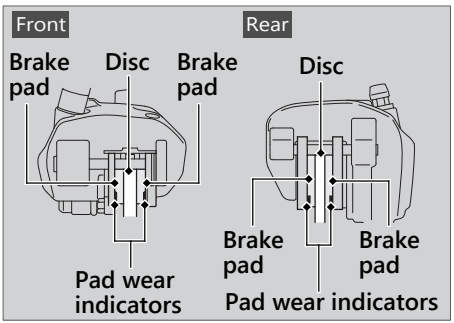
1. Place your vehicle in an upright position on a firm, level surface.
2. Front Check that the brake fluid reservoir is horizontal and that the fluid level is above the LOWER level mark.
3. Rear Check that the brake fluid reservoir is horizontal and that the level is between the LOWER level and UPPER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

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



Inspecting the Brake Pads

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

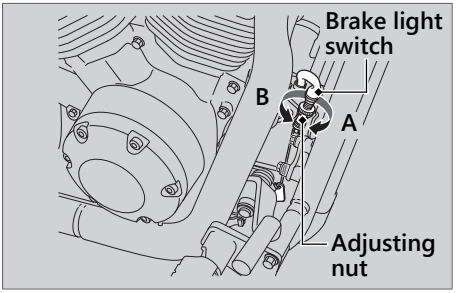


1. Front Inspect the brake pads from in the bottom of the brake caliper.
2. Rear Inspect the brake pads from the rear right of the vehicle.

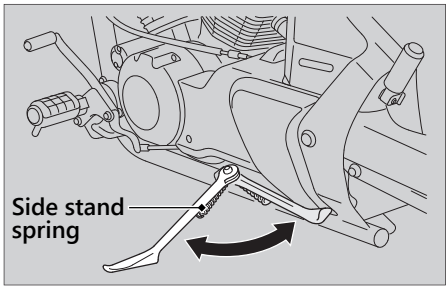
If necessary have the pads replaced by your dealer.
Always replace both left and right brake pads at the same time.

Adjusting the 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



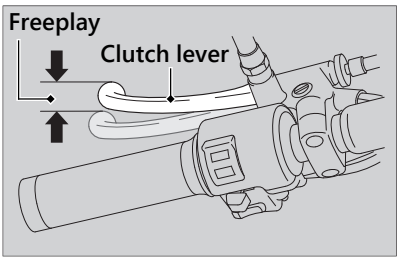
1. Check that the side stand operates smoothly. If the side stand is stiff or squeaky, clean the pivot area and lubricate the pivot bolt with clean grease.
2. Check the spring for damage or loss of tension.
3. Sit on the vehicle, shift the transmission to Neutral, and raise the side stand.
4. Start the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

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.

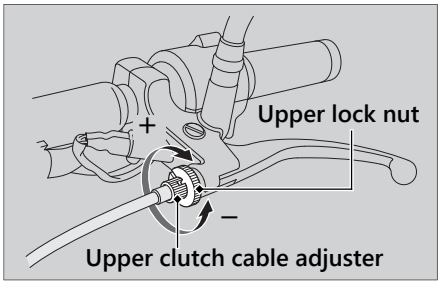
NOTICE
Improper freeplay adjustment can cause premature clutch wear.

Adjusting the Clutch Lever Freeplay

Upper Adjustment

Attempt adjustment with the upper clutch cable adjuster first.

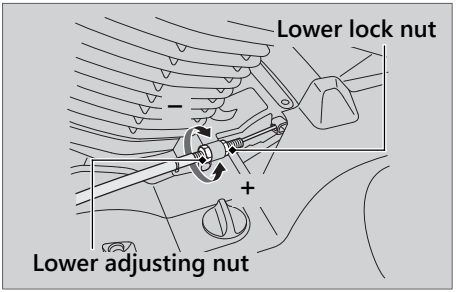
1. Loosen the upper lock nut.
2. Turn the upper clutch cable adjuster until the freeplay is 3/8 - 13/16 in (10 - 20 mm).
3. Tighten the upper lock nut and check the freeplay again.



Lower Adjustment

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

1. Loosen the upper lock nut and turn the upper clutch cable adjuster all the way in (to provide maximum freeplay). Tighten the upper lock nut.
2. Loosen the lower lock nut.
3. Turn the lower adjusting nut until the clutch lever freeplay is 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 vehicle does not creep. Gradually release the clutch lever and open the throttle. Your vehicle should move smoothly and accelerate gradually.

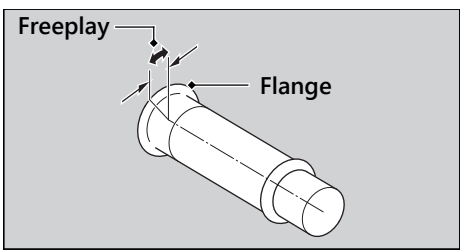


If proper adjustment cannot be obtained or the clutch does not work correctly, see your dealer.

