

**YAMAHA**

# **TTR250L(C)**

**300+1+1color**

# **SERVICE MANUAL**

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**TTR250L(C)  
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 motorcycles has a basic understanding of the mechanical ideas and the procedures of motorcycle repair. Repairs attempted by anyone without this knowledge are likely to render the motorcycle unsafe and 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 are subject to change without notice.

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## IMPORTANT INFORMATION

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



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



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.



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.

# HOW TO USE THIS MANUAL

## MANUAL ORGANIZATION

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

## PAGE FEATURES

The circled numbers below refer to the features indicated in the sample page.

① : An abbreviation and symbol in the upper right corner of each page indicates the current chapter.

② : The current section title is shown at the top of each page.†

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

④ : Lines of asterisks (\*) mark the beginning and end of a particularly important procedure. The steps of such procedures are marked with bullets (•).

⑤ : Important information such as fluids, special tools and torques are framed and marked with a corresponding symbol.

⑥ : A circled number refers to an illustrated part.

⑦ : A circled lower case letter refers to an illustrated dimension or alignment mark.

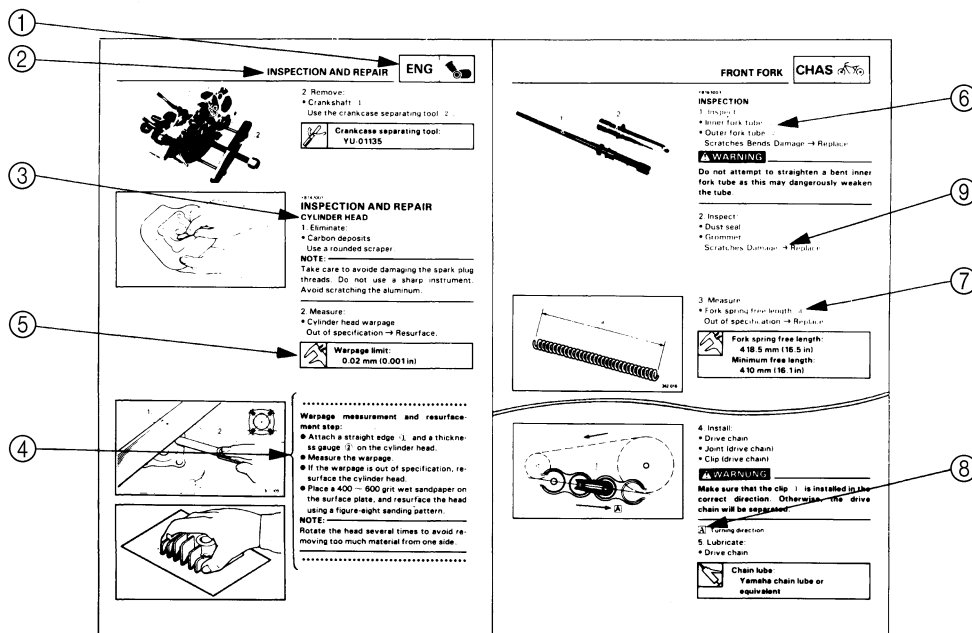
⑧ : An upper case letter in a box refers to other illustrated details.

⑨ : An arrow mark after a given defect suggests the recommended course of action.

† : In Chapter 3, "Periodic Inspection and Adjustment", it is usually the current sub-section title that appears at the top of each page, instead of the current section title.

## EXPLODED DIAGRAMS

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



**ILLUSTRATED SYMBOLS**

Illustrated symbols ① to ⑧ are printed on the top right of each page and indicate the subject of each chapter.

- ① General information
- ② Specifications
- ③ Periodic inspections and adjustments
- ④ Engine overhaul
- ⑤ Carburetor
- ⑥ Chassis
- ⑦ Electrical
- ⑧ Troubleshooting

Illustrated symbols ⑨ to ⑮ are used to identify the specifications appearing in the text.

