Kawasaki

ER-6f
ER-6f ABS

Motorcycle

OWNER’S MANUAL
Whenever you see the symbols shown below, heed their instructions! Always follow safe operating and maintenance practices.

**WARNING**
This warning symbol identifies special instructions or procedures which, if not correctly followed, could result in personal injury, or loss of life.

**CAUTION**
This caution symbol identifies special instructions or procedures which, if not strictly observed, could result in damage to or destruction of equipment.

**NOTE**
- This note symbol indicates points of particular interest for more efficient and convenient operation.

**NOTICE**
- THIS PRODUCT HAS BEEN MANUFACTURED FOR USE IN A REASONABLE AND PRUDENT MANNER BY A QUALIFIED OPERATOR AND AS A VEHICLE ONLY.
FOREWORD

Congratulations on your purchase of a new Kawasaki motorcycle. Your new motorcycle is the product of Kawasaki’s advanced engineering, exhaustive testing, and continuous striving for superior reliability, safety and performance.

Please read this Owner’s Manual carefully before riding so that you will be thoroughly familiar with the proper operation of your motorcycle’s controls, its features, capabilities, and limitations. This manual offers many safe riding tips, but its purpose is not to provide instruction in all the techniques and skills required to ride a motorcycle safely. Kawasaki strongly recommends that all operators of this vehicle enroll in a motorcycle rider training program to attain awareness of the mental and physical requirements necessary for safe motorcycle operation.

To ensure a long, trouble-free life for your motorcycle, give it the proper care and maintenance described in this manual. For those who would like more detailed information on their Kawasaki Motorcycle, a Service Manual is available for purchase from any authorized Kawasaki motorcycle dealer. The Service Manual contains detailed disassembly and maintenance information. Those who plan to do their own work should, of course, be competent mechanics and possess the special tools described in the Service Manual.

Keep this Owner’s Manual aboard your motorcycle at all times so that you can refer to it whenever you need information.
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SPECIFICATIONS

PERFORMANCE
- Maximum Horsepower: 53 kW (72 PS) @8 500 r/min (rpm)
- Maximum Torque: 66 N·m (6.7 kgf·m, 48.7 ft·lb) @7 000 r/min (rpm)
- Minimum Turning Radius: 2.7 m (106.3 in.)

DIMENSIONS
- Overall Length: 2 105 mm (82.87 in.)
- Overall Width: 760 mm (29.92 in.)
- Overall Height: 1 210 mm (47.64 in.)
- Wheelbase: 1 410 mm (55.51 in.)
- Road Clearance: 145 mm (5.71 in.)
- Dry Weight: (A) 178 kg (392 lb) (B) 182 kg (401 lb)

ENGINE
- Type: DOHC, 4-valve, 2-cylinder, 4-stroke, liquid-cooled
<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement</td>
<td>649 cm$^3$ (39.6 cu in.)</td>
</tr>
<tr>
<td>Bore x Stroke</td>
<td>83 x 60 mm (3.27 x 2.36 in.)</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>11.3 : 1</td>
</tr>
<tr>
<td>Starting System</td>
<td>Electric starter</td>
</tr>
<tr>
<td>Cylinder Numbering Method</td>
<td>Left to right, 1-2</td>
</tr>
<tr>
<td>Firing Order</td>
<td>1-2</td>
</tr>
<tr>
<td>Carburetion System</td>
<td>Fi (Fuel Injection)</td>
</tr>
<tr>
<td>Ignition System</td>
<td>Battery and coil (transistorized ignition)</td>
</tr>
<tr>
<td>Ignition Timing</td>
<td>10° BTDC @1 300 r/min (rpm) ~</td>
</tr>
<tr>
<td>(Electronically advanced)</td>
<td>35° BTDC @4 800 r/min (rpm)</td>
</tr>
<tr>
<td>Spark Plugs</td>
<td>NGK CR9EIA-9</td>
</tr>
<tr>
<td>Lubrication System</td>
<td>Forced lubrication (semi-dry sump)</td>
</tr>
<tr>
<td>Engine Oil Type</td>
<td>API SE, SF or SG</td>
</tr>
<tr>
<td></td>
<td>API SH, SJ or SL with JASO MA</td>
</tr>
<tr>
<td></td>
<td>SAE 10W-40</td>
</tr>
<tr>
<td>Engine Oil Capacity</td>
<td>2.4 L (2.5 US qt)</td>
</tr>
<tr>
<td>Coolant Capacity</td>
<td>1.2 L (1.3 US qt)</td>
</tr>
</tbody>
</table>
10 SPECIFICATIONS

TRANSMISSION

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission Type</td>
<td>6-speed, return shift</td>
</tr>
<tr>
<td>Clutch Type</td>
<td>Wet, multi disc</td>
</tr>
<tr>
<td>Driving System</td>
<td>Chain drive</td>
</tr>
<tr>
<td>Primary Reduction Ratio</td>
<td>2.095 (88/42)</td>
</tr>
<tr>
<td>Final Reduction Ratio</td>
<td>3.067 (46/15)</td>
</tr>
<tr>
<td>Overall Drive Ratio</td>
<td>5.473 (Top gear)</td>
</tr>
<tr>
<td>Gear Ratio</td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>2.438 (39/16)</td>
</tr>
<tr>
<td>2nd</td>
<td>1.714 (36/21)</td>
</tr>
<tr>
<td>3rd</td>
<td>1.333 (32/24)</td>
</tr>
<tr>
<td>4th</td>
<td>1.111 (30/27)</td>
</tr>
<tr>
<td>5th</td>
<td>0.966 (28/29)</td>
</tr>
<tr>
<td>6th</td>
<td>0.852 (23/27)</td>
</tr>
</tbody>
</table>

FRAME

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Castor</td>
<td>25°</td>
</tr>
<tr>
<td>Trail</td>
<td>106 mm (4.2 in.)</td>
</tr>
<tr>
<td>Tire Size:</td>
<td>Front 120/70ZR17 M/C (58 W) Tubeless</td>
</tr>
</tbody>
</table>
Rear 160/60ZR17 M/C (69 W) Tubeless

Rim Size:
Front 17 × 3.50
Rear 17 × 4.50

Fuel Tank Capacity 15.5 L (4.1 US gal)

**ELECTRICAL EQUIPMENT**

Battery 12 V 10 Ah
Headlight 12 V 55 W / 55 W (Hi/Lo)
Tail/Brake Light 12 V 5/21 W

(A): EX650A
(B): EX650B

Specifications subject to change without notice, and may not apply to every country.
1. Clutch Lever
2. Left Handlebar Switches
3. Meter Instruments
4. Brake Fluid Reservoir (Front)
5. Right Handlebar Switches
6. Front Brake Lever
7. Throttle Grip
8. Ignition Switch/Steering Lock
9. Wheel
10. Turn Signal Light
11. Headlight
12. Spark Plugs
13. Air Cleaner
14. Main Fuse
15. Battery
16. Seat
17. Tool Kit/Storage Compartments
18. Helmet Holding Cable
19. Tying Hooks
20. Seat Lock
21. Front Fork
22. Brake Disc
23. Brake Caliper
24. Shift Pedal
25. Side Stand
26. Drive Chain
27. License Plate Light
28. Tail/Brake Light
29. Brake Fluid Reservoir (Rear)
30. Fuel Tank
31. Fuel Tank Cap

32. Muffler
33. Rear Brake Light Switch
34. Rear Brake Pedal
35. Oil Level Gauge
36. Rear Shock Absorber
37. Rebound Damping Force Adjuster
38. Idle Adjusting Screw
39. Coolant Reserve Tank
Meter Instruments

A. Speedometer
B. Left Turn Signal Indicator Light
C. Tachometer
D. Red Zone
E. Right Turn Signal Indicator Light
F. High Beam Indicator Light
G. Neutral Indicator Light
H. Oil Pressure Warning Light
I. RESET Button
J. FI Indicator Light
K. ABS Indicator Light (model with ABS)
L. Fuel Level Warning Light
M. MODE Button
N. Coolant Temperature Warning Light
O. LCD Display (Clock, Trip Meter A/B, Odometer)
16 GENERAL INFORMATION

Speedometer and Tachometer:

The speedometer shows the speed of the vehicle.

The tachometer shows the engine speed in revolutions per minute (r/min, rpm). On the right side of the tachometer face is a portion called the "red zone". Engine r/min (rpm) in the red zone is above maximum recommended engine speed and is also above the range for good performance.

When ignition key is turned to “ON”, the speedometer and tachometer needles momentarily point to their last readings to check their operation. If the speedometer and tachometer needles do not operate correctly, have them inspected by an authorized Kawasaki dealer.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine r/min (rpm) should not be allowed to enter the red zone; operation in the red zone will overstress the engine and may cause serious engine damage.</td>
</tr>
</tbody>
</table>
LCD (Clock, Odometer, Trip Meters):
The speedometer face contains the LCD (Liquid Crystal Display). Pushing the MODE button, shifts the display through the following four modes: Clock, Odometer, Trip meter A/B. When the ignition key is turned to “ON”, all the LCD segments are displayed for three seconds, then the clock or meters, depending on the mode selected, will operate normally on the mode selected.

NOTE
For safe operation do not press the MODE button while riding.

Clock -
To adjust the hours and minutes:
• Turn the ignition key to "ON".
• Push the "MODE" button to display the clock.
• Push the "RESET" button for more than two seconds. Both the hour and minute displays start flashing.
18 GENERAL INFORMATION

- Push the "RESET" button. The hour display only flashes. Push the "MODE" button to advance the hours.

- Push the "RESET" button. The hour display stops flashing and the minute display starts flashing. Push the "MODE" button to advance the minutes.

- Push the "RESET" button. Both the hour and minute displays start flashing again.

- Push the "MODE" button. The displays stop flashing and the clock starts working.

NOTE

- Pushing the "MODE" button momentarily advances the hour or minute step by step. Pushing and holding the button advance the hour or minute continuously.

- The clock works normally from the back-up power while the ignition switch is turned off.

- When the battery is disconnected, the clock resets to 1:00 and starts working again when the battery is connected.
Odometer -
The odometer shows the total distance the vehicle has been ridden. This meter cannot be reset.

NOTE
○ The data is maintained even if the battery is disconnected.
○ When the figures come to 999999, they are stopped and locked.

Trip Meter -
The trip meters show the distance in kilometers traveled since they were last reset to zero.

TRIP A: 0.0 ~ 999.9
TRIP B: 0.0 ~ 9999.9
To reset the trip meter:
● Push the “MODE” button to display the trip meter A or B.
● Push the “RESET” button and hold it in.
● After two seconds, the figure display turns to 0.0, and then starts counting when the vehicle is operated. The meter counts until it is next reset.
NOTE

○ The data is maintained by the back-up power if the ignition key is turned off.
○ When the trip meter is reset while the vehicle is stopped, it starts counting as soon as the vehicle starts moving.
○ When the trip meter reaches 999.9 (TRIP A) or 9999.9 (TRIP B) while running, the meters reset to 0.0 and continues counting.
○ When the battery is disconnected, the meter display resets to 0.0.
**Warning/Indicator Lights:**

- **A:** The fuel level warning light in the tachometer goes on and “FUEL” flashes in the LCD when only 3.5 L (0.9 US gal) of fuel remains. Refuel at the earliest opportunity when the fuel level warning light goes on and “FUEL” flashes.

