<table>
<thead>
<tr>
<th>Contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motorcycle Safety</td>
<td>P. 2</td>
</tr>
<tr>
<td>Operation Guide</td>
<td>P. 16</td>
</tr>
<tr>
<td>Maintenance</td>
<td>P. 31</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td>P. 78</td>
</tr>
<tr>
<td>Information</td>
<td>P. 92</td>
</tr>
<tr>
<td>Specifications</td>
<td>P. 113</td>
</tr>
<tr>
<td>Index</td>
<td>P. 117</td>
</tr>
</tbody>
</table>
Congratulations on your purchase of a new Honda motorcycle. Your selection of a Honda makes you part of a worldwide family of satisfied customers who appreciate Honda’s reputation for building quality into every product.

To ensure your safety and riding pleasure:
● Read this owner’s manual carefully.
● Follow all recommendations and procedures contained in this manual.
● Pay close attention to safety messages contained in this manual and on the motorcycle.

To protect your investment, we urge you to take responsibility for keeping your motorcycle well serviced and maintained. Also, observe the break-in guidelines, and always perform the pre-ride inspection and other periodic checks in this manual.

When service is required, remember that your Honda dealer knows your motorcycle best. If you have the required mechanical “know-how” and tools, you can purchase an official Honda Service Manual to help you perform many maintenance and repair tasks. P. 107

Read the warranty information thoroughly so that you understand the warranty coverage and that you are aware of your rights and responsibilities. P. 109

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

Happy riding!

California Proposition 65 Warning
WARNING: This product contains or emits chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
A Few Words About Safety

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

You will find important safety information in a variety of forms, including:
- Safety labels on the motorcycle.
- Safety Messages preceded by a safety alert symbol and one of three signal words: DANGER, WARNING, or CAUTION. These signal words mean:

  **DANGER**
  You WILL be KILLED or SERIOUSLY HURT if you don’t follow instructions.

  **WARNING**
  You CAN be KILLED or SERIOUSLY HURT if you don’t follow instructions.

  **CAUTION**
  You CAN be HURT if you don’t follow instructions.

Other important information is provided under the following titles:
- **NOTICE** Information to help you avoid damage to your motorcycle, other property, or the environment.
Motorcycle Safety

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

Safety Guidelines ...........................................P. 3
Safety Labels ..................................................P. 7
Safety Precautions ........................................P. 9
Riding Precautions .......................................P. 10
Accessories & Modifications .........................P. 13
Loading .......................................................P. 14
Safety Guidelines

Follow these guidelines to enhance your safety:
● Perform all routine and regular inspections specified in this manual.
● Stop the engine and keep sparks and flame away before filling the fuel tank.
● Do not run the engine in enclosed or partly enclosed areas. Carbon monoxide in exhaust gases is toxic and can kill you.

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

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

Take Time to Learn & Practice
Even if you have ridden other motorcycles, practice riding in a safe area to become familiar with how this motorcycle works and handles, and to become accustomed to the motorcycle’s size and weight.
Safety Guidelines

Motorcycle Safety

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 motorcycle.

Ride Defensively

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

Make Yourself Easy to See

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

Ride within Your Limits

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

Don’t Drink and Ride

Alcohol and riding don’t mix. Even one alcoholic drink can reduce your ability to respond to changing conditions, and your reaction time gets worse with every additional drink. Don’t drink and ride, and don’t let your friends drink and ride either.
Keep Your Honda in Safe Condition
It’s important to keep your motorcycle properly maintained and in safe riding condition. Inspect your motorcycle before every ride and perform all recommended maintenance. Never exceed load limits (P. 14), and do not modify your motorcycle or install accessories that would make your motorcycle unsafe (P. 13).

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

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

continued
Safety Guidelines

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

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

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

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

Safety and information labels on your motorcycle provide important safety information and may warn you of potential hazards that could cause serious injury. Read these labels carefully and don’t remove them. If a label comes off or becomes hard to read, contact your dealer for a replacement.

WARNING
Improper loading can cause a crash and you may be seriously hurt or killed.
See “Load Limits and Guidelines” in your Owner’s Manual for complete instructions.

For your protection, always wear your helmet while riding.
Read the owner’s manual carefully.
Safety Labels

Motorcycle Safety

TIRE INFORMATION

<table>
<thead>
<tr>
<th>Tire size</th>
<th>Front 3.00-18 47P</th>
<th>Rear 130/90-15M/C 66P</th>
</tr>
</thead>
</table>

Cold tire pressures:
- [Up to maximum weight capacity] [Up to 90kg (200lbs) load]
  - Front 200kPa 2.00kg/cm² 29psi
  - Rear 200kPa 2.00kg/cm² 29psi
- Maximum weight capacity: 156kg (345lbs)

<table>
<thead>
<tr>
<th>Tire brand</th>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRIDGESTONE</td>
<td>L303A</td>
<td>G508</td>
</tr>
<tr>
<td>DUNLOP</td>
<td>F11</td>
<td>K627</td>
</tr>
</tbody>
</table>

Min. recommended tire center tread depth:
- Front 1.5mm (0.06in.)
- Rear 2.0mm (0.08in.)

Read owner's manual.
Safety Precautions

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

Protective Apparel

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

- **Helmet**
  Should be safety-standard certified, 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.

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

- **Gloves**
  Full-finger leather gloves with high abrasion resistance
Riding Precautions

I Boots or Riding Shoes
Sturdy boots with non-slip soles and ankle protection

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

Riding Precautions

Break-in Period
During the first 300 miles (500 km) of running, follow these guidelines to ensure your motorcycle’s future reliability and performance.
- Avoid full-throttle starts and rapid acceleration.
- Avoid hard braking and rapid down-shifts.
- Ride conservatively.

Brakes
Observe the following guidelines:
- Avoid excessively hard braking and down-shifts.
  ▶ Sudden braking can reduce the motorcycle’s stability.
  ▶ Where possible, reduce speed before turning; otherwise you risk sliding out.
Exercise caution on low traction surfaces.
- The 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.

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

Wet or Rainy Conditions
Road surfaces are slippery when wet, and wet brakes further reduce braking efficiency. Exercise extra caution when braking in wet conditions.
If the brakes get wet, apply the brakes while riding at low speed to help them dry.

Parking
- Park on a firm, level paved surface.
- If you must park on a slight incline or loose surface, park so that the motorcycle cannot move or fall over.
- Make sure that high-temperature parts cannot come into contact with flammable materials.
- Do not touch the engine, muffler, brakes and other high-temperature parts until they cool down.
Riding Precautions

- To reduce the likelihood of theft, always lock the handlebar and remove the key when leaving the motorcycle unattended. Use of an anti-theft device is also recommended.

Parking with the Side Stand
1. Stop the engine.
2. Push the side stand down.
3. Slowly lean the motorcycle to the left until its weight rests on the side stand.
4. Turn the handlebar fully to the left.
   - Turning the handlebar to the right reduces stability and may cause the motorcycle to fall.
5. Turn the ignition switch to the OFF position and remove the key.
6. Lock the steering. P. 20
7. Turn the fuel valve OFF.

