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# Kawasaki

# Ninja ZX-6R



# Motorcycle Service Manual

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# Quick Reference Guide

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This quick reference guide will assist you in locating a desired topic or procedure.

- Bend the pages back to match the black tab of the desired chapter number with the black tab on the edge at each table of contents page.
- Refer to the sectional table of contents for the exact pages to locate the specific topic required.





**Ninja ZX-6R**

# **Motorcycle Service Manual**

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No liability can be accepted for any inaccuracies or omissions in this publication, although every possible care has been taken to make it as complete and accurate as possible.

The right is reserved to make changes at any time without prior notice and without incurring an obligation to make such changes to products manufactured previously. See your Motorcycle dealer for the latest information on product improvements incorporated after this publication.

All information contained in this publication is based on the latest product information available at the time of publication. Illustrations and photographs in this publication are intended for reference use only and may not depict actual model component parts.

## LIST OF ABBREVIATIONS

A	ampere(s)	lb	pound(s)
ABDC	after bottom dead center	m	meter(s)
AC	alternating current	min	minute(s)
ATDC	after top dead center	N	newton(s)
BBDC	before bottom dead center	Pa	pascal(s)
BDC	bottom dead center	PS	horsepower
BTDC	before top dead center	psi	pound(s) per square inch
°C	degree(s) Celsius	r	revolution
DC	direct current	rpm	revolution(s) per minute
F	farad(s)	TDC	top dead center
°F	degree(s) Fahrenheit	TIR	total indicator reading
ft	foot, feet	V	volt(s)
g	gram(s)	W	watt(s)
h	hour(s)	Ω	ohm(s)
L	liter(s)		

**Read OWNER'S MANUAL before operating.**

## EMISSION CONTROL INFORMATION

To protect the environment in which we all live, Kawasaki has incorporated crankcase emission (1) and exhaust emission (2) control systems in compliance with applicable regulations of the United States Environmental Protection Agency and California Air Resources Board. Additionally, Kawasaki has incorporated an evaporative emission control system (3) in compliance with applicable regulations of the California Air Resources Board on vehicles sold in California only.

### 1. Crankcase Emission Control System

This system eliminates the release of crankcase vapors into the atmosphere. Instead, the vapors are routed through an oil separator to the inlet side of the engine. While the engine is operating, the vapors are drawn into combustion chamber, where they are burned along with the fuel and air supplied by the fuel injection system.

### 2. Exhaust Emission Control System

This system reduces the amount of pollutants discharged into the atmosphere by the exhaust of this motorcycle. The fuel, ignition, and exhaust systems of this motorcycle have been carefully designed and constructed to ensure an efficient engine with low exhaust pollutant levels.

The exhaust system of this model motorcycle manufactured primarily for sale in California includes a catalytic converter system.

### 3. Evaporative Emission Control System

Vapors caused by fuel evaporation in the fuel system are not vented into the atmosphere. Instead, fuel vapors are routed into the running engine to be burned, or stored in a canister when the engine is stopped. Liquid fuel is caught by a vapor separator and returned to the fuel tank.

The Clean Air Act, which is the Federal law covering motor vehicle pollution, contains what is commonly referred to as the Act's "tampering provisions".

"Sec. 203(a) The following acts and the causing thereof are prohibited...

(3)(A) for any person to remove or render inoperative any device or element of design installed on or in a motor vehicle or motor vehicle engine in compliance with regulations under this title prior to its sale and delivery to the ultimate purchaser, or for any manufacturer or dealer knowingly to remove or render inoperative any such device or element of design after such sale and delivery to the ultimate purchaser.

(3)(B) for any person engaged in the business of repairing, servicing, selling, leasing, or trading motor vehicles or motor vehicle engines, or who operates a fleet of motor vehicles knowingly to remove or render inoperative any device or element of design installed on or in a motor vehicle or motor vehicle engine in compliance with regulations under this title following its sale and delivery to the ultimate purchaser..."

### NOTE

○ *The phrase "remove or render inoperative any device or element of design" has been generally interpreted as follows.*

1. *Tampering does not include the temporary removal or rendering inoperative of devices or elements of design in order to perform maintenance.*
2. *Tampering could include.*
  - a. *Maladjustment of vehicle components such that the emission standards are exceeded.*
  - b. *Use of replacement parts or accessories which adversely affect the performance or durability of the motorcycle.*
  - c. *Addition of components or accessories that result in the vehicle exceeding the standards.*
  - d. *Permanently removing, disconnecting, or rendering inoperative any component or element of design of the emission control systems.*

**WE RECOMMEND THAT ALL DEALERS OBSERVE THESE PROVISIONS OF FEDERAL LAW, THE VIOLATION OF WHICH IS PUNISHABLE BY CIVIL PENALTIES NOT EXCEEDING \$10 000 PER VIOLATION.**

## **TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED**

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

Among those acts presumed to constitute tampering are the acts listed below.

- Replacement of the original exhaust system or muffler with a component not in compliance with Federal regulations.
- Removal of the muffler(s) or any internal portion of the muffler(s).
- Removal of the air box or air box cover.
- Modifications to the muffler(s) or air inlet system by cutting, drilling, or other means if such modifications result in increased noise levels.