- **B:** When pushing the MODE button while “FUEL” is displayed, the display can be shifted to odometer, trip meter, or clock mode.

- **N:** When the transmission is in neutral, the neutral indicator light is lit.

- **I:** When the headlight is on high beam, the high beam indicator light is lit.

- **S:** When the turn signal switch is pushed to the left or right, the corresponding turn signal indicator light flashes.

---

**NOTE**

- **When pushing the MODE button while “FUEL” is displayed, the display can be shifted to odometer, trip meter, or clock mode.**

- **N:** When the transmission is in neutral, the neutral indicator light is lit.

- **I:** When the headlight is on high beam, the high beam indicator light is lit.

- **S:** When the turn signal switch is pushed to the left or right, the corresponding turn signal indicator light flashes.
GENERAL INFORMATION

The oil pressure warning light goes on whenever the oil pressure is dangerously low or the ignition key is in the ON position with the engine not running, and goes off when the engine oil pressure is high enough. Refer to the Maintenance and Adjustment chapter for more detailed engine oil information.

FI: The fuel injection (FI) indicator light in the tachometer goes on when the ignition key is turned to “ON” and goes off soon after ensuring that its circuit functions properly. The indicator light also goes on whenever the troubles occur in digital fuel injection system (DFI). If the indicator light comes on, have the DFI system checked by an authorized Kawasaki dealer.
When the indicator light flashes, first turn the ignition key to “OFF” and then back to “ON”.

The coolant temperature warning light in the speedometer goes on whenever the coolant temperature rises to 115°C (239°F) when the motorcycle is in operation. This warns the operator that the coolant temperature is too high. If the warning light goes on, stop the engine and check the coolant level in the reserve tank after the engine cools down.

CAUTION

Do not let the engine continue running when the warning light flashes. Prolonged engine operation will result in severe damage from overheating.

(For models equipped with ABS)

The ABS (Anti-lock Brake System) indicator light in the tachometer comes on when the ignition switch is
turned on and goes off shortly after the motorcycle starts moving. If the ABS is normal, it stays off. If something is wrong with the ABS, the indicator comes on and remains lit. When the indicator light is on, the ABS does not function but if the ABS fails, the conventional brake system will still work normally.

For more detailed information about ABS, see the Anti-lock Brake System (ABS) section in the How to Ride the Motorcycle chapter.

**Key**

This motorcycle has a combination key, which is used for the ignition switch/steering lock, seat lock, and fuel tank cap.

Blank keys are available at your Kawasaki dealers. Ask your dealer to make any additional spare keys you may need, using your original key as a master.
Ignition Switch/Steering Lock

This is a four-position, key-operated switch. The key can be removed from the switch when it is in the OFF, LOCK, or P (Park) position.

<table>
<thead>
<tr>
<th>Position</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Engine off. All electrical circuits off.</td>
</tr>
<tr>
<td>ON</td>
<td>Engine on. All electrical equipment can be used.</td>
</tr>
<tr>
<td>LOCK</td>
<td>Steering locked. Engine off. All electrical circuits off.</td>
</tr>
<tr>
<td>P(Park)</td>
<td>Steering locked. Engine off. License plate, tail, and city lights on and turn signals can be used. All other electrical circuits cut off.</td>
</tr>
</tbody>
</table>

NOTE
○ The city, tail and license plate lights are on whenever the ignition key is in the ON position. One headlight goes on when the starter button is released after starting the engine. To avoid battery discharge, always start the engine immediately after turning the ignition key to “ON”.

A. Ignition Switch/Steering Lock
B. ON position
C. OFF position
D. LOCK position
E. P (Park) position
If you leave the P (Park) position on for a long time (one hour), the battery may become totally discharged.

To operate the ignition switch:

- **OFF**
- **ON**
- **P(Park)**
- **LOCK**
  1. Turn the handlebar fully to the left.
  2. a. For parking push down the key in the ON position and turn it to P(Park).
  2. b. For locking push down the key in the OFF position and turn it to LOCK.

Right Handlebar Switches

**Engine Stop Switch:**

In addition to the ignition switch, the engine stop switch must be in the ▲ position for the motorcycle to operate.

The engine stop switch is for emergency use. If some emergency requires stopping the engine, move the engine stop switch to the ▲ position.
26 GENERAL INFORMATION

NOTE

Although the engine stop switch stops the engine, it does not turn off all the electrical circuits. Ordinarily, the ignition switch should be used to stop the engine.

Starter Button:
The starter button operates the electric starter when the transmission is in neutral.

Refer to the Starting the Engine section of the "How to Ride the Motorcycle" chapter for starting instructions.

A. Engine Stop Switch
B. Starter Button
Left Handlebar Switches
Dimmer Switch:
High or low beam can be selected with the dimmer switch. When the headlight is on high beam ( ), the high beam indicator light is lit.
High beam....... ( )
Low beam....... ( )

NOTE
○ When the headlight is on high beam, both head lights are lit. When the headlight is on low beam, only one headlight is lit.

A. Dimmer Switch
B. Turn Signal Switch
C. Horn Button
D. Passing Button
E. Hazard
28 GENERAL INFORMATION

**Turn Signal Switch:**
When the turn signal switch is turned to the left (👈) or right (👉), the corresponding turn signal flashes on and off.
To stop flashing, push the switch in.

**Horn Button:**
When the horn button is pushed, the horn sounds.

**Passing Button:**
When the passing button is pushed, the headlight high beam (passing beam) comes on to signal the driver of the vehicle ahead that you are about to pass him. The passing light shuts off as soon as the button is released.

**Hazard Switch:**
If an emergency requires you to park on the highway shoulder, turn on the hazard lights to warn other drivers of your location.
Push in the hazard switch with the ignition switch in the ON or P (Park) position. All the turn signals and turn signal indicator lights will flash on and off.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>If you leave the switch on for a long time, the battery may become totally discharged. So be careful not to use the hazard lights for more than 30 minutes.</td>
</tr>
</tbody>
</table>
Brake/Clutch Lever Adjusters

There is an adjuster on both the brake and clutch levers. Each adjuster has 5 positions so that the released lever position can be adjusted to suit the operator’s hands. Push the lever forward and turn the adjuster to align the number with the arrow mark on the lever holder.

The distance from the grip to the released lever is minimum at Number 5 and maximum at Number 1.
30 GENERAL INFORMATION

Fuel Tank Cap
To open the fuel tank cap, pull up the key hole cover. Insert the ignition key into the fuel tank cap and turn the key to the right.
To close the cap, push it down into place with the key inserted. The key can be removed by turning it to the left to the original position.

NOTE
Do not push on the key to close the cap, or the cap cannot be locked.

NOTE
The fuel tank cap cannot be closed without the key inserted, and the key cannot be removed unless the cap is locked properly.

A. Key Hole Cover
B. Ignition Key
C. Fuel Tank Cap
Fuel Tank
Avoid filling the tank in the rain or where heavy dust is blowing so that the fuel does not get contaminated.

A. Tank Cap
B. Fuel Tank
C. Top Level
D. Filler Neck

⚠️ WARNING
Gasoline is extremely flammable and can be explosive under certain conditions. Turn the ignition key to “OFF”. Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light. Never fill the tank so the fuel level rises into the filler neck. If the tank is overfilled, heat may cause the fuel to expand and overflow through the vents in the tank cap. After refueling, make sure the fuel tank cap is closed securely. If gasoline is spilled on the fuel tank, wipe it off immediately.
GENERAL INFORMATION

Fuel Requirement:
Your Kawasaki engine is designed to use only unleaded gasoline.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not use leaded gasoline, as this will destroy the catalytic converter. (For further information, refer to the “Catalytic Converter” section in the “How to Ride the Motorcycle” chapter.)</td>
</tr>
</tbody>
</table>

Octane Rating
The octane rating of a gasoline is a measure of its resistance to detonation or "knocking." The term commonly used to describe a gasoline’s octane rating is the Research Octane Number (RON). Always use a gasoline with an octane rating equal to, or higher than, RON 91.

NOTE
○ If “knocking” or “pinging” occurs, use a different brand of gasoline or higher octane rating.
Stand
The motorcycle is equipped with a side stand.

Whenever the side stand is used, make it a practice to kick the stand fully up before sitting on the motorcycle.

NOTE

- The motorcycle is equipped with a side stand switch. This switch is designed so that the engine does not start if the transmission is in gear and the side stand is down.

NOTE

- When using the side stand, turn the handlebar to the left.
Seat Lock

Seat Removal
Insert the ignition key into the seat lock, located under the rear cowlings. Turn the key clockwise while pulling on the rear end of the seat.

NOTE
○ If there is difficulty removing the seat, be sure to insert the key all the way and to push down strongly on the rear end of the seat while turning the key clockwise.
Seat Installation
Install seats in the reverse order of removal.
• Place the tabs into the matching slot and receptacles.

● Insert the hook at the rear of the seat into the lock on the frame.
● Push down the rear part of the seat until the lock clicks.
● Pull up the rear end of the seat to make sure it is securely locked.

NOTE
○ If there is difficulty removing the ignition key from the seat lock, turn it lightly counterclockwise while pulling it out.
GENERAL INFORMATION

Helmet Holding Cable

Helmets can be secured to the motorcycle using the helmet holding cables located under the seat.

WARNING

Do not ride the motorcycle with a helmet attached to the cable. The helmet could cause an accident by distracting the operator or interfering with normal vehicle operation.

A. Helmet Holding Cable
Tool Kit/U-Shaped lock Compartment

The tool kit is stored under the seat. The kit contains tools that can be helpful in making roadside repairs, adjustments, and some maintenance procedures explained in this manual.

Also under the seat, there is a lock strap which holds a U-Shaped lock.

Install the U-shaped part and lock separately and secure them each with its strap.

A. Tool Kit
B. Lock Strap
C. U-Shaped Lock
38 GENERAL INFORMATION

- Fit the lock with the holes.

A. Lock
B. Hole

Tying Hooks
When tying up light loads to the seat, use the tying hooks located on the left and right sides of the rear fairing.

A. Tying Hooks
The first 1,600 km (1,000 mi) that the motorcycle is ridden is designated as the break-in period. If the motorcycle is not used carefully during this period, you may very well end up with a "broken down" instead of a "broken in" motorcycle after a few thousand kilometers.

The following rules should be observed during the break-in period.

- The table shows maximum recommended engine speed during the break-in period.

