



Motorcycle OWNER'S MANUAL

NOTICE

THIS PRODUCT HAS BEEN MANUFACTURED FOR USE IN A REASONABLE AND PRUDENT MANNER BY A QUALIFIED OPERATOR AND AS A VEHICLE ONLY. Whenever you see the symbols shown below, heed their instructions! Always follow safe operating and maintenance practices.

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.

(Australian model only)

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED

Owners are warned that the law may prohibit:

- (a) The removal or rendering inoperative by any person other than for purposes of maintenance, repair or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use; and
- (b) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

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.

This manual should be considered a permanent part of the motorcycle and should remain with the motorcycle when it is sold.

All rights reserved. No part of this publication may be reproduced without our prior written permission.

This publication includes the latest information available at the time of printing. However, there may be minor differences between the actual product and illustrations and text in this manual.

All products are subject to change without prior notice or obligation.

KAWASAKI HEAVY INDUSTRIES, LTD. Consumer Products & Machinery Company

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TABLE OF CONTENTS

SPECIFICATIONS	8
LOCATION OF PARTS	12
LOADING INFORMATION	15
GENERAL INFORMATION	18
Meter Instruments	18
Meter Instruments:	19
Tachometer Gauge:	19
Speedometer :	19
Odometer/Trip Meter AB/Fuel	
Warning Message (ODO/TRIP	
AB):	20
Indicator/Warning Light:	24
Key	25
Ignition Switch/Steering Lock	25
Right Handlebar Switches	27
Engine Stop Switch:	27
Starter Button:	27
Left Handlebar Switches	28
Dimmer Switch:	28
Turn Signal Switch:	28

_

28
29
30
31
31
32
33
34
35
37
39
39
42
45
46
46
48
48
49

SAFE OPERATION	51
Safe Riding Technique	51
Daily Safety Checks	53
Additional Considerations for Off	
Road Operation	55
MAINTENANCE AND ADJUSTMENT	56
Periodic Maintenance Chart	57
Engine Oil	67
Cooling System	72
Spark Plugs	77
Valve Clearance	78
Air Cleaner	79
Throttle Grip	84
Carburetors	87

Clutch	88
Drive Chain	91
Brakes	97
Brake Light Switches	101
Front Fork	103
Rear Shock Absorber	105
Wheels	108
Battery	112
Headlight Beam	117
Fuses	119
Cleaning Your Motorcycle	120
STORAGE	124
ENVIRONMENTAL PROTECTION	127
LABEL INFORMATION	128

8 SPECIFICATIONS

SPECIFICATIONS

PERFORMANCE

Maximum Horsepower	11 kW (15 PS) @8 000 r/min (rpm)
Maximum Torque	17 N·m (1.7 kg·m, 12.5 ft·lb) @3 000 r/min (rpm)
Minimum Turning Radius	2.4 m (94.5 in.)
DIMENSIONS	
Overall Length	2 200 mm (86.62 in.)
Overall Width	820 mm (32.28 in.)
Overall Height	1 205 mm (47.44 in.)
Wheelbase	1 430 mm (56.30 in.)
Road Clearance	285 mm (11.22 in.)
Curb Mass	134 kg (295 lb)
ENGINE	
Туре	DOHC, single-cylinder, 4-stroke, liquid-cooled
Displacement	249 cm³ (15.2 cu in.)
Bore x Stroke	72.0 × 61.2 mm (2.83 × 2.41 in.)

	Compression Ratio	11.0 : 1
	Starting System	Electric starter
	Carburetors	KEIHIN CVK34
	Ignition System	CDI
	Ignition Timing (Electronically advanced)	10° BTDC @1 300 r/min (rpm) ~ 35° BTDC @5 000 r/min (rpm)
	Spark Plugs	NGK CR8E
	Lubrication System	Forced lubrication (wet sump)
	Engine Oil	
	Туре:	API SE, SF or SG
		API SH, SJ or SL with JASO MA
		SAE 10W-40
	Capacity:	1.5 L (1.6 US qt)
	Coolant Capacity	1.3 L (1.4 US qt)
٦	RANSMISSION	
	Transmission Type	6-speed, return shift
	Clutch Type	Wet, multi disc

10 SPECIFICATIONS

Driving System	Chain drive
Primary Reduction Ratio	2.800 (84/30)
Final Reduction Ratio	3.000 (42/14)
Overall Drive Ratio	8.000 (Top gear)
Gear Ratio	
1st	3.000 (30/10)
2nd	2.000 (30/15)
3rd	1.500 (27/18)
4th	1.250 (25/20)
5th	1.050 (21/20)
6th	0.952 (20/21)
FRAME	
Castor	26.5°
Trail	105 mm (3.31 in.)
Tire Size:	
Front	3.00-21 51P
Rear	4.60-18 63P

SPECIFICATIONS 11

Rim Size:

Front	1.60 × 21
Rear	2.15 × 18
Fuel Tank Capacity	7.7 L (2.04 US gal)
ELECTRICAL EQUIPMENT	
Battery	12 V 6 Ah
Headlight	12 V 60/55 W

Headlight	12 0 60/55 0
Tail/Brake Light	12 V 5/21 W

Specifications subject to change without notice, and may not apply to every country.

12 LOCATION OF PARTS

LOCATION OF PARTS



- 1. Clutch Lever
- 2. Meter Instruments
- 3. Brake Fluid Reservoir (Front) 4. Front Brake Lever

- 5. Left Handlebar Switches
- 6. Ignition Switch/Steering Lock 7. Right Handlebar Switches 8. Throttle Grip

LOCATION OF PARTS 13



9. Front Fork 10. Headlight 11. Turn Signal Light 12. Fuel Tank Cap 13. Fuel Tank 14. Choke Knob 15. Fuel Tap

- 16. Rear Shock Absorber
- 17. Tool Kit Bag
- 18. Tool Kit
- 19. Helmet Hook
- 20. Brake Disc
- 21. Brake Caliper
- 22. Radiator

- 23. Horn
- 24. Shift Pedal
- 25. Side Stand
- 26. Side Stand Switch
- 27. Drive Chain
- 28. Coolant Reserve Tank
- 29. Battery

14 LOCATION OF PARTS



- 30. License Plate Light
- 31. Tail/Brake Light
- 32. Muffler
- 33. Seat
- 34. Air Cleaner Element
- 35. Carburetor

- 36. Idle Adjusting Screw 37. Front Brake Light Switch
- 38. Radiator Cap 39. Brake Fluid Reservoir (Rear)
- 40. Rear Brake Light Switch
- 41. Oil Level Gauge 42. Rear Brake Pedal
- 43. Speedometer Cable

LOADING INFORMATION

A WARNING

Incorrect loading, improper installation or use of accessories, or modification of your motorcycle may result in an unsafe riding condition. Before you ride the motorcycle, make sure that the motorcycle is not overloaded and that you have followed these instructions.