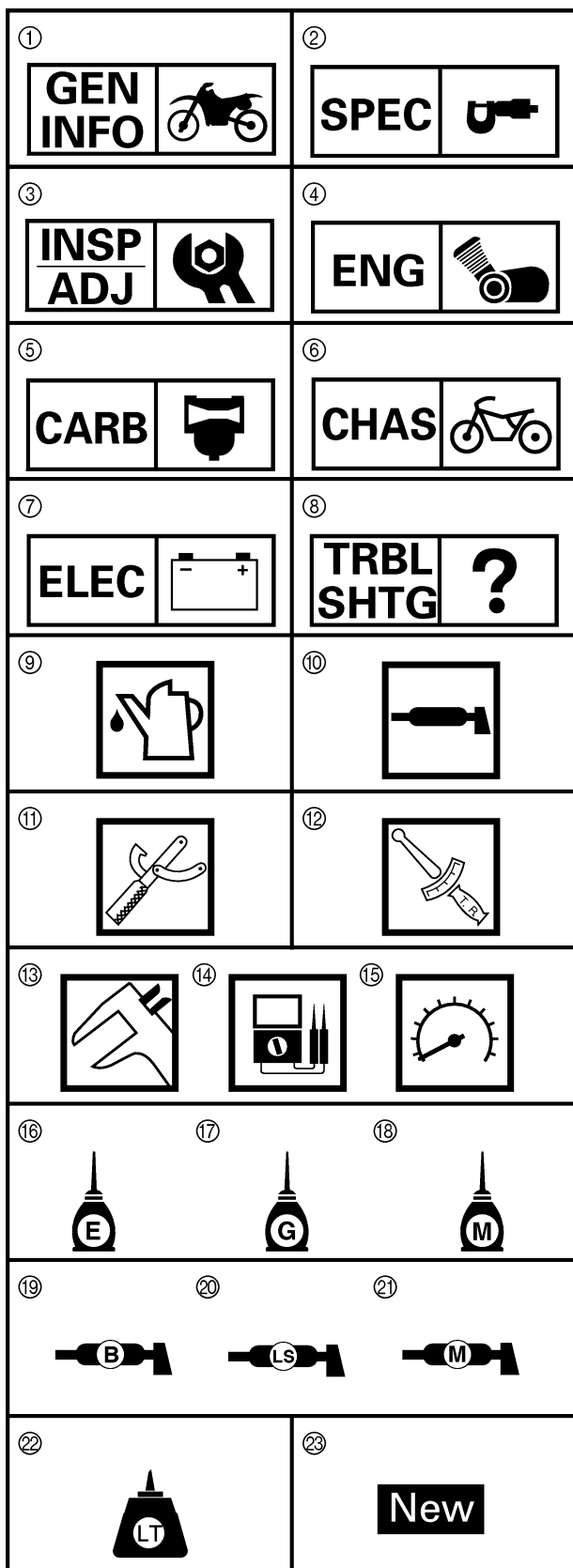
- ⑨ Filling fluid
- ⑩ Lubricant
- ⑪ Special tool
- ⑫ Torque
- ⑬ Wear limit, clearance
- ⑭ Engine speed
- ⑮  $\Omega$ , V, A

Illustrated symbols ⑯ to ⑳ in the exploded diagrams indicate the types of lubricants and lubrication points.









- ⑯ Apply engine oil
- ⑰ Apply gear oil
- ⑱ Apply molybdenum disulfide oil
- ⑲ Apply wheel bearing grease
- ⑳ Apply lightweight lithium-soap base grease
- ㉑ Apply molybdenum disulfide grease

Illustrated symbols ㉒ to ㉓ in the exploded diagrams indicate where to apply a locking agent ㉒ and when to install a new part ㉓.

- ㉒ Apply the locking agent (LOCTITE®)
- ㉓ Replace



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
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

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
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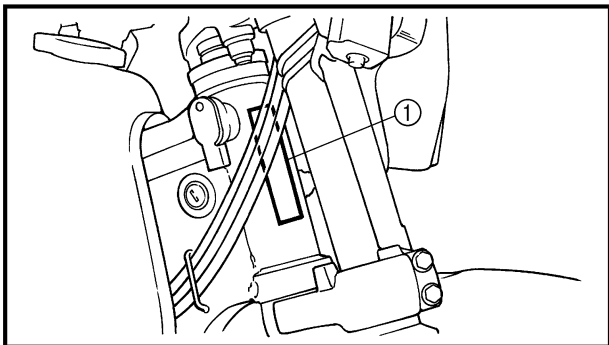
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## **CHAPTER 8. TROUBLESHOOTING**

