# YAMAHA FZS600 '98 5011-AE1

# SERVICE MANUAL

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#### NOTICE

This manual was produced by the Yamaha Motor Company 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, so it is assumed that anyone who uses this book to perform maintenance and repairs on Yamaha scooter has a basic understanding of the mechanical ideas and the procedures of scooter repair. Repairs attempted by anyone without this knowledge are likely to render the scooter unfit for use.

Yamaha Motor Company, Ltd. is continually striving to improve all 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 ar subject to change without notice.

#### **IMPORTANT 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 inspecting 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.

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#### 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 inspection procedures are laid out with the individual steps in sequential order.

①The manual is divided into chapters. An abbreviation and symbol in the upper right corner of each page indicate the current chapter. Refer to "SYMBOLS" on the following page.

②Each chapter is divided into sections. The current section title is shown at the top of each page, except in Chapter 3 ("Periodic Inspections and Adjustments"), where the sub-section title (-s) appear.

(In Chapter3, "Periodic Inspections and Adjustments", the sub-section title appears at the top of each page, instead of the section title.)

③Sub-section titles appear in smaller print than the section title.

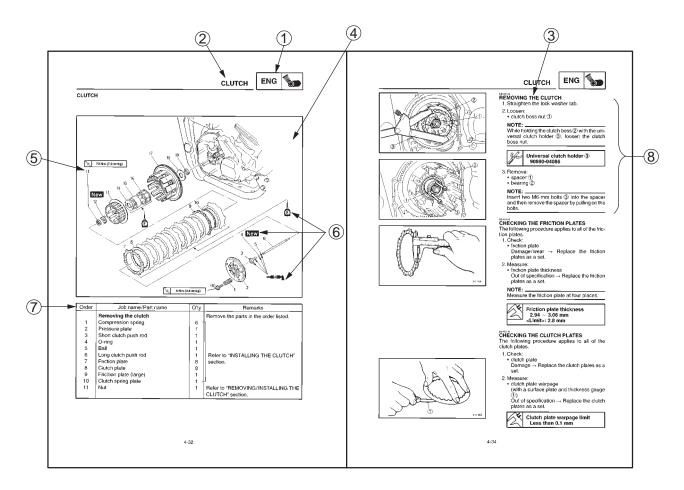
(4)To help identify parts and clarify procedure steps, there are exploded diagrams at the start of each removal and disassembly section.

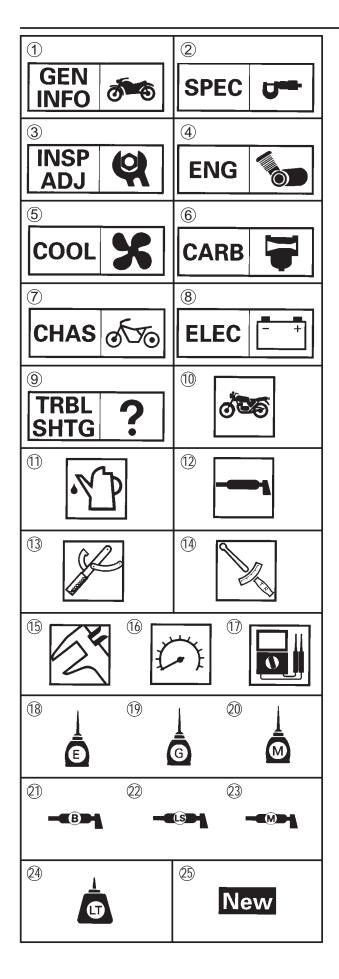
⑤Numbers are given in the order of the jobs in the exploded diagram. A circled number indicates a disassembly step.

6 Symbols indicate parts to be lubricated or replaced (see "SYMBOLS").

(7)A job instruction chart accompanies the exploded diagram, providing the order of jobs, names of parts, notes in jobs, etc.