Checking the Throttle

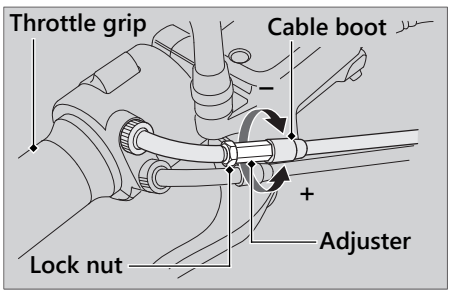
With the engine off, check that the throttle rotates smoothly from fully closed to fully open in all steering positions and throttle freeplay is correct. If the throttle does not move smoothly, close automatically, or if the cable is damaged, have the vehicle inspected by your dealer.

Freeplay at the throttle grip flange:
1/16 - 1/4 in (2 - 6 mm)



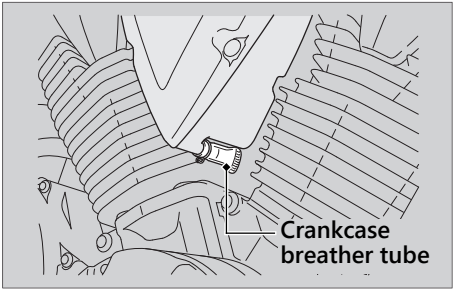
Adjusting the Throttle Freeplay

1. Slide the cable boot.
2. Loosen the lock nut.
3. Turn the adjuster until the freeplay is 1/16 - 1/4 in (2 - 6 mm).
4. Tighten the lock nut, return the cable boot, and inspect the throttle action again.



Cleaning the Crankcase Breather

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

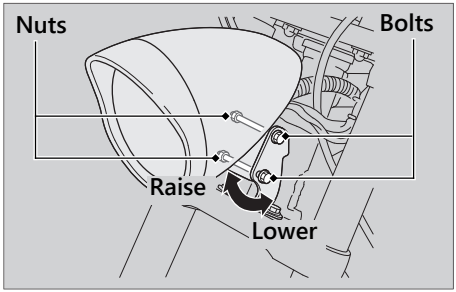


Adjusting the Headlight Aim

You can adjust vertical aim of the headlight for proper alignment. To move the headlight case, loosen the bolts and nuts. After adjustment, hand tighten the bolts and nuts first, then tighten.

Torque: 7 lbf·ft (10 N·m, 1.0 kgf·m)

Obey local laws and regulations.

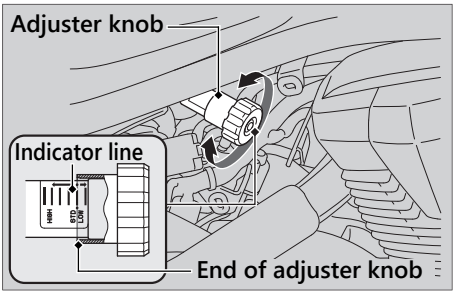


Adjusting the Rear Suspension

Spring Preload

You can adjust the spring preload by the adjuster knob to suit the load or the road surface.

1. Remove the right side cover. P. 64
2. Turn the adjuster knob clockwise to increase spring preload (hard), or turn counterclockwise to decrease spring preload (soft). The standard position is 6 clicks from the minimum setting (the first click is zero).

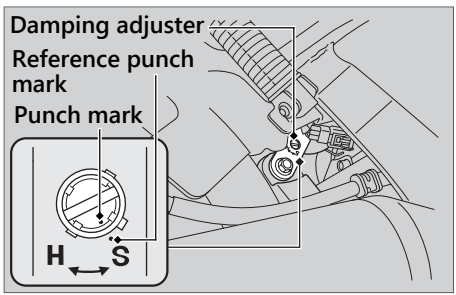


NOTICE
Do not turn the adjuster beyond its limits.

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.

Rebound Damping

You can adjust the rebound damping by the adjuster to suit the load or the road surface. Turn clockwise to increase rebound damping (hard), or turn counterclockwise to decrease rebound damping (soft). The standard position is 3/4 turns from the maximum setting 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 ..... P. 91
Overheating (High coolant temperature indicator is on) ..... P. 92
Warning Indicators On or Flashing ..... P. 93
Low Oil Pressure Indicator ..... P. 93
PGM-FI (Programmed Fuel Injection) Malfunction Indicator Lamp (MIL) ..... P. 93
ABS (Anti-lock Brake System) Indicator ..... P. 94
Tire Puncture ..... P. 95
Electrical Trouble ..... P. 104
Battery Goes Dead ..... P. 104
Burned-out Light Bulb ..... P. 104
Blown Fuse ..... P. 108

Starter Motor Operates But Engine Does Not Start

Check the following items:

- Check the correct engine starting sequence. ➡P. 31
- 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. 31
- Make sure engine stop switch is in the ⟳ (Run) position. ➡P. 28
- Check for a blown fuse. ➡P. 108
- Check for a loose battery connection (➡P. 59) or battery terminal corrosion (➡P. 49).
- Check the condition of the battery. ➡P. 104

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

Overheating (High coolant temperature indicator is on)

The engine is overheating when the following occurs:

- High coolant temperature indicator comes on.
- Acceleration becomes sluggish.

If this occurs, pull safely to the side of the road and perform the following procedure. Extended fast idling may cause the high coolant temperature indicator to come on.