With the exception of genuine Kawasaki Parts and Accessories, Kawasaki has no control over the design or application of accessories. In some cases, improper installation or use of accessories, or motorcycle modification, will void the motorcycle warranty. In selecting and using accessories, and in loading the motorcycle, you are personally responsible for your own safety and the safety of other persons involved.

NOTE

O Kawasaki Parts and Accessories have been specially designed for use on Kawasaki motorcycles. We strongly recommend that all parts and accessories you add to your motorcycle be genuine Kawasaki components.

Because a motorcycle is sensitive to changes in weight and aerodynamic forces, you must take extreme care in carrying cargo, passengers and/or in the fitting of additional accessories.

16 LOADING INFORMATION

The following general guidelines have been prepared to assist you in making your determinations.

- Any passenger should be thoroughly familiar with motorcycle operation. The passenger can affect control of the motorcycle by improper positioning during cornering and sudden movements. It is important that the passenger sit still while the motorcycle is in motion and not interfere with the operation of the motorcycle. Do not carry animals on your motorcycle.
- You should instruct any passenger before riding to keep his feet on the passenger footpegs and hold on to the operator, seat strap or grab rail. Do not carry a passenger unless he or she is tall enough to reach the footpegs and footpegs are provided.

- All baggage should be carried as low as possible to reduce the effect on the motorcycle center of gravity. Baggage weight should also be distributed equally on both sides of the motorcycle. Avoid carrying baggage that extends beyond the rear of the motorcycle.
- 4. Baggage should be securely attached. Make sure that the baggage will not move around while you are riding. Recheck baggage security as often as possible (not while the motorcycle is in motion) and adjust as necessary.
- 5. Do not carry heavy or bulky items on a luggage rack. They are designed for light items, and overloading can affect handling due to changes in weight distribution and aerodynamic forces.

- 6. Do not install accessories or carry baggage that impairs the performance of the motorcycle. Make sure that you have not adversely affected any lighting components, road clearance, banking capability (i.e., lean angle), control operation, wheel travel, front fork movement, or any other aspect of the motorcycle's operation.
- Weight attached to the handlebar or front fork will increase the mass of the steering assembly and can result in an unsafe riding condition.
- 8. Fairings, windshields, backrests, and other large items have the capability of adversely affecting stability and handling of the motorcycle, not only because of their weight, but also due to the aerodynamic forces acting on these surfaces while the motorcycle is in operation. Poorly

designed or installed items can result in an unsafe riding condition.

9. This motorcycle was not intended to be equipped with a sidecar or to be used to tow any trailer or other vehicle. Kawasaki does not manufacture sidecars or trailers for motorcycles and cannot predict the effects of such accessories on handling or stability, but can only warn that the effects can be adverse and that Kawasaki cannot assume responsibility for the results of such unintended use of the motorcycle. Furthermore, any adverse effects on motorcycle components caused by the use of such accessories will not be remedied under warranty.

Maximum Load

Weight of rider, passenger, baggage, and accessories must not exceed 181 kg (399 lb).

GENERAL INFORMATION

Meter Instruments

- A. MODE Button
- **B. RESET Button**
- C. Tachometer Gauge
- D. Odometer/Trip Meter AB/Fuel Warning Message
- E. Speedometer
- F. Clock
- G. Coolant Temperature Warning Light
- H. High Beam Indicator Light
- I. Neutral Indicator Light
- J. Turn Signal Indicator Light
- K. Red Zone



Meter Instruments:

The meter displays all segments for a few seconds when the ignition key is turned to "ON". The tachometer momentarily goes from the minimum to the maximum, then goes back from the maximum to the minimum reading to check its operation. If any meter instruments or tachometer does not operate or display correctly, have it checked by an authorized Kawasaki dealer.

Tachometer Gauge:

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.

NOTE

○ This motorcycle is equipped with the engine speed limitter to prevent the excesive high engine speed. When operating this limitter, the segments of the tachometer indicate the different engine speed and stops at about 5000 r/min (rpm) for the ignition control, but this operation is not a failure.

CAUTION

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.

Speedometer :

The speedometer shows the speed of the vehicle in digital values.

Odometer/Trip Meter AB/Fuel Warning Message (ODO/TRIP AB):

This meter displays the odometer, the trip meter AB, and the fuel warning message.

The odometer and the trip meter AB can be shifted pushing the MODE button.



- A. Odometer
- B. Trip meter A
- C. Trip meter B
- **D. MODE Button**

NOTE

• Do not shift the odometer/trip meter while riding for safe operation.

Odometer -

The odometer shows the total distance in kilometers or miles that 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 Meters A/B -

The trip meter shows the distance in kilometers or miles traveled since it was last reset to zero.

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 second, 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 reaches 999.9 (TRIP A) or 9999.9 (TRIP B) while riding, the meter resets to 0.0 and continues counting.
- When the battery is disconnected, the meter display resets to 0.0.

Mile/Km Display:

Mile/Km Display can alternate between English and metric modes (mph and km/h) in the meter unit. Make sure that km/h or mph according to local regulations is correctly displayed before riding.

NOTE

- Do not operate the vehicle with the meter unit displaying in the wrong unit (km/h or mph). Shift the km/h·mph display in the meter unit as follows.
- Display the odometer.
- The km/h·mph display shifts by pushing the RESET button while the MODE button pushed in.



A. Km/h·Mph Display

• The km/h/mph display shifts as follows.



- A. Km/h
- B. Mph

C. Push RESET Button with MODE Button in

NOTE

 The data is maintained even if the battery is disconnected.

Clock:

To adjust hours and minutes:

- Turn the ignition key to "ON".
- Push the RESET button for more than two seconds. Both the hour and minute displays start flashing.



• 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 advances 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.

Indicator/Warning Light:

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

 \Leftrightarrow : When the turn signal switch is turned to left or right, the turn signal indicator light flashes on and off.

 ${\rm I\!D}$: When the headlight is on high beam, the high beam indicator light is lit.

The coolant temperature warning light goes on when the ignition key is turned to "ON" and goes off soon after ensuring that its circuit function properly. The warning light also goes on whenever the coolant temperature rises too high when the motorcycle is in operation. If it stays 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 goes on. Prolonged engine operation will result in severe damage from overheating.