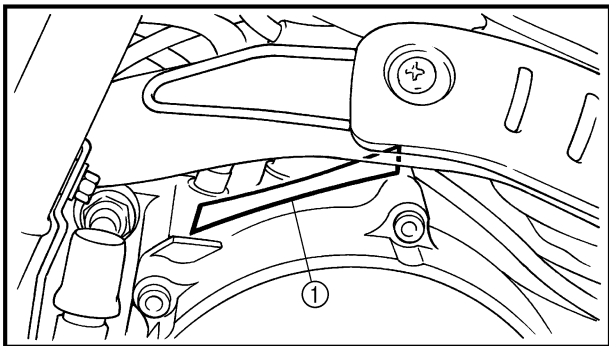
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**GENERAL INFORMATION**  
**MOTORCYCLE IDENTIFICATION**  
**VEHICLE IDENTIFICATION NUMBER**

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

**NOTE:** \_\_\_\_\_  
The vehicle identification number is used to identify your motorcycle and may be used to register your motorcycle with the licensing authority in your state.



**ENGINE SERIAL NUMBER**

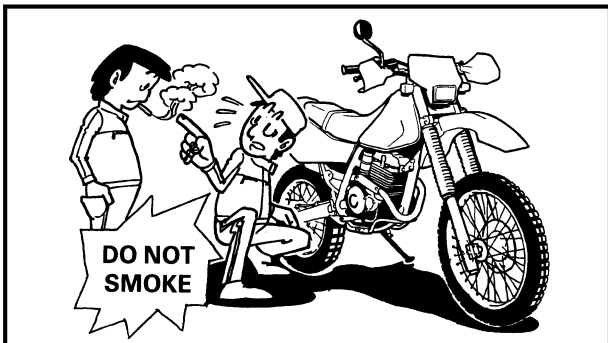
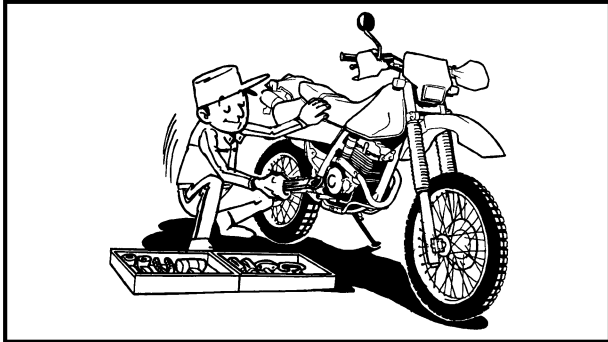
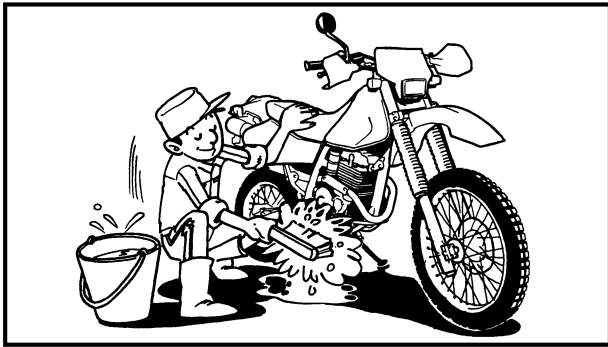
The engine serial number ① is stamped into the elevated part of the right rear section of the engine.

**NOTE:** \_\_\_\_\_  

- The first three digits of these numbers are for model identifications; the remaining digits are the unit production number.
- Designs and specifications are subject to change without notice.



1



**IMPORTANT INFORMATION  
PREPARATION FOR REMOVAL AND  
DISASSEMBLY**

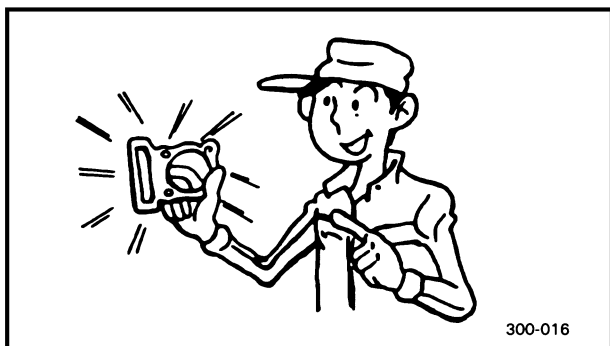
1. Remove all dirt, mud, dust, and foreign material before removing and disassembling.