# Foreword

This manual is designed primarily for use by trained mechanics in a properly equipped shop. However, it contains enough detail and basic information to make it useful to the owner who desires to perform his own basic maintenance and repair work. A basic knowledge of mechanics, the proper use of tools, and workshop procedures must be understood in order to carry out maintenance and repair satisfactorily. Whenever the owner has insufficient experience or doubts his ability to do the work, all adjustments, maintenance, and repair should be carried out only by qualified mechanics.

In order to perform the work efficiently and to avoid costly mistakes, read the text, thoroughly familiarize yourself with the procedures before starting work, and then do the work carefully in a clean area. Whenever special tools or equipment are specified, do not use makeshift tools or equipment. Precision measurements can only be made if the proper instruments are used, and the use of substitute tools may adversely affect safe operation.

**For the duration of the warranty period,** we recommend that all repairs and scheduled maintenance be performed in accordance with this service manual. Any owner maintenance or repair procedure not performed in accordance with this manual may void the warranty.

To get the longest life out of your vehicle.

- Follow the Periodic Maintenance Chart in the Service Manual.
- Be alert for problems and non-scheduled maintenance.
- Use proper tools and genuine Kawasaki Motorcycle parts. Special tools, gauges, and testers that are necessary when servicing Kawasaki motorcycles are introduced by the Special Tool Catalog or Manual. Genuine parts provided as spare parts are listed in the Parts Catalog.
- Follow the procedures in this manual carefully. Don't take shortcuts.
- Remember to keep complete records of maintenance and repair with dates and any new parts installed.

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## How to Use This Manual

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In preparing this manual, we divided the product into its major systems. These systems became the manual's chapters. All information for a particular system from adjustment through disassembly and inspection is located in a single chapter.

The Quick Reference Guide shows you all of the product's system and assists in locating their chapters. Each chapter in turn has its own comprehensive Table of Contents.

The Periodic Maintenance Chart is located in the Periodic Maintenance chapter. The chart gives a time schedule for required maintenance operations.

If you want spark plug information, for example, go to the Periodic Maintenance Chart first. The chart tells you how frequently to clean and gap the plug. Next, use the Quick Reference Guide to locate the Periodic Maintenance chapter. Then, use the Table of Contents on the first page of the chapter to find the Spark Plug section.

Whenever you see these WARNING and CAUTION symbols, 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.**

This manual contains four more symbols (in addition to WARNING and CAUTION) which will help you distinguish different types of information.

## NOTE

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

● Indicates a procedural step or work to be done.

○ Indicates a procedural sub-step or how to do the work of the procedural step it follows. It also precedes the text of a NOTE.

★ Indicates a conditional step or what action to take based on the results of the test or inspection in the procedural step or sub-step it follows.

In most chapters an exploded view illustration of the system components follows the Table of Contents. In these illustrations you will find the instructions indicating which parts require specified tightening torque, oil, grease or a locking agent during assembly.

# General Information

## Table of Contents

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Model Identification.....	1-7
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Unit Conversion Table .....	1-12

## 1-2 GENERAL INFORMATION

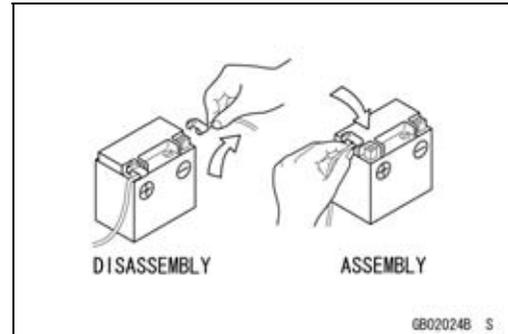
### Before Servicing

Before starting to perform an inspection service or carry out a disassembly and reassembly operation on a motorcycle, read the precautions given below. To facilitate actual operations, notes, illustrations, photographs, cautions, and detailed descriptions have been included in each chapter wherever necessary. This section explains the items that require particular attention during the removal and reinstallation or disassembly and reassembly of general parts.

Especially note the following.

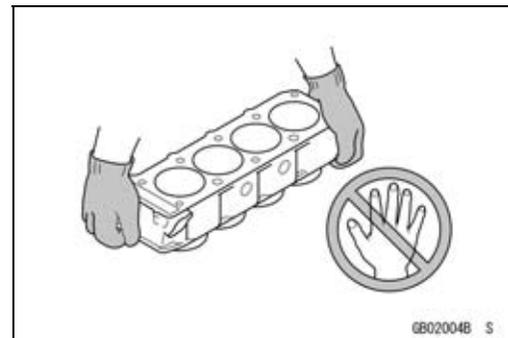
#### *Battery Ground*

Before completing any service on the motorcycle, disconnect the battery cables from the battery to prevent the engine from accidentally turning over. Disconnect the ground cable (–) first and then the positive (+). When completed with the service, first connect the positive (+) cable to the positive (+) terminal of the battery then the negative (–) cable to the negative terminal.



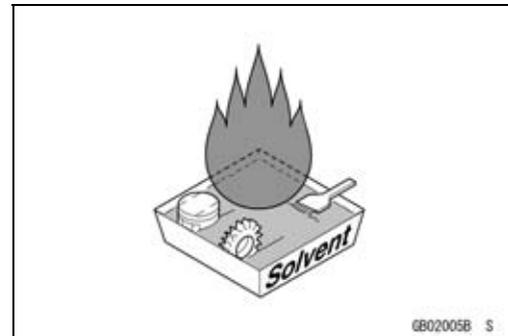
#### *Edges of Parts*

Lift large or heavy parts wearing gloves to prevent injury from possible sharp edges on the parts.