NOTICE

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

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

   If the fan is not operating:

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

   If the fan is operating:

   Allow the engine to cool with the ignition switch in the OFF position.
3. After the engine has cooled, inspect the radiator hose and check if there is a leak. ➡P. 74

   If there is a leak:

   Do not start the engine. Transport your vehicle to your dealer.
4. Check the coolant level in the reserve tank. ➡P. 74

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

Low Oil Pressure Indicator

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

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

1. Check the engine oil level, and add oil as necessary. P. 69, P. 70
2. Start the engine.
   ► Only continue riding if the low oil pressure indicator goes off.

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

If the engine oil level goes down rapidly, your vehicle may have a leak or another serious problem. Have your vehicle inspected by your dealer.

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

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

ABS (Anti-lock Brake System) Indicator

VT1300CXA only

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

- Indicator comes on or starts flashing while riding.
- Indicator does not come on when the ignition switch is in the ON position.
- Indicator does not go off at speeds above 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).

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 vehicle 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.

⚠WARNING

Riding your vehicle 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.

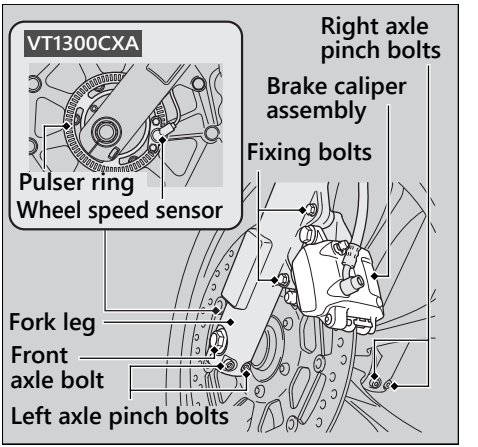
VT1300CXA only

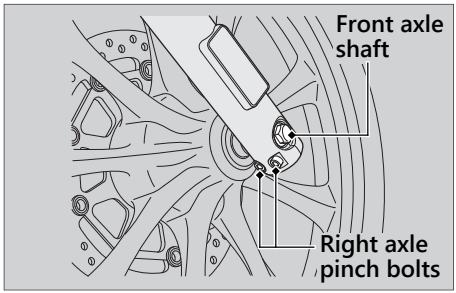
When removing and installing the wheel, be careful not to damage the wheel speed sensor and pulser ring.

Front Wheel

Removal

1. Place your vehicle on a firm, level surface.
2. Remove the fixing bolts and remove the left brake caliper assembly from the fork leg.
   - ▶ 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.
   - ▶ VT1300CX
     Do not pull the brake lever while the brake caliper is removed.
     VT1300CXA
     Do not pull the brake lever or depress the brake pedal while the brake caliper is removed.
3. Loosen the right and left axle pinch bolts.
4. Remove the front axle bolt.

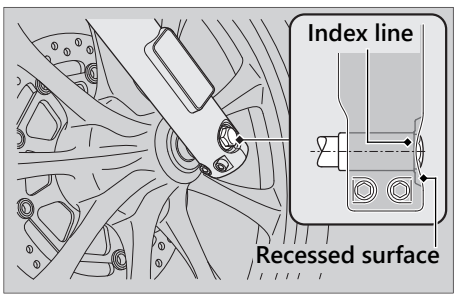




5. Support your vehicle securely and raise the front wheel off the ground using a maintenance stand or a hoist.
6. Remove the front axle shaft, front wheel and side collars.

Installation

1. Attach the side collars to the wheel.
2. On the right side, place the wheel between the fork legs and insert the front axle shaft, through the right fork leg and wheel hub.
3. Align the index line of the front axle shaft with the recessed surface of the fork leg.



4. Tighten the right axle pinch bolts.

Torque: 16 lbf·ft (22 N·m, 2.2 kgf·m)

Continued

5. Tighten the front axle bolt.

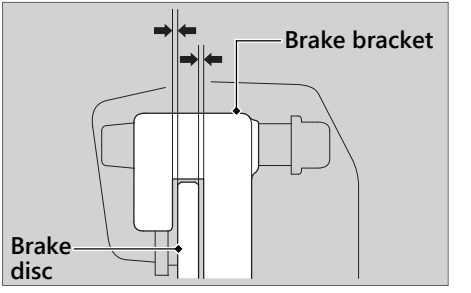
Torque: 47 lbf·ft (64 N·m, 6.5 kgf·m)

6. Install the brake caliper and tighten the fixing bolts.

Torque: 23 lbf·ft (31 N·m, 3.2 kgf·m)

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

7. Lower the front wheel on the ground.
8. Apply the brake lever several times. Then, pump the fork several times.
9. Raise the front wheel off the ground again, and check that the wheel rotates freely after you release the brake.
10. Check the clearances between each surface of the brake disc and the brake bracket (not the brake pads) are symmetrical.
▶ If the clearances are not symmetrical, loosen the right axle pinch bolts and pull the right fork outward or push inward to adjust the clearance.



11. Tighten the left axle pinch bolts.

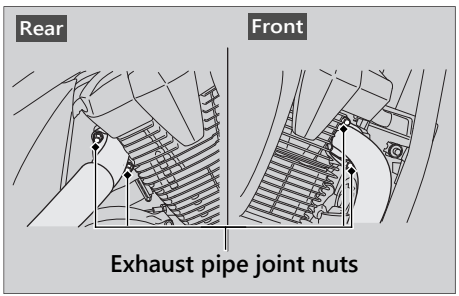
Torque: 16 lbf·ft (22 N·m, 2.2 kgf·m)

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.