(8) Jobs requiring more information (such as special tools and technical data) are descrided 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 inspection and adjustment
- ④ Engine
- (5) Cooling system
- 6 Carburetor(-s)
- $\bigcirc$  Chassis
- (8) Electrical system
- (9) Troubleshooting
- Symbols 0 to 0 indicate the following.
- 1 Serviceable with engine mounted
- Tilling fluid
- 12 Lubricant
- (13) Special tool
- (1) Tightening torque
- 15 Wear limit, clearance
- 16 Engine speed
- 1 Electrical data

Symbols (18) to (23) in the exploded diagrams indicate the types of lubricants and lubrication points.

(18) Apply engine oil

- (19) Apply gear oil
- (2) Apply molybdenum disulfide oil
- D Apply wheel bearing grease
- 2 Apply lightweight lithium-soap base grease

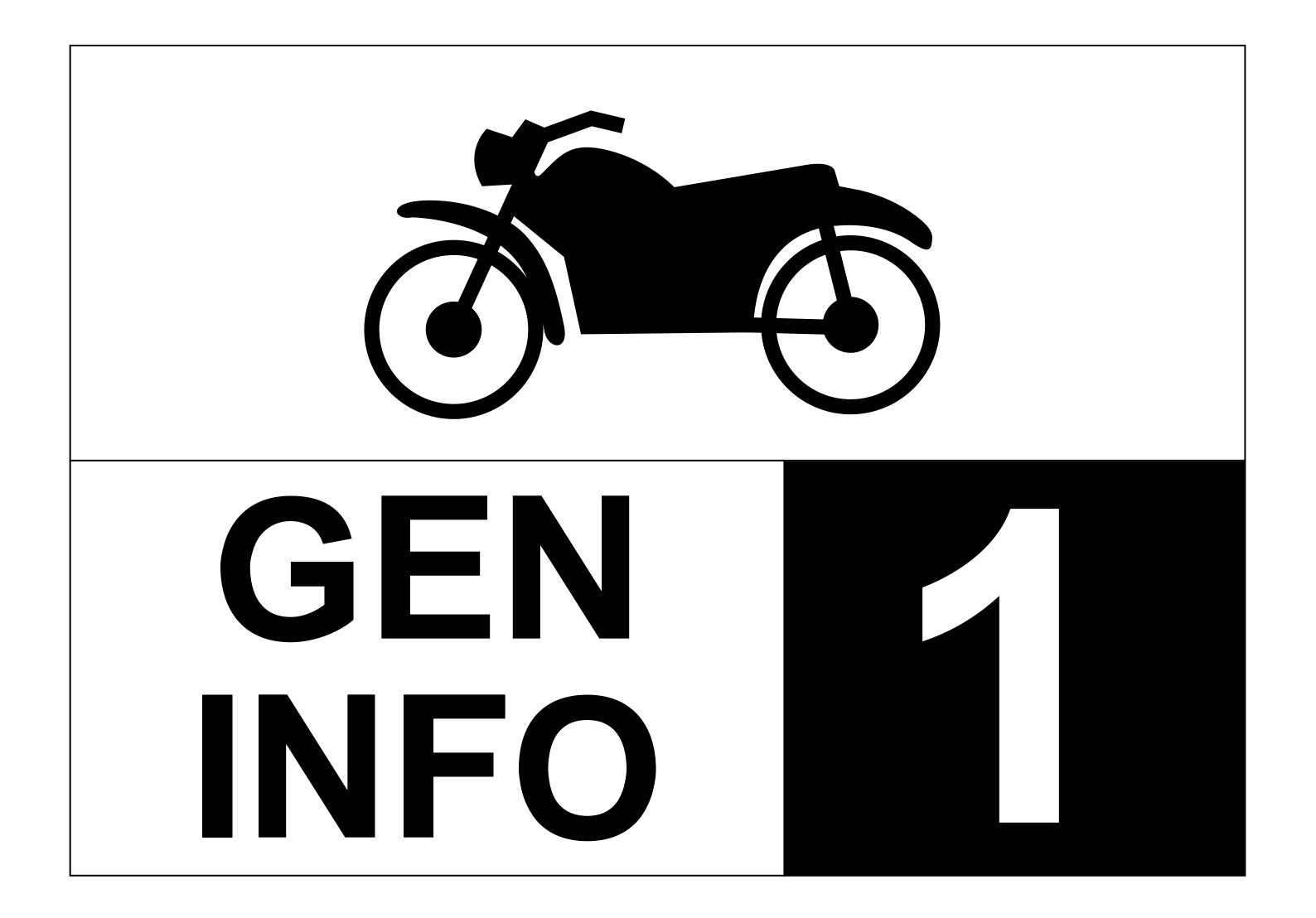
23 Apply molybdenum disulfide grease

Symbols (4) to (2) in the exploded diagrams indicate the following:

(2) Apply locking agent (LOCTITE<sup>®</sup>)
 (2) Use new one

# INDEX

GENERAL INFORMATION	GEN INFO
SPECIFICATIONS	SPEC 2
PERIODIC INSPECTIONS AND ADJUSTMENTS	CHK ADJ 3
ENGINE	ENG 4
COOLING SYSTEM	<b>X</b> COOL <b>5</b>
CARBURETORS	CARB 6
CHASSIS	ر CHAS 7
ELECTRICAL SYSTEM	ELEC 8
TROUBLESHOOTING	?TRBL SHTG9





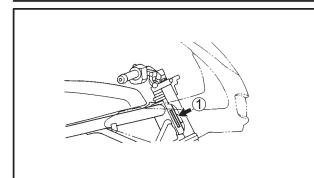
#### CHAPTER 1 GENERAL INFORMATION

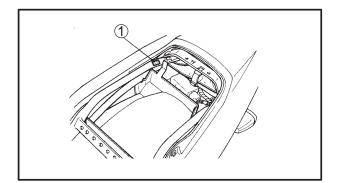
MOTORCYCLE IDENTIFICATION	1-1