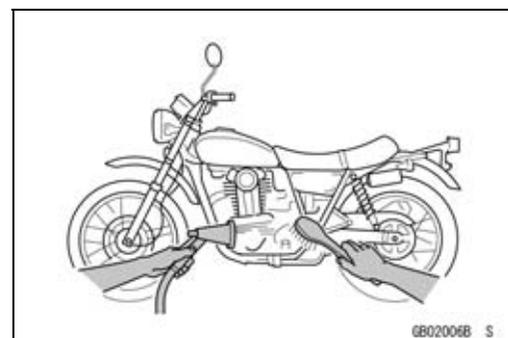
#### *Solvent*

Use a high-flush point solvent when cleaning parts. High-flush point solvent should be used according to directions of the solvent manufacturer.



#### *Cleaning vehicle before disassembly*

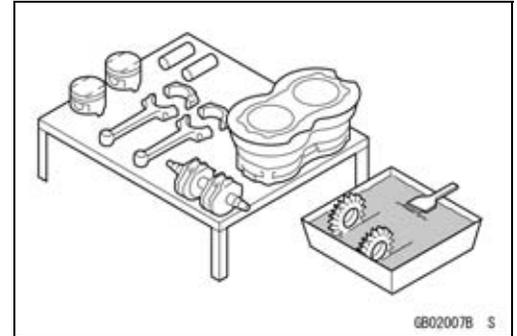
Clean the vehicle thoroughly before disassembly. Dirt or other foreign materials entering into sealed areas during vehicle disassembly can cause excessive wear and decrease performance of the vehicle.



## Before Servicing

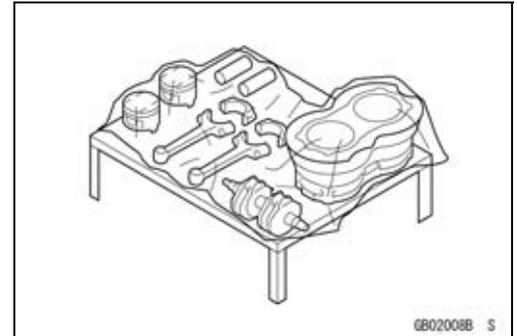
### Arrangement and Cleaning of Removed Parts

Disassembled parts are easy to confuse. Arrange the parts according to the order the parts were disassembled and clean the parts in order prior to assembly.



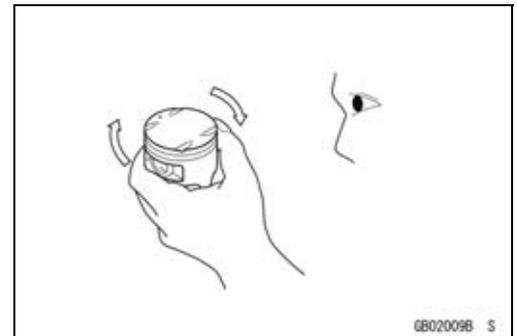
### Storage of Removed Parts

After all the parts including subassembly parts have been cleaned, store the parts in a clean area. Put a clean cloth or plastic sheet over the parts to protect from any foreign materials that may collect before re-assembly.



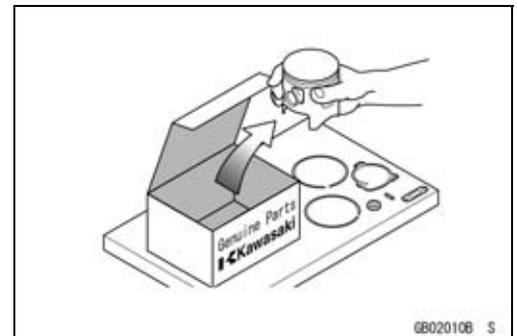
### Inspection

Reuse of worn or damaged parts may lead to serious accident. Visually inspect removed parts for corrosion, discoloration, or other damage. Refer to the appropriate sections of this manual for service limits on individual parts. Replace the parts if any damage has been found or if the part is beyond its service limit.



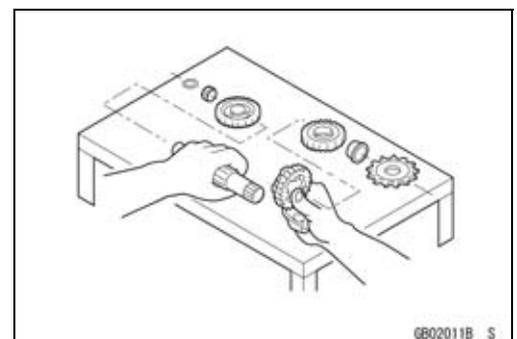
### Replacement Parts

Replacement Parts must be KAWASAKI genuine or recommended by KAWASAKI. Gaskets, O-rings, oil seals, grease seals, circlips or cotter pins must be replaced with new ones whenever disassembled.



### Assembly Order

In most cases assembly order is the reverse of disassembly, however, if assembly order is provided in this Service Manual, follow the procedures given.