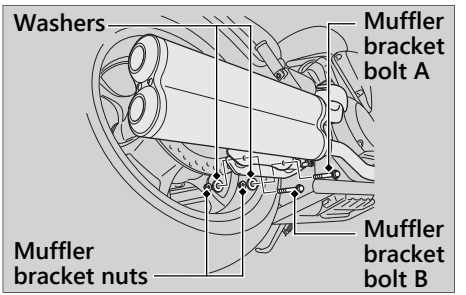
Rear Wheel

Removal

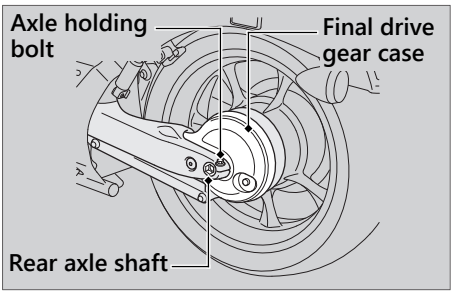
1. Support your vehicle securely and raise the rear wheel off the ground using a maintenance stand or a hoist.
2. Remove the exhaust pipe joint nuts.



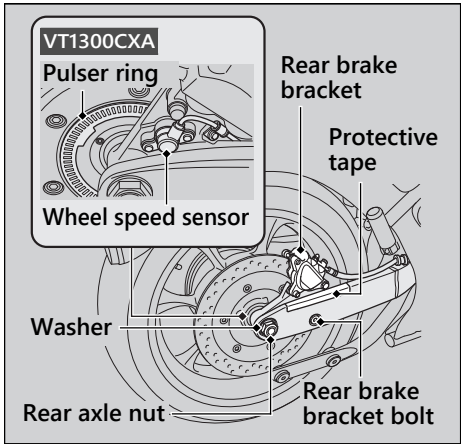
3. Remove the muffler bracket bolt A, bolt B, nuts and washers.
4. Remove the muffler.



5. While holding the outer end of the rear axle shaft with a wrench, remove the rear axle nut and washer.
6. Loosen the axle holding bolt.
7. Support your vehicle securely and raise the rear wheel off the ground using a maintenance stand or a hoist.



8. Cover the right swingarm with protective tape or an equivalent.
9. Remove the rear brake bracket bolt.
10. Slide the rear axle shaft to the left side until the rear wheel can be removed.
▶ Do not pull the rear axle shaft out completely.
11. Remove the rear brake bracket.
12. Move the wheel to the right to separate it from the final drive gear case.



Continued

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

Installation

Before installing the wheel, check that the wheel hub and final drive gear splines are coated with molybdenum disulfide paste.

Recommended molybdenum disulfide paste:
Pro Honda Moly 60 paste or equivalent

1. Install the side collar and position the wheel between the swingarm and the final drive gear case.
- ▶ Be sure the splines on the wheel hub fit into the final drive gear case.

2. Install the rear brake bracket and rear brake bracket bolt.

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

3. Push the rear axle shaft from the left side, through the wheel hub and rear brake bracket.
4. Remove the protective tape or an equivalent.
5. Install the rear axle nut and washer. Tighten the rear axle nut.

Torque: 94 lbf·ft (127 N·m, 13.0 kgf·m)

6. Tighten the rear brake bracket bolt.

Torque: 51 lbf·ft (69 N·m, 7.0 kgf·m)

7. Tighten the axle holding bolt.

Torque: 20 lbf·ft (27 N·m, 2.8 kgf·m)

8. After installing the wheel, apply the brake pedal several times, then check if the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.
Before installing the muffler, replace the exhaust pipe gasket with a new gasket.

9. Install the muffler, muffler bracket bolt A, B, nuts and washers.
Tighten the muffler bracket bolt A, B, nuts and exhaust pipe joint nuts.

Exhaust pipe joint nuts:
Torque: 17 lbf·ft (23 N·m, 2.3 kgf·m)
Muffler bracket bolt A, B and nuts:
Torque: 20 lbf·ft (27 N·m, 2.8 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.

Battery Goes Dead

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

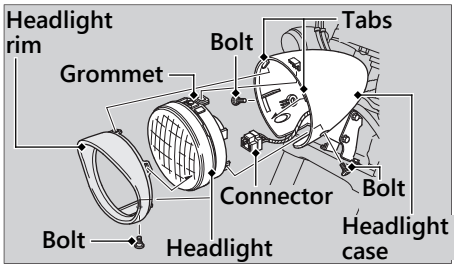
NOTICE
Jump starting using an automobile battery can damage your vehicle's electrical system and is not recommended.
Bump starting is also not recommended.

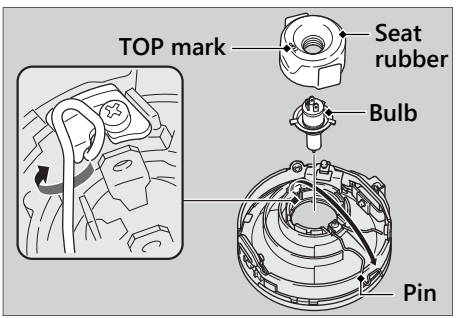
Burned-out Light Bulb

Follow the procedure below to replace a burned-out light bulb.
Turn the ignition switch to the OFF position.
Allow the bulb to cool before replacing it.
Do not use bulbs other than those specified.
Check the replacement bulb for correct operation before riding.