VEHICLE IDENTIFICATION NUMBER	1-1
MODEL CODE	1-1
	1-2
PREPARATION FOR REMOVAL AND DISASSEMBLY	
REPLACEMENT PARTS	
GASKETS, OIL SEALS AND O-RINGS	1-2
LOCK WASHERS/PLATES AND COTTER PINS	
BEARINGS AND OIL SEALS	-
CIRCLIPS	-
CHECKING THE CONNECTIONS	
SPECIAL TOOLS	1-5



#### MOTORCYCLE IDENTIFICATION







#### GENERAL INFORMATION MOTORCYCLE IDENTIFICATION

# 

The vehicle identification number 1 is stamped into the right side of the steering head.

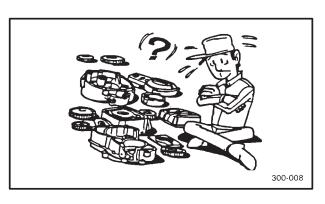
MODEL CODE

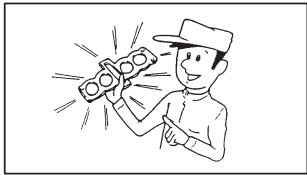
The model code label 1 is affixed to the frame. This information will be needed to order spare parts.

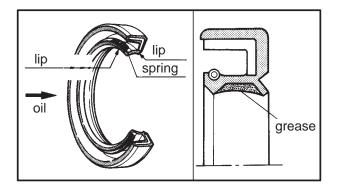


#### **IMPORTANT INFORMATION** PREPARATION FOR REMOVAL AND DISASSEMBLY

- 1. Before removal and disassembly, remove all dirt, mud, dust and foreign material.
- 2. Use only the proper tools and cleaning equipment.
- Refer to the "SPECIAL TOOLS" section.
- When disassembling, always keep mated parts together. This includes gears, cylinders, pistons and other parts that have been "mated" through normal wear. Mated parts must always be reused or re-
- placed as an assembly.
  During disassembly, clean all of the parts and place them in trays in the order of disassembly. This will speed up assembly and allow for the correct installation of all parts.
- 5. Keep all parts away from any source of fire.