Refueling and Fuel Guidelines
Follow these guidelines to protect the engine:
- 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. 106
- 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 motorcycle by Honda or make modifications to your motorcycle from its original design. Doing so can make it unsafe. Modifying your motorcycle may also void your warranty and make your motorcycle illegal to operate on public roads and highways. Before deciding to install accessories on your motorcycle be certain the modification is safe and legal.

WARNING

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

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

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

- Carrying extra weight affects your motorcycle’s handling, braking and stability. Always ride at a safe speed for the load you are carrying.
- Avoid carrying an excessive load and keep within specified load limits.

**WARNING**

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

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

- Fuse box ➞ P.90
- Battery ➞ P.50
- Main fuse ➞ P.91
- Front brake fluid reservoir ➞ P.59
- Throttle grip ➞ P.74
- Spark plug ➞ P.52
- Engine oil fill cap/dipstick ➞ P.54
- Throttle stop screw (engine idle speed) ➞ P.57
- Crankcase breather ➞ P.75
- Rear suspension spring preload adjuster ➞ P.77
Instruments and Indicators

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

- **Speedometer**
- **Gear range indicator**
  Shows proper speed range for each gear.
- **Odometer**
  Total distance ridden.
- **Tripmeter**
  Distance ridden since tripmeter was reset.
- **Turn signal indicator**
- **Neutral indicator**
  Comes on when the transmission is in Neutral.
**Tripmeter reset knob**
The tripmeter reset knob is used to reset the tripmeter to zero (0) by turning the knob in the direction shown in the illustration.
**Switches**

**Engine stop switch**
- Should normally remain in the RUN position.
- In an emergency, switch to the off position to stop the engine.

**Headlight dimmer switch**
- High beam
- Low beam

**Horn button**

**Turn signal switch**
- Pressing the switch turns the turn signal off.

**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.

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

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

**Unlocking**
Insert the ignition key in the lock and turn it 180 degrees counterclockwise.
Fuel Valve

The three-way fuel valve is used to control the flow of fuel from the fuel tank to the carburetor.

**ON**: normal position for riding.

**OFF**: for parking, storing, or transportation.

**RES**: for extra fuel to get to a gas station for refueling.
Starting the Engine

Start your engine using the following procedure.

1. Turn the fuel valve to the ON position. \( \Rightarrow \) P. 22
2. Make sure the engine stop switch is in the RUN position.
3. Turn the ignition switch to the on position.
4. Shift the transmission to Neutral (indicator comes on). Alternatively, pull in the clutch lever to start your motorcycle with the transmission in gear so long as the side stand is raised.

**NOTICE**

- If the engine does not start within 5 seconds, turn the ignition off and wait 10 seconds before trying to start the engine again to recover battery voltage.
- Extended use of the choke, fast idling and revving the engine can damage the engine.

**Normal Air Temperature 10-35 °C (50-95 °F):**

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

5 Pull the choke lever back all the way to fully on, if the engine is cold.
6 Start the engine, leaving the throttle closed.
7 Immediately after the engine starts, operate the choke lever to keep fast idle.
8 About a half minute after the engine starts, push the choke lever forward all the way to fully off.
9 If idling is unstable, open the throttle slightly.

High Air Temperature 35 °C (95 °F) or Above:

1 Do not use the choke.
2 Open the throttle slightly.
3 Start the engine.

Low Air Temperature 10 °C (50 °F) or Below:

1 Follow steps 1-6 under “Normal Air Temperature.”
2 When engine rpm begins to pick up, operate the choke lever to keep fast idle.
3 Continue warming up the engine until it runs smoothly and responds to the throttle when the choke lever is at fully off.

If the engine does not start:

1 Press the engine stop switch to the off position.
2 Push the choke lever forward all the way to fully off.
3 Open the throttle fully.
4 Press the start button for 5 seconds.
5 Wait 10 seconds, then press the engine stop switch to the RUN position.
6 Follow “High Air Temperature.”

If Engine Will Not Start (P79)
Shifting Gears

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

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

<table>
<thead>
<tr>
<th>Recommended Shift Points</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shifting Up</strong></td>
</tr>
<tr>
<td>From 1st to 2nd</td>
</tr>
<tr>
<td>From 2nd to 3rd</td>
</tr>
<tr>
<td>From 3rd to 4th</td>
</tr>
<tr>
<td>From 4th to 5th</td>
</tr>
<tr>
<td><strong>Shifting Down</strong></td>
</tr>
<tr>
<td>From 5th to 4th</td>
</tr>
<tr>
<td>From 4th to 3rd</td>
</tr>
</tbody>
</table>

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

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

**Fuel type:** Unleaded gasoline only

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

**Tank capacity including the reserve:**
2.64 US gal (10.0 liters)

**Reserve capacity:** 0.71 US gal (2.7 liters)

The tank should be refilled as soon as possible after switching to reserve, and the fuel valve should be returned to the ON position after refueling to avoid running out of fuel with no reserve. ➔ P. 22

---

**Opening the Fuel Fill Cap**

Open the lock cover, insert the ignition key, and turn it clockwise to open the cap.
Closing the Fuel Fill Cap

1. After 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.

3. Turn the fuel valve to the ON position (if it was set on RES).

---

**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
The helmet holder is located on the left side below the seat.

<table>
<thead>
<tr>
<th>Unlocking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insert the ignition key and turn it counterclockwise to unlock.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Locking</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Hang your helmet on the holder pin.</td>
</tr>
<tr>
<td>2 Push in the holder pin and remove the ignition key.</td>
</tr>
</tbody>
</table>

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.
**Tool Kit**
The tool kit is stored in the tool kit compartment located beside the right side cover.

- **Opening the Tool Kit Compartment**
  1. Insert the ignition key into the key slot on the compartment cover.
  2. Turn the ignition key clockwise.
  3. Remove the compartment cover.

- **Closing the Tool Kit Compartment**
  1. Align the tabs and push it in.
  2. Turn the ignition key counterclockwise.
  3. Remove the ignition key.
Storage Equipment (Continued)

Document Bag
The document bag is located on the inside of the left side cover.

Be careful not to flood this area when washing your motorcycle.

Removing the left side cover ➔ P.51
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 dealer’s parts department.
Importance of Maintenance

Keeping your motorcycle well-maintained is absolutely essential to your safety and to protect your investment, obtain maximum performance, avoid breakdowns, and reduce air pollution. Maintenance is the owner’s responsibility. Be sure to inspect your motorcycle before each ride, and perform the periodic checks specified in the Maintenance Schedule.  P. 34

**WARNING**

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

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

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. 101

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

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

Follow these guidelines when performing maintenance.

● Stop the engine and remove the key.
● Place your motorcycle on a firm, level surface using the side stand 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.
The maintenance schedule specifies the maintenance requirements necessary to ensure safe, dependable performance, and proper emission control.

Maintenance work should be performed in accordance with Honda’s standards and specifications by properly trained and equipped technicians. Your dealer meets all of these requirements. Keep an accurate record of maintenance to help ensure that your motorcycle is properly maintained. Make sure that whomever performs the maintenance completes this record.

