

1987 - 2000

MOTORCYCLE

SERVICE MANUAL

Model: SH50A, SH50B, SH50F, SH50H, SH50J, SH50K, SH50M, SH50T, SH50U, SH50W

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NOTICE

This manual was written by the Yamaha Motor Company primarily for use by Yamaha dealers and their qualified mechanics. It is not possible to put an entire mechanic's education into one manual, so it is assumed that persons using this book to perform maintenance and repairs on Yamaha motorcycles have a basic understanding of the mechanical concepts and procedures inherent in scooter repair technology. Without such knowledge, attempted repairs or service to this model may render it unfit to use and/or unsafe.

This model has been disgned and manufactured to perform within certain specifications in regard to performance and emissions. Proper service with the correct tools is necessary to ensure that the scooter will operate as designed. If there is any question about a service procedure, it is imperative that you contact a Yamaha dealer for any service information changes that apply to this model. This policy is intended to provide the customer with the most satisfaction from his scooter and to conform with federal environmental quality objectives.

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

TECHNICAL PUBLICATIONS SERVICE DIVISION MOTORCYCLES OPERATIONS YAMAHA MOTOR CO., LTD.

HOW TO USE THIS MANUAL

PARTICULARLY IMPORTANT INFORMATION

This material is distinguished by the following notation.

NOTE:

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

CAUTION:

A CAUTION indicates special procedures that must be followed to avoid damage to the scooter.

WARNING:

A WARNING indicates special procedures that must be followed to avoid injury to a scooter operator or person inspecting or reparing the scooter.

MANUAL FORMAT

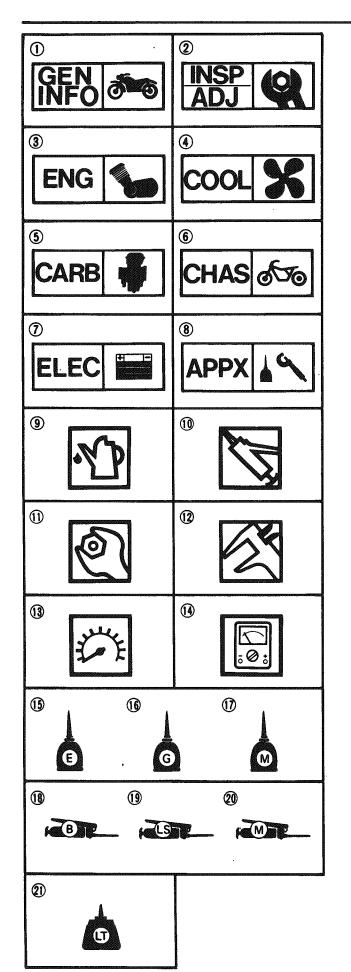
All of the procedures in this manual are organized in a sequential, step-by-step format. The information has been compiled to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and inspection operations.

In this revised format, the condition of a faulty component will precede an arrow symbol and the course of action required will follow the symbol, e.g.,

Bearings
 Pitting/Damage → Replace.

EXPLODED DIAGRAM

Each chapter provides exploded diagrams before each disassembly section for ease in identifying correct disassembly and assembly procedures.



ILLUSTRATED SYMBOLS (Refer to the illustration)

Illustrated symbols ① to ⑧ are designed as thumb tabs to indicate the chapter's number and content.

- (1) General information
- 2 Periodic inspection and adjustment
- 3 Engine
- 4 Cooling system
- (5) Carburetion
- (6) Chassis
- (7) Electrical
- 8 Appendices

Illustrated symbols (9) to (14) are used to identify the specifications appearing.

- Filling fluid
- 10 Lubricant
- 1) Tightening
- 12 Wear limit, clearance
- (13) Engine speed
- **14**Ω, V, A

Illustrated symbols (5) to (2) in the exploded diagram indicate grade of lubricant and location of lubrication point.

- (15) Apply engine oil
- 16 Apply gear oil
- (I) Apply molybdenum disulfide oil
- (18) Apply wheel bearing grease
- (19) Apply lightweight lithium-soap base grease
- 20 Apply molybdenum disulfide grease
- 21 Apply locking agent (LOCTITE®)

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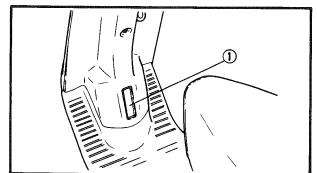


CHAPTER 1 GENERAL INFORMATION

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GENERAL INFORMATION

SCOOTER IDENTIFICATION

VEHICLE IDENTIFICATION NUMBER

The vehicle identification number ① is stamped into the frame.