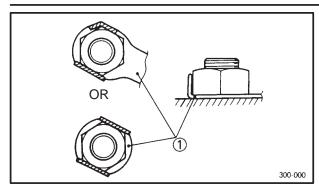
#### REPLACEMENT PARTS

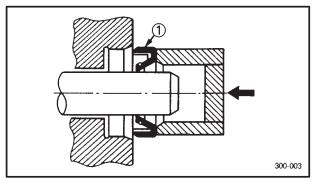
 Use only genuine Yamaha parts for all replacements. Use oil and grease recommended by Yamaha for all lubrication jobs. Other brands may be similar in-function and appearance, but inferior in quality.

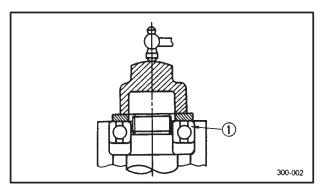
#### GASKETS, OIL SEALS AND O-RINGS

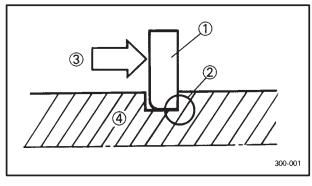
- 1. When overhauling the engine, replace all gaskets, seals and O-rings. All gasket surfaces, oil seal lips and O-rings must be cleaned.
- 2. During reassembly, properly oil all mating parts and bearings and apply grease onto the oil seal lips.











#### LOCK WASHERS/PLATES AND COTTER PINS

1. After removal, replace all lock washers/ plates ① and cotter pins. After the bolt or nut has been tightened to specification, bend the lock tabs along a flat of the bolt or nut.

#### BEARINGS AND OIL SEALS

1. Install bearings and oil seals so that the manufacturer's marks or numbers are visible. When installing oil seals, apply a light coat of lithium soap base grease onto the oil seal lips. Oil bearings liberally when installing, if appropriate.

1 Oil seal

#### **CAUTION:**

Do not spin the bearing with compressed air because this will damage the bearing surfaces.

① Bearing

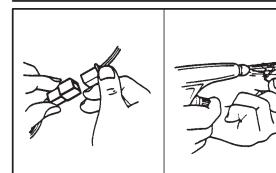
#### CIRCLIPS

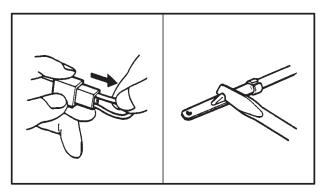
 Before reassembly, check all circlips carefully and replace damaged or distorted circlips. Always replace piston pin clips after one use. When installing a circlips ①, make sure that the sharp-edged corner ②, is positioned opposite the thrust ③ that the circlip receives.

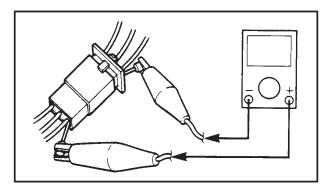
④ Shaft

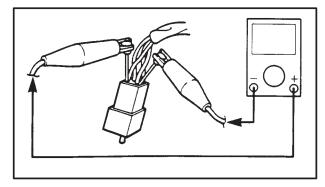
#### **CHECKING THE CONNECTIONS**











### CHECKING THE CONNECTIONS

Check the leads, couplers, and connectors for stains, rust, moisture, etc.

1. Disconnect:

- lead
- coupler
- connector
- 2. Check:
  - lead
  - coupler
  - connector Moisture →Dry with an air blower. Rust/stains → Connect and disconnect several times.

3. Check:

• all connections

Loose connection  $\rightarrow$  Connect properly.

#### NOTE:

If the pin 2 on the terminal is flattened, bend in up.