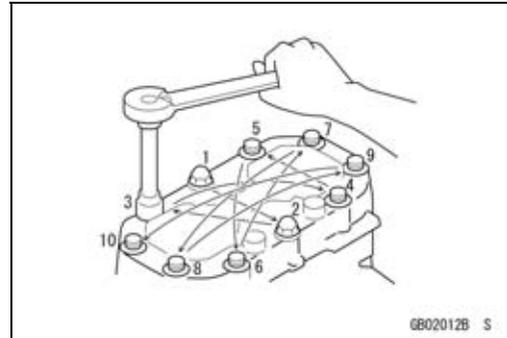


## 1-4 GENERAL INFORMATION

### Before Servicing

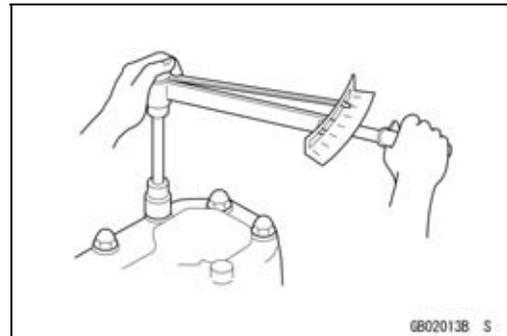
#### *Tightening Sequence*

Generally, when installing a part with several bolts, nuts, or screws, start them all in their holes and tighten them to a snug fit. Then tighten them according to the specified sequence to prevent case warpage or deformation which can lead to malfunction. Conversely when loosening the bolts, nuts, or screws, first loosen all of them by about a quarter turn and then remove them. If the specified tightening sequence is not indicated, tighten the fasteners alternating diagonally.



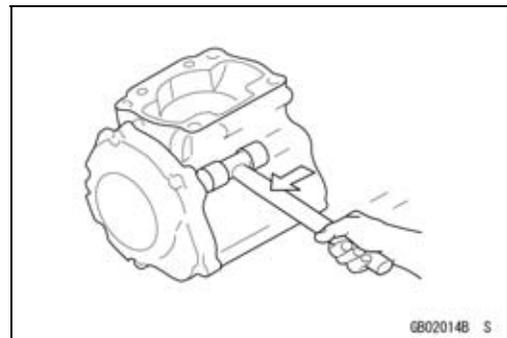
#### *Tightening Torque*

Incorrect torque applied to a bolt, nut, or screw may lead to serious damage. Tighten fasteners to the specified torque using a good quality torque wrench.



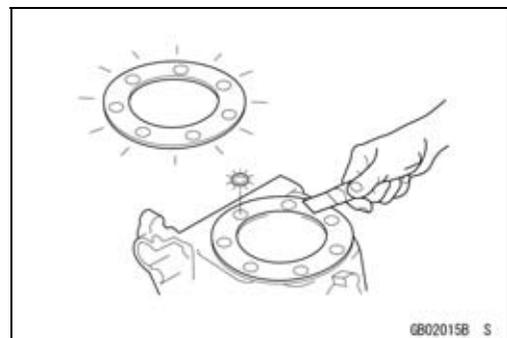
#### *Force*

Use common sense during disassembly and assembly, excessive force can cause expensive or hard to repair damage. When necessary, remove screws that have a non-permanent locking agent applied using an impact driver. Use a plastic-faced mallet whenever tapping is necessary.



#### *Gasket, O-ring*

Hardening, shrinkage, or damage of both gaskets and O-rings after disassembly can reduce sealing performance. Remove the old gaskets and clean the sealing surfaces thoroughly so that no gasket material or other material remains. Install the new gaskets and replace the used O-rings when re-assembling.



#### *Liquid Gasket, Non-permanent Locking Agent*

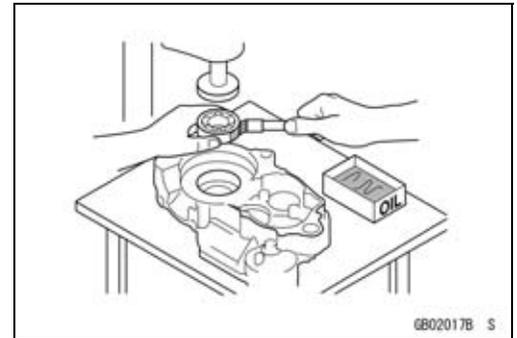
For applications that require Liquid Gasket or a Non-permanent Locking Agent, clean the surfaces so that no oil residue remains before applying liquid gasket or non-permanent locking agent. Do not apply them excessively. Excessive application can clog oil passages and cause serious damage.



**Before Servicing**

**Press**

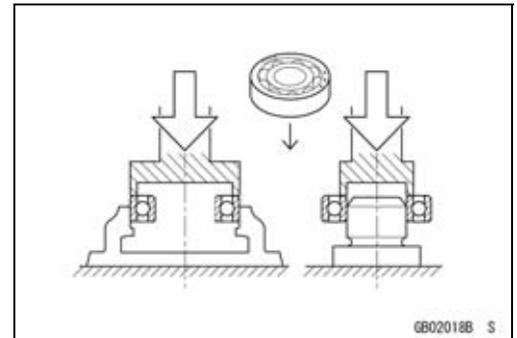
For items such as bearings or oil seals that must be pressed into place, apply small amount of oil to the contact area. Be sure to maintain proper alignment and use smooth movements when installing.