Key

This motorcycle has a combination key, which is used for the ignition switch/steering lock, helmet hook, 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 three-position, key-operated switch. The key can be removed from the switch when it is in the OFF or LOCK position.



- A. Ignition Switch/Steering Lock
- **B. ON position**
- C. OFF position
- **D. LOCK** position

ON	Engine on. All electrical equipment can be used.
OFF	Engine off. All electrical circuits off.
LOCK	Steering locked. Engine off. All electrical circuits off.

NOTE

○ The headlight and taillight are on whenever the ignition key is in the ON position. To avoid battery discharge, always start the engine immediately after turning the ignition key to "ON".

To lock the steering:

1. Turn the handlebar fully to the left.

- 2. For locking, push down the key in the OFF position and turn it to Lock position.
- 3. Pull the key out.

NOTE

O If the steering is hard to lock, turn the handlebar slightly to the left or the right.

Right Handlebar Switches Engine Stop Switch:

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

The engine stop switch is for emergency use. If some emergency requires stopping the engine, push the engine stop switch to the \bowtie position.

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......(⊉⊃)



- A. Dimmer Switch
- **B. Turn Signal Switch**
- C. Horn Button

Turn Signal Switch:

When the turn signal switch is turned to the left ⇔ or right ⇔ , the corresponding turn signals flash on and off. To stop flashing, push the switch in.

Horn Button:

When the horn button is pushed, the horn sounds.

Fuel Tank Cap

To open the fuel tank cap, insert the ignition key into the fuel tank cap, 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.



A. Ignition Key B. Fuel Tank Cap

NOTE

- The fuel tank cap cannot be closed without the key inserted, and the key cannot be removed unless the cap is locked properly.
- Do not push on the key to close the cap, or the cap cannot be locked.

Fuel Tank

The following octane rating gasoline is recommended in the 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.

Fuel Requirement:

Your Kawasaki engine is designed to use only unleaded gasoline with a minimum octane rating of RON 91.

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.

Fuel Tap

The fuel tap has three positions: OFF, ON, and RES (reserve). For nomal operation, turn the tap lever to the ON position. If the fuel runs out with the tap in the ON position, the last 1.9 L (0.50 US gal) of fuel can be used by turning the fuel tap lever to RES.



- A. Fuel Tap B. ON position
- B. ON position
- C. OFF position
- D. RES position

NOTE

- Since riding distance is limited when on RES, refuel at the earliest opportunity.
- Make certain that the fuel tap lever is turned to ON (Not RES) after filling up the fuel tank.

A WARNING

Practice operating the fuel tap with the motorcycle stopped. To prevent an accident you should be able to operate the fuel tap while riding without taking your eyes off the road.

Be careful not to touch the hot engine while operating the fuel tap.

Stand

The motorcycle is equipped with a side stand.



A. Side Stand

NOTE

○ When using the side stand, turn the handlebar to the left.

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 dose not start if the transmission is in gear and the side stand is left down.

Helmet Hook

Helmet can be secured to the motorcycle using the helmet hook.

The helmet hook can be unlocked by inserting the ignition key into the lock, and turning the key to the right.



A. Helmet Hook

🛦 WARNING

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

Tool Kit Bag/Tool Kit

The tool kit is stored in the tool kit bag.

The kit contains tools that can be helpful in making roadside repairs, adjustments, and some maintenance procedures explained in this manual.



A. Tool Kit B. Tool Kit Bag
GENERAL INFORMATION 35

Seat

Seat Removal

• Remove the mounting bolts.



A. Seat B. Mounting Bolts

• Remove the seat band and pull the seat up and to the rear.



- A. Bolt B. Seat
- C. Tandem Band

Seat Installation

- Align the front hook with the front receiver and slide the seat forward.
- Slide the seat forward so that the center hook and the center receiver engages.

36 GENERAL INFORMATION



- A. Seat
- **B. Front Hook**
- **C. Front Receiver**
- **D. Center Hook**
- E. Center Receiver

- Tighten the tandem band bolts.
- Pull up the rear end of the seat to make sure it is securely tightened.
- Reinstall the parts removed.

BREAK-IN

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.

Distance traveled	Maximum engine speed
0 ~ 800 km (0 ~ 500 mi)	4 000 r/min (rpm)
800 ~ 1 600 km (500 ~ 1 000 mi)	6 000 r/min (rpm)

- 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.

38 BREAK-IN

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.

HOW TO RIDE THE MOTORCYCLE 39

Starting the Engine

• Turn the fuel tap lever to "ON".



A. Fuel Tap B. ON position • Check that the engine stop switch is in the \circ position.



A. Engine Stop Switch B. Starter Button

40 HOW TO RIDE THE MOTORCYCLE

- Turn the ignition key to "ON".
- Make certain the transmission is in neutral.



- A. Neutral Indicator Light B. Ignition Switch
- C. ON position

• If the engine is cold, pull out the choke knob all the way.



A. Choke Knob

NOTE

○ When the engine is already warm or on hot days (35°C, 95°F or more), close the throttle completely without using the choke knob, and then start the engine. • Leaving the throttle completely closed, push the starter button.

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.

NOTE

- If the engine is flooded, crank the engine over with the throttle fully open until the engine starts.
- 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

HOW TO RIDE THE MOTORCYCLE 41

the side stand is down. However, the engine can be started if the clutch lever is pulled and the side stand is fully up.



A. Clutch Lever

- B. Starter Lockout Switch
- When the engine is warmed up enough to idle without using the push, return the choke knob all the way back.

42 HOW TO RIDE THE MOTORCYCLE

NOTE

 If you drive the motorcycle before the engine is warmed up, push the choke knob all the way back as soon as you start moving.

CAUTION

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

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 left side cover.
- Make sure the ignition switch is turned "OFF".

HOW TO RIDE THE MOTORCYCLE 43

• 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. Unpainted Metal Surface
- D. From Booster Battery Negative (–) Terminal

44 HOW TO RIDE THE MOTORCYCLE

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

Do not make this last connection at the carburetor 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.



HOW TO RIDE THE MOTORCYCLE 45

NOTE

O 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.

A. Shift Pedal

46 HOW TO RIDE THE MOTORCYCLE

Shifting Gears

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

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. Downshifting should be done below 5 000 r/min (rpm) for each gear.

• Open the throttle part way, while releasing the clutch lever.

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.



A. Front Brake Lever

HOW TO RIDE THE MOTORCYCLE 47



A. Rear Brake Pedal

48 HOW TO RIDE THE MOTORCYCLE

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.
- Turn the fuel tap lever to the OFF position.