- 4. Connect:
  - lead
  - coupler
  - connector

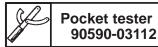
#### NOTE:

Make sure that all connections are tight.

#### 5. Check:

continuity

(with a pocket tester)



#### NOTE: .

- If there is no continuity, clean the terminals.
- When checking the wire harness, perform steps 1 to 3.
- As a quick remedy, use a contact revitalizer available at most part stores.



## SPECIAL TOOLS

The following special tools are necessary for complete and accurate tune-up and assembly. Use only the appropriate special tools as this will help prevent damage caused by the use of inappropriate tools or improvised techniques. When placing an order, refer to the list provided below to avoid any mistakes.

Tool No.	Tool name/Usage	Illustration
90890-01268	Ring nut wrench	
	This tool is used to loosen and tighten the steering ringnut.	<u>G</u>
90890-01304	Piston pin puller	D John Mark
	This tool is used to remove the piston pin.	6 0
90890-01460 -01326	Damper rod holder ① T-handle ②	1 2 >>>
	These tool ar used for holding the damper rod when removing or installing the damper rod.	es es
90890-01312	Fuel level gauge	
	This gauge is used to measure the fuel level in the float chamber.	
90890-01325 -01352	Radiator cap tester ① Adaptor ②	
	These tools are used for checking the cooling system.	
90890-01362 -01382	Flywheel puller ① Crank shaft protector ②	
	These tools are used for removing the rotor and starter clutch.	TT OF
90890-01367 -01381	Fork seal driver weight Fork seal driver attachment (ø41 mm)	
	These tools are used when installing the forkseal.	



	1	
Tool No.	Tool name/Usage	Illustration
90890-01399	Special thickness gauge This tool is used to measure the valve clearance.	0.15 0 02 0.05 0.02 0.02 0.02
90890-01401	Spark plug wrench	
	This tool is used for removing or installing the spark plug.	
90890-01403	Ring nut wrench	
	This tool is used to tighten the steering ring nut.	E .
90890-01469	Oil filter wrench	
	This tool is used for removing or installing the oil filter.	
90890-01701	Sheave holder	1000 million (1000 million (10
00000 00004	This tool is used for holding the magneto rotor.	
90890-03081	Compression gauge This tool is used to measure the engine compression	
90890-03094	Vacuum gauge	
	This tool is used to measure the synchronizing the carburetors.	
90890-03112	Pocket tester ① These instruments are invaluable for checking the electrical system.	
90890-03133	Engine tachometer	
	This tool is needed for detecting engine rpm.	₩
90890-03153 -03139	Oil pressure gauge Oil pressure adaptor H	
	These tools are used to measure the engine oil pressure.	



Tool No.	Tool name/Usage	Illustration
90890-03141	Timing light This tool is necessary for checking ignition timing.	
90890-04044	Piston ring compressor This tool is used to compress piston rings	
	when installing the cylinder.	
90890-03158	Carburetor angle driver This tool is used to adjust the pilot screw.	the second se
	· ·	
90890-04086	Clutch holding tool	
	This tool is used for holding the clutch boss.	(JP
90890-04101	Valve lapper This tool is used for removing and installing	
	the valve lifter and for lapping the valve.	· · · · · · · · · · · · · · · · · · ·
90890-04111	Valve guide remover (4.0 mm) This tool is used to remove the valve guides.	
90890-04112	Valve guide installer (4.0 mm)	
	This tool is needed to install the valve guides properly.	
90890-04113	Valve guide reamer (4.0 mm) This tool is used to rebore the new valve guide.	E A A A A A A A A A A A A A A A A A A A
90890-04019 -04114	Valve spring compressor ① Valve spring compressor attachment ② These tools are used when removing or installing the valve and the valve spring.	
90890-06754	Ignition checker This instrument is necessary for checking the ignition system components.	

Tool No.	Tool name/Usage	Illustration
90890-85505	Yamaha bond No.1215 This sealant (bond) is used for crankcase mating surface, etc.	



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