**Ball Bearing and Needle Bearing**

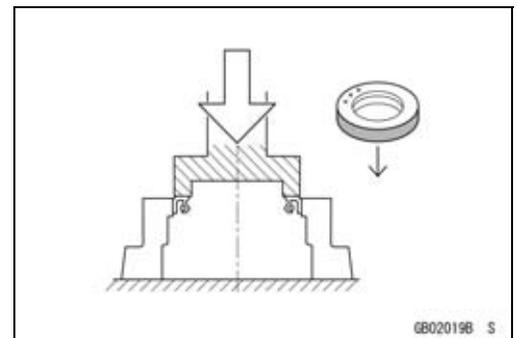
Do not remove pressed ball or needle unless removal is absolutely necessary. Replace with new ones whenever removed. Press bearings with the manufacturer and size marks facing out. Press the bearing into place by putting pressure on the correct bearing race as shown.

Pressing the incorrect race can cause pressure between the inner and outer race and result in bearing damage.

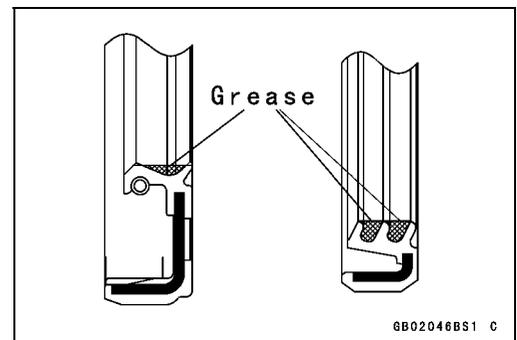


**Oil Seal, Grease Seal**

Do not remove pressed oil or grease seals unless removal is necessary. Replace with new ones whenever removed. Press new oil seals with manufacture and size marks facing out. Make sure the seal is aligned properly when installing.

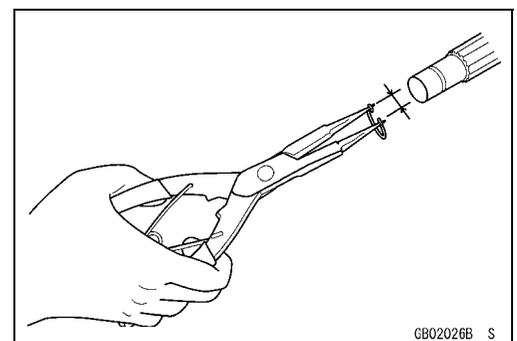


Apply specified grease to the lip of seal before installing the seal.



**Circlips, Cotter Pins**

Replace the circlips or cotter pins that were removed with new ones. Take care not to open the clip excessively when installing to prevent deformation.

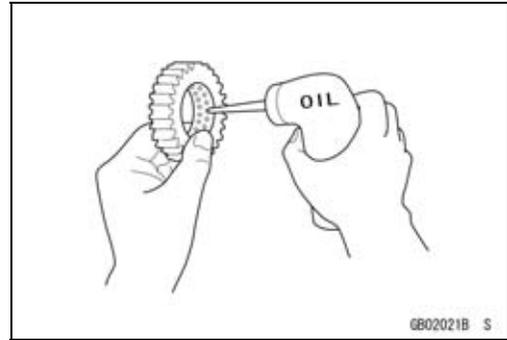


# 1-6 GENERAL INFORMATION

## Before Servicing

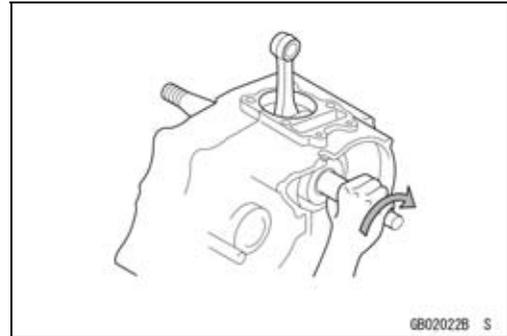
### *Lubrication*

It is important to lubricate rotating or sliding parts during assembly to minimize wear during initial operation. Lubrication points are called out throughout this manual, apply the specific oil or grease as specified.



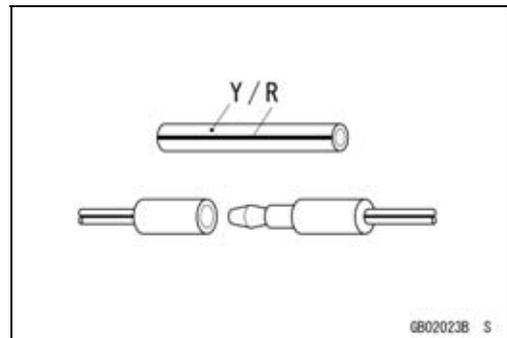
### *Direction of Engine Rotation*

When rotating the crankshaft by hand, the free play amount of rotating direction will affect the adjustment. Rotate the crankshaft to positive direction (clockwise viewed from output side).



### *Electrical Wires*

A two-color wire is identified first by the primary color and then the stripe color. Unless instructed otherwise, electrical wires must be connected to those of the same color.