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 carburetor and stack the throttle open.
- 2. During removal of the air cleaner, dirt is allowed to enter and jam the carburetor.

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.

CAUTION

Do not park on a soft or steeply inclined surface, or the motorcycle may fall over.

• 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.

50 HOW TO RIDE THE MOTORCYCLE

The muffler and exhaust pipe are very hot while the engine is running and just after the engine stops. 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.

Gasoline is extremely flammable and can be explosive under certain conditions.

- Lock the steering to help prevent theft.
- Turn the fuel tap lever to the OFF position.

SAFE OPERATION

Safe Riding Technique

The points given below are applicable for everyday motorcycle use and should be carefully observed for safe and effective vehicle operation.

For safety, eye protection and a helmet are strongly recommended. Gloves and suitable footwear should also be used for added protection in case of a mishap.

A motorcycle does not provide the impact protection of an automobile, so defensive riding in addition to wearing protective apparel is extremely important. Do not let protective apparel give you a false sense of security. Before changing lanes, look over your shoulder to make sure the way is clear. Do not rely solely on the rear view mirror; you may misjudge a vehicle's distance and speed, or you may not see it at all.

When going up steep slopes, shift to a lower gear so that there is plenty of power to spare rather than overloading the engine.

When applying the brakes, use both the front and rear brakes. Applying only one brake for sudden

52 SAFE OPERATION

braking may cause the motorcycle to skid and lose control.

When going down long slopes, control vehicle speed by closing the throttle. Use the front and rear brakes for auxiliary braking.

On rainy days, rely more on the throttle to control vehicle speed and less on the front and rear brakes. The throttle should also be used judiciously to avoid skidding the rear wheel from too rapid acceleration or deceleration.

Riding at the proper rate of speed and avoiding unnecessarily fast acceleration are important not only for safety and low fuel consumption but also for long vehicle life and quieter operation. When riding in wet conditions or on loose roadway surfaces, the ability to maneuver will be reduced. All of your actions should be smooth under these conditions. Sudden acceleration, braking or turning may cause loss of control.

On rough roads, exercise caution, slow down, and grip the fuel tank with the knees for better stability.

When quick acceleration is necessary as in passing, shift to a lower gear to obtain the necessary power.

Do not downshift at too high an r/min (rpm) to avoid damage to the engine from overrevving.

Avoiding unnecessary weaving is important to the safety of both the rider and other motorists.

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.

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.
	Oil level between level lines.
Tires	Air pressure (when cold):

Front		150 kPa (1.50 kg/cm², 22 psi)
Rear	Up to 97.5 kg (215 lb) Load	150 kPa (1.50 kg/cm², 22 psi)
	97.5 ~ 181 kg (215 ~ 399 lb) Load	175 kPa (1.75 kg/cm², 25 psi)

Install the air valve cap.

54 SAFE OPERATION

Drive chain	Slack 35 ~ 45 mm (1.4 ~ 1.8 in.). Lubricate 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 $2 \sim 3 \text{ mm} (0.08 \sim 0.12 \text{ in.}).$
Clutch	Clutch lever play 2 ~ 3 mm (0.08 ~ 0.12 in.).
	Clutch lever operates smoothly.
Coolant	
	Coolant level between level lines (when engine is cold).
Electrical equipment	All lights (Head, Tail/Brake, Turn Signal, Warning/Indica-
	tor) and horn work.
Engine stop switch	
Side stands	Return to its fully up position by spring tension.
	Return springs not weak or not damaged.

Refer to the "Daily Safety Checks" caution label attached to the back of the left side cover.

Additional Considerations for Off Road Operation

Brakes: The importance of reliable brakes is obvious. 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: Due to the extra stress to the tires on rough roads, be sure to examine their overall condition, and inflate to the proper pressure.

Drive Chain: When not adjusted properly, the severe stress on rough roads can cause damage to the sprockets and cause the chain to be thrown. Examine the chain slack and alignment, and lubricate if necessary.

Fuel: Have sufficient fuel for the high fuel consumption on rough roads.

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

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

Miscellaneous: Check to see that the electrical equipment is functioning properly, all nuts and bolts are tight, and all safety related parts are in good condition.

56 MAINTENANCE AND ADJUSTMENT MAINTENANCE AND ADJUSTMENT

The maintenance and adjustments outlined in this chapter must be carried out 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 adjustment, 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

- K: Should be serviced by an authorized Kawasaki dealer.
- *: For higher odometer readings, repeat at the frequency interval established here.
- †: Replace, add, adjust, or torque if necessary.
- #: Service more frequently when operating in severe conditions: dusty, wet, muddy, high speed, or frequent starting/stopping.

1. Periodic Inspection (Engine Related Items)

Frequency	Whichevel comes first ↓	r →	ding 000)	See Page					
Operation (Engine Items)	Every	1 (0.6)	6 (4)	12 (7.5)	18 (12)	24 (15)	30 (20)	36 (24)	
Air cleaner element - clean				•		•		•	79
K Valve clearance - inspect				•		٠		٠	78
Throttle control system (play, smooth return, no drag) - inspect	year	٠		•		٠		٠	84

	Frequency	Whichever comes first	r •	See Page						
	Operation (Engine Items)	Every	1 (0.6)	6 (4)	12 (7.5)	18 (12)	24 (15)	30 (20)	36 (24)	
	Idle speed - inspect		•		•		•		•	87
κ	Fuel leak (fuel hose and pipe) - inspect	year	•		•		•		•	_
κ	Fuel hoses damage - inspect	year	•		•		•		•	-
κ	Fuel hoses installation condition - inspect	year	•		•		•		•	_
	Coolant level - inspect		•		•		•		•	75
	Coolant leak - inspect	year	•		•		•		•	73
	Radiator hose damage - inspect	year	•		•		•		•	73

Frequency	Whichever comes first ₽								
Operation (Engine Items)	Every	1 (0.6)	6 (4)	12 (7.5)	18 (12)	24 (15)	30 (20)	36 (24)	
Radiator hoses installation condition - inspect	year	•		٠		٠		•	73
Liquid cooled carburetor coolant filter - cleaning		year (before winter)							