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

<table>
<thead>
<tr>
<th>Items</th>
<th>Frequency</th>
<th>Odometer Reading*1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>x 1,000 mi</td>
<td>0.6</td>
</tr>
<tr>
<td></td>
<td>x 1,000 km</td>
<td>1.0</td>
</tr>
<tr>
<td>Fuel Line</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Throttle Operation</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Carburetor Choke</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Air Cleaner*2</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Crankcase Breather*3</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Spark Plugs</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Valve Clearance</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Engine Oil</td>
<td>Initial = 600 mi (1,000 km) or 1 month: R</td>
<td>Regular = Every 4,000 mi (6,400 km) or 6 months: R</td>
</tr>
<tr>
<td>Engine Oil Strainer Screen</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Engine Idle Speed</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Evaporative Emission Control System*5</td>
<td></td>
<td>I</td>
</tr>
</tbody>
</table>

### 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. 107).

- **Technical**: In the interest of safety, have your motorcycle serviced by your dealer.

continued 35
## Maintenance Schedule

<table>
<thead>
<tr>
<th>Items</th>
<th>Frequency</th>
<th>Odometer Reading*1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>× 1,000 mi</td>
<td>0.6</td>
</tr>
<tr>
<td></td>
<td>× 1,000 km</td>
<td>1.0</td>
</tr>
<tr>
<td>Drive Chain</td>
<td>Every 500 mi (800 km):</td>
<td>L</td>
</tr>
<tr>
<td>Brake Fluid*4</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Brake Shoes/Pads Wear</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Brake System</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Brake light Switch</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Headlight Aim</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Clutch System</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Side Stand</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Suspension</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Nuts, Bolts, Fasteners</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Wheels/Tires</td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>Steering Head Bearings</td>
<td></td>
<td>I</td>
</tr>
</tbody>
</table>

### Maintenance Legend

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

### Notes:

- **1**: At higher odometer readings, repeat at the frequency interval established here.
- **2**: Service more frequently when riding in unusually wet or dusty areas.
- **3**: Service more frequently when riding in rain or at full throttle.
- **4**: Replace every 2 years, or at indicated odometer intervals, whichever comes first. Replacement requires mechanical skill.
- **5**: 50 STATE (meets California).
Maintenance Fundamentals

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

Check the following items before you get on your motorcycle:
- Tire tread wear and air pressures are within limits. P. 46
- Lights, horn, and turn signals operate normally.
- Check the condition of the drive chain. Adjust slack and lubricate as needed. P. 44, 67

Check the following items if you are carrying a passenger or cargo:
- Combined weight is within load limits. P. 113
- Cargo is secured properly.
- Suspension spring preload is adjusted to suit load. P. 77

Check the following items after you get on your motorcycle:
- Throttle action moves smoothly without binding. P. 74
- Brake lever and pedal operate normally.
- Refuel when needed. P. 12, 26
- Engine stop switch functions properly. P. 20

Check the following items at regular intervals:
- Oil level is between the upper and lower level marks. P. 54
- Brake fluid level is Front: above the LOWER level mark. P. 59
- Side stand functions properly. P. 66
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. 34

<table>
<thead>
<tr>
<th>Periodic Checks</th>
</tr>
</thead>
<tbody>
<tr>
<td>You should also perform other periodic maintenance</td>
</tr>
<tr>
<td>checks at least once a month regardless of how</td>
</tr>
<tr>
<td>often you ride, or more often if you ride frequently.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Also, check the odometer reading against the</td>
</tr>
<tr>
<td>Maintenance Schedule and perform all maintenance</td>
</tr>
<tr>
<td>that is due.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Action Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tires and wheels</td>
<td>Check the air pressure (P. 46), examine tread for wear and damage (P. 46), and</td>
</tr>
<tr>
<td></td>
<td>check the rims and spokes for damage.</td>
</tr>
<tr>
<td>Fluid levels</td>
<td>Check the engine oil level (P. 54) and brake fluid level (P. 59).</td>
</tr>
<tr>
<td>Lights</td>
<td>Check that the headlight, brake light, taillight, turn signals and license plate</td>
</tr>
<tr>
<td></td>
<td>light are working properly.</td>
</tr>
<tr>
<td>Controls</td>
<td>Check the freeplay of the clutch lever (P. 71), rear brake pedal (P. 61), and</td>
</tr>
<tr>
<td></td>
<td>throttle grip (P. 74).</td>
</tr>
<tr>
<td>Drive chain</td>
<td>Check the slack (P. 67), adjust the slack (P. 68), and lubricate (P. 45) as</td>
</tr>
<tr>
<td></td>
<td>needed.</td>
</tr>
<tr>
<td>Fuses</td>
<td>Check that you have a full supply of spare fuses.</td>
</tr>
<tr>
<td>Nuts &amp; bolts</td>
<td>Check the major nuts and bolts, and tighten as needed.</td>
</tr>
</tbody>
</table>
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 air cleaner housing cover behind the left side cover. ➔ P. 51

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

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

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

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

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.
Cleaning the Battery Terminals

1. Remove the battery. P. 50
2. If the terminals are starting to corrode and are coated with a white substance, wash with warm water and wipe clean.
3. If the terminals are heavily corroded, clean and polish the terminals with a wire brush or sandpaper. Wear safety glasses.

4. After cleaning, reinstall the battery.

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

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.
Fuses protect the electrical circuits on your motorcycle. If something electrical on your motorcycle stops working, check for and replace any blown fuses. ▶ P. 90

Inspecting and Replacing Fuses
Turn off the ignition switch to remove and inspect fuses. If a fuse is blown, replace with a fuse of the same rating. For fuse ratings, see “Specifications.” ▶ P. 115

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

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

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

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

Maintenance Fundamentals
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. 114

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*: MA
- SAE standard*: 10W-30
- API classification*: 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.
Maintenance Fundamentals

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

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

**Recommended brake fluid:**
Honda DOT 3 or DOT 4 Brake Fluid or equivalent

**Drive Chain**
The drive chain must be inspected and lubricated regularly. Inspect the chain more frequently if you often ride on bad roads, ride at high speed, or ride with repeated fast acceleration. P. 67

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

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

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

Recommended lubricant:
Pro Honda HP Chain Lube or equivalent

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


Maintenance Fundamentals

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

If the drain tube overflows, the air filter may become contaminated with engine oil causing poor engine performance. P. 75

**Tires (Inspecting/Replacing)**

I **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.

I **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.

I **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.

![Wear indicator location mark]

**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.

Have your tires replaced by your dealer. For recommended tires, air pressure and minimum tread depth, see “Specifications.”

Follow these guidelines whenever you replace tires.

- Use the recommended tires or equivalents of the same size, construction, speed rating, and load range.
Maintenance Fundamentals

- Have the wheel balanced with Honda Genuine balance weights or equivalent after the tire is installed.
- Remember to replace the inner tube whenever you replace a tire. The old tube will probably be stretched, and it could fail if installed in a new tire.