Model Identification

ZX636-C1 (Europe) Left Side View



ZX636-C1 (Europe) Right Side View



## 1-8 GENERAL INFORMATION

### Model Identification

#### ZX636-C1 (US and Canada) Left Side View



#### ZX636-C1 (US and Canada) Right Side View



## General Specifications

Items	ZX636-C1 (Ninja ZX-6R)
<b>Dimensions</b>	
Overall Length	2 065 mm (81.3 in.)
Overall Width	715 mm (28.1 in.)
Overall Height	1 110 mm (43.7 in.)
Wheelbase	1 390 mm (54.7 in.)
Road Clearance	120 mm (4.7 in.)
Seat Height	820 mm (32.3 in.)
Dry Mass	164 kg (362 lb)
Curb Mass:	
Front	95 kg (209 lb)
Rear	97 kg (214 lb)
Fuel Tank Capacity	17 L (4.5 US gal)
<b>Performance</b>	
Minimum Turning Radius	3.3 m (10.8 ft)
<b>Engine</b>	
Type	4-stroke, DOHC, 4-cylinder
Cooling System	Liquid-cooled
Bore and Stroke	68.0 × 43.8 mm (2.7 × 1.7 in.)
Displacement	636 mL (38.8 cu in.)
Compression Ratio	12.9 : 1
Maximum Horsepower	95.5 kW (130 PS) @14 000 r/min (rpm), (FR) 78.2 kW (106 PS) @13 000 r/min (rpm), (MY) 90.8 kW (123 PS) @12 500 r/min (rpm), (CA), (CAL), (US) — — —
Maximum Torque	70.5 N·m (7.1 kgf·m, 52 ft·lb) @11 500 r/min (rpm), (FR) 63 N·m (6.4 kgf·m, 46 ft·lb) @11 500 r/min (rpm), (CA), (CAL), (US) — — —
Carburetion System	FI (Fuel injection) Primary: KEIHIN TTK 38 × 4 Secondary: KEIHIN Multihole (3 holes) × 4
Starting System	Electric starter
Ignition System	Battery and coil (transistorized)
Timing Advance	Electronically advanced (digital igniter in ECU)
Ignition Timing	From 12.5° BTDC @1 300 r/min (rpm) to 35° BTDC @4 600 r/min (rpm)
Spark Plug	NGK CR9E
Cylinder Numbering Method	Left to right, 1-2-3-4
Firing Order	1-2-4-3
Valve Timing:	
Inlet:	
Open	59° BTDC
Close	81° ABDC
Duration	320°
Exhaust:	
Open	61° BBDC
Close	31° ATDC

# 1-10 GENERAL INFORMATION

## General Specifications

Items	ZX636-C1 (Ninja ZX-6R)
Duration Lubrication System Engine Oil: Type Viscosity Capacity	272° Forced lubrication (wet sump with cooler) API SE, SF or SG API SH or SJ with JASO MA SAE10W-40 4.0 L (4.2 US qt)
<b>Drive Train</b> Primary Reduction System: Type Reduction Ratio Clutch Type Transmission: Type Gear Ratios: 1st 2nd 3rd 4th 5th 6th Final Drive System: Type Reduction Ratio Overall Drive Ratio	Gear 1.891 (87/46) Wet multi disc 6-speed, constant mesh, return shift 2.923 (38/13) 2.055 (37/18) 1.666 (35/21) 1.450 (29/20) 1.272 (28/22) 1.153 (30/26) Chain drive 2.866 (43/15) 6.255 @Top gear
<b>Frame</b> Type Caster (Rake Angle) Trail Front Tire: Type Size Rear Tire: Type Size Front Suspension: Type Wheel Travel Rear Suspension: Type Wheel Travel Brake Type: Front Rear	Tubular, diamond 25° 106 mm (4.2 in.) Tubeless 120/65 ZR17 M/C (56 W) Tubeless 180/55 ZR17 M/C (73 W) Telescopic fork (upside-down) 120 mm (4.7 in.) Swingarm (uni-trak) 135 mm (5.3 in.) Dual discs Single disc

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**General Specifications**


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Items	ZX636-C1 (Ninja ZX-6R)
<b>Electrical Equipment</b>	
Battery	12 V 8 Ah
Headlight:	
Type	Semi-sealed beam
Bulb:	
High	12 V 55 W (quartz-halogen) × 2
Low	12 V 55 W (quartz-halogen)
Tail/Brake Light	12 V 0.5/4.1 W (LED)
Alternator:	
Type	Three-phase AC
Rated Output	22.5 A/14 V @5 000 r/min (rpm)

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

CA: Canada Model

CAL: California Model

FR: France Model

MY: Malaysia Model

US: United States Model

# 1-12 GENERAL INFORMATION

## Unit Conversion Table

### Prefixes for Units

Prefix	Symbol	Power
mega	M	× 1 000 000
kilo	k	× 1 000
centi	c	× 0.01
milli	m	× 0.001
micro	μ	× 0.000001

### Units of Mass

kg	×	2.205	=	lb
g	×	0.03527	=	oz

### Units of Volume

L	×	0.2642	=	gal (US)
L	×	0.2200	=	gal (imp)
L	×	1.057	=	qt (US)
L	×	0.8799	=	qt (imp)
L	×	2.113	=	pint (US)
L	×	1.816	=	pint (imp)
mL	×	0.03381	=	oz (US)
mL	×	0.02816	=	oz (imp)
mL	×	0.06102	=	cu in

### Units of Force

N	×	0.1020	=	kg
N	×	0.2248	=	lb
kg	×	9.807	=	N
kg	×	2.205	=	lb

### Units of Length

km	×	0.6214	=	mile
m	×	3.281	=	ft
mm	×	0.03937	=	in

### Units of Torque

N·m	×	0.1020	=	kgf·m
N·m	×	0.7376	=	ft·lb
N·m	×	8.851	=	in·lb
kgf·m	×	9.807	=	N·m
kgf·m	×	7.233	=	ft·lb
kgf·m	×	86.80	=	in·lb

