

ZZ-R250

1990 - 1996



Motorcycle Service Manual Supplement

MODEL APPLICATION

Year	Model	Beginning Frame No.
1990	EX250-H1	JKAEXMH1 □LA000001, or EX250H-000001
1991	EX250-H2	JKAEXMH1 □ MA008801, or EX250H-008801
1992	EX250-H3	JKAEXMH1 □NA025001, or EX250H-025001
1993	EX250-H4	EX250H-033001
1994	EX250-H5	JKAEXMH1 □ RA050001, or EX250H-050001
1996	EX250-H7	JKAEXMH1 □TA060001, or EX250H-060001

☐ :This digit in the frame number changes from one machine to another.



KAWASAKI HEAVY INDUSTRIES, LTD. Consumer Products Group

Part No. 99924-1129-54

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.



ZZ-R250

Motorcycle

Service Manual

Supplement

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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	the trans. The selection of the selection and the selection of the selecti
BDC	bottom dead center	PS	pascal(s) 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)		



WARNING CONTAINS ASBESTOS

Breathing asbestos dust is dangerous to health

Follow safety

This warning may apply to any of the following components or any assembly containing one or more of these components:-

Brake Shoes or Pads Clutch Friction Material Gaskets Insulators

SAFETY INSTRUCTIONS

- Operate if possible out of doors or in a well ventilated place.
- Preferably use hand tools or low speed tools equipped, if necessary, with an appropriate dust extraction facility. If high speed tools are used, they should always be so equipped.
- If possible, dampen before cutting or drilling.
- Dampen dust and place it in properly closed receptacle and dispose of it safely.

Read OWNER'S MANUAL before operating.

Foreword

This EX250H Service Manual Supplement is designed to be used in conjunction with the EX250E Motorcycle Service Manual (P/N 99924-1066-01). The maintenance and repair procedures described in this supplement are only those that are unique to the EX250H motorcycle. Most service operations for these models remain identical to those described in the base Service Manual. Complete and proper servicing of the EX250H motorcycle therefore requires both this supplement and the base Service Manual.

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 your warranty period, especially, 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 Motorcycle:

- 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 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.

How to Use this Manual

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 systems 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 General Information 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 Electrical System 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.

AWARNING

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.
- Olndicates 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

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Torque and Locking Agent	
Cable, Wire, Hose, and Pipe Routing	
Periodic Maintenance Chart	1-12

* : Refer to Base Manual

1986 - 87

Quick Reference

1-2 GENERAL INFORMATION

Model Identification

EX250-H1/H2



General



EX250-H5



EX250-H7



General S	pecifications
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Item		EX250-H1/H2/H3/H4/H5/H7			
Dimensions:		FF 1 22840.E.			
Overall length		2 050 mm, (F)(G)(S) 2 115 mm			
Overall width		700 mm			
Overall height		1 125 mm			
Wheelbase		1 405 mm			
Road clearance		135 mm			
Seat height		760 mm	110/10/1		
Dry weight		148 kg, (A) 146 kg	6/368 16		
Curb weight:	Front	80 kg			
	Rear	90 kg, (A) 88 kg	I and desired		
Fuel tank capaci	ty	18.0 L Carry 10 3 45	16/18849		
Performance:	TET AND LET E (SA III				
Minimum turnin	g radius	2.8 m	17.18		
Engine:		4 stroke DOHC 2-cylinder			
Type		4-Sticke, Doile, 2-Cymraci			
Cooling system		Liquid-cooled			
Bore and stroke		62.0 x 41.2 mm			
Displacement		248 mL			
Compression rat		12.4001			
Maximum horse	power samuel	26.5 kW (36 PS) @12 500 r/min (rg			
		(S) 14.7 kW (20 PS) @9 500 r/min			
Maximum torqu	e is mm ora. ,	21.6 N-m (2.2 kg-m, 15.9 ft-lb) @9 000 r/min (rpm), (S) 15.7 N-m (1.6 kg-m, 11.6 ft-lb) @8 000 r/min (rpm			
Carburetion syst	tom	Carburetors, Keihin CVK30 x 2			
	constitution (New III	Electric starter			
Starting system		Battery and coil (transistorized)			
Ignition system		Electronically advanced			
Timing advance		From 10° BTDC @1 200 r/min (rpm) to		
Ignition timing		42° BTDC @4 500 r/min (rpm),	lsctrical funipme		
		(S) From 10° BTDC @1 300 r/min ((rpm) to		
		42° BTDC @4 500 r/min (rpm)	(ipiii) to		
Spark plug		(A) NGK C8HA or ND U24FS-L			
		Left to right, 1-2			
Cylinder numbe	ering method	1-2			
Firing order		1-2			
Valve timing:		26° BTDC			
Inlet	Open	66° ABDC			
	Close	272°			
F. W	Duration	66° BBDC			
Exhaust	Open	26° ATDC			
	Close	272°			
	Duration	Forced lubrication (wet sump with o	cooler)		
Lubrication syst	tem	Forced tubilication (wet sump with	ELENAZIONI		
Engine oil:		SE or SF class			
Grade		SAE 10W-40, 10W-50, 20W-40, 20	OW-50		
Viscosity					
Capacity		1.9 L			