For the light bulb wattage, see "Specifications." ➔ P. 135

Headlight Bulb



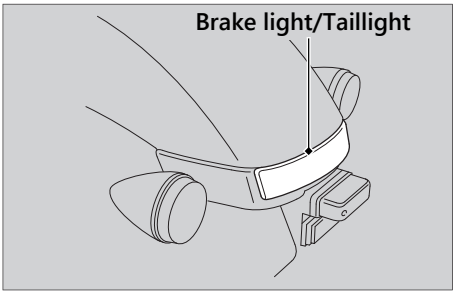


1. Remove the bolts from the headlight case.
2. Remove the headlight rim by pulling its lower end forward and release the tabs.
3. Remove the headlight by pulling it forward and release the grommet.
4. Disconnect the connector.
5. Remove the seat rubber.
6. Unhook the pin and remove the bulb.
7. Install a new bulb and parts in the reverse order of removal.
   ▶ Install the seat rubber with its TOP mark facing up.

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

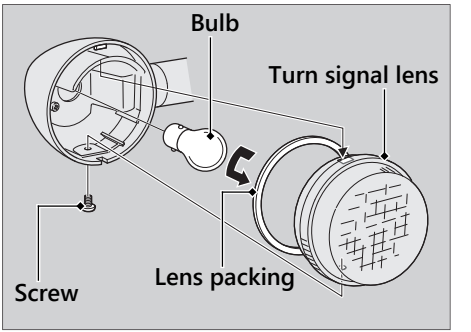
Continued

Brake Light/Taillight



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

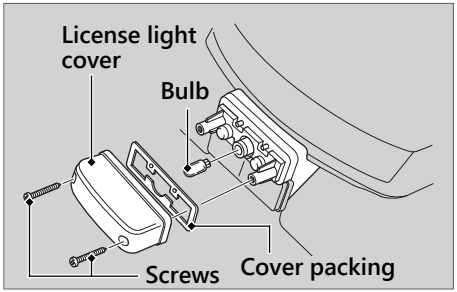
Front/Rear Turn Signal Bulb



1. Remove the turn signal lens by removing the screw.
2. Slightly press the bulb and turn it counterclockwise.
3. Install a new bulb and removed parts in the reverse order of removal.
   ▶ After putting back the lens packing in place, install the turn signal lens.

License Plate Light Bulb

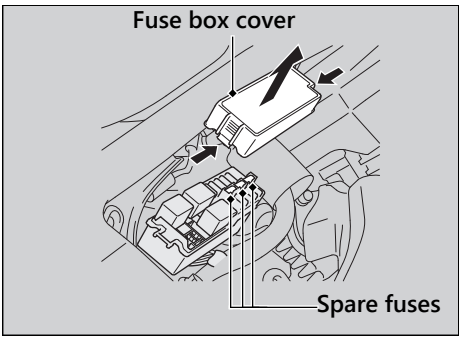
1. Remove the license light cover by removing the screws.
2. Pull the bulb out of the socket without turning it.
3. Install a new bulb and removed parts in the reverse order of removal.
   ▶ After putting back the cover packing in place, install the license light cover.



Blown Fuse

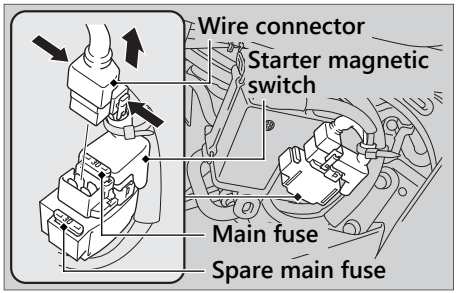
Before handling fuses, see "Inspecting and Replacing Fuses." P. 51

Fuse Box Fuses



1. Remove the right side cover. P. 64
2. Remove the fuse box cover.
3. Pull out the fuses one by one to check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.
4. Reinstall the fuse box cover.
5. Reinstall the right side cover.

Main Fuse



1. Remove the left side cover. P. 64
2. Disconnect the wire connector of the starter magnetic switch.
3. Pull the main fuse out and check for a blown fuse. Always replace a blown fuse with a spare fuse of the same rating.
   ▶ Spare main fuse is located under the starter magnetic switch.
4. Reinstall parts in the reverse order of removal.

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

Information

Keys.....P. 111
Instruments, Controls, & Other Features...P. 112
Caring for Your Vehicle.....P. 113
Storing Your Vehicle.....P. 116
Transporting Your Vehicle .....P. 117
You & the Environment .....P. 118
Vehicle Identification Number.....P. 119
Emission Control Systems .....P. 120
Catalytic Converter .....P. 125
Oxygenated Fuels.....P. 126
Authorized Manuals .....P. 127
Warranty Coverage and Service .....P. 128
Honda Contacts.....P. 130
Reporting Safety Defects .....P. 132

Keys

Ignition Key/Steering Lock Key

Be sure to record the key number provided with the original keys. Store the spare key and key number in a safe location.
To make a duplicate, take the spare key or the key number to your dealer.
If you lose all ignition keys and the key number, the ignition switch assembly will probably have to be removed by your dealer to determine the key number.