<table>
<thead>
<tr>
<th>Distance traveled</th>
<th>Maximum engine speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ~ 800 km (0 ~ 500 mi)</td>
<td>4 000 r/min (rpm)</td>
</tr>
<tr>
<td>800 ~ 1 600 km (500 ~ 1 000 mi)</td>
<td>6 000 r/min (rpm)</td>
</tr>
</tbody>
</table>

- Do not start moving or race the engine immediately after starting it, even if the engine is already warm. Run the engine for two or three minutes at idle speed to give the oil a chance to work up into all the engine parts.
- Do not race the engine while the transmission is in neutral.
WARNING

New tires are slippery and may cause loss of control and injury. A break-in period of 160 km (100 miles) is necessary to establish normal tire traction. During break-in, avoid sudden and maximum braking and acceleration, and hard cornering.

In addition to the above, at 1 000 km (600 mi) it is extremely important that the owner have the initial maintenance service performed by an authorized Kawasaki dealer.
Starting the Engine

- Check that the engine stop switch is in the ▼ position.
- Turn the ignition key to “ON”.
- Make sure the transmission is in neutral.

**NOTE**
- The motorcycle is equipped with a vehicle-down sensor, which causes the engine to stop automatically and the Fi indicator light to flash when the motorcycle falls down. After righting the motorcycle, first turn the ignition key to “OFF” and then back to “ON” before starting the engine.

**CAUTION**
- Do not operate the starter continuously for more than 5 seconds, or the starter will overheat and the battery power will drop temporarily. Wait 15 seconds between each operation of the starter to let it cool and the battery power recover.
The motorcycle is equipped with a starter lockout switch. This switch is designed so that the engine does not start if the transmission is in gear and the side stand is down. However, the engine can be started if the clutch lever is pulled and the side stand is fully up.

CAUTION

Do not let the engine idle longer than five minutes, or engine overheating and damage may occur.

A. Clutch Lever
B. Starter Lockout Switch
Jump Starting
If your motorcycle battery is “run down,” it should be removed and charged. If this is not practical, a 12 volt booster battery and jumper cables may be used to start the engine.

WARNING
Battery acid generates hydrogen gas which is flammable and explosive under certain conditions. It is present within a battery at all times, even in a discharged condition. Keep all flames and sparks (cigarettes) away from the battery. Wear eye protection when working with a battery. In the event of battery acid contact with skin, eyes, or clothing, wash the affected areas immediately with water for at least five minutes. Seek medical attention.

Connecting Jumper Cables
● Remove the seat.
● Make sure the ignition key is turned to OFF.
HOW TO RIDE THE MOTORCYCLE

- Connect a jumper cable from the positive (+) terminal of the booster battery to the positive (+) terminal of the motorcycle battery.

A. Motorcycle Battery Positive (+) Terminal
B. From Booster Battery Positive (+) Terminal
C. Footpeg
D. From Booster Battery Negative (–) Terminal

- Connect another jumper cable from the negative (–) terminal of the booster battery to your motorcycle footpeg or other unpainted metal surface. Do not use the negative (–) terminal of the battery.

![Diagram showing connections]

**WARNING**

Do not make this last connection at the fuel system or battery. Take care that you do not touch the positive and negative cables together, and do not lean over the battery when making this last connection. Do not jump start a frozen battery. It could explode. Do not reverse polarity by connecting positive (+) to negative (–) or a battery explosion and serious damage to the electrical system may occur.

- Follow the standard engine starting procedure.
CAUTION

Do not operate the starter continuously for more than 5 seconds or the starter will overheat and the battery power will drop temporarily. Wait 15 seconds between each operation of the starter to let it cool and the battery power recover.

• After the engine has started, disconnect the jumper cables. Disconnect the negative (−) cable from the motorcycle first.
• Reinstall the parts removed.

Moving Off
• Check that the side stand is up.
• Pull in the clutch lever.
• Shift into 1st gear.
• Open the throttle a little, and start to let out the clutch lever very slowly.
• As the clutch starts to engage, open the throttle a little more, giving the engine just enough fuel to keep it from stalling.

A. Shift Pedal
NOTE

- The motorcycle is equipped with a side stand switch. This switch is designed so that the engine does not start if the transmission is in gear and the side stand is down.
- When the headlight is on high beam, two headlight beams are lit, and on low beam, one headlight is lit.

Shifting Gears

- Close the throttle while pulling in the clutch lever.
- Shift into the next higher or lower gear.

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>When shifting down to a lower gear, do not shift at such a high speed that the engine r/min (rpm) jumps excessively. Not only can this cause engine damage, but the rear wheel may skid and cause an accident. Down-shifting should be done below 5,000 r/min (rpm) for each gear.</td>
</tr>
</tbody>
</table>

- Open the throttle part way, while releasing the clutch lever.
NOTE

- The transmission is equipped with a positive neutral finder. When the motorcycle is standing still, the transmission cannot be shifted past neutral from 1st gear. To use the positive neutral finder, shift down to 1st gear, then lift up on the shift pedal while standing still. The transmission will shift only into neutral.

Braking

- Close the throttle completely, leaving the clutch engaged (except when shifting gears) so that the engine will help slow down the motorcycle.
- Shift down one gear at a time so that you are in 1st gear when you come to a complete stop.
- When stopping, always apply both brakes at the same time. Normally the front brake should be applied a little more than the rear. Shift down or fully disengage the clutch as necessary to keep the engine from stalling.
- Never lock the brakes, or it will cause the tires to skid. When turning a corner, it is better not to brake at all. Reduce your speed before you get into the corner.
- For emergency braking, disregard downshifting, and concentrate on applying the brakes as hard as possible without skidding.
HOW TO RIDE THE MOTORCYCLE

- Even in motorcycles equipped with ABS, braking during cornering may cause wheel slip. When turning a corner, it is better to limit braking to the light application of both brakes or not to brake at all. Reduce your speed before you get into the corner.
Anti-lock Brake System (ABS)
for models equipped with ABS

ABS is designed to help prevent the wheels from locking up when hard brakes are applied while running straight. The ABS automatically regulates brake force. Intermittently gaining gripping force and braking force helps prevent wheel lock-up and allows stable steering control while stopping.

Brake control function is identical to that of a conventional motorcycle. The brake lever is used for the front brake and the brake pedal for the rear brake.

Although the ABS provides stability while stopping by preventing wheel lock-up, remember the following characteristics:

- ABS cannot compensate for adverse road conditions, misjudgement or improper application of brakes. You must take the same care as with motorcycles not equipped with ABS.
- ABS is not designed to shorten the braking distance. On loose, uneven or downhill surfaces, the stopping distance of a motorcycle with ABS may be longer than that of an equivalent motorcycle without ABS. Use special caution in such areas.
- ABS will help prevent wheel lock-up during straight-up braking, but it cannot control wheel slip which may be caused by braking during cornering. When turning a corner, it is better to limit braking to the light application of both brakes or not to brake at all. Reduce your speed before you get into the corner.
- The computers integrated in the ABS compare vehicle speed with wheel speed. Since non-recommended tires can affect wheel speed, they
may confuse the computers, which can extend braking distance.

**WARNING**

Use of non-recommended tires may cause malfunctioning of ABS and can lead to extended braking distance. The rider could have an accident as a result. Always use recommended standard tires for this motorcycle.

**NOTE**

- When the ABS is functioning, you may feel a pulsing in the brake lever or pedal. This is normal. You need not suspend applying brakes.
- Immediately after turning the ignition switch on, you may hear a click of the relay operating. This is the sound of self-checking and is quite normal.

- ABS does not function at the speed of approx. 6 km/h or below.
- ABS does not function if the battery is discharged.
- ABS indicator light may come on under motorcycle riding condition. (ex. The front or rear wheel races.) In this case, first turn the ignition key to “OFF”, and then back to “ON”. ABS indicator light goes off by this operation, but if ABS indicator light remains lit after the motorcycle runs at the speed of approx. 6 km/h or below, you should have the ABS checked by an authorized Kawasaki dealer.

**ABS Indicator Light:**

Normally the ABS indicator light comes on when the ignition switch is turned on and goes off shortly after the motorcycle starts moving.

If the indicator light shows any of the following, a fault or faults may have
taken place in the ABS. You should have the ABS checked by an authorized Kawasaki dealer.
• The light does not come on when the ignition switch is turned on.
• The light remains lit after the motorcycle starts moving.
• The light comes on and remains lit after the motorcycle starts moving.

Remember that the ABS does not function when the indicator light is on, but if the ABS fails, the conventional brake system still works normally.

Stopping the Engine
• Close the throttle completely.
• Shift the transmission into neutral.
• Turn the ignition key to “OFF”.
• Support the motorcycle on a firm, level surface with the side stand.
• Lock the steering.

NOTE
○ The motorcycle is equipped with a vehicle-down sensor, which causes the engine to stop automatically and the fuel injection indicator light to flash when the motorcycle falls down. After righting the motorcycle, first turn the ignition key to “OFF” and then back to “ON” before starting the engine.
Stopping the Motorcycle in an Emergency

Your Kawasaki Motorcycle has been designed and manufactured to provide you optimum safety and convenience. However, in order to fully benefit from Kawasaki’s safety engineering and craftsmanship, it is essential that you, the owner and operator, properly maintain your motorcycle and become thoroughly familiar with its operation. Improper maintenance can create a dangerous situation known as throttle failure. Two of the most common causes of throttle failure are:

1. An improperly serviced or clogged air cleaner may allow dirt and dust to enter the throttle body and stick the throttle open.

2. During removal of the air cleaner, dirt is allowed to enter and jam the fuel injection system.

In an emergency situation such as throttle failure, your vehicle may be stopped by applying the brakes and disengaging the clutch. Once this stopping procedure is initiated, the engine stop switch may be used to stop the engine. If the engine stop switch is used, turn off the ignition switch after stopping the motorcycle.
Parking

- Shift the transmission into neutral and turn the ignition key to “OFF”.
- Support the motorcycle on a firm, level surface with the side stand.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not park on a soft or steeply inclined surface, or the motorcycle may fall over.</td>
</tr>
</tbody>
</table>

- If parking inside a garage or other structure, be sure it is well ventilated and the motorcycle is not close to any source of flame or sparks; this includes any appliance with a pilot light.

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>The muffler and exhaust pipe are very hot while the engine is running and just after the engine stop. This can ignite a fire, resulting in property damage or severe personal injury. Do not idle or park your vehicle in an area where flammable materials such as grasses or dry leaves may contact with muffler or exhaust pipe.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gasoline is extremely flammable and can be explosive under certain conditions.</td>
</tr>
</tbody>
</table>

- Lock the steering to help prevent theft.
NOTE
- When stopping near traffic at night, you can leave the taillight on for greater visibility by turning the ignition key to the P (park) position.
- Do not leave the ignition switch at P position too long, or the battery will discharge.

Catalytic Converter
This motorcycle is equipped with a catalytic converter in the exhaust system. Platinum and rhodium in the converter react with carbon monoxide and hydrocarbons to convert them into carbon dioxide and water resulting in much cleaner exhaust gases to be discharged into the atmosphere.

For proper operation of the catalytic converter, the following cautions must be observed.
**WARNING**

The muffler and exhaust pipe are very hot while the engine is running and just after the engine stop. This can ignite a fire, resulting in property damage or severe personal injury. Do not idle or park your vehicle in an area where flammable materials such as grasses or dry leaves may contact with muffler or exhaust pipe.