Starti	ng Serial Num	ber:
SH50T	JYA2FU00	* HA000101

NOTE:

The vehicle identification number is used to identify your scooter and may be used to register your scooter with the licensing authority in your state.

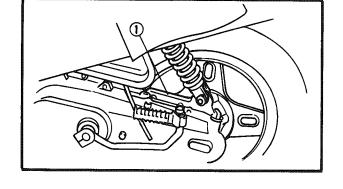
ENGINE SERIAL NUMBER

The engine serial number (1) is stamped into the crankcase.

Starting	Serial	Number
SH50T	2FL	J-000101

NOTE:

The first three digits of these numbers are for model identifications; the remaining digits are the unit production number.





IMPORTANT INFORMATION

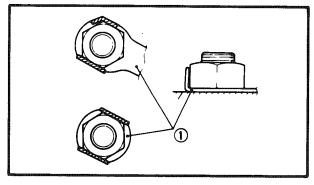
ALL REPLACEMENT PARTS

1. We recommend to use Yamaha genuine parts for all replacements. Use oil and/or grease recommended by Yamaha for assembly and adjustment.

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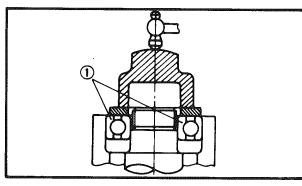
GASKETS, OIL SEALS, AND O-RINGS

- All gaskets, seals, and O-rings should be replaced when an engine is overhauled.
 All gasket surfaces, oil seal lips, and Orings must be cleaned.
- Properly oil all mating parts and bearings during reassembly. Apply grease to the oil seal lips.



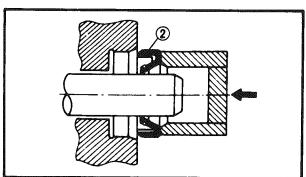
LOCK WASHERS/PLATES AND COTTER PINS

 All lock washers/plates ① and cotter pins must be replaced when they are removed. Lock tab(s) should be bent along the bolt or nut flat(s) after the bolt or nut has been properly tightened.



BEARINGS AND OIL SEALS

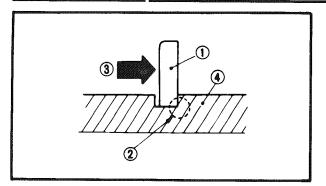
 Install the bearing(s) ① and oil seal(s)
 with their manufacture's marks or numbers facing outward. (In other words, the stamped letters must be on the side exposed to view.) When installing oil seal(s), apply a light coating of light-weight lithium base grease to the seal lip(s). Oil the bearings liberally when installing.



CAUTION:

Do not use compressed air to spin the bearings dry. This causes damage to the bearing surfaces.

IMPORTANT INFORMATION/SPECIAL TOOLS



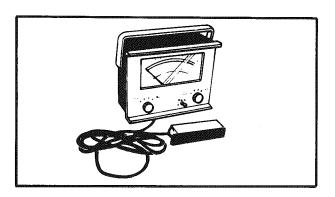
CIRCLIPS

1. All circlips should be inspected carefully before reassembly. Always replace piston pin clips after one use. Replace distorted circlips. When installing a circlip ①, make sure that the sharp-edged corner ② is positioned opposite to the thrust ③ it receives. See the sectional view.

Shaft

SPECIAL TOOLS

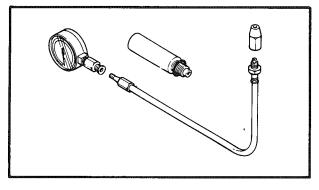
The proper special tools are necessary for complete and accurate tune-up and assembly. Using the correct special tool will help prevent damage caused by the use of improper tools or improvised techniques.



FOR TUNE-UP

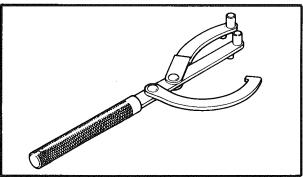
1. Inductive Tachometer P/N, YU-08036

This tool is needed for detecting engine rpm.



2. Compression Gauge P/N, YU-33223

This gauge is used to measure engine compression.



FOR ENGINE SERVICE

1. Flywheel Holding Tool P/N. YU-01235

This tool is used to the hold the flywheel magneto and clutch assembly when removing or installing the securing nut.