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

Instruments, Controls, & Other Features

Ignition Switch

Leaving the ignition switch in the ON position with the engine stopped will drain the battery.

Do not turn the key while riding.

Engine Stop Switch

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

Odometer

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

Tripmeter

The tripmeters return to 0.0 when each read-out exceeds 999.9.

Document Bag

The owner's manual, registration, and insurance information can be stored in the plastic document bag located inside of the right side cover and under the seat.

Ignition Cut-off System

A banking (lean angle) sensor automatically stops the engine and fuel pump if the vehicle falls over. To reset the sensor, you must turn the ignition switch to the OFF position and back to the ON position before the engine can be restarted.

Caring for Your Vehicle

Frequent cleaning and polishing is important to ensure the life of your Honda. A clean vehicle makes it easier to spot potential problems.
In particular, seawater and salts used to prevent ice on roads promote the formation of corrosion. Always wash your vehicle thoroughly after riding on coastal or treated roads.

Washing

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

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

Continued

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

3. Thoroughly rinse your vehicle with plenty of clean water and dry with a soft, clean cloth.
4. After the vehicle dries, lubricate any moving parts.
   ▶ Make sure that no lubricant spills onto the brakes or tires. Brake discs, pads, drum or shoes contaminated with oil will suffer greatly reduced braking effectiveness and can lead to a crash.
5. Apply a coat of wax to prevent corrosion.
   ▶ Avoid products that contain harsh detergents or chemical solvents. These can damage the metal, paint, and plastic on your vehicle.
   Keep the wax clear of the tires and brakes.
   ▶ If your vehicle 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.
- 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 to the inside the right side cover and under the seat:
  ▶ Water in the right side cover and 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.
  ▶ Any condensation inside the headlight should dissipate after a few minutes of running the engine with the headlight(s) on.
  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.

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.

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 Vehicle

If you store your vehicle outdoors, you should consider using a full-body cover.
If you won't be riding for an extended period, follow these guidelines:

- Wash your vehicle and wax all painted surfaces (except matte painted surfaces). Coat chrome pieces with rust-inhibiting oil.
- Place your vehicle 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 vehicle to dry.

- Remove the battery (P. 59) to prevent discharge. Fully charge the battery and then place it in a shaded, well-ventilated area.
  ▶ If you leave the battery in place, disconnect the negative ⊖ terminal to prevent discharge.

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

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

Transporting Your Vehicle

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

NOTICE
Towing your vehicle can cause serious damage to the transmission.

You & the Environment

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

Choose Sensible Cleaners

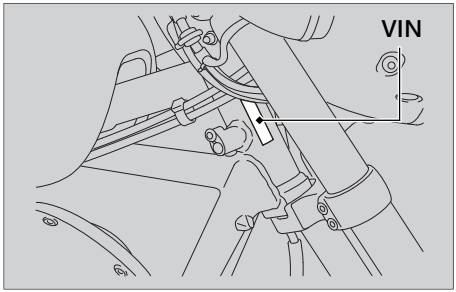
Use a biodegradable detergent when you wash your vehicle. Avoid aerosol spray cleaners that contain chlorofluorocarbons (CFCs) which damage the atmosphere's protective ozone layer.

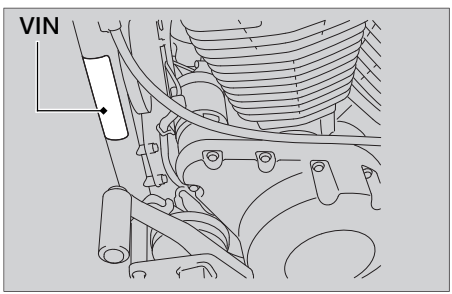
Recycle Wastes

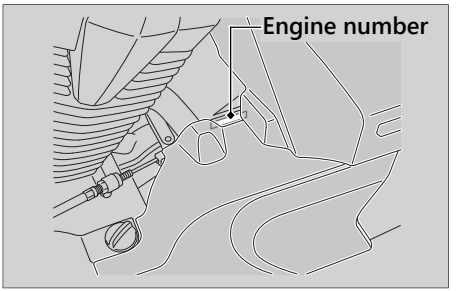
Put oil and other toxic wastes in approved containers and take them to a recycling center. Call your local or state office of public works or environmental services to find a recycling center in your area, and to get instructions on how to dispose of non-recyclable wastes. Do not place used engine oil 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 vehicle and are required in order to register your vehicle. They may also be required when ordering replacement parts. You should record these numbers and keep them in a safe place.







Emission Control Systems

Your vehicle 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.

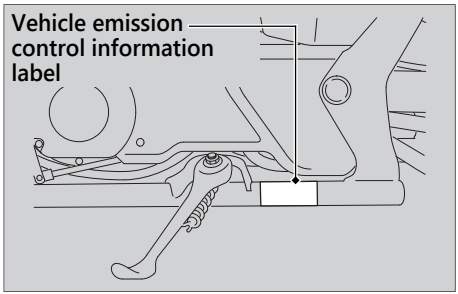
Exhaust Emission Requirements

The U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) require that your vehicle 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 vehicle comply with applicable evaporative emission requirements during its useful life, when operated and maintained according to the instructions provided.