- Use only unleaded gasoline. Never use leaded gasoline. Leaded gasoline significantly reduces the capability of the catalytic converter.

- Do not coast the vehicle with the ignition switch and/or engine stop switch off. Do not attempt to start the engine by rolling the vehicle if the battery is discharged. Do not operate the vehicle with the engine or any one cylinder misfiring. Under these conditions unburned air/fuel mixture flowing out of engine excessively accelerates reaction in the converter allowing the converter to overheat and become damaged when the engine is hot, or reduces converter performance when the engine is cold.
Daily Safety Checks
Check the following items each day before you ride. The time required is minimal, and habitual performance of these checks will help ensure you a safe, reliable ride.

If any irregularities are found during these checks, refer to the Maintenance and Adjustment chapter or see your dealer for the action required to return the motorcycle to a safe operating condition.

**WARNING**
Failure to perform these checks every day before you ride may result in serious damage or a severe accident.

Fuel ......................... Adequate supply in tank, no leaks.
Engine oil .................... Oil level between level lines.
Tires ......................... Air pressure (when cold):

<table>
<thead>
<tr>
<th></th>
<th>Front Load</th>
<th>Rear Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 180 kg (397 lb)</td>
<td>225 kPa (2.25 kg/cm², 32 psi)</td>
<td>250 kPa (2.50 kg/cm², 36 psi)</td>
</tr>
</tbody>
</table>

Install the air valve cap.
SAFE OPERATION

Drive chain ................. Slack 30 ~ 40 mm (1.2 ~ 1.6 in.)
Lubricate the drive chain if dry.

Nuts, bolts, fasteners .. Check that steering and suspension components, axles, and all controls are properly tightened or fastened.

Steering .................... Action smooth but not loose from lock to lock.

No binding of control cables.

Brakes ........................ Brake pad wear: Lining thickness more than 1 mm (0.04 in.) left.
No brake fluid leakage.

Throttle ..................... Throttle grip play 2 ~ 3 mm (0.08 ~ 0.12 in.).

Clutch ....................... Clutch lever play 2 ~ 3 mm (0.08 ~ 0.12 in.).
Clutch lever operates smoothly.

Coolant ...................... No coolant leakage.
Coolant level between level lines (when engine is cold).

Electrical equipment ... All lights (Headlight, Tail/Brake Lights, Turn Signal Lights, Warning/Indicator Lights) and horn work.

Engine stop switch ...... Stops engine.

Side stand .................... Returns to its fully up position by spring tension.
Returns spring not weak or not damaged.

Refer to the “Daily Safety Checks” caution label attached to the tool kit/U-shaped lock compartment.
SAFETY OPERATION

Additional Considerations for High Speed Operation

**Brakes:** The importance of the brakes, especially during high speed operation, cannot be overemphasized. Check to see that they are correctly adjusted and functioning properly.

**Steering:** Looseness in the steering can cause loss of control. Check to see that the handlebar turns freely but has no play.

**Tires:** High speed operation is hard on tires, and good tires are crucial for riding safety. Examine their overall condition, inflate them to the proper pressure, and check the wheel balance.

**Fuel:** Have sufficient fuel for the high fuel consumption during high speed operation.

**Engine Oil:** To avoid engine seizure and resulting loss of control, make sure that the oil level is at the upper level line.

**Coolant:** To avoid overheating, check that the coolant level is at the upper level line.

**Electrical Equipment:** Make sure that the headlight, tail/brake light, turn signals, horn, etc., all work properly.

**Miscellaneous:** Make sure that all nuts and bolts are tight and that all safety related parts are in good condition.
WARNING
Handling characteristics of a motorcycle at high speeds may vary from those you are familiar with at legal highway speeds. Do not attempt high speed operation unless you have received sufficient training and have the required skills.
The maintenance and adjustments outlined in this chapter must be carried out and must be done in accordance with the Periodic Maintenance Chart to keep the motorcycle in good running condition. The initial maintenance is vitally important and must not be neglected.

With a basic knowledge of mechanics and the proper use of tools, you should be able to carry out many of the maintenance items described in this chapter. If you lack proper experience or doubt your ability, all adjustments, maintenance, and repair work should be completed by a qualified technician.

Please note that Kawasaki cannot assume any responsibility for damage resulting from incorrect or improper adjustment done by the owner.
Periodic Maintenance Chart
1. Periodic Inspection (Engine Related Items)

<table>
<thead>
<tr>
<th>Operation (Engine Item)</th>
<th>Frequency</th>
<th>Whichever comes first</th>
<th>*Odometer Reading km × 1000 (mile × 1000)</th>
<th>See Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>K Air cleaner element - clean</td>
<td>Every 1 (0.6)</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>K Valve clearance - inspect</td>
<td>Every 42 000 km (26 000 mile)</td>
<td>83</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Throttle control system (play, smooth return, no drag) - inspect</td>
<td>year</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>K Engine vacuum synchronization - inspect</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Idle speed - inspect</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>K Fuel leak (fuel hose and pipe) - inspect</td>
<td>year</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Operation (Engine Items)</td>
<td>Frequency</td>
<td>Whichever comes first</td>
<td>*Odometer Reading km × 1000 (mile × 1000)</td>
<td>See Page</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>-----------</td>
<td>-----------------------</td>
<td>------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td><em>K</em> Fuel hoses damage - inspect</td>
<td>Every</td>
<td>1 (0.6)</td>
<td>6 (4)</td>
<td>12 (7.5)</td>
</tr>
<tr>
<td><em>K</em> Fuel hoses installation condition - inspect</td>
<td>year</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Coolant level - inspect</td>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Coolant leak - inspect</td>
<td>year</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Radiator hose damage - inspect</td>
<td>year</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Radiator hoses installation condition - inspect</td>
<td>year</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td><em>K</em> Air suction system damage - inspect</td>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>
### 2. Periodic Inspection (Chassis Related Items)

<table>
<thead>
<tr>
<th>Operation (Chassis Items)</th>
<th>Frequency</th>
<th>Whichever comes first</th>
<th>*Odometer Reading km × 1000 (mile × 1000)</th>
<th>See Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Every</td>
<td>1 (0.6)</td>
<td>6 (4)</td>
<td>12 (7.5)</td>
</tr>
<tr>
<td><strong>Clutch and drive train:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clutch operation (play, engagement, disengagement) - inspect</td>
<td>*</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Drive chain lubrication condition - inspect #</td>
<td>every 600 km (400 mile)</td>
<td>97</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drive chain slack - inspect #</td>
<td>every 1000 km (600 mile)</td>
<td>90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drive chain wear - inspect #</td>
<td></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Drive chain guide wear - inspect</td>
<td></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Wheels and tires:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tire air pressure - inspect</td>
<td>year</td>
<td></td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

*Odometer Reading km × 1000 (mile × 1000)
## MAINTENANCE AND ADJUSTMENT

<table>
<thead>
<tr>
<th>Operation (Chassis Items)</th>
<th>Frequency</th>
<th>Whichever comes first</th>
<th>*Odometer Reading km × 1000 (mile × 1000)</th>
<th>See Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheels/tires damage - inspect</td>
<td>Every</td>
<td></td>
<td>1 (0.6) 6 (4) 12 (7.5) 18 (12) 24 (15) 30 (20) 36 (24)</td>
<td>109</td>
</tr>
<tr>
<td>Tire tread wear, abnormal wear - inspect</td>
<td>Every</td>
<td></td>
<td>1 (0.6) 6 (4) 12 (7.5) 18 (12) 24 (15) 30 (20) 36 (24)</td>
<td>109</td>
</tr>
<tr>
<td>Wheel bearings damage - inspect</td>
<td>Every</td>
<td></td>
<td>1 (0.6) 6 (4) 12 (7.5) 18 (12) 24 (15) 30 (20) 36 (24)</td>
<td>109</td>
</tr>
<tr>
<td>Brake fluid leak - inspect</td>
<td>Every</td>
<td></td>
<td>1 (0.6) 6 (4) 12 (7.5) 18 (12) 24 (15) 30 (20) 36 (24)</td>
<td>98</td>
</tr>
<tr>
<td>Brake hoses and pipe damage - inspect</td>
<td>Every</td>
<td></td>
<td>1 (0.6) 6 (4) 12 (7.5) 18 (12) 24 (15) 30 (20) 36 (24)</td>
<td>98</td>
</tr>
<tr>
<td>Brake pad wear - inspect #</td>
<td>Every</td>
<td></td>
<td>1 (0.6) 6 (4) 12 (7.5) 18 (12) 24 (15) 30 (20) 36 (24)</td>
<td>98</td>
</tr>
<tr>
<td>Brake hose installation condition - inspect</td>
<td>Every</td>
<td></td>
<td>1 (0.6) 6 (4) 12 (7.5) 18 (12) 24 (15) 30 (20) 36 (24)</td>
<td>98</td>
</tr>
</tbody>
</table>
## Maintenance and Adjustment

### Operation (Chassis Items)

<table>
<thead>
<tr>
<th>Operation (Chassis Items)</th>
<th>Frequency</th>
<th>Whichever comes first</th>
<th>*Odometer Reading (km x 1000)</th>
<th>See Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brake fluid level - inspect</td>
<td>Every 6 months</td>
<td>● ● ● ● ● ● ● ●</td>
<td>1 (0.6) 6 (4) 12 (7.5) 18 (12) 24 (15) 30 (20) 36 (24)</td>
<td>99</td>
</tr>
<tr>
<td>Brake operation (effectiveness, play, drag) - inspect</td>
<td>year</td>
<td>● ● ● ● ● ●</td>
<td></td>
<td>101</td>
</tr>
<tr>
<td>Brake light switch operation - inspect</td>
<td></td>
<td>● ● ● ● ● ●</td>
<td></td>
<td>102</td>
</tr>
</tbody>
</table>

### Suspicions:

<table>
<thead>
<tr>
<th>Operation</th>
<th>Frequency</th>
<th>*Odometer Reading (mile x 1000)</th>
<th>See Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front forks/rear shock absorber operation (damping and smooth stroke) - inspect</td>
<td>Every</td>
<td>● ● ● ●</td>
<td>104,105</td>
</tr>
<tr>
<td>Front forks/rear shock absorber oil leak - inspect</td>
<td>year</td>
<td>● ● ● ●</td>
<td>104,105</td>
</tr>
</tbody>
</table>
## MAINTENANCE AND ADJUSTMENT

<table>
<thead>
<tr>
<th>Operation (Chassis Items)</th>
<th>Frequency</th>
<th>Whichever comes first</th>
<th>*Odometer Reading km × 1000 ( mile × 1000)</th>
<th>See Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Every</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 (0.6)</td>
<td>6 (4)</td>
<td>12 (7.5)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>18 (12)</td>
<td>24 (15)</td>
<td>30 (20)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>36 (24)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Steering System:

