YAMAHA

YZF-R1

'98
4XV1-AE1

SERVICE MANUAL

EB000000

YZF - R1
SERVICE MANUAL
©1997 by Yamaha Motor Co., Ltd.
First edition, October 1997
All rights reserved. Any reproduction or unauthorized use without the written permission of Yamaha Motor Co., Ltd. is expressly prohibited.

EB001000

NOTICE

This manual was produced by the Yamaha Motor Company, Ltd. primarily for use by Yamaha dealers and their qualified mechanics. It is not possible to include all the knowledge of a mechanic in one manual. Therefore, anyone who uses this book to perform maintenance and repairs on Yamaha vehicles should have a basic understanding of mechanics and the techniques to repair these types of vehicles. Repair and maintenance work attempted by anyone without this knowledge is likely to render the vehicle unsafe and unfit for use.

Yamaha Motor Company, Ltd. is continually striving to improve all of its models. Modifications and significant changes in specifications or procedures will be forwarded to all authorized Yamaha dealers and will appear in future editions of this manual where applicable.

NOTE:	
Designs and specifications are subject to change without notice.	

EB002000

IMPORTANT MANUAL INFORMATION

Particularly important information is distinguished in this manual by the following.

The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

▲ WARNING Failure to follow WARNING instructions could result in severe injury or

death to the motorcycle operator, a bystander or a person checking or

repairing the motorcycle.

CAUTION: A CAUTION indicates special precautions that must be taken to avoid

damage to the motorcycle.

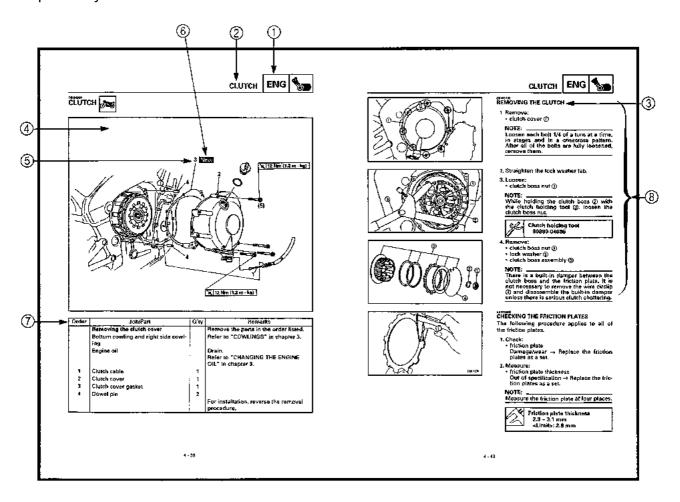
NOTE: A NOTE provides key information to make procedures easier or clearer.

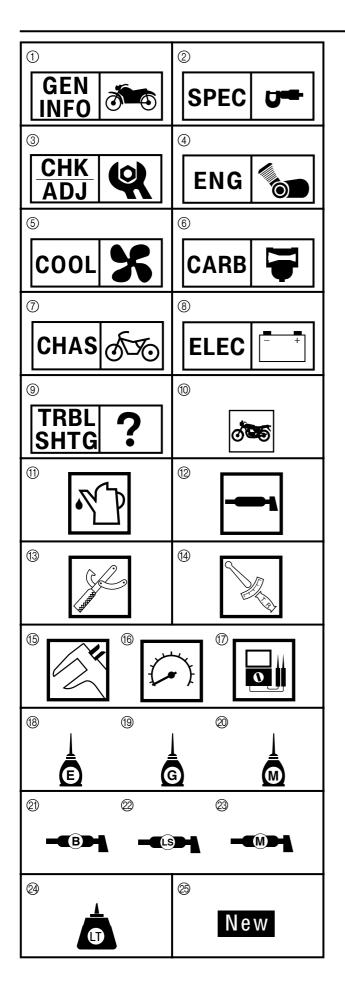
EB003000

HOW TO USE THIS MANUAL

This manual is intended as a handy, easy-to-read reference book for the mechanic. Comprehensive explanations of all installation, removal, disassembly, assembly, repair and check procedures are laid out with the individual steps in sequential order.

- ① The manual is divided into chapters. An abbreviation and symbol in the upper right corner of each page indicate the current chapter. Refer to "SYMBOLS".
- ② Each chapter is divided into sections. The current section title is shown at the top of each page, except in Chapter 3 ("PERIODIC CHECKS AND ADJUSTMENTS"), where the sub-section title(-s) appears.
- 3 Sub-section titles appear in smaller print than the section title.
- ④ To help identify parts and clarify procedure steps, there are exploded diagrams at the start of each removal and disassembly section.
- ⑤ Numbers are given in the order of the jobs in the exploded diagram. A circled number indicates a disassembly step.
- ⑤ Symbols indicate parts to be lubricated or replaced. Refer to "SYMBOLS".
- ① A job instruction chart accompanies the exploded diagram, providing the order of jobs, names of parts, notes in jobs, etc.
- ® Jobs requiring more information (such as special tools and technical data) are described sequentially.





SYMBOLS

The following symbols are not relevant to every vehicle.

Symbols ① to ⑨ indicate the subject of each chapter.

- 1 General information
- ② Specifications
- ③ Periodic checks and adjustments
- 4 Engine
- (5) Cooling system
- ⑥ Carburetor(-s)
- ⑦ Chassis
- ® Electrical system
- Troubleshooting

Symbols 10 to 17 indicate the following.

- Serviceable with engine mounted
- 11) Filling fluid
- 12 Lubricant
- (3) Special tool
- (4) Tightening torque
- (5) Wear limit, clearance
- (6) Engine speed
- (7) Electrical data

Symbols 8 to 3 in the exploded diagrams indicate the types of lubricants and lubrication points.

- ® Engine oil
- 19 Gear oil
- Molybdenum disulfide oil
- Wheel bearing grease
- 2 Lithium soap base grease
- Molybdenum disulfide grease

Symbols 3 to 5 in the exploded diagrams indicate the following.

- ② Apply locking agent (LOCTITE®)
- 25 Replace the part

CHAPTER TITLES

GENERAL INFORMATION	GEN INFO
SPECIFICATIONS	SPEC 2
PERIODIC CHECKS AND ADJUSTMENTS	CHK ADJ 3
ENGINE	ENG 4
COOLING	COOL 5
CARBURETION	CARB 6
CHASSIS	CHAS 7
ELECTRICAL	ELEC 8
TROUBLESHOOTING	TRBL SHTG