**WARNING**

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

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

---

**Tire Service Life**

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

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

The last four digits of the TIN (tire identification number) indicate the date of manufacture.
**Tire Identification Number (TIN)**
The tire identification number (TIN) is a group of numbers and letters located on the sidewall of the tire.

![Tire Labeling Example]

**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.

**Air Cleaner**

This motorcycle is equipped with a viscous type air cleaner element which cannot be cleaned with compressed air or otherwise without degrading its performance. If the filter becomes dirty, replace it with a new one.
Removing & Installing Body Components

Battery

**Removal**
Make sure the ignition switch is off.
1. Remove the right side cover.  P. 51
2. Release the rings and remove the rubber band.
3. Disconnect the negative $\ominus$ terminal from the battery.
4. Disconnect the positive $\oplus$ terminal from the battery.
5. Remove the battery taking care not to drop the terminal nuts.

**Installation**
Install the parts in the reverse order of removal. Always connect the positive $\oplus$ terminal first. Make sure that bolts and nuts are tight.
For proper handling of the battery, see "Maintenance Fundamentals."  P. 40
"Battery Goes Dead."  P. 86
The right and left side covers can be removed in the same manner.

**Removal**
1. Remove the screw.
2. Remove the prongs from the grommets.

**Installation**
1. Insert the prongs into the grommets.
2. Push the side cover in place.
3. Tighten the screw securely.
Checking Spark Plug

For the recommended spark plugs, see “Specifications.” P. 114

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. Disconnect the spark plug caps from the spark plugs.
2. Clean any dirt from around the spark plug bases.
3. Remove the spark plugs using the spark plug wrench.

4. 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.
5. Check the spark plug gap using a wire-type feeler gauge.
   - If adjustment is necessary, bend the side electrode carefully.

   **The gap should be:**
   0.024 to 0.028 in (0.60 to 0.70 mm)

   ![Spark plug gap](image)

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

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

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

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

9. Reinstall the spark plug caps. Take care to avoid pinching any cables or wires.
Checking the Engine Oil

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

If the engine oil is below or near the lower level mark, add the recommended engine oil.  
☞ P. 43, 114

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

2. Securely reinstall the oil fill cap/dipstick.

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

For the recommended oil and oil selection guidelines, see “Maintenance Fundamentals.”  ☞ P. 43
Changing Engine Oil

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

1. If the engine is cold, idle the engine for 3 to 5 minutes.
2. Turn the ignition switch off, and wait for 2 to 3 minutes.
3. Place your motorcycle on a firm, level surface.
4. Place a drain pan under the drain bolt.
5. Remove the oil fill cap/dipstick, drain bolt and sealing washer to drain the oil.
   Discard the oil at an approved recycling center.
6. Install a new sealing washer onto the drain bolt. Tighten the drain bolt.
   **Torque:** 18 lbf·ft (25 N·m, 2.5 kgf·m)
7. Fill the crankcase with the recommended oil (☞ P. 43, 114) and install the oil fill cap/dipstick.

**Required oil**
When changing oil:
1.6 US qt (1.5 liters)

8. Check the oil level. ☞ P. 54
9. Check that there are no oil leaks.
Engine Idle Speed

Adjusting the Engine Idle Speed

The best way to assure proper carburetion is to see your dealer for regularly scheduled servicing, including carburetor adjustment. Remember, idle speed adjustment is not a “cure-all” for other problems in your engine’s fuel-delivery system. Adjusting the idle will not compensate for a fault elsewhere.

For information about high altitude carburetor adjustment, see “High Altitude Carburetor Adjustment.” ➼ P. 105

The engine must be at normal operating temperature for accurate idle speed adjustment. 10 minutes of stop-and-go riding is sufficient.

1. Warm up the engine, place the motorcycle on its side stand.
2. Connect a tachometer to the engine.
3. Adjust idle speed with the throttle stop screw.

Idle speed (In neutral): 1,400 ± 100 rpm

[Diagram of throttle stop screw with increase and decrease indicators]
Air Cleaner

Changing Air Cleaner Element

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

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

1. Remove the left side cover. P. 51
2. Remove the air cleaner housing cover by removing the screws.
3. Pull the retainer out and remove the air cleaner element.
4. Disconnect the tube from the air cleaner element.
5. Install the new air cleaner element.
   - Make sure the air cleaner element is installed securely.
6. Install the parts in the reverse order of removal.
Brakes

Checking the Front Brake Fluid

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

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

Inspect the brake pads from below the brake caliper.

If necessary have the pads replaced by your dealer. Always replace both left and right brake pads at the same time.
**Adjusting the Rear Brake Pedal Height**

The stopper bolt is provided to allow adjustment of the pedal height.

1. Place your motorcycle on its side stand on a firm, level surface.
2. Loosen the lock nut and turn the stopper bolt.
3. Tighten the lock nut and check the freeplay.

**Inspecting the Rear Brake Pedal Freeplay**

1. Place your motorcycle on its side stand on a firm, level surface.
2. Measure the distance of the rear brake pedal before the starts to take hold.

**Freeplay at the tip of the brake pedal:**
13/16 to 1 3/16 in (20 to 30 mm)

Make sure the brake rod, brake arm, spring and fastener are in good condition.
Brakes ▶ Adjusting the Rear Brake Pedal Freeplay

Adjusting the Rear Brake Pedal Freeplay

Make sure the cut-out on the adjusting nut is seated on the brake arm pin when adjusting the freeplay.

1. Adjust by turning the rear brake adjusting nut a half-turn at a time.
2. Apply the brake several times and check for free wheel rotation after the brake pedal is released.

If proper adjustment cannot be obtained by this method, see your dealer.
3. Push the brake arm to confirm that there is a gap between the rear brake adjusting nut and brake arm pin.

After adjustment, confirm the freeplay of the brake pedal.

Make sure the brake rod, brake arm, spring and fastener are in good condition.
Inspecting the Rear Brake Shoe Wear

The rear brake is equipped with a brake wear indicator.

When the brake is applied, an arrow attached to the brake arm moves toward a reference mark on the brake panel. If the arrow aligns with the reference mark on full application of the brake, the brake shoes must be replaced.

See your dealer for this service.

When the brake service is necessary, see your dealer. Use only Honda Genuine Parts or its equivalent.
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.
Side Stand

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 motorcycle, put the transmission in Neutral, and raise the side stand.
4. Start the engine, pull the clutch lever in, and shift the transmission into gear.
5. Lower the side stand all the way. The engine should stop as you lower the side stand. If the engine doesn’t stop, have your motorcycle inspected by your dealer.
Drive Chain

Inspecting the Drive Chain

Slack

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

1. Shift the transmission to Neutral.
   Stop the engine.
2. Place your motorcycle on the side stand on a level surface.

3. Check the slack in the lower half of the drive chain midway between the sprockets.

   Drive chain slack:
   9/16 to 1 in (15 to 25 mm)

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

4. Roll the motorcycle forward and check that the chain moves smoothly.
5. Inspect the sprockets. \( \Rightarrow \) P. 44
6. Clean and lubricate the drive chain.  