<table>
<thead>
<tr>
<th>Operation</th>
<th>Frequency</th>
<th>Year</th>
<th>1 (0.6)</th>
<th>6 (4)</th>
<th>12 (7.5)</th>
<th>18 (12)</th>
<th>24 (15)</th>
<th>30 (20)</th>
<th>36 (24)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steering play - inspect</td>
<td>year</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Steering stem bearings - lubricate</td>
<td>2 years</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>

### Electrical System:

<table>
<thead>
<tr>
<th>Operation</th>
<th>Frequency</th>
<th>Year</th>
<th>1 (0.6)</th>
<th>6 (4)</th>
<th>12 (7.5)</th>
<th>18 (12)</th>
<th>24 (15)</th>
<th>30 (20)</th>
<th>36 (24)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lights and switches operation - inspect</td>
<td>year</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Headlight aiming - inspect</td>
<td>year</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>117</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Side stand switch operation - inspect</td>
<td>year</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Engine stop switch operation - inspect</td>
<td>year</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Operation (Chassis Items)</td>
<td>Frequency</td>
<td>Whichever comes first</td>
<td>*Odometer Reading km × 1000 (mile × 1000)</td>
<td>See Page</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
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<td>----------------------------------------</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Every</td>
<td>1 (0.6)</td>
<td>6 (4)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 (7.5)</td>
<td>24 (15)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 (20)</td>
<td>36 (24)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Chassis:**

<table>
<thead>
<tr>
<th>KChassis parts - lubricate</th>
<th>year</th>
<th>●</th>
<th>●</th>
<th>●</th>
<th>●</th>
<th>–</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>

Free Download
## MAINTENANCE AND ADJUSTMENT

### 3. Periodic Replacement

<table>
<thead>
<tr>
<th>Change/Replacement Item</th>
<th>Frequency</th>
<th>Whichever comes first</th>
<th>*Odometer Reading km $\times 1000$ ( mile $\times 1000$)</th>
<th>See Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 (0.6)</td>
<td>12 (7.5)</td>
</tr>
<tr>
<td>Air cleaner element #</td>
<td>Every 2 year</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine oil #</td>
<td>Every year</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Oil filter</td>
<td>Every year</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Fuel hoses</td>
<td>Every 4 year</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Coolant</td>
<td>Every 3 years</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Radiator hoses and O-rings</td>
<td>Every 3 years</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Brake hoses and pipe</td>
<td>Every 4 years</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Brake fluid (front and rear)</td>
<td>Every 2 years</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Rubber parts of master cylinder and caliper</td>
<td>Every 4 years</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Spark plug</td>
<td></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>
K: Should be serviced by an authorized Kawasaki dealer.
*: For higher odometer readings, repeat at the frequency interval established here.
#: Service more frequently when operating in severe conditions: dusty, wet, muddy, high speed, or frequent starting/stopping.
Engine Oil
In order for the engine, transmission, and clutch to function properly, maintain the engine oil at the proper level, and change the oil and replace the oil filter in accordance with the Periodic Maintenance Chart. Not only do dirt and metal particles collect in the oil, but the oil itself loses its lubricative quality if used too long.

**WARNING**
Motorcycle operation with insufficient, deteriorated, or contaminated engine oil will cause accelerated wear and may result in engine or transmission seizure, accident, and injury.

**Oil Level Inspection**
- If the oil has just been changed, start the engine and run it for several minutes at idle speed. This fills the oil filter with oil. Stop the engine, then wait several minutes until the oil settles.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Racing the engine before the oil reaches every part can cause engine seizure.</td>
</tr>
</tbody>
</table>

- If the motorcycle has just been used, wait several minutes for all the oil to drain down.
Check the engine oil level through the oil level gauge. With the motorcycle held level, the oil level should come up between the upper and lower level lines next to the gauge. If the oil level is too high, remove the excess oil through the oil filler opening using a syringe or some other suitable device. If the oil level is too low, add the oil to reach the correct level. Use the same type and brand of oil that is already in the engine.

CAUTION

If the engine oil gets extremely low or if the oil pump does not function properly or oil passages are clogged, the warning light in the tachometer will light.

A. Oil Level Gauge
B. Upper Level Line
C. Lower Level Line
D. Oil Filler Cap
**CAUTION**

If this light stays on when the engine speed is slightly above the idle speed, stop the engine immediately and find the cause.

---

**Oil and/or Oil Filter Change**

- To change the engine oil and replace oil filter, the engine oil drain plug and oil filter must be removed. The oil change and oil filter replacement should be done by an authorized Kawasaki dealer.
WARNING

Motor oil is a toxic substance. Dispose of used oil properly. Contact your local authorities for approved disposal methods or possible recycling.

A. Cartridge
## MAINTENANCE AND ADJUSTMENT

### Tightening Torque

<table>
<thead>
<tr>
<th>Component</th>
<th>Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Oil Drain Plug</td>
<td>30 N·m (3.0 kgf·m, 22 ft·lb)</td>
</tr>
<tr>
<td>Cartridge</td>
<td>17.5 N·m (1.75 kgf·m, 13 ft·lb)</td>
</tr>
</tbody>
</table>

### Recommended Engine Oil

<table>
<thead>
<tr>
<th>Type</th>
<th>Viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>API SE, SF or SG</td>
<td>SAE 10W-40</td>
</tr>
<tr>
<td>API SH, SJ or SL with JASO MA</td>
<td></td>
</tr>
</tbody>
</table>

### Engine Oil Capacity

<table>
<thead>
<tr>
<th>Capacity Description</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>when filter is not removed</td>
<td>1.7 L (1.8 US qt)</td>
</tr>
<tr>
<td>when filter is removed</td>
<td>1.9 L (2.0 US qt)</td>
</tr>
<tr>
<td>when engine is completely dry</td>
<td>2.4 L (2.5 US qt)</td>
</tr>
</tbody>
</table>
Although 10W-40 engine oil is the recommended oil for most conditions, the oil viscosity may need to be changed to accommodate atmospheric conditions in your riding area.

### Cooling System

**Radiator and Cooling Fan**

Check the radiator fins for obstruction by insects or mud. Clean off any obstructions with a stream of low-pressure water.

**WARNING**

The cooling fan turns on automatically, even with the ignition switch off. Keep your hands and clothing away from the fan blades at all times.
CAUTION

Using high-pressure water, as from a car wash facility, could damage the radiator fins and impair the radiator’s effectiveness. Do not obstruct or deflect airflow through the radiator by installing unauthorized accessories in front of the radiator or behind the cooling fan. Interference with the radiator airflow can lead to overheating and consequent engine damage.

Radiator Hoses -
Check the radiator hoses for leakage, cracks or deterioration, and connections for leakage or looseness each day before riding the motorcycle, and in accordance with the Periodic Maintenance Chart.

Coolant -
Coolant absorbs excessive heat from the engine and transfers it to the air at the radiator. If the coolant level becomes low, the engine overheats and may suffer severe damage. Check the coolant level each day before riding the motorcycle, and in accordance with the periodic maintenance chart and replenish coolant if the level is low. Change the coolant in accordance with the Periodic Maintenance Chart.

Information for Coolant
To protect the cooling system (consisting of the aluminum engine and radiator) from rust and corrosion, the use of corrosion and rust inhibitor chemicals in the coolant is essential. If coolant containing corrosion and rust inhibitor chemicals is not used, over a
period of time, the cooling system accumulates rust and scale in the water jacket and radiator. This will clog up the coolant passages, and considerably reduce the efficiency of the cooling system.

WARNING

Use coolant containing corrosion inhibitors made specifically for aluminum engines and radiators in accordance with the instructions of the manufacturer. Chemicals are harmful to the human body.

Soft or distilled water must be used with the antifreeze (see below for antifreeze) in the cooling system.

CAUTION

If hard water is used in the system, it causes scale accumulation in the water passages, and considerably reduces the efficiency of the cooling system.

If the lowest ambient temperature encountered falls below the freezing point of water, use permanent antifreeze in the coolant to protect the cooling system against engine and radiator freeze-up, as well as from rust and corrosion.

Use a permanent type of antifreeze (soft water and ethylene glycol plus corrosion and rust inhibitor chemicals for aluminum engines and radiators) in the cooling system. On the mixture ratio of coolant, choose the suitable one referring to the relation between freezing point and strength directed on the container.
MAINTENANCE AND ADJUSTMENT

CAUTION

Permanent types of antifreeze on the market have anti-corrosion and anti-rust properties. When it is diluted excessively, it loses its anti-corrosion property. Dilute a permanent type of antifreeze in accordance with the instructions of the manufacturer.

NOTE

A permanent type of antifreeze is installed in the cooling system when shipped. It is colored green and contains ethylene glycol. It is mixed at 50% and has the freezing point of \(-35^\circ\text{C} (-31^\circ\text{F})\).

Coolant Level Inspection

- Situate the motorcycle so that it is perpendicular to the ground.

- Check the coolant level if it is between the F (Full) and L (Low) level lines.

NOTE

- Check the level when the engine is cold (room or atmospheric temperature).

A. F (Full) Level Line
B. L (Low) Level Line
C. Right Side Cover
• If the amount of coolant is insufficient, remove the right side cover and add coolant into the reserve tank.

Coolant Filling
• Remove the upper right inner cowl by removing the bolt.

- Remove the cap from the reserve tank and add coolant through the filler opening to the F(Full) level line.

- Install the cap.
- Install the upper right inner cowl and tighten the bolt.
NOTE

In an emergency you can add water alone to the coolant reserve tank, however it must be returned to the correct mixture ratio by the addition of antifreeze concentrate as soon as possible.

CAUTION

If coolant must be added often, or the reserve tank completely runs dry, there is probably leakage in the system. Have the cooling system inspected by your authorized Kawasaki dealer.

Coolant Change
Have the coolant changed by an authorized Kawasaki dealer.

Spark Plugs
The standard spark plug is shown in the table. The spark plugs should be replaced in accordance with the Periodic Maintenance Chart.
Spark plug removal should be done by an authorized Kawasaki dealer.
### Spark Plug

<table>
<thead>
<tr>
<th></th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Plug</strong></td>
<td>NGK CR9EIA-9</td>
</tr>
<tr>
<td><strong>Plug Gap</strong></td>
<td>0.8 ~ 0.9 mm</td>
</tr>
<tr>
<td></td>
<td>(0.032 ~ 0.035 in.)</td>
</tr>
<tr>
<td><strong>Tightening Torque</strong></td>
<td>15 N·m</td>
</tr>
<tr>
<td></td>
<td>(1.5 kgf·m, 11 ft·lb)</td>
</tr>
</tbody>
</table>
Kawasaki Clean Air System

The Kawasaki Clean Air System (KCA) is a secondary air suction system that helps the exhaust gases to burn more completely. When the spent fuel charge is released into the exhaust system, it is still hot enough to burn. The KCA System allows extra air into the exhaust system so that the spent fuel charge can continue to burn. This continued burning action tends to burn up a great deal of the normally unburned gases, as well as changing a significant portion of the carbon monoxide into carbon dioxide.