2. Use proper tools and cleaning equipment. Refer to "SPECIAL TOOLS".

3. When disassembling the motorcycle keep mated parts together. This includes gears, cylinder, piston and other mated parts that have been "mated" through normal wear. Mated parts must be reused as an assembly or replaced.

4. During the motorcycle disassembly, clean all parts and place them in trays in the order of disassembly. This will speed up assembly time and help assure that all parts are correctly reinstalled.

5. Keep away from fire.



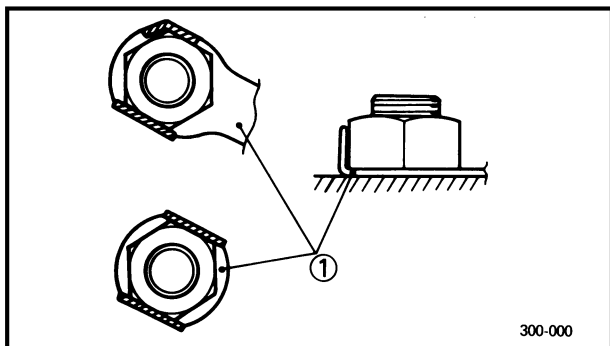
**ALL REPLACEMENT PARTS**

1. Use only genuine Yamaha parts for all replacements. Use oil and/or grease recommended by Yamaha for assembly and adjustment. Other brands may be similar in function and appearance, but inferior in quality.

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

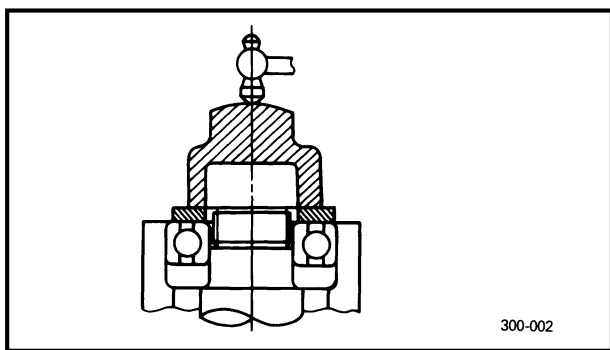
1. All gaskets, seals and O-rings should be replaced when an engine is overhauled. All gasket surfaces oil seal lips and O-rings must be cleaned.

2. Properly oil all mating parts and bearings during reassembly. Apply grease to the oil seal lips.



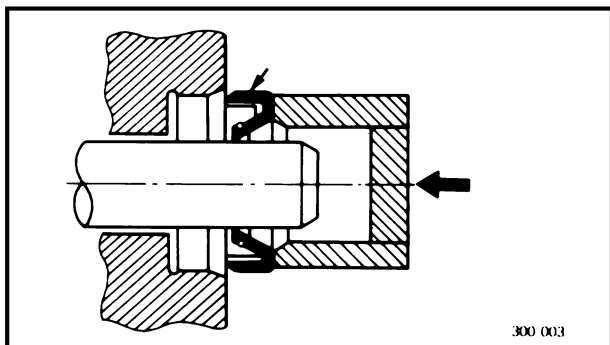
**LOCK WASHERS/PLATES AND COTTER PINS**

1. 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**

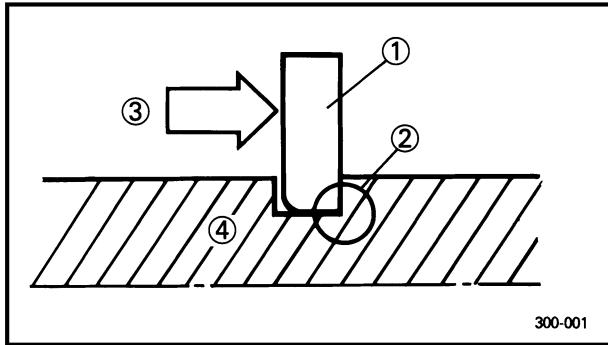
1. Install the bearing(s) ① and oil seal(s) ② with their manufacturer's marks or numbers facing outward. (In other words, the stamped letters must be on the side exposed to view.) When installing oil seal(s), apply a light coating of light-weight lithium base grease to the seal lip(s). Oil the bearings liberally when installing.