### Units of Pressure

kPa	×	0.01020	=	kgf/cm <sup>2</sup>
kPa	×	0.1450	=	psi
kPa	×	0.7501	=	cmHg
kgf/cm <sup>2</sup>	×	98.07	=	kPa
kgf/cm <sup>2</sup>	×	14.22	=	psi
cmHg	×	1.333	=	kPa

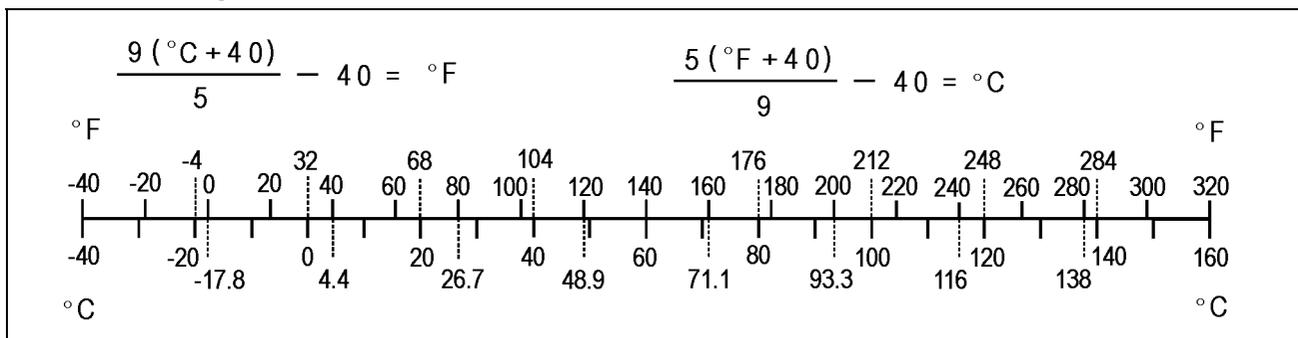
### Units of Speed

km/h	×	0.6214	=	mph
------	---	--------	---	-----

### Units of Power

kW	×	1.360	=	PS
kW	×	1.341	=	HP
PS	×	0.7355	=	kW
PS	×	0.9863	=	HP

### Units of Temperature



# Periodic Maintenance

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## 2-2 PERIODIC MAINTENANCE

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## PERIODIC MAINTENANCE 2-3

### Periodic Maintenance Chart (United States, Canada Model)

The scheduled maintenance must be done in accordance with this chart to keep the motorcycle in good running condition. **The initial maintenance is vitally important and must not be neglected.**

#### Periodic Inspection

INSPECTION	FREQUENCY	* ODOMETER READING							See Page
	Whichever comes first ↓ Every	1 (0.6)	6 (4)	12 (7.5)	18 (12)	24 (15)	30 (20)	36 (24)	
<b>Fuel System</b>									
Throttle control system (play, smooth return, no drag)-inspect	year	•		•		•		•	2-18
Engine vacuum synchronization-inspect				•		•		•	2-18
Idle speed-inspect		•		•		•		•	2-22
Fuel leak (fuel hose and pipe)-inspect	year	•		•		•		•	2-22
Fuel hose and pipe damage-inspect	year	•		•		•		•	2-22
Fuel hose and pipe installation condition-inspect	year	•		•		•		•	2-22
<b>Evaporative Emission Control System (CAL)</b>									
Evaporative emission control system function-inspect		•	•	•	•	•	•	•	2-23
<b>Cooling System</b>									
Coolant level-inspect		•		•		•		•	2-24
Coolant leak (radiator hose and pipe)-inspect	year	•		•		•		•	2-24
Radiator hose damage-inspect	year	•		•		•		•	2-24
Radiator hose installation condition-inspect	year	•		•		•		•	2-24
<b>Engine Top End</b>									
Valve clearance-inspect						•			2-25
<b>Air Suction System</b>									
Air suction system damage-inspect				•		•		•	2-29
<b>Clutch</b>									
Clutch operation (play, disengagement, engagement)-inspect		•		•		•		•	2-29
<b>Wheels and Tires</b>									
Tire air pressure-inspect	year			•		•		•	2-30
Wheel/tire damage-inspect				•		•		•	2-30
Tire tread wear, abnormal wear-inspect				•		•		•	2-30
Wheel bearing damage-inspect	year			•		•		•	2-31
<b>Drive Train</b>									
Drive chain lubrication condition-inspect #	Every 600 km (400 mile)								2-32
Drive chain slack-inspect #	Every 1 000 km (600 mile)								2-32
Drive chain wear-inspect #				•		•		•	2-34
Drive chain guide wear-inspect				•		•		•	2-35