2. Periodic Inspection (Chassis Related Items)

Frequency	Whichever comes first km × 1000 (mile × 1000)									
Operation (Chassis Items)	Every	1 (0.6)	6 (4)	12 (7.5)	18 (12)	24 (15)	30 (20)	36 (24)		
Clutch and drive train:										
Clutch operation (play, engagement, disengagement) - inspect		•		•		•		•	88	
Drive chain lubrication condition - inspect #		ever	y 600) km (400 n	nile)		•	96	
Drive chain slack - inspect #		every	1 00)0 km	(600	mile)			91	
Drive chain wear - inspect #				•		٠		•	94	
κ Drive chain guide wear - inspect				•		•		•	-	
Wheels and tires:										
Tire air pressure - inspect	year			•		•		•	108	

Frequency	Whicheve comes first ↓	er	*Odometer Reading km × 1000 (mile × 1000)							
Operation (Chassis Items)	Every	1 (0.6)	6 (4)	12 (7.5)	18 (12)	24 (15)	30 (20)	36 (24)		
Wheels/tires damage - inspect				•		٠		•	109	
Tire tread wear, abnormal wear - inspect				•		•		•	109	
K Wheel bearings damage - inspect	year			•		•		•	-	
K Spoke tightness and rim runout - inspect		•	٠	•	•	•	•	•	-	
Brake system:										
Brake fluid leak - inspect	year	•	•	•	•	•	•	•	98	
Brake hoses damage - inspect	year	•	•	•	•	•	•	•	98	
Brake pad wear - inspect #			•	•	•	•	•	•	97	

Frequency	Whicheve comes first	er	 *Odometer Reading ★ km × 1000 (mile × 1000) 								
Operation (Chassis Items)	Every	1 (0.6)	6 (4)	12 (7.5)	18 (12)	24 (15)	30 (20)	36 (24)			
Brake hose installation condition - inspect	year	•	•	•	•	•	•	•	98		
Brake fluid level - inspect	6 month	•	•	•	•	٠	•	•	98		
Brake operation (effectiveness, play, drag) - inspect	year	•	•	•	•	•	•	•	100		
Brake light switch operation - inspect		•	•	•	•	•	•	•	101		
Suspensions:											
Front forks/rear shock absorber operation (damping and smooth stroke) - inspect				•		•		•	103/105		
Front forks/rear shock absorber oil leak - inspect	year			•		•		•	103/105		

Frequency	Whicheve comes first	er	er ★ *Odometer Reading km × 1000 (mile × 1000)								
Operation (Chassis Items)	Every	1 (0.6)	6 (4)	12 (7.5)	18 (12)	24 (15)	30 (20)	36 (24)			
K Uni-trak rocker arm bearings - lubricate						•			-		
K Uni-trak rocker arm operation - inspect				•		•		•	-		
K Uni-trak tie rods operation - inspect				•		•		•	-		
K Uni-trak tie rods bearings - lubricate						•			-		
K Swing arm pivot - lubricate						•			-		
Steering system:											
K Steering play - inspect	year	•		•		•		•	-		
K Steering stem bearings - lubricate	2 years					•			-		

Frequency	Whicheve comes first	er	*Odometer Reading km × 1000 (mile × 1000)								
Operation (Chassis Items)	Every	1 (0.6)	6 (4)	12 (7.5)	18 (12)	24 (15)	30 (20)	36 (24)			
Electrical system:											
Lights and switches operation - inspect	year			•		٠		•	_		
Headlight aiming - inspect	year			•		•		•	117		
Side stand switch operation - inspect	year			•		•		•	-		
Engine stop switch operation - inspect	year			•		•		•	-		
Chassis:											
K Chassis parts - lubricate	year			•		•		•	-		
κ Bolts and nuts tightness - inspect		•		•		•		•	_		

3. Periodic Replacement

Frequency	Whichever comes first ↓	*Odometer Reading km × 1000 (mile × 1000)					See Page
Change/Replacement Item	Every	1 (0.6)	12 (7.5)	24 (15)	36 (24)	48 (30)	
Air cleaner element #	2 year						79
Engine oil #	year	•	•	•	•	•	68
Oil filter	year	•	•	•	•	•	68
K Fuel hoses	4 years					•	-
K Coolant	3 years				•		76
K Radiator hoses and O-rings	3 years				•		-
K Brake hoses	4 years					•	-
K Brake fluid (front and rear)	2 years			•		•	100

Frequency	Whichever comes first ↓	•	See Page				
Change/Replacement Item	Every	1 (0.6)	12 (7.5)	24 (15)	36 (24)	48 (30)	
K Rubber parts of master cylinder and caliper	4 years					٠	-
Spark plug			•	٠	•	•	77

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 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.

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

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

MAINTENANCE AND ADJUSTMENT 67

• 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.

CAUTION

Racing the engine before the oil reaches every part can cause engine seizure.

- 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 in the lower right side of the engine. 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 same 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.



- A. Oil Level Gauge
- **B. Upper Level Line**
- C. Lower Level Line

Oil and/or Oil Filter Change

- Warm up the engine thoroughly, and then stop it.
- Set the motorcycle up on its side stand.
- Place an oil pan beneath the engine.
- Remove the engine oil drain plug.



A. Drain Plug

• Let the oil completely drain with the motorcycle perpendicular to the ground.

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

MAINTENANCE AND ADJUSTMENT 69

• If the oil filter is to be changed, remove the oil filter cover bolts and take off the cover with O-ring.



A. Bolts B. Oil Filter Cover

• Replace the element with a new one.



- A. Element B. Grommet
- Apply a little grease around the element fence hole against the grommet side, and put the spring on the element fence hole.
- Install the element with the spring so that the spring fits into the proper position.

• Apply a little engine oil to the grommet, and install the oil filter cover and tighten its bolts.

NOTE

 Install the oil filter cover while aligning the holes of the cover.



A. Holes

• After the oil has completely drained out, install the engine oil drain plug
with its gasket. Proper torque for it is shown in the table.

NOTE

- Replace the any gasket with a new one.
- Fill the engine up to the upper level line with a good quality motor oil specified in the table.
- Start the engine.
- Check the oil level and for oil leakage.

Tightening Torque

Engine Oil Drain Plug:

15 N·m (1.5 kgf·m, 11 ft·lb)

NOTE

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

Recommended Engine Oil

Туре:	API SE, SF or SG
	API SH, SJ or SL with JASO MA
Viscosity:	SAE 10W-40

Engine Oil Capacity

Capacity: 1.3 L (1.4 US qt) [when filter is not removed] 1.4 L (1.5 US qt) [when filter is removed] 1.5 L (1.6 US qt) [when engine is completely dry]

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.

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.

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.

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°C (-31°F).

Coolant Level Inspection

 Check the coolant level with the motorcycle held level. The coolant level

MAINTENANCE AND ADJUSTMENT 75

should be between the F(FULL) and L(LOW) level lines.