Adjusting the Drive Chain Slack

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

1. Place the transmission in Neutral. Stop the engine.
2. Place your motorcycle on the side stand on a level surface.
3. Loosen the rear axle nut.
4. Loosen the lock nuts on both sides of the swingarm.
5. Turn both adjusting nuts an equal number of turns until the correct drive chain slack is obtained. Turn the adjusting nuts clockwise to tighten the chain. Turn the adjusting nuts counterclockwise and push the rear wheel toward the front to provide more slack. Adjust the slack at a point midway between the front sprocket and the rear wheel sprocket. Check the drive chain slack. P. 67

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

7. Tighten the rear axle nut.

| Torque: 65 lbf·ft (88 N·m, 9.0 kgf·m) |

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

9. Recheck drive chain slack.

10. Rear brake pedal freeplay is affected when repositioning the rear wheel to adjust drive chain slack. Check rear brake pedal freeplay and adjust as necessary. P. 61

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.

continued 69
Checking the Drive Chain Wear

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

**Chain:** RK 520MOZ9 or DID 520V

If necessary have the drive chain replaced by your dealer.

Checking the Drive Chain Slider

Check the condition of the drive chain slider. The drive chain slider will need to be replaced if the chain slider is worn to the wear limit line.

If necessary have the drive chain slider replaced by your dealer.
Clutch

Checking the Clutch

Checking the Clutch Lever Freeplay
Check the clutch lever freeplay.

**Freeplay at the clutch lever:**
3/8 to 13/16 in (10 to 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

I Upper Adjustment
Attempt adjustment with the upper clutch cable adjuster first.

1. Pull back the rubber dust cover.
2. Loosen the upper lock nut.
3. Turn the upper clutch cable adjuster until the freeplay is 3/8 to 13/16 in (10 to 20 mm).
4. Tighten the upper lock nut and check the freeplay again.
5. Install the rubber dust cover.

I Lower Adjustment
If the upper clutch cable adjuster is threaded out near its limit, or the correct freeplay cannot be obtained, attempt adjustment with the lower adjusting nut.
1. Loosen the upper lock nut and turn the upper clutch cable adjuster all the way in (to provide maximum freeplay). Tighten the upper lock nut.
2. Loosen the lower lock nut.
3. Turn the lower adjusting nut until the clutch lever freeplay is 3/8 to 13/16 in (10 to 20 mm).
4. Tighten the lower lock nut and check the clutch lever freeplay.
5. Start the engine, pull the clutch lever in, and shift into gear. Make sure the engine does not stall and the motorcycle does not creep. Gradually release the clutch lever and open the throttle. Your motorcycle should move smoothly and accelerate gradually.

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

**Checking the Throttle**

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

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

---

**Adjusting the Throttle Cable Freeplay**

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

Cleaning the Crankcase Breather

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

Crankcase breather tube plug
Other Adjustments

Adjusting the Headlight Aim

You can adjust vertical aim of the headlight for proper alignment. Turn the screw in or out as necessary using a Phillips screwdriver provided in the tool kit. Obey local laws and regulations.
Adjusting the Rear Suspension

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

Spring Preload

You can adjust the spring preload by the adjuster to suit the load or the road surface. Use the pin spanner and extension bar to turn the adjuster. Position 1 is for a decrease spring preload (soft), or turn the position 3 to 5 increase spring preload (hard). The standard position is 2.

NOTICE

Do not attempt to disassemble, service, or improperly dispose of the damper. See your dealer.

Attempting to adjust directly from 1 to 5 or 5 to 1 may damage the shock absorber.
Troubleshooting

Engine Will Not Start ........................................P. 79
Tire Puncture ..........................................................P. 80
Electrical Trouble ..................................................P. 86
  Battery Goes Dead.............................................P. 86
  Burned-out Light Bulb .........................................P. 86
  Blown Fuse .........................................................P. 90
Engine Will Not Start

Starter Motor Operates But Engine Does Not Start

Check the following items:
- Make sure engine stop switch is RUN position. P. 20
- Check the correct engine starting sequence. P. 23
- Check that there is gasoline in the fuel tank.

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

Starter Motor Does Not Operate

Check the following items:
- Check for a blown fuse. P. 90
- Check for a loose battery connection or battery terminal corrosion. P. 40, 50
- Check the condition of the battery. P. 86

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

Tire Puncture

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

Tube Repair and Replacement

If a tube is punctured or damaged, you should replace it as soon as possible. A tube that is repaired may not have the same reliability as a new one, and it may fail while you are riding. If you need to make a temporary repair by patching a tube or using an aerosol sealant, ride cautiously at reduced speed and have the tube replaced before you ride again. Anytime a tube is replaced, the tire should be carefully inspected as described.

WARNING

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

Removing Wheels

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

Removal

1. Place your motorcycle on a firm, level surface.
2. Support your motorcycle securely and raise the front wheel off the ground using a maintenance stand or a hoist.
3. Remove the speedometer cable set screw and disconnect the speedometer cable.
4. Loosen the axle pinch bolt.
5. Remove the front axle shaft, front wheel, side collar and speedometer gearbox.

- Avoid getting grease, oil, or dirt on the disc or pad surfaces.
- Do not pull the brake lever while the front wheel is removed.
Installation
1. Attach the side collar and speedometer gearbox to the wheel.
2. Position the wheel between the fork legs and insert the front axle shaft from the right side, through the right fork leg and wheel hub.
   
   ![Diagram](image)

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

3. Position the lug on the speedometer gearbox against the stopper on the left fork leg.
4. Tighten the front axle shaft.
   
   **Torque:** 45 lbf-ft (61 N·m, 6.2 kgf·m)

5. Tighten the axle pinch bolt.
   
   **Torque:** 19 lbf-ft (26 N·m, 2.7 kgf·m)

6. After installing the wheel, apply the brake lever several times, then check if the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.
7. Install the speedometer cable and tighten the speedometer cable set screw securely.

   If a torque wrench was not used for installation, see your dealer as soon as possible to verify proper assembly.

   Improper assembly may lead to loss of braking capacity.
Rear Wheel

Removal

1. Support your motorcycle securely and raise the rear wheel off the ground using a maintenance stand or a hoist.
2. Remove the rear brake adjusting nut, disconnect the brake rod from the brake arm by pushing down on the rear brake pedal.
3. Disconnect the brake stopper arm from the brake panel by removing the cotter pin, stopper arm nut, washer and rubber grommet.
**Tire Puncture ▶ Removing Wheels**

4. Loosen the drive chain lock nuts and drive chain adjusting nuts on both sides of the swingarm.
5. Remove the rear axle nut while holding the rear axle shaft at the other end with a wrench.
6. Remove the drive chain from the rear wheel sprocket by pushing the rear wheel forward.
7. Remove the rear axle shaft, rear wheel and side collars from the swingarm.

**Installation**
1. Install the side collars into the rear wheel.
2. Place the rear wheel between the swingarm and install the drive chain over the rear wheel sprocket.
3. Insert the rear axle shaft from the left side, through the left swingarm, wheel hub and brake panel.
4. Temporarily tighten the rear axle nut.
5. Reassemble the brake stopper arm and tighten the stopper arm nut.