Air Suction Valves -

The air suction valve is essentially a check valve which allows fresh air to flow only from the air cleaner into the exhaust port. Any air that has passed the air suction valve is prevented from returning. Inspect the air suction valves in accordance with the Periodic Maintenance Chart. Also, inspect the air suction valves whenever stable idling cannot be obtained, engine power is greatly reduced, or there are abnormal engine noises.

Air suction valve removal and inspection should be done by an authorized Kawasaki dealer.
Valve Clearance
Valve and valve seat wear decreases valve clearance, upsetting valve timing.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>If valve clearance is left un-adjusted, wear will eventually cause the valves to remain partly open, which lowers performance, burns the valves and valve seats, and may cause serious engine damage.</td>
</tr>
</tbody>
</table>

Valve clearance for each valve should be checked and adjusted in accordance with the Periodic Maintenance Chart.
Inspection and adjustment should be done by an authorized Kawasaki dealer.

Air Cleaner
A clogged air cleaner restricts the engine's air intake, increasing fuel consumption, reducing engine power, and causing spark plug fouling.
The air cleaner element and oil drain must be cleaned in accordance with the Periodic Maintenance Chart by an authorized Kawasaki dealer. In dusty, rainy, or muddy conditions, the air cleaner element should be serviced more frequently than the recommended interval.
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Throttle Control System
Check the throttle grip play in accordance with the Periodic Maintenance Chart, and adjust it if necessary.

Throttle Grip -
The throttle grip controls the butterfly valves in the throttle body. If the throttle grip has excessive play due to either cable stretch or maladjustment, it will cause a delay in throttle response, especially at low engine speed. Also, the throttle valve may not open fully at full throttle. On the other hand, if the throttle grip has not play, the throttle will be hard to control, and the idle speed will be erratic.

**Inspection**
- Check that the throttle grip play is correct by lightly turning the throttle grip back and forth.

**Throttle Grip Play**

| 2 ~ 3 mm (0.08 ~ 0.12 in.) |

- If there is improper play, adjust it.
Adjustment

- Loosen the locknut at the upper end of the throttle cable and turn the throttle cable adjusting nut in completely so as to give the throttle grip plenty of play.

If there is still not enough play, have it inspected by an authorized Kawasaki dealer.

**WARNING**

Operation with an improperly adjusted, incorrectly routed, or damaged cables could result in an unsafe riding condition.
MAINTENANCE AND ADJUSTMENT

Engine Vacuum Synchronization
Engine vacuum synchronization must be checked and adjusted periodically in accordance with the Periodic Maintenance Chart by an authorized Kawasaki dealer.

NOTE
- Poor engine vacuum synchronization will cause unstable idling, sluggish throttle response, and reduce engine power and performance.

Idle Speed
The idle speed check should be performed in accordance with the Periodic Maintenance Chart or whenever the idle speed is disturbed.
Adjustment
• Start the engine, and warm it up thoroughly.
• Adjust the idle speed by turning the idle adjusting screw.

Idle Speed

| 1 250 ~ 1 350 r/min (rpm) |

Operation with damaged cables could result in an unsafe riding condition.
MAINTENANCE AND ADJUSTMENT

Clutch
Due to friction plate wear and clutch cable stretch over a long period of use, the clutch operation should be checked each day before riding the motorcycle, and in accordance with the Periodic Maintenance Chart.

WARNING
To avoid a serious burn, never touch a hot engine or an exhaust pipe during clutch adjustment.

Inspection
- Check that the clutch lever operates properly and that the inner cable slides smoothly. If there is any irregularity, have the clutch cable checked by an authorized Kawasaki dealer.
- Check the clutch lever play as shown in the figure.

Clutch Lever Play

<table>
<thead>
<tr>
<th>Clutch Lever Play</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 ~ 3 mm (0.08 ~ 0.12 in.)</td>
</tr>
</tbody>
</table>

A. Locknut
B. Clutch Lever Play
C. Adjuster

If the play is incorrect, adjust the lever play as follows.
Adjustment

- Loosen the locknut, and turn the adjuster so that the clutch lever will have the proper play.

WARNING

Be sure the upper end of the clutch outer cable is fully seated in its fitting, or it could slip into place later, creating enough cable play to prevent clutch disengagement, resulting in a hazardous riding condition.

- If there is still not enough play, have it inspected by an authorized Kawasaki dealer.

NOTE

- After the adjustment is made, start the engine and check that the clutch does not slip and that it releases properly.
- For minor corrections, use the adjuster at the clutch lever.
Drive Chain
The drive chain slack and lubrication must be checked each day before riding the motorcycle, and in accordance with the Periodic Maintenance Chart for safety and to prevent excessive wear. If the chain becomes badly worn or maladjusted - either too loose or too tight - the chain could jump off the sprockets or break.

**WARNING**
A chain that breaks or jumps off the sprockets could snag on the engine sprocket or lock the rear wheel, severely damaging the motorcycle and causing it to go out of control.

**Chain Slack Inspection**
- Set the motorcycle up on its side stand.
- Rotate the rear wheel to find the position where the chain is tightest, and measure the maximum chain slack by pulling up and pushing down the chain midway between the engine sprocket and rear wheel sprocket.

![Chain Slack Diagram]

A. Chain Slack
If the drive chain is too tight or too loose, adjust it so that the chain slack will be within the standard value.

### Drive Chain Slack

| Standard | 30 ~ 40 mm (1.2 ~ 1.6 in.) |

**Adjustment**

- Loosen the left and right chain adjuster locknuts.
- Remove the cotter pin, and loosen the rear axle nut.

- If the chain is too loose, turn in the left and right chain adjusting nuts evenly.
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- If the chain is too tight, turn out the left and right chain adjusting nuts evenly.
- Turn both chain adjusting nuts evenly until the drive chain has the correct amount of slack.

- To keep the chain and wheel properly aligned, the value on the left wheel alignment indicator should align with the same (left or right) edge of inspection window on the swingarm that the right indicator value aligns with.

A. Value
B. Inspection Window
C. Adjuster
D. Locknut
NOTE

- Wheel alignment can also be checked using the straightedge or string method.

WARNING

Misalignment of the wheel will result in abnormal wear, and may result in an unsafe riding condition.

- Tighten both chain adjuster locknuts.
- Tighten the rear axle nut to the specified torque.

Tightening Torque

<table>
<thead>
<tr>
<th>Axle Nut:</th>
</tr>
</thead>
<tbody>
<tr>
<td>108 N·m (11 kgf·m, 80 ft·lb)</td>
</tr>
</tbody>
</table>

NOTE

- If a torque wrench is not available, this item should be serviced by a Kawasaki dealer.

- Rotate the wheel, measure the chain slack again at the tightest position, and readjust if necessary.
- Install a new cotter pin through the rear axle nut and axle, and spread its ends.

A. Cotter Pin
NOTE

○ When inserting the cotter pin, if the slots in the nut do not align with the cotter pin hole in the axle shaft, tighten the nut clockwise up to the next alignment.
○ It should be within 30 degree.
○ Loosen once and tighten again when the slot goes past the nearest hole.

WARNING

If the axle nut is not securely tightened or the cotter pin is not installed, an unsafe riding condition may result.

• Check the rear brake (see the Brakes section).

A. Turning Clockwise
Wear Inspection

- Remove the bolts to take off the chain guide.

- Stretch the chain taut either by using the chain adjusters, or by hanging a 10 kg (20 lb) weight on the chain.
- Measure the length of 20 links on the straight part of the chain from pin center of the 1st pin to pin center of the 21st pin. Since the chain may wear unevenly, take measurements at several places.
- If the length exceeds the service limit, the chain should be replaced.

**Drive Chain 20–Link Length Service Limit**

<table>
<thead>
<tr>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>323 mm (12.7 in.)</td>
</tr>
</tbody>
</table>
For safety, use only the standard chain. It is an endless type and should not be cut for installation; have it installed by an authorized Kawasaki dealer.

- Rotate the rear wheel to inspect the drive chain for damaged rollers, and loose pins and links.
- Also inspect the sprockets for unevenly or excessively worn teeth, and damaged teeth.

Note: Sprocket wear is exaggerated for illustration. See Service Manual for wear limits.

A. Good Teeth  
B. Worn Teeth  
C. Damaged Teeth

- If there is any irregularity, have the drive chain and/or the sprockets replaced by an authorized Kawasaki dealer.
Lubrication

Lubrication is also necessary after riding through rain or on wet roads, or any time that the chain appears dry. A heavy oil such as SAE 90 is preferred to a lighter oil because it will stay on the chain longer and provide better lubrication.

- Apply oil to the sides of the rollers so that it will penetrate to the rollers and bushings. Apply oil to the O-rings so that the O-rings will be coated with oil. Wipe off any excess oil.

- If the chain is especially dirty, clean it using diesel oil or kerosine and then apply oil as mentioned above.
Brakes

Brake Wear Inspection
Inspect the brakes for wear. For each front and rear disc brake caliper, if the thickness of either pad is less than 1 mm (0.04 in.), replace both pads in the caliper as a set. Pad replacement should be done by an authorized Kawasaki dealer.

Disc Brake Fluid -
In accordance with the Periodic Maintenance Chart, inspect the brake fluid level in both the front and rear brake fluid reservoirs and change the brake fluid. The brake fluid should also be changed if it becomes contaminated with dirt or water.

Fluid Requirement
Use heavy-duty brake fluid only from a container marked DOT4.

CAUTION
Do not spill brake fluid onto any painted surface.
Do not use fluid from a container that has been left open or that has been unsealed for a long time.
Check for fluid leakage around the fittings.
Check brake hose for damage.
Fluid Level Inspection

- The brake fluid level in the front brake fluid reservoir must be kept above the line (lower level line) next to the gauge and that in the rear brake fluid reservoir (located near the rear fender) must be kept between the upper and lower level lines (reservoirs held horizontal).
• If the fluid level in either reservoir is lower than the lower level line, check for fluid leaks in the brake lines, and fill the reservoir to the upper level line. Inside the front brake fluid reservoir is a stepped line showing the upper level line.

A. Front Brake Fluid Reservoir
B. Upper Level Line

⚠️ WARNING

Do not mix two brands of brake fluid. Change the brake fluid in the brake line completely if the brake fluid must be refilled but the type and brand of the brake fluid that is already in the reservoir are unidentified.
NOTE

- First, tighten until slight resistance is felt indicating that the cap is seated on the reservoir body; then, tighten the cap an additional 1/6 turn while holding the brake fluid reservoir body.

Fluid Change
Have the brake fluid changed by an authorized Kawasaki dealer.

Front and Rear Brakes -
Disc and disc pad wear is automatically compensated for and has no effect on the brake lever or pedal action. So there are no parts that require adjustment on the front brakes and rear brakes.

WARNING
If the brake lever or pedal feels mushy when it is applied, there might be air in the brake lines or the brake may be defective. Since it is dangerous to operate the motorcycle under such conditions, have the brake checked immediately by an authorized Kawasaki dealer.
Brake Light Switches
When either the front or rear brake is applied, the brake light goes on. The front brake light switch requires no adjustment, but the rear brake light switch should be adjusted in accordance with the Periodic Maintenance Chart.