## 2-4 PERIODIC MAINTENANCE

### Periodic Maintenance Chart (United States, Canada Model)

INSPECTION	FREQUENCY	Which ever comes first ↓	* ODOMETER READING × 1 000 km (× 1 000 mile)							See Page
			1 (0.6)	6 (4)	12 (7.5)	18 (12)	24 (15)	30 (20)	36 (24)	
<b>Brake System</b>										
Brake fluid leak (brake hose and pipe)-inspect	year		•	•	•	•	•	•	•	2-35
Brake hose and pipe damage-inspect	year		•	•	•	•	•	•	•	2-35
Brake pad wear-inspect #				•	•	•	•	•	•	2-36
Brake hose installation condition-inspect	year		•	•	•	•	•	•	•	2-35
Brake fluid level-inspect	6 months		•	•	•	•	•	•	•	2-36
Brake operation (effectiveness, play, no drag)-inspect	year		•	•	•	•	•	•	•	2-35
Brake light switch operation-inspect			•	•	•	•	•	•	•	2-36
<b>Suspensions</b>										
Front forks/rear shock absorber operation (damping and smooth stroke)-inspect					•		•		•	2-37
Front forks/rear shock absorber oil leak-inspect	year				•		•		•	2-38
Rocker arm operation-inspect					•		•		•	2-38
Tie-Rods operation-inspect					•		•		•	2-38
<b>Steering System</b>										
Steering play-inspect	year		•		•		•		•	2-39
Steering stem bearings-lubricate	2 years						•			2-40
<b>Electrical System</b>										
Spark plug condition – inspect					•		•		•	2-40
Lights and switches operation-inspect	year				•		•		•	2-42
Headlight aiming-inspect	year				•		•		•	2-44
Side stand switch operation-inspect	year				•		•		•	2-45
Engine stop switch operation-inspect	year				•		•		•	2-46
<b>Others</b>										
Chassis parts-lubricate	year				•		•		•	2-47
Bolts and nuts tightness-inspect			•		•		•		•	2-48

\*: 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.

CAL: California Model

## PERIODIC MAINTENANCE 2-5

### Periodic Maintenance Chart (United States, Canada Model)

#### Periodic Replacement Parts

CHANGE/REPLACE ITEM	FREQUENCY	* ODOMETER READING × 1 000 km (× 1 000 mile)					See Page
		Whichever come first ↓ Every	1 (0.6)	12 (7.5)	24 (15)	36 (24)	
Air cleaner element #		Every 18 000 km (12 000 mile)					2-50
Fuel hose	4 years					●	2-50
Coolant	3 years				●		2-52
Radiator hose and O-ring	3 years				●		2-54
Engine oil #	year	●	●	●	●	●	2-55
Oil filter	year	●	●	●	●	●	2-55
Brake hose and pipe	4 years					●	2-56
Brake fluid	2 years			●		●	2-56
Rubber parts of master cylinder and caliper	4 years					●	2-58, 2-59
Spark plug			●	●	●	●	2-62

\*: 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.



## PERIODIC MAINTENANCE 2-7

### Periodic Maintenance Chart (Other than United States, Canada Model)

FREQUENCY	Whichever comes first ↓	* ODOMETER READING × 1 000 km (× 1 000 mile)							See Page
		1 (0.6)	6 (4)	12 (7.5)	18 (12)	24 (15)	30 (20)	36 (24)	
INSPECTION	Every								
Brake hose and pipe damage-inspect	year	•	•	•	•	•	•	•	2-35
Brake pad wear-inspect #			•	•	•	•	•	•	2-36
Brake hose installation condition-inspect	year	•	•	•	•	•	•	•	2-35
Brake fluid level-inspect	6 months	•	•	•	•	•	•	•	2-36
Brake operation (effectiveness, play, no drag)-inspect	year	•	•	•	•	•	•	•	2-35
Brake light switch operation-inspect		•	•	•	•	•	•	•	2-36
<b>Suspensions</b>									
Front forks/rear shock absorber operation (damping and smooth stroke)-inspect				•		•		•	2-37
Front forks/rear shock absorber oil leak-inspect	year			•		•		•	2-38
Rocker arm operation-inspect				•		•		•	2-38
Tie-Rods operation-inspect				•		•		•	2-38
<b>Steering System</b>									
Steering play-inspect	year	•		•		•		•	2-39
Steering stem bearings-lubricate	2 years					•			2-40
<b>Electrical System</b>									
Spark plug condition – inspect				•		•		•	2-40
Lights and switches operation-inspect	year			•		•		•	2-42
Headlight aiming-inspect	year			•		•		•	2-44
Side stand switch operation-inspect	year			•		•		•	2-45
Engine stop switch operation-inspect	year			•		•		•	2-46
<b>Others</b>									
Chassis parts-lubricate	year			•		•		•	2-47
Bolts and nuts tightness-inspect		•		•		•		•	2-48

\*: 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.

## 2-8 PERIODIC MAINTENANCE

Product: 2005 Kawasaki ZX6R Motorcycle Service Repair/Assembly/Parts Workshop Manual

### Periodic Maintenance Chart (Other than United States, Canada Model)

#### Periodic Replacement Parts

FREQUENCY	* ODOMETER READING					See Page
	Whichever come first ↓	1 (0.6)	12 (7.5)	24 (15)	36 (24)	
CHANGE/REPLACE ITEM	Every					
Air cleaner element #	Every 18 000 km (12 000 mile)					2-50
Fuel hose	4 years				●	2-50
Coolant	3 years			●		2-52
Radiator hose and O-ring	3 years			●		2-54
Engine oil #	year	●	●	●	●	2-55
Oil filter	year	●	●	●	●	2-55
Brake hose and pipe	4 years				●	2-56
Brake fluid	2 years			●	●	2-56
Rubber parts of master cylinder and caliper	4 years				●	2-58, 2-59
Spark plug			●	●	●	2-62

\*: 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.