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

6. Connect the brake rod to the brake arm.
7. Adjust the drive chain slack. [P. 68]
8. Adjust the rear brake pedal freeplay. [P. 62]
9. Tighten the rear axle nut.

   **Torque:** 65 lbf·ft (88 N·m, 9.0 kgf·m)
10. After installing the wheel, apply the brake pedal several times, then check if the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.

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

A used cotter pin may not effectively secure a fastener. Always replace a used cotter pin with a new one.
Electrical Trouble

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

NOTICE
Jump starting using an automobile battery is not recommended, as this can damage your motorcycle’s electrical system.

Burned-out Light Bulb
Follow the procedure below to replace a burned-out light bulb.
Turn the ignition switch to the OFF 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.” \( \Rightarrow \) P. 115
Headlight Bulb

1. Remove the screws from the headlight case.
2. Gently pull the lower end of the headlight forward and remove the headlight.
3. Disconnect the connector.
4. Remove the dust cover.
5. Unlock the pin and remove the bulb.
6. Install a new bulb in the reverse order of removal.
   - Install the dust cover 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.
<table>
<thead>
<tr>
<th>Brake/Tail light Bulb</th>
<th>Front/Rear Turn Signal Bulb</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Remove the screws.</td>
<td>1. Remove the screws.</td>
</tr>
<tr>
<td>2. Remove the brake/tail light lens.</td>
<td>2. Remove the turn signal lens.</td>
</tr>
<tr>
<td>3. Slightly press the bulb and turn it counterclockwise.</td>
<td>3. Slightly press the bulb and turn it counterclockwise.</td>
</tr>
<tr>
<td>4. Install a new bulb in the reverse order of removal.</td>
<td>4. Install a new bulb in the reverse order of removal.</td>
</tr>
</tbody>
</table>
License Plate Light Bulb

1. Remove the nuts.
2. Remove the license light cover/lens.
3. Slightly press the bulb and turn it counterclockwise.

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

Before handling fuses, see “Inspecting and Replacing Fuses.” P. 42

1. Remove the right side cover. P. 51
2. Remove the fuse box cover.
3. Slide the fuses out its clips 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 right side cover. ▶ P. 51
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 provided in the starter magnetic switch.
4. Reinstall parts in the reverse order of removal.

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

Keys ......................................................... P. 93
Instruments, Controls, & Other Features .... P. 94
Caring for Your Motorcycle ..................... P. 95
Storing Your Motorcycle ............................ P. 97
Transporting Your Motorcycle ................... P. 98
You & the Environment .............................. P. 99
Vehicle Identification Number ................... P. 100
Emission Control Systems ....................... P. 101
High Altitude Carburetor Adjustment ......... P. 105
Oxygenated Fuels ..................................... P. 106
Authorized Manuals ............................... P. 107
Warranty Coverage and Service .............. P. 109

Honda Contacts ................................. P. 110
Reporting Safety Defects ....................... P. 112
Keys

**Ignition key/Steering lock key**

Be sure to record the key number provided with the original keys. Store the spare key and recorded 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**

The headlight is always on when the ignition switch is on ☐. Leaving the ignition switch on ☐ with the engine stopped will drain the battery.

Do not turn the key while riding.

**Engine Stop Switch**

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

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

---

**Odometer**

The odometer returns to 0 when the read-out exceeds 99,999.9.

**Tripmeter**

The tripmeter returns to 0 when the read-out exceeds 999.9.

**Document Bag**

The owner’s manual, registration, and insurance information can be stored in the plastic document bag located on the inside of the left side cover.
Caring for Your Motorcycle

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

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

**Washing**

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

1. Rinse your motorcycle thoroughly using a 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 plastic components with extra care to avoid scratching them.
   - Avoid directing water into the air cleaner, muffler, and electrical parts.

3. Thoroughly rinse your motorcycle with plenty of clean water and dry with a soft, clean cloth.

4. After the motorcycle dries, lubricate any moving parts.
   - Make sure that no lubricant spills onto the brakes or tires. Brake discs, pads, drum or shoes contaminated with oil will suffer greatly reduced braking effectiveness and can lead to a crash.

5. Lubricate the drive chain immediately after washing and drying the motorcycle.

6. Apply a coat of wax to prevent corrosion.
   - Avoid products that contain harsh detergents or chemical solvents. These can damage the metal, paint, and plastic on your motorcycle.
   - Keep the wax clear of the tires and brakes.
   - If your motorcycle has any matte painted parts, do not apply a coat of wax to the matte painted surface.

continued
Washing Precautions

Follow these guidelines when washing:

- Do not use high-pressure washers:
  - High-pressure water cleaners can damage moving parts and electrical parts, rendering them inoperable.

- Do not direct water at the muffler:
  - Water in the muffler can prevent starting and causes rust in the muffler.

- Dry the brakes:
  - Water adversely affects braking effectiveness. After washing, apply the brakes intermittently at low speed to help dry them.

- Do not direct water at the inside of the left side cover:
  - Water in the left side cover can damage your documents and other belongings.

- Do not direct water at the air cleaner:
  - Water in the air cleaner can prevent the engine from starting.

- Do not direct water near the headlight:
  - Any condensation inside the headlight should dissipate after a few minutes of running the engine.

- Do not use wax or polishing compounds on 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.

Storing Your Motorcycle

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

If you won’t be riding for an extended period, follow these guidelines:
- Wash your motorcycle and wax all painted surfaces (except matte painted surfaces).
- Coat chrome pieces with rust-inhibiting oil.
- Lubricate the drive chain. P. 44
- Place your motorcycle on a maintenance stand and position a block so that both tires are off the ground.
- After rain, remove the body cover and allow the motorcycle to dry.
- Remove the battery (P. 50) to prevent discharge. Charge the battery in a shaded, well-ventilated area.
- If you leave the battery in place, disconnect the negative terminal to prevent discharge.

continued 97
Transporting Your Motorcycle

After removing your motorcycle 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 Motorcycle

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

NOTICE
Towing your motorcycle can cause serious damage to the transmission.
You & the Environment

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

Choose Sensible Cleaners

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

Recycle Wastes

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

Vehicle Identification Number

The VIN and engine serial number uniquely identify your motorcycle and are required in order to register your motorcycle. They may also be required when ordering replacement parts. The VIN is stamped on the right side of the steering head and also appears on the Safety Certification Label attached to the left side of the steering head. The engine number is stamped on the left side of the crankcase. You should record these numbers and keep them in a safe place.
Emission Control Systems

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

**Exhaust Emission Requirements**

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

---

**Noise Emission Requirements**

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

#### Exhaust Emission Control System
The exhaust emission control system consists of appropriate carburetor settings, and no adjustment should be made except idle speed adjustment with the throttle stop screw.

#### Evaporative Emission Control System

**50 STATE (meets California)**

An evaporative emissions control system uses a canister filled with charcoal to absorb fuel vapor from the fuel tank and carburetor 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 air cleaner and the intake manifold.