NOTE

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



A. Reserve Tank B. F(FULL) Level Line C. L(LOW) Level Line D. Tank Cap E. Left Side Cover

- If the amount of coolant is insufficient, after removing the left side cover, unscrew the cap from the reserve tank and add coolant through the filler opening to the F(FULL) level line.
- Install the cap.

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.

Coolant Filter Clean

Before the winter season starts, have the coolant filter cleaned by an authorized Kawasaki dealer.

Spark Plugs

The standard spark plug is shown in the table. The spark plug should be taken out in accordance with the Periodic Maintenance Chart for cleaning, inspection, and resetting of the plug gap.

Maintenance

If the plug is oily or has carbon built up on it, have it cleaned, preferably in a sand-blasting device, and then clean off any abrasive particles. The plug may also be cleaned using a high flash -point solvent and a wire brush or other suitable tool. Measure the gap with a wire-type thickness gauge, and adjust the gap if incorrect by bending the outer electrode. If the spark plug electrodes are corroded or damaged, or if the insulator is cracked, replace the plug. Use the standard plug.

Spark Plug

	· · ·		
	Standard Plug	NGK CR8E, ND U24ESR-N	
	Plug Gap	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)	
	Tightening Torque	13 N·m (1.3 kgf·m, 115 in·lb)	





NOTE

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

CAUTION

For cold weather and/or low speed riding, a hotter spark plug shown in the table may be used for quicker warm-ups and more efficient engine operation. However, for normal temperatures and/or high speed use, the standard spark plug must be used to prevent engine damage.

Hotter Spark Plug

NGK CR7E

Valve Clearance

Valve and valve seat wear decreases valve clearance, upsetting valve timing.

CAUTION

If valve clearance is left unadjusted, 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.

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 must be cleaned in accordance with the Periodic Maintenance Chart. In dusty areas, the element should be cleaned more frequently than the recommended interval. After riding through rain or on muddy roads, the element should be cleaned immediately. The element should be replaced if it is damaged.

MAINTENANCE AND ADJUSTMENT 79

Element Removal

- Remove the seat.
- Unscrew the air cleaner intake cap bolts and remove the air cleaner intake cap.



A. Air Cleaner Intake Cap B. Bolts

• Remove the wing bolt, and take out the element.



- A. Element
- **B. Wing Bolt**

• Remove the element from the frame.



- A. Element
- Put a clean, lint-free towel over the air cleaner housing to keep dirt or other foreign material from entering.
- Inspect the element material for damage. If any part of the element is damaged, the element must be replaced.

🛕 WARNING

If dirt or dust is allowed to pass through into the carburetor, the throttle may become stuck, possibly causing accident.

CAUTION

If dirt gets through into the engine, excessive engine wear and possibly engine damage will occur.

MAINTENANCE AND ADJUSTMENT 81

NOTE

- Element installation is performed in the reverse order of removal.
- O When installing the element, coat the lip of the element with a thick layer of all purpose grease to assure a complete seal against the air cleaner element base. Also, coat the base where the lip of the element fits.



A. Grease

Element Cleaning

• Clean the element in a bath of a high flash-point solvent.



- Dry the element with compressed air or by squeeze it.
- After cleaning, saturate the element with engine oil or high-quality foam -air-filter oil, squeeze out the excess oil, then wrap it in a clean rag and squeeze it as dry as possible. Be careful not to tear the element.



🛕 WARNING

Clean the element in a well ventilated area, and take care that there are no sparks or flame anywhere near the working area; this includes any appliance with a pilot light. Do not use gasoline or a low flash-point solvent to clean the element. A fire or explosion could result.

Oil Draining

• If there is any oil in the reservoir, remove the plug from the lower end of the drain hose and drain the oil.

WARNING

Be sure to install the plug in the drain hose after draining. Oil on tires will make them slippery and can cause an accident any injury.

MAINTENANCE AND ADJUSTMENT 83

• Inspect the transparent reservoir located under the rear shock absorber to see if any oil has run down from the air cleaner housing.



- A. Reservoir
- **B. Drain Hose**
- C. Plug

Throttle Grip

The throttle grip controls the throttle valves. 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 valves may not open fully at full throttle. On the other hand, if the throttle grip has no play, the throttle will be hard to control, and the idle speed will be erratic. Check the throttle grip play in accordance with the Periodic Maintenance Chart, and adjust the play if necessary.

Inspection

- Check that there is $2 \sim 3 \text{ mm} (0.08 \sim 0.12 \text{ in.})$ throttle grip play when lightly turning the throttle grip back and forth.
- If there is improper play, adjust it.



A. Throttle Grip B. 2 ~ 3 mm (0.08 ~ 0.12 in.)

Adjustment

• Loosen the locknut at the throttle grip, and turn the adjuster until the proper amount of throttle grip play is obtained.



- A. Locknut
- B. Adjuster
- C. Throttle Cable (Accelerator Cable)
- Tighten the locknut.

MAINTENANCE AND ADJUSTMENT 85

- If the throttle cable can not be adjusted with the adjuster at the throttle grip, use the nuts located at the carburetor.
- Loosen the locknut at the throttle grip and turn in the adjuster fully.
- Tighten the locknut.
- Loosen the nuts at the carburetor, and screw both throttle cable nuts fully so as to give the throttle grip plenty of play.
- Turn the decelerator cable nut until there is no play when the throttle grip is completely closed. Tighten the nut.
- Turn the accelerator cable nut until 2
 - ~ 3 mm (0.08 ~ 0.12 in.) of throttle grip play is obtained. Tighten the nut.



to correct any of these conditions before riding.

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

- A. Nuts
- **B. Decelerator Cable**
- C. Accelerator Cable
- With the engine idling, turn the handlebar to each side. If handlebar movement changes the idle speed, the throttle cables may be improperly adjusted or in correctly routed, or they may be damaged. Be sure

Carburetors

The following procedure covers the idle speed adjustment, which should be performed in accordance with the Periodic Maintenance Chart or whenever idle speed disturbed.

MAINTENANCE AND ADJUSTMENT 87

Adjustment

- Start the engine, and warm it up thoroughly.
- Adjust the idle speed to 1 250 ~ 1 350 r/min (rpm) by turning the idle adjusting screw.



A. Idle Adjusting Screw

• Open and close the throttle a few times to make sure that the idle speed does not change. Readjust if necessary.

 With the engine idling, turn the handlebar to each side. If handlebar movement changes the idle speed, the throttle cables may be improperly adjusted or incorrectly routed, or they may be damaged. Be sure to correct any of these conditions before riding.