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 left side of the frame.



Noise Emission Requirements

The EPA requires that vehicles 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.

Continued

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 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 Vehicle Exhaust Emissions

Have your vehicle 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 vehicle is equipped with two oxidation catalytic converters. Each catalytic converter contains precious metals that serve as catalysts in high temperature chemical reactions that convert hydrocarbons (HC) and carbon monoxide (CO) in the exhaust gasses into safe compounds.

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

Follow these guidelines to protect your vehicle's catalytic 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 vehicle.
- If your engine is misfiring, backfiring, stalling, or otherwise not running properly, stop riding and turn off the engine. Have your vehicle 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 vehicle:

- 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

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

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.

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.

Order online: 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
61MFR13	2020 VT1300CR/CRA/CX/CXA Service Manual
61CSM00	Common Service Manual
S9507	Winter Storage Guide
31MFR700	2020 VT1300CX/CXA Owner's Manual

Warranty Coverage and Service

Coverage

Your new Honda is covered by the following warranties:

- Vehicle Limited Warranty
- Emission Control System Warranty
- 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.

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 vehicle.

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.

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 vehicle, 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 vehicle 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.

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.

The parts department offers Honda Genuine Parts, Pro Honda products and Honda Genuine Accessories that provide the same quality that went into your vehicle.

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.

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*.

■ Main Components

Overall length	100.6 in (2,555 mm)	
Overall width	35.4 in (900 mm)	
Overall height	45.3 in (1,150 mm)	
Wheelbase	71.1 in (1,805 mm)	
Minimum ground clearance	4.9 in (125 mm)	
Caster angle	32° 00′	
Trail	3.6 in (92 mm)	
Curb weight	**VT1300CX**	
	49 STATE	659 lb (299 kg)
	50 STATE (meets California)	661 lb (300 kg)
	VT1300CXA	
	49 STATE	672 lb (305 kg)
	50 STATE (meets California)	675 lb (306 kg)
Maximum weight capacity *1	322 lb (146 kg)	
Passenger capacity	Model not equipped with Optional Passenger Seat Kit	Rider only (no passenger)
	Model equipped with Optional Passenger Seat Kit	Rider and 1 passenger
Minimum turning radius	11.8 ft (3.6 m)	

Displacement	80.0 cu-in (1,312 cm³)	
Bore x stroke	3.52 x 4.11 in (89.5 x 104.3 mm)	
Compression ratio	9.2:1	
Fuel	Unleaded gasoline Recommended fuel octane number: Pump Octane Number (PON) 86 or higher.	
Tank capacity	3.38 US gal (12.8 L)	
Battery	YTZ14S 12 V-11.2 Ah (10 HR)	
Gear ratio	1st	1.900
	2nd	1.230
	3rd	0.909
	4th	0.756
	5th	0.676
Reduction ratio (primary / secondary / final)	1.935 / 0.944 / 2.818	

*1 : Including rider, all luggage, and accessories

■ Service Data

Tire size	Front	90/90-21M/C 54H
	Rear	200/50R18M/C 76H
Tire type	Front	Bias-ply, tubeless
	Rear	Radial, tubeless
Recommended Tire	Front	DUNLOP D422F METZELER ME 880
	Rear	DUNLOP D423 METZELER ME 880
Tire air pressure	Front	33 psi (225 kPa, 2.25 kgf/cm^2)
	Rear	41 psi (280 kPa, 2.80 kgf/cm^2)
Minimum tread depth	Front	0.06 in (1.5 mm)
	Rear	0.08 in (2.0 mm)
Spark plug	(standard)	DCPR6E (NGK) or XU20EPR-U (DENSO)
	(high speed riding)	DCPR7E (NGK) or XU22EPR-U (DENSO)
Spark plug gap		0.03 - 0.04 in (0.8 - 0.9 mm)
Idle speed	(non-adjustable)	930 ± 100 rpm

Recommended engine oil	API Service Classification SG or higher except oils labeled as energy conserving or resource conserving on the circular API service label, SAE 10W-30, JASO T 903 standard MA, Pro Honda GN4 4-stroke oil (USA & Canada) or Honda 4-stroke oil, or an equivalent motorcycle oil	
Engine oil capacity	After draining	3.7 US qt (3.5 L)
	After draining & engine oil filter change	3.9 US qt (3.7 L)
	After disassembly	4.5 US qt (4.3 L)
Recommended final drive oil	Hypoid gear oil SAE 80	
Final drive oil capacity	After draining	4.4 US oz (130 cm^3)
	After disassembly	5.7 US oz (170 cm^3)
Recommended brake fluid	Honda DOT 4 Brake Fluid	
Cooling system capacity	2.68 US qt (2.54 L)	
Recommended coolant	Pro Honda HP Coolant	

■ Bulbs

Headlight	12 V-60/55 W
Brake light/Taillight	LED
Front turn signal	12 V-21/5 W × 2
Rear turn signal	12 V-21 W × 2
License plate light	12 V-5 W