**Inspection**
- Turn the ignition key to “ON”.
- The brake light should go on when the front brake is applied.
- If it does not, ask your authorized Kawasaki dealer to inspect the front brake light switch.

- Check the operation of the rear brake light switch by depressing the brake pedal. The brake light should go on after the proper pedal travel.

A. Brake Pedal
B. Pedal Travel

- If it does not, adjust the rear brake light switch.

**Brake Pedal Travel**
10 mm (0.4 in.)
Adjustment

- Disconnect the connector.

- To adjust the rear brake light switch, move the switch up or down by turning the switch body.

- Connect the connector.
Front Fork
The front fork operation and oil leakage should be checked in accordance with the Periodic Maintenance Chart.

Front Fork Inspection
- Holding the brake lever, pump the front fork up and down by several times for inspection of smooth stroke.
- Visually inspect the front fork for oil leakage, scoring or scratches on the outer surface of the inner tube.
- If any doubt about the front fork, it should be done by an authorized Kawasaki dealer.

A. Inner Tube
Rear Shock Absorbers
The rear shock absorber operation and oil leakage should be checked in accordance with the Periodic Maintenance Chart.

Rear Shock Absorber Inspection
• Press down on the seat several times to check if the rear shock absorber stroke is smooth.
• Visually inspect the rear shock absorber for oil leakage.

• If any doubt about the rear shock absorber, it should be done by an authorized Kawasaki dealer.

A. Rear Shock Absorber
The rear shock absorber can be adjusted by changing the spring preload and rebound damping force for various riding and loading conditions.
Spring Preload Adjustment

The spring preload adjuster on the rear shock absorber has 7 positions.

A. Spring Preload Adjuster
B. Wrench

- In accordance with the following table, turn the preload adjuster with the wrench from the tool kit.

<table>
<thead>
<tr>
<th>Position</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring Action</td>
<td></td>
<td></td>
<td></td>
<td>Stronger</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The standard setting position for an average-build rider of 75 kg (165 lb) with no passenger and no accessories is No. 3.

**WARNING**

This unit contains high pressure nitrogen gas. Mishandling can cause explosion. Read Service Manual for instructions. Do not incinerate, puncture or open.
Wheels
Tubeless tires are installed on the wheels of this motorcycle. The indications of TUBELESS on the tire side wall and the rim show that the tire and rim are specially designed for tubeless use.

A. TUBELESS Mark

The tire and rim form a leakproof unit by making airtight contacts at the tire chamfers and the rim flanges instead of using an inner tube.
WARNING
The tires, rims, and air valves on this motorcycle are designed only for tubeless type wheels. The recommended standard tires, rims, and air valves must be used for replacement. Do not install tube-type tires on tubeless rims. The beads may not seat properly on the rim causing tire deflation. Do not install a tube inside a tubeless tire. Excessive heat build-up may damage the tube causing tire deflation.

Tires -
Payload and Tire Pressure
Failure to maintain proper inflation pressures or observe payload limits for your tires may adversely affect handling and performance of your motorcycle and can result in loss of control. The maximum recommended load in addition to vehicle weight is 180 kg (397 lb), including rider, passenger, baggage, and accessories.
- Remove the air valve cap.
- Check the tire pressure often, using an accurate gauge.
- Make sure to install the air valve cap securely.

NOTE
- Measure the tire pressure when the tires are cold (that is, when the motorcycle has not been ridden more than a mile during the past 3 hours).
Tire pressure is affected by changes in ambient temperature and altitude, and so the tire pressure should be checked and adjusted when your riding involves wide variations in temperature or altitude.

Tire Air Pressure (when cold)

<table>
<thead>
<tr>
<th></th>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure</td>
<td>225 kPa (2.25 kgf/cm², 32 psi)</td>
<td>250 kPa (2.50 kgf/cm², 36 psi)</td>
</tr>
</tbody>
</table>

Tire Wear, Damage

As the tire tread wears down, the tire becomes more susceptible to puncture and failure. An accepted estimate is that 90% of all tire failures occur during the last 10% of tread life (90% worn). So it is false economy and unsafe to use the tires until they are bald.

- In accordance with the Periodic Maintenance Chart, measure the depth of the tread with a depth gauge, and replace any tire that has worn down to the minimum allowable tread depth.
### Minimum Tread Depth

<table>
<thead>
<tr>
<th></th>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Under 130 km/h (80 mph)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 mm (0.04 in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 mm (0.08 in.)</td>
</tr>
</tbody>
</table>

- Visually inspect the tire for cracks and cuts, replacing the tire in case of bad damage. Swelling or high spots indicate internal damage, requiring tire replacement.
- Remove any imbedded stones or other foreign particles from the tread.

**NOTE**

- Most countries may have their own regulations requiring a minimum tire tread depth; be sure to follow them.
- Have the wheel balance inspected whenever a new tire is installed.

![A. Tire Depth Gauge](image_url)
WARNING
To ensure safe handling and stability, use only the recommended standard tires for replacement, inflated to the standard pressure. Tires that have been punctured and repaired do not have the same capabilities as undamaged tires. Do not exceed 100 km/h (60 mph) within 24 hours after repair, and 180 km/h (110 mph) at any time after that.

NOTE
When operating on public roadways, keep maximum speed under traffic law limits.

---

<table>
<thead>
<tr>
<th>Standard Tire (Tubeless)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Front</strong></td>
</tr>
<tr>
<td>Size: 120/70ZR17 M/C (58W)</td>
</tr>
<tr>
<td>BRIDGESTONE</td>
</tr>
<tr>
<td>“BT020F RADIAL GG”</td>
</tr>
<tr>
<td><strong>Rear</strong></td>
</tr>
<tr>
<td>Size: 160/60ZR17 M/C (69W)</td>
</tr>
<tr>
<td>BRIDGESTONE</td>
</tr>
<tr>
<td>“BT020R RADIAL”</td>
</tr>
</tbody>
</table>

WARNING
Use the same manufacturer’s tires on both front and rear wheels.
WARNING

New tires are slippery and may cause loss of control and injury. A break-in period of 160 km (100 miles) is necessary to establish normal tire traction. During break-in, avoid sudden and maximum braking and acceleration, and hard cornering.

Battery

The battery installed in this motorcycle is a sealed type, so it is not necessary to check the battery electrolyte level or add distilled water. The sealing strip should not be pulled off once the specified electrolyte has been installed in the battery for initial service.

However, in order to maximize battery life and ensure that it will provide the power needed to start the motorcycle you must properly maintain the battery’s charge. When used regularly, the charging system in the motorcycle helps keep the battery fully charged. If your motorcycle is only used occasionally or for short periods of time, the battery is more likely to discharge.

Due to their internal composition, batteries continually self discharge. The discharge rate depends on the
type of battery and ambient temperature. As temperatures rise, so does the discharge rate. Every 15°C (27°F) doubles the rate.

Electrical accessories, such as digital clocks and computer memory, also draw current from the battery even when the key is switched off. Combine such “key-off” draws with hot temperature, and a battery can go from fully charged to completely discharged in a matter of days.

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Self-discharge</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Approx. Number of Days From 100% Charged to 100% discharged</td>
</tr>
<tr>
<td></td>
<td>Lead-Antimony</td>
</tr>
<tr>
<td>Battery</td>
<td>Battery</td>
</tr>
<tr>
<td>40°C (104°F)</td>
<td>100 Days</td>
</tr>
<tr>
<td>25°C (77°F)</td>
<td>200 Days</td>
</tr>
<tr>
<td>0°C (32°F)</td>
<td>550 Days</td>
</tr>
</tbody>
</table>
114 MAINTENANCE AND ADJUSTMENT

<table>
<thead>
<tr>
<th>Discharging Ampere</th>
<th>Current Drain</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Days form 100% charged to 50% Charged</td>
</tr>
<tr>
<td>7 mA</td>
<td>60 Days</td>
</tr>
<tr>
<td>10 mA</td>
<td>42 Days</td>
</tr>
<tr>
<td>15 mA</td>
<td>28 Days</td>
</tr>
<tr>
<td>20 mA</td>
<td>21 Days</td>
</tr>
<tr>
<td>30 mA</td>
<td>14 Days</td>
</tr>
</tbody>
</table>

Sulfation occurs when the battery is left in a discharged condition for an extended time. Sulfate is a normal by product of the chemical reactions within a battery. But when continuous discharge allows the sulfate to crystallize in the cells, the battery plates become permanently damaged and will not hold a charge. Battery failure due to sulfation is not warrantable.

**Battery Sulfation**

In extremely cold weather the fluid in an inadequately charged battery can easily freeze, which can crack the case and buckle the plates. A fully charged battery can withstand sub-freezing temperatures with no damage.

**Battery Maintenance**

It is the owner’s responsibility to keep the battery fully charged. Failure to do so can lead to battery failure and leave you stranded.

If you are riding your vehicle infrequently, inspect the battery voltage weekly using a voltmeter. If it drops below 12.8 volts, the battery should be charged using an appropriate charger (check with your Kawasaki dealer).
If you will not be using the motorcycle for longer than two weeks, the battery should be charged using an appropriate charger. Do not use an automotive-type quick charger that may overcharge the battery and damage it.

**Kawasaki-recommended chargers are:**
OptiMate III  
Yuasa 1.5 Amp Automatic charger  
Battery Mate 150-9

If the above chargers are not available, use equivalent one. For more details, ask your Kawasaki dealer.

**Battery Charging**
- Remove the battery from the motorcycle (see Battery Removal).
- Attach the leads from the charger and charge the battery at a rate that is 1/10th of the battery capacity. For example, the charging rate for a 10 Ah battery would be 1.0 ampere.
- The charger will keep the battery fully charged until you are ready to re-install the battery in the motorcycle (see Battery Installation).

**CAUTION**

Never remove the sealing strip, or the battery can be damaged. Do not install a conventional battery in this motorcycle, or the electrical system cannot work properly.

**NOTE**

If you charge the sealed battery, never fail to observe the instructions shown in the label on the battery.
Battery Removal

- Remove the seat.

- Disconnect the wires from the battery, first from the (−) terminal and then the (+) terminal.
- Take the battery out of the case.
- Clean the battery using a solution of baking soda and water. Be sure that the wire connections are clean.

Battery Installation

- Place the battery in the battery case.
- Connect the capped wire to the (+) terminal, and then connect the black wire to the (−) terminal.

**NOTE**

- Install the battery in the reverse order of the Battery Removal.

**CAUTION**

- Installing the (−) cable to the (+) terminal of the battery or the (+) cable to the (−) terminal of the battery can seriously damage the electrical system.

- Put a light coat of grease on the terminals to prevent corrosion.
- Cover the (+) terminal with its protective cap.
- Reinstall the parts removed.
Headlight Beam

Horizontal Adjustment
The headlight beam is adjustable horizontally. If not properly adjusted horizontally, the beam will point to one side rather than straight ahead.
• Turn the horizontal adjuster clockwise or counterclockwise until the beam points straight ahead.