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

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.

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.
- Side the dust cover.
- Check the clutch lever play as shown in the figure.

Clutch Lever Play

2 ~ 3 mm (0.08 ~ 0.12 in.)



- A. Clutch Lever
- B. Clutch Lever Play
- C. Locknut
- D. Adjuster
- E. Dust Cover

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

MAINTENANCE AND ADJUSTMENT 89

Adjustment

- Slide the dust cover at the clutch lever out of place.
- Loosen the locknut at the clutch lever.
- Turn the adjuster so that the clutch lever will have the proper play.

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.

- Tighten the locknut.
- If it cannot be done at the clutch lever, use the adjusting nut at the middle of the cable.

- Loosen the locknut at the clutch lever.
- Turn the adjuster in all the way, then tighten the locknut.
- Loosen the locknut at the middle of the cable, and turn the adjusting nut so that the clutch lever has 2 ~ 3 mm (0.08 ~ 0.12 in.) of play.



A. Adjusting Nut B. Locknut

- Tighten the locknut.
- Slide the dust cover back into place.

NOTE

○ After the adjustment is made, start the engine and check that the clutch does not slip and that it releases properly.

Do not run the engine in a closed area. Exhaust gases contain carbon monoxide; a colorless, odorless, poisonous gas. Breathing exhaust gas leads to carbon monoxide poisoning, asphyxiation, and death.

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.

MAINTENANCE AND ADJUSTMENT 91

- 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.
- Measure the space between the chain and the swingarm upper surface at the rear of the chain slipper. It should be $35 \sim 45$ mm (1.4 ~ 1.8 in.)



A. 35 ~ 45 mm (1.4 ~ 1.8 in.)

 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 35 ~ 45 mm (1.4 ~ 1.8 in.)

Chain Slack Adjustment

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



- A. Axle Nut
- B. Cotter Pin
- C. Indicator
- D. Locknut
- Turn in the left and right chain adjusters evenly to obtain the standard chain slack. To keep the chain and wheel properly aligned, the notch on the right wheel alignment indicator should align with the same swingarm mark that the left indicator notch align with.



- A. Marks
- B. Notch
- C. Axle Nut
- D. Adjuster
- E. Locknut

NOTE

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

MAINTENANCE AND ADJUSTMENT 93

🛦 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 axle nut to the specified torque.

Tightening Torque

Axle Nut: 110 N·m (11.0 kgf·m, 80 ft·lb)

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.

- Insert a new cotter pin through the axle, and spread its ends.
- Check the rear brake (see the Brakes section).

A WARNING

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

Wear Inspection

• 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.



A. Measure B. Weight

Drive Chain 20-Link Length

Service Limit: 323 mm (12.7 in.)

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.

MAINTENANCE AND ADJUSTMENT 95

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 described 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.



A. Lining Thickness B. 1 mm (0.04 in.)

MAINTENANCE AND ADJUSTMENT 97

Disc Brake Fluid -

In accordance with the Periodic Maintenance Chart, inspect the brake fluid level in both the front and rear brake fluid reservoir 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 DOT3 or 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 for brake hose 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 must be kept between the upper and lower level lines (reservoirs held horizontal).



A. Front Brake Fluid Reservoir B. Lower Level Line



- A. Rear Brake Fluid Reservoir
- **B. Upper Level Line**
- C. Lower Level Line
- D. Cap

• If the fluid level in ether 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 reservoir is a stepped line showing the upper level line.



A. Front Brake Fluid Reservoir B. Upper Level Line

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.

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 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.

MAINTENANCE AND ADJUSTMENT 101

• Check the operation of the rear brake light switch by depressing the brake pedal. The brake light should go on after about 10 mm (0.4 in.) of pedal travel.



- A. Brake Pedal B. 10 mm (0.4 in.)
- If it does not, adjust the rear brake light switch.

Adjustment

• To adjust the rear brake light switch, move the switch up or down by turning the adjusting nut.



- A. Rear Brake Light Switch
- B. Adjusting Nut
- C. Lights sooner
- D. Lights later

CAUTION

To avoid damaging the electrical connections inside the switch, be sure that the switch body does not turn during adjustment.

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.

MAINTENANCE AND ADJUSTMENT 103

• If any doubt about the front fork, it should be done by an authorized Kawasaki dealer.



A. Inner Tube

Air Pressure

The standard air pressure in the front fork legs is atmospheric pressure. The air pressure in the fork legs increases as the fork heats up, so the fork action will get stiffer as the vehicle operation progresses.

Compression Damping Adjustment

- Using the jack under the frame, stabilize the motorcycle.
- Place a stand or block under the engine so that the front wheel is raised off the ground.
- Clean the bottom of the outer tubes.
- To adjust compression damping, turn the adjuster on the front fork cylinder valve with the blade of a screwdriver until you feel a click. Adjust the compression damping to suit your preference under special condition.



A. Adjuster

CAUTION

The left and right fork legs must have the same shock damping.

The standard setting position of the compression damping force adjuster, for an average build rider of 68 kg (150 lb) with no passenger and no accessories is as follows.

* out from the fully seated position

MAINTENANCE AND ADJUSTMENT 105

Rear Shock Absorber

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

Rebound Damping Adjustment

To adjust shock rebound damping, turn the rebound damping adjuster on the rear shock absorber lower end with the blade of a screwdriver until you feel a click.



A. Rebound Damping Adjuster B. Mark
Compression Damping Adjustment

To adjust compression damping, turn the compression damping adjuster on the gas reservoir with the blade of a screwdriver until you fell a click.

Rebound Damping Force Adjuster	12 turns out*	
Compression Damping Force Adjuster	16 turns out*	

* out from the fully seated position

MAINTENANCE AND ADJUSTMENT 107



A. Compression Damping Adjuster B. Mark

Spring Preload Adjustment

The rear shock absorber can be adjusted by changing the spring preload for various riding and loading conditions. If the spring action feels too soft or too stiff, have it adjusted by an authorized Kawasaki dealer.

Wheels

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 181 kg (399 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 installed.



A. Tire Pressure Gauge

NOTE

- O 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).
- O 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)

Front		150 kPa (1.50 kg/cm², 22 psi)
Rear	Up to 97.5 kg (215 lb) Load	150 kPa (1.50 kg/cm², 22 psi)
	97.5 ~ 181 kg (215 ~ 399 lb) Load	175 kPa (1.75 kg/cm², 25 psi)

MAINTENANCE AND ADJUSTMENT 109

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.