#### 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 non-compliant component.
High Altitude Carburetor Adjustment

Problems Affecting Motorcycle Exhaust Emissions

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

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

High Altitude Carburetor Adjustment

Your engine’s air-fuel mixture becomes overly rich when operated at high altitudes. Above 6,500 feet (2,000 m), a rich mixture can cause driveability problems, reduce engine performance, and increase fuel consumption. To compensate, you can have the carburetors adjusted for high altitude riding. See your dealer.

However, the carburetors must be returned to standard factory specifications before riding again at lower altitudes (below 5,000 feet, 1,500 m). See your dealer.

Sustained riding at lower altitudes with the lean high-altitude setting may cause rough idling, stalling, or engine damage from overheating.
Oxygenated Fuels

Oxygenated Fuels

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

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

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

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

**NOTICE**
Improper use of oxygenated fuels can damage metal, rubber, and plastic parts of your fuel system. Oxygenated fuel can also damage paint. Damage caused by spilled fuel is not covered by warranty.

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

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 all-terrain vehicles.

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.

<table>
<thead>
<tr>
<th>Publication Item No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>61KEN18</td>
<td>2016 CMX250 Service Manual</td>
</tr>
<tr>
<td>61CSM00</td>
<td>Common Service Manual</td>
</tr>
<tr>
<td>S9507</td>
<td>Winter Storage Guide</td>
</tr>
<tr>
<td>31K17640</td>
<td>2016 CMX250 Owner’s Manual</td>
</tr>
</tbody>
</table>
Authorized Manuals

Order On-Line: www.helminc.com

Order Toll Free: 1-888-CYCLE93
(1-888-292-5393)
(NOTE: For Credit Card Orders Only)
Monday – Friday 8:00 AM – 6:00 PM EST
Warranty Coverage and Service

Coverage
Your new Honda is covered by the following warranties:
- Motorcycle 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 motorcycle.

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

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

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

If you believe you have a problem with your motorcycle, call the service department of your Honda dealer. Make an appointment for an inspection and diagnosis. You will be asked to
Honda Contacts

authorize that inspection, and your dealer will return the results of the inspection. If a problem exists and is covered under warranty, your dealer will perform the warranty repairs. If you have any questions about your warranty coverage or the nature of the repair, talk to the Service Manager of your Honda dealer.

If a misunderstanding occurs and you aren’t satisfied with your dealer’s handling of the situation, we suggest you discuss your problem with the appropriate member of the dealership’s management team. If you are still not satisfied, contact the owner of the dealership or their designated representative.

Honda Contacts

American Honda Motor Co., Inc.

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

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

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 motorcycle.

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, and the Honda Rider’s Club of America.

**Honda Rider’s Club of America (HRCA)**

The Honda Rider’s Club of America (HRCA) sponsors local riding chapters at Authorized Honda Dealerships across the country. You can log on to the HRCA Clubhouse website for more information at [www.hrca.honda.com](http://www.hrca.honda.com).
Reporting Safety Defects

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

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

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

Main Components

<table>
<thead>
<tr>
<th>Type</th>
<th>MC13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall length</td>
<td>83.3 in (2,115 mm)</td>
</tr>
<tr>
<td>Overall width</td>
<td>32.9 in (835 mm)</td>
</tr>
<tr>
<td>Overall height</td>
<td>42.5 in (1,080 mm)</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>57.1 in (1,450 mm)</td>
</tr>
<tr>
<td>Minimum ground clearance</td>
<td>5.9 in (150 mm)</td>
</tr>
<tr>
<td>Caster angle</td>
<td>30° 40’</td>
</tr>
<tr>
<td>Trail</td>
<td>4.45 in (113 mm)</td>
</tr>
<tr>
<td>Curb weight</td>
<td>331 lb (150 kg)</td>
</tr>
<tr>
<td>Maximum weight capacity*1</td>
<td>345 lb (156 kg)</td>
</tr>
<tr>
<td>Passenger capacity</td>
<td>Rider and 1 passenger</td>
</tr>
<tr>
<td>Minimum turning radius</td>
<td>8.53 ft (2.60 m)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Displacement</th>
<th>14.27 cu-in (234 cm³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bore x stroke</td>
<td>2.09 x 2.09 in (53.0 x 53.0 mm)</td>
</tr>
<tr>
<td>Compression ratio</td>
<td>9.2:1</td>
</tr>
<tr>
<td>Fuel</td>
<td>Unleaded gasoline</td>
</tr>
<tr>
<td>Recommended: 86 PON or higher</td>
<td></td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>2.64 US gal (10.0 liters)</td>
</tr>
<tr>
<td>Fuel reserve capacity</td>
<td>0.71 US gal (2.7 liters)</td>
</tr>
<tr>
<td>Battery</td>
<td>YTX7L-BS</td>
</tr>
<tr>
<td></td>
<td>12V-6.0Ah (10 HR)</td>
</tr>
<tr>
<td>Gear ratios</td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>2.846</td>
</tr>
<tr>
<td>2nd</td>
<td>1.777</td>
</tr>
<tr>
<td>3rd</td>
<td>1.333</td>
</tr>
<tr>
<td>4th</td>
<td>1.083</td>
</tr>
<tr>
<td>5th</td>
<td>0.913</td>
</tr>
<tr>
<td>Reduction ratios (primary / final)</td>
<td>3.631 / 2.357</td>
</tr>
</tbody>
</table>
## Specifications

### Service Data

<table>
<thead>
<tr>
<th>Tire size</th>
<th>Front</th>
<th>3.00-18 47P</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rear</td>
<td>130/90-15M/C 66P</td>
</tr>
<tr>
<td>Tire type</td>
<td>Bias-ply, tube</td>
<td></td>
</tr>
<tr>
<td>Recommended tire</td>
<td>Front</td>
<td>BRIDGESTONE L303A DUNLOP F11</td>
</tr>
<tr>
<td></td>
<td>Rear</td>
<td>BRIDGESTONE G508 DUNLOP K627</td>
</tr>
<tr>
<td>Tire air pressure</td>
<td>Front</td>
<td>29 psi (200 kPa, 2.00 kgf/cm²)</td>
</tr>
<tr>
<td></td>
<td>Rear</td>
<td>29 psi (200 kPa, 2.00 kgf/cm²)</td>
</tr>
<tr>
<td>Minimum tread depth</td>
<td>Front</td>
<td>0.06 in (1.5 mm)</td>
</tr>
<tr>
<td></td>
<td>Rear</td>
<td>0.08 in (2.0 mm)</td>
</tr>
<tr>
<td>Spark plugs</td>
<td>(standard)</td>
<td>CR6HSA (NGK) or U20FSR-U (DENSO)</td>
</tr>
<tr>
<td></td>
<td>(cold climate)</td>
<td>CR5HSA (NGK) or U16FSR-U (DENSO)</td>
</tr>
<tr>
<td></td>
<td>(high speed riding)</td>
<td>CR7HSA (NGK) or U22FSR-U (DENSO)</td>
</tr>
<tr>
<td>Spark plug gap</td>
<td>0.024 to 0.028 in (0.60 to 0.70 mm)</td>
<td></td>
</tr>
<tr>
<td>Idle speed (In neutral)</td>
<td>1,400 ± 100 rpm</td>
<td></td>
</tr>
</tbody>
</table>

| 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 or an equivalent motorcycle oil |
| Engine oil capacity | After draining 1.6 US qt (1.5 liters) |
|                     | After disassembly 1.9 US qt (1.8 liters) |
| Recommended brake fluid | Honda DOT 3 or DOT 4 Brake Fluid |
| Recommended drive chain lubricant | Pro Honda HP Chain Lube or equivalent |
| Drive chain slack | 9/16 to 1 in (15 to 25 mm) |
| Standard drive chain | RK 520MOZ9 or DID 520V |
| No. of links | 108 |
| Standard sprocket sizes | Front sprocket 14T |
|                       | Rear wheel sprocket 33T |
### Specifications