Vertical Adjustment
The headlight beam is adjustable vertically. If adjusted too low, neither low nor high beam will illuminate the road far enough ahead. If adjusted too high, the high beam will fail to illuminate the road close ahead, and the low beam will blind oncoming drivers.
• Remove the upper left inner cowl by removing the bolts
MAINTENANCE AND ADJUSTMENT

- Turn the vertical adjuster clockwise or counterclockwise to adjust its vertical angle.

**NOTE**

On high beam, the brightest point should be slightly below horizontal with the motorcycle on its wheels and the rider seated. Adjust the headlight to the proper angle according to local regulations.
Rear Turn Signal Light

To replace the bulb of the rear turn signal light, remove the screw and lightly twist the lens counterclockwise.

Fuses

Fuses are arranged in the fuse box located under the seat. The main fuse is mounted on the starter relay behind the right side cover. If a fuse fails during operation, inspect the electrical system to determine the cause, and then replace it with a new fuse of proper amperage.
120 MAINTENANCE AND ADJUSTMENT

- Remove the left side cover by removing the bolt.

A. Left Side Cover  
B. Bolt

A. Main Fuse
WARNING

Do not use any substitute for the standard fuse. Replace the blown fuse with a new one of the correct capacity, as specified on the junction box and main fuse.

Cleaning Your Motorcycle

General Precautions

Frequent and proper care of your Kawasaki motorcycle will enhance its appearance, optimize overall performance, and extend its useful life. Covering your motorcycle with a high quality, breathable motorcycle cover will help protect its finish from harmful UV rays, pollutants, and reduce the amount of dust reaching its surfaces.

- Be sure the engine and exhaust are cool before washing.
- Avoid applying degreaser to seals, brake pads, and tires.
- Always use non-abrasive wax and cleaner/polisher.
- Avoid all harsh chemicals, solvents, detergents, and household cleaning products such as ammonia-based window cleaners.
Gasoline, brake fluid, and coolant will damage the finish of painted and plastic surfaces: wash them off immediately.

Avoid wire brushes, steel wool, and all other abrasive pads or brushes.

Use care when washing the windshield, headlight cover, and other plastic parts as they can easily be scratched.

Avoid using pressure washers; water can penetrate seals and electrical components and damage your motorcycle.

Avoid spraying water in delicate areas such as in air intakes, fuel system, brake components, electrical components, muffler outlets, and fuel tank openings.

Washing Your Motorcycle

- Rinse your bike with cold water from a garden hose to remove any loose dirt.
- Mix a mild neutral detergent (designed for motorcycles or automobiles) and water in bucket. Use a soft cloth or sponge to wash your motorcycle. If needed, use a mild degreaser to remove any oil or grease build up.
- After washing, rinse your motorcycle thoroughly with clean water to remove any residue (residue from the detergent can damage parts of your motorcycle).
- Use a soft cloth to dry your motorcycle. As you dry, inspect your motorcycle for chips and scratches. Do not let the water air dry as this can damage the painted surfaces.
• Start the engine and let it idle for several minutes. The heat from the engine will help dry moist areas.
• Carefully ride your motorcycle at a slow speed and apply the brakes several times. This helps dry the brakes and restores them to normal operating performance.
• Lubricate the drive chain to prevent rusting.

NOTE
○ After riding in an area where the roads are salted or near the ocean, immediately wash your motorcycle with cold water. Do not use warm water as it accelerates the chemical reaction of the salt. After drying, apply a corrosion protection spray on all metal and chrome surfaces to prevent corrosion.
○ Condensation may form on the inside of the headlight lens after riding in the rain or washing the motorcycle. To remove the moisture, start the engine and turn on the headlight. Gradually the condensation on the inside of the lens will clear off.

Painted Surfaces
After washing your motorcycle, coat painted surfaces, both metal and plastic, with a commercially available motorcycle/automotive wax. Wax should be applied once every three months or as conditions require. Avoid surfaces with “satin” or “flat” finishes. Always use non-abrasive products and apply them according to the instructions on the container.

Windshield and Other Plastic Parts
After washing use a soft cloth to gently dry plastic parts. When dry, treat the windshield, headlight lens, and other non-painted plastic parts with
an approved plastic cleaner/polisher product.

---

**CAUTION**

Plastic parts may deteriorate and break if they come in contact with chemical substances or household cleaning products such as gasoline, brake fluid, window cleaners, thread-locking agents, or other harsh chemicals. If a plastic part comes in contact with any harsh chemical substance, wash it off immediately with water and a mild neutral detergent, and then inspect for damage. Avoid using abrasive pads or brushes to clean plastic parts, as they will damage the part’s finish.

---

**Chrome and Aluminum**

Chrome and uncoated aluminum parts can be treated with a chrome/aluminum polish. Coated aluminum should be washed with a mild neutral detergent and finished with a spray polish. Aluminum wheels, both painted and unpainted can be cleaned with special non-acid based wheel spray cleaners.

**Leather, Vinyl, and Rubber**

If your motorcycle has leather accessories, special care must be taken. Use a leather cleaner/treatment to clean and care for leather accessories. Washing leather parts with detergent and water will damage them, shortening their life.

Vinyl parts should be washed with the rest of the motorcycle, then treated with a vinyl treatment.
The sidewalls of tires and other rubber components should be treated with a rubber protectant to help prolong their useful life.

**WARNING**

Special care must be taken not to get any rubber protectant on the tire’s tread surface when treating tires. This may decrease the tire’s ability to maintain contact with the road surface causing the rider to lose control.
Preparation for Storage:
• Clean the entire vehicle thoroughly.
• Run the engine for about five minutes to warm the oil, shut it off, and drain the engine oil.

⚠️ WARNING
Motorcycle oil is a toxic substance. Dispose of used oil properly. Contact your local authorities for approved disposal methods or possible recycling.

• Put in fresh engine oil.
• Empty the fuel from the fuel tank by the pump or siphon.
WARNING

Gasoline is extremely flammable and can be explosive under certain conditions. Turn the ignition key to “OFF”. Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light. Gasoline is a toxic substance. Dispose of gasoline properly. Contact your local authorities for approved disposal methods.

- Empty the fuel system by running the engine at idle speed until the engine stalls. (If left in for a long time, the fuel will break down and could clog the fuel system.)
- Reduce tire pressure by about 20%.
- Set the motorcycle on a box or stand so that both wheels are raised off the ground. (If this cannot be done, put boards under the front and rear wheels to keep dampness away from the tire rubber.)
- Spray oil on all unpainted metal surfaces to prevent rusting. Avoid getting oil on rubber parts or in the brakes.
- Lubricate the drive chain and all the cables.
- Remove the battery, and store it where it will not be exposed to direct sunlight, moisture, or freezing temperatures. During storage it should be given a slow charge (one ampere or less) about once a month. Keep the battery well charged especially during cold weather.
- Tie plastic bags over the mufflers to prevent moisture from entering.
STORAGE

• Put a cover over the motorcycle to keep dust and dirt from collecting on it.

Preparation after Storage:
• Remove the plastic bags from the mufflers.
• Install the battery in the motorcycle and charge the battery if necessary.
• Fill the fuel tank with fuel.
• Check all the points listed in the Daily Safety Checks section.
• Lubricate the pivots, bolts, and nuts.
To protect our environment, properly discard used batteries, tires, engine oil, or other vehicle components that you might dispose of in the future. Consult your authorized Kawasaki dealer or local environmental waste agency for their proper disposal procedure.
1. Unleaded Gasoline
2. Brake Fluid (Front)
3. Brake Fluid (Rear)
4. Daily Safety Checks
5. Tire and Load Data
6. Important Drive Chain Information
7. Battery Poison/Danger
132 LOCATION OF LABELS

(1) UNLEADED PETROL ONLY
   NUR BLEIFREIES BENZIN
   ESSENCE SANS PLomb UNIQUEMENT

(2) USE ONLY DOT4 BRAKE FLUID
    FROM A SEALED CONTAINER.
    CLEAN FILLER CAP BEFORE REMOVING.

   WARNING
   N'UTILISER QUE DU FLUIDE
   DE FREIN DOT4.

(3) BRAKE FLUID FROM A SEALED
    CONTAINER.
Kawasaki
DAILY SAFETY CHECKS

- Handlebar not loose
- Clutch lever play correct, releases properly, no slippage
- Headlight works
- Steering turns freely but has no play
- Turn signals work
- No coolant leakage, coolant level between level lines
- Horn works
- No abnormal engine noise
- Engine oil level correct
- Tires in good condition, wear within service limit, air pressure correct

- Rear view mirror adjustment
- Brake lever play correct, fluid up to upper level line, no leakage
- Fuel in tank
- Throttle grip play correct
- Tail/Brake light works
- Turn signals work
- Chain in good condition with proper slack, oil if necessary
- Brake pedal play correct, fluid up to upper level line, no leakage
- No abnormal exhaust noise
LOCATION OF LABELS

TIRE AND LOAD DATA

The steering and handling characteristics of the motorcycle can change over time due to wear and exposure to the elements. If the tires are down, it may be necessary to replace them. The tire load rating should be checked frequently and the tire pressure should be adjusted accordingly.

<table>
<thead>
<tr>
<th>Tire Pressure (psi)</th>
<th>Load &amp; Jake Rating</th>
<th>Tyre Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front</td>
<td>32</td>
<td>180/55 Z60A</td>
</tr>
<tr>
<td>Rear</td>
<td>34</td>
<td>180/55 Z60A</td>
</tr>
</tbody>
</table>

NOTE: The tire load rating should be checked frequently and the tire pressure should be adjusted accordingly.

IMPORTANT DRIVE CHAIN INFORMATION

To prevent sudden chain failure due to the degradation of the motorcycle, the drive chain must be properly maintained. It should be lubricated every 6000km (4000mi) and adjusted as often as necessary to keep the chain slack at about 30–40mm (1.2–1.6in) measured midway between sprockets on the lower chain rail with the motorcycle on the side stand. The standard chain is an (KONA KONA KK) with estimated service life of 15000–45000km (9375–28125mi), depending on the severity of use and the frequency of lubrication and adjustment. For safety, replace the chain with only the standard chain any time it was used to over 3230m (12,500ft), measured over a 25-link portion pulled straight with 88%±10% of tension. See the Owner's Manual for chain information.
## DANGER/POISON

<table>
<thead>
<tr>
<th>Shield Eyes</th>
<th>Explosive Gases Can Cause Blindness or Injury</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Sparks</td>
</tr>
<tr>
<td></td>
<td>Flames</td>
</tr>
<tr>
<td></td>
<td>Smoking</td>
</tr>
<tr>
<td></td>
<td>Sulfuric Acid Can Cause Blindness or Severe Burns</td>
</tr>
</tbody>
</table>

**Flush Eyes Immediately With Water**

**Get Medical Help Fast**

### KEEP OUT OF REACH OF CHILDREN

**In U.S.A.**

**Yuasa Inc.**

**Serviced By:** Reading, PA 19612

---

**Lead**

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**Recycle**

**Pb**
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