A. Tire Depth Gauge

Minimum Tread Depth

Γ	Front	2 mm (0.08 in.)
	Rear	2 mm (0.08 in.)

- 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

O Have the wheel balance inspected whenever a new tire is installed.

🛕 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.

MAINTENANCE AND ADJUSTMENT 111

Standard Tire

Front	Size:	3.00-21 51P		
		DUNLOP D605FG		
Rear	Size:	4.60-18 63P		
		DUNLOP D605G		

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.

Self-discharge			
	Approx. Number of Days From 100% Charged to 100% discharged		
Temperature	Lead -Antimony	Lead -Calcium	
	Battery	Battery	
40°C (104°F)	100 Days	300 Days	
25°C (77°F)	200 Days	600 Days	
0°C (32°F)	550 Days	950 Days	

Current Drain				
Discharging Ampere	Days from 100% charged to 50% Discharged	Days from 100% charged to 100% Discharged		
7 mA	60 Days	119 Days		
10 mA	42 Days	83 Days		
15 mA	28 Days	56 Days		
20 mA	21 Days	42 Days		
30 mA	14 Days	28 Days		

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 Sulfation

A common cause of battery failure is sulfation.

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 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 12.6 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 reinstall 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.

MAINTENANCE AND ADJUSTMENT 115

NOTE

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

Battery Removal

- Remove the left side cover.
- Disconnect the leads from the battery, first from the (-) terminal and then the (+) terminal.



- A. (-) Terminal
- B. (+) Terminal
- C. Battery
- D. Holder
- E. Bolt
- Remove the battery holder, and take the battery out of the battery case.
- Clean the battery using a solution of baking soda and water. Be sure that the wire connections are clean.

Battery Installation

- Put the battery in the battery case.
- Connect the capped lead to the (+) terminal, and then connect the black lead to the (-) terminal.
- 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 on the headlight rim in or out until the beam points straight ahead.



A. Horizontal Adjuster B. Vertical Adjuster

MAINTENANCE AND ADJUSTMENT 117

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.

• Turn the vertical adjuster on the headlight rim in or out to adjust the headlight vertically.

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.

CAUTION

When handling the quartz -halogen bulbs, never touch the glass portion with bare hands. Always use a clean cloth. Oil contamination from hands or dirty rags can reduce bulb life or cause the bulb to explode.



Fuses

The main fuse is mounted on the starter relay located under the seat. The fuse case is located under the seat. 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.



A. Main Fuse (20 A) B. Fuse Case

MAINTENANCE AND ADJUSTMENT 119

🛦 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.



A. Normal B. Failed

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, carburetors, 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.

MAINTENANCE AND ADJUSTMENT 121

- 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 <u>cold water</u>. 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.

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.

Plastic Parts

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

CAUTION

Plastic parts may deteriorate and brake 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.

MAINTENANCE AND ADJUSTMENT 123

The sidewalls of tires and other rubber components should be treated with a rubber protectant to help prolong their useful life.

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.

STORAGE

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.

Motor 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, and empty the carburetors by unscrewing the drain screw at each float bowl. (If left in for a long time, the fuel will break down and could clog the carburetors.)

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.

• Remove the spark plugs and spray fogging oil directly into each cylinder. Turn the engine over several times with the starter button to coat the cylinder wall. Install the spark plug.

Do not lean over the engine when performing this procedure. An air/oil mist may be forcibly ejected from the spark plug holes and could get into your eyes. if you do get some in your eyes, wash your eyes immediately with liberal amounts of clean, fresh water. Consult a physician as soon as possible.

• Reduce tire pressure by about 20%.

126 STORAGE

- 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 bag over the exhaust pipe to prevent moisture from entering.
- Put a cover over the motorcycle to keep dust and dirt from collecting on it.

Preparation after Storage:

- Remove the plastic bag from the exhaust pipe.
- Install the battery in the motorcycle and charge the battery if necessary.
- Make sure the spark plugs are tight.
- Fill the fuel tank with fuel.
- Check all the points listed in the Daily Safety Checks section.
- Lubricate the pivots, bolts, and nuts.

ENVIRONMENTAL PROTECTION 127 ENVIRONMENTAL PROTECTION

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 procedures.

128 LABEL INFORMATION

LABEL INFORMATION







- 1. Brake Fluid (Front) 2. Important Drive Chain Information 3. Tire and Load Data



130 LABEL INFORMATION

(1)/(4)

(USE ONLY DOT3 OR 4 BRAKE)
FLUID FROM A SEALED CONTAINER.
CLEAN FILLER CAP
BEFORE REMOVING.
WARNING
UTILISER DU LIQUIDE
L DE FREIN DOT3 OU 4.

TE03792BN9 C

(2)

IMPORTANT DRIVE CHAIN INFORMATION

To prevent an accident and/or damage to the motorsycle, the drive ohain must be properly maintained. It should be lubricated every 300km (200mi) and adjusted as often as necessary to keep chain slack at about $35 \times 45 \text{ mm}(1.4 \times 1.8 \text{ in})$ measured nideay between sprockets on the lower chain run with the motorcycle on the side stand. The standard chain is an EAUMA EKS20LVO with estimated service life of $1500 \times 4500 \text{ km}(9400 \times 2500 \text{ cm})$, depending on the science stands of the frequency of lubrication and adjustent. For safety, replace the chain with only the standard over a 20 - link portion stowers to over 323 m(12.7 in), measured over a 20 - link portion for the standard the frequency of lubrication and adjustent. For safety, replace the chain with only the standard chain any time it wears to over 323 m(12.7 in), measured over a 20 - link portion.

TE03793BN8 C

		TIRE	A N D	LOADI	DATA	
the	use of improper tire	inflation	pressur	es, overwoi	rn tires, i	le could become unsafe b unsuitable replacement , replace the tire wit
	the standard tire.					
	Air Pressure(Cold)	\$ i	ze & M	aker Type	9	Minimum Tread Depth
Front	150 kPa (1.50kgf/cm²,22psi)	3.00-2	21 51P	DUNLOP	D 6 0 5 F G	2 mm(0.08in)
Rear	Up to 97.5kg Load 150 kPa (2151bs) (1.5%kgf/cm ² ,22psi) 97.5~181 kg Load 175 kPa (215~3991bs) (1.7%kgf/cm ² ,25psi)	4.60-1	8 63P	DUNLOP	D 6 0 5 G	2 mm(0.08in)

TE03795BZ9 C

132 LABEL INFORMATION

(5)



TE03808B S

(6) Only on California model



TE03115B S





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