<table>
<thead>
<tr>
<th>Bulbs</th>
<th>Torque Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headlight</td>
<td>Engine oil drain bolt</td>
</tr>
<tr>
<td>12V-60/55W</td>
<td>18 lbf·ft (25 N·m, 2.5 kgf·m)</td>
</tr>
<tr>
<td>Brake/Tail light</td>
<td>Rear axle nut</td>
</tr>
<tr>
<td>12V-27/7W</td>
<td>65 lbf·ft (88 N·m, 9.0 kgf·m)</td>
</tr>
<tr>
<td>Front turn signal lights</td>
<td>Front axle shaft</td>
</tr>
<tr>
<td>12V-23W x 2</td>
<td>45 lbf·ft (61 N·m, 6.2 kgf·m)</td>
</tr>
<tr>
<td>Rear turn signal lights</td>
<td>Front axle pinch bolt</td>
</tr>
<tr>
<td>12V-23W x 2</td>
<td>19 lbf·ft (26 N·m, 2.7 kgf·m)</td>
</tr>
<tr>
<td>License plate light</td>
<td>Rear brake stopper arm nut</td>
</tr>
<tr>
<td>12V-8W</td>
<td>16 lbf·ft (22 N·m, 2.2 kgf·m)</td>
</tr>
</tbody>
</table>

### Fuses

<table>
<thead>
<tr>
<th>Fuses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main fuse</td>
</tr>
<tr>
<td>20A</td>
</tr>
<tr>
<td>Other fuses</td>
</tr>
<tr>
<td>10A</td>
</tr>
</tbody>
</table>
## Information Record

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>VIN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine No.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color Label &amp; Code</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Owner’s Name</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City/State</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dealer’s Name</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City/State</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service Manager</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Index

A
Accessories.................................................. 13
Air Cleaner .................................................. 49, 58
Authorized Manuals................................. 107

B
Battery .......................................................... 40, 50
Brake light Switch ....................................... 65
Brakes
  Fluid .......................................................... 44, 59
  Pad Wear ..................................................... 60
  Shoe Wear ................................................... 64
Braking .......................................................... 10
Bulb
  Brake/Tail light ........................................... 88
  Front/Rear Turn Signal ................................. 88
  Headlight ..................................................... 87
  License Plate Light ........................................ 89

C
Caring for Your Motorcycle ....................... 95
Clutch System ................................................ 71
Color Label .................................................... 39

Crankcase Breather ....................................... 46, 75

D
Document Bag ............................................... 30, 94
Drive Chain .................................................. 44, 67

E
Electrical Trouble .......................................... 86
Emission Control Systems ......................... 101
Engine
  Idle Speed ................................................... 57
  Number ....................................................... 100
  Oil ............................................................. 43, 54
  Starting ....................................................... 23
  Stop Switch ............................................... 20, 94
  Stopping ..................................................... 94
Environment .................................................. 99
Equipment
  Document Bag ............................................. 30, 94
  Owner’s Manual .......................................... 30, 94
  Tool Kit ....................................................... 29
Index

F
Flooded Engine ........................................... 24
Fuel
  Recommended ........................................... 26
  Tank Capacity .......................................... 26
  Valve .................................................. 22
Fuses .................................................................. 42, 90

G
Gasohol ............................................................ 106
Gasoline ......................................................... 12, 26, 106
Gear Range Indicator ...................................... 18

H
Headlight Aim .................................................. 76
Headlight Dimmer Switch .................................. 20
Helmet Holder .................................................. 28
High Altitude Carburetor Adjustment .................. 105
High Beam Indicator .......................................... 18
Honda Contacts ............................................... 110
Horn Button .................................................... 20

I
Ignition Cut-off System
  Side Stand .................................................. 66
Ignition Key ..................................................... 93
Ignition Switch .............................................. 21, 94
Information Record ......................................... 116
Instruments and Indicators ............................... 18

L
Labels ............................................................... 7
Load Limits ..................................................... 14
Loading Guidelines ......................................... 14

M
Maintenance
  Fundamentals ................................................ 37
  Importance .................................................. 32
  Safety ......................................................... 33
  Schedule ..................................................... 34
Maximum Weight Limit ................................. 14, 113
Modifications ................................................ 13
N
Neutral Indicator....................................... 18

O
Odometer ................................................ 18, 94
Oil
   Engine ............................................... 43, 54
Oxygenated Fuels ................................. 106

P
Parking ................................................... 11
Parts Location ..................................... 16
Protective Apparel ................................. 9
Puncture ................................................ 80

R
Rear Brake Pedal ..................................... 61
Rear Suspension .................................... 77
Recommended
   Fuel.................................................... 26
   Oil................................................... 43, 114
Refueling ............................................. 26

Removal
   Battery ............................................. 50
   Side Cover ........................................ 51
   Repair Kit ........................................ 80
   Reporting Safety Defects .................. 112
   Riding Precautions ............................. 10

S
Safety Labels ............................................. 7
Safety Precautions ................................. 9
Shifting Gears ....................................... 25
Side Cover ......................................... 51
Side Stand .......................................... 66
Side Stand Ignition Cut-off System ....... 66
Spark Plug ........................................ 52
Specifications .................................... 113
Speedometer ..................................... 18
Start Button ..................................... 20
Starting the Engine ............................. 23
Steering Lock ..................................... 21
Stopping the Engine ............................ 94
Storage
  Equipment................................................ 28
  Owner’s Manual........................................ 94
Storing Your Motorcycle....................... 97
Switches ..................................................... 20

T
Throttle ..................................................... 74
Tires
  Air Pressure ........................................... 46
  Puncture ............................................... 80
  Replacing ............................................... 46, 80
Transporting Your Motorcycle ............... 98
Tripmeter ............................................. 18, 19, 94
Troubleshooting .................................. 78
Turn Signal Indicator ......................... 18
Turn Signal Switch .............................. 20

V
Vehicle Identification Number ............ 100

W
Warranty Coverage and Service .......... 109
Washing Your Motorcycle .................... 95
Weight Limit .................................... 14, 113

Wheels
  Front Removal ..................................... 81
  Rear Removal ..................................... 83