**CAUTION:**

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





**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.

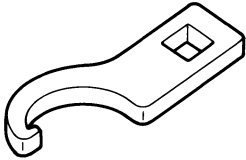
④ Shaft

**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.

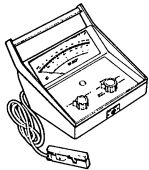
**FOR TUNE UP**

1  
Steering nut wrench  
P/N. YU-33975



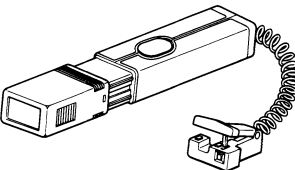
This tool is used to adjust the spring preload of rear shock absorber.

2  
Inductive tachometer  
P/N. YU-8036-A



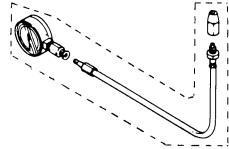
This tool is needed for detecting engine r/min.

3  
Inductive timing light  
P/N. YM-33277-A



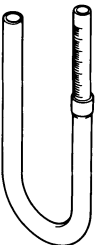
This tool is necessary for checking ignition timing.

4  
Compression gauge  
P/N. YU-33223  
Adapter (M12)  
P/N. YU-33223-3



These gauges are used to measure the engine compression.

5  
Fuel level gauge  
P/N. YM-01312-A



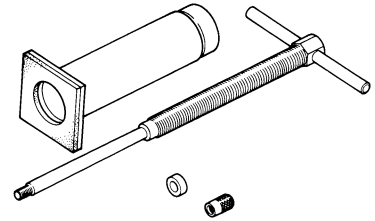
This gauge is used to measure the fuel level in the float chamber.



**FOR ENGINE SERVICE**

1

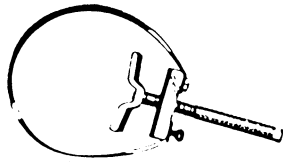
Piston pin puller  
P/N. YU-01304



This tool is used to remove the piston pin.

2

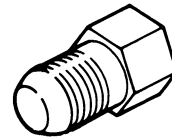
Sheave holder  
P/N. YS-01880



This tool is used to hold the rotor when removing or installing the rotor securing nut.

3

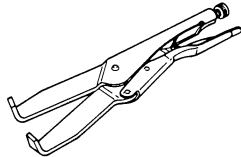
Rotor puller  
P/N. 2K7-85555-00



This tool is used to remove the rotor.

4

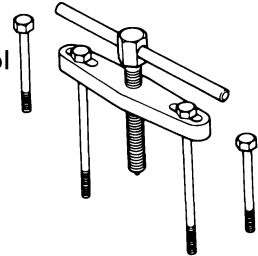
Universal clutch holder  
P/N. YM-91042



This tool is used to hold the clutch when removing or installing the clutch boss locknut.

5

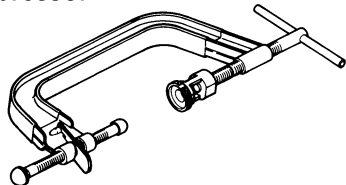
Crankcase separating tool  
P/N. YU-01135-A



This tool is necessary to remove the crankshaft.

6

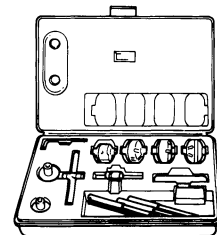
Valve spring compressor  
P/N. YM-04019



This tool is needed to remove and install the valve assemblies.

7

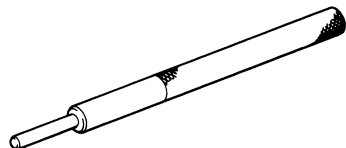
Valve seat cutter set  
P/N. YM-91043



This tool is