■ Fuses

Main fuse	30 A	
Other fuse	**VT1300CX**	20 A, 10 A
	VT1300CXA	30 A, 20 A, 10 A

■ Torque Specifications

Seat mounting bolts B	16 lbf·ft (22 N·m, 2.2 kgf·m)
Oil filter	19 lbf·ft (26 N·m, 2.7 kgf·m)
Engine oil drain bolt	22 lbf·ft (30 N·m, 3.1 kgf·m)
Air cleaner housing cover bolt	1.1 lbf·ft (1.5 N·m, 0.2 kgf·m)
Final drive oil fill hole cap	9 lbf·ft (12 N·m, 1.2 kgf·m)
Final drive oil drain bolt	9 lbf·ft (12 N·m, 1.2 kgf·m)
Headlight bolt and nut	7 lbf·ft (10 N·m, 1.0 kgf·m)
Front wheel axle pinch bolt	16 lbf·ft (22 N·m, 2.2 kgf·m)
Front wheel axle bolt	47 lbf·ft (64 N·m, 6.5 kgf·m)
Front brake caliper fixing bolt	23 lbf·ft (31 N·m, 3.2 kgf·m)
Rear brake bracket bolt	51 lbf·ft (69 N·m, 7.0 kgf·m)
Rear wheel axle nut	94 lbf·ft (127 N·m, 13.0 kgf·m)
Rear wheel axle holding bolt	20 lbf·ft (27 N·m, 2.8 kgf·m)
Exhaust pipe joint nut	17 lbf·ft (23 N·m, 2.3 kgf·m)
Muffler bracket bolt A, B, and nut	20 lbf·ft (27 N·m, 2.8 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	

Index

A

ABS (Anti-lock Brake System) indicator 26, 94
Accessories 15
Air Cleaner 58, 73
Authorized Manuals 127

B

Battery 49, 59
Brake Light Switch 80
Brakes
- Fluid 53, 78
- Pad Wear 79

Braking 11
Bulb
- Brake Light/Taillight 106
- Front Turn Signal 106
- Headlight 105
- License Plate Light 107
- Rear Turn Signal 106

C

Caring for Your Vehicle 113
Catalytic Converter 125
Clip 60
Clock 24
Clutch System 82
Color Label 48
Compartment
- Owner's Manual 36
- Tool Kit 37

Coolant 53, 74
Crankcase Breather 54, 86

D

Digital Clock Adjustment 25

E

Electrical Trouble 104
Emission Control Systems 120

Engine
Number 119
Oil 52, 69
Oil Filter 71
Overheats 92
Starting 31
Stop Switch 28, 31, 112
Stopping 112
Will Not Start 91
Environment 118
Equipment
Owner's Manual 36, 112
Tool Kit 37

F
Final Drive Oil 53, 76
Flooded Engine 31
Fuel
Recommended 34
Tank Capacity 34
Fuses 51, 108

G
Gasohol 126
Gasoline 34

H
Headlight Aim 87
Headlight Dimmer Switch 28
Helmet Holder 35
High Beam Indicator 27
High Coolant Temperature Indicator ... 26, 92
Honda Contacts 130
Horn Button 28

I
Ignition Cut-off System
Banking Sensor 113
Side Stand 81
Ignition Key 111
Ignition Switch 29, 31, 112
Indicators 26
Information Record 136
Instruments 24

L
Labels 7
Load Limits 16

Loading Guidelines 16
Low fuel indicator 27
Low Oil Pressure Indicator 26, 93

M
Maintenance
Fundamentals 45
Importance 39
Safety 40
Schedule 41
Maximum Weight Limit 16
Modifications 15

N
Neutral Indicator 27

O
Odometer 24, 112
Oil
Engine 52, 69
Final Drive 53, 76
Overheating 92
Oxygenated Fuels 126

P
Parking 13
Parts Location 20
PGM-FI (Programmed Fuel Injection) Malfunction Indicator Lamp (MIL) 27, 93
Protective Apparel 9

R
Rear Suspension 88
Recommended
Coolant 53
Engine Oil 52
Final Drive Oil 53
Fuel 34
Refueling 34
Removal
Battery 59
Clip 60
Seat 61
Side Cover 64
Repair Kit 95
Reporting Safety Defects 132
Riding Precautions 11

S
Safety Labels 7
Safety Precautions 9
Shifting Gears 33
Side Cover 64
Side Stand 81
Side Stand Ignition Cut-off System 81
Spark Plug 65
Specifications 133
Speedometer 24
Start Button 28, 31
Starting the Engine 31
Steering Lock 30
Stopping Engine 112
Storage
Equipment 35
Owner's Manual 36, 112
Tool Kit 37
Storing Your Vehicle 116
Switches 28

T
Throttle 85
Tires
Air Pressure 54
Puncture 95
Replacing 54, 56, 95
Transporting Your Vehicle 117
Tripmeter 24, 112
Troubleshooting 90
Turn Signal Indicator 27
Turn Signal Switch 28

V
Vehicle Identification Number 119

W
Warning Indicators On 93
Warranty Coverage and Service 128
Washing Your Vehicle 113
Weight Limit 16, 133
Wheels
Front Removal 96
Rear Removal 99

California Proposition 65 Warning

⚠**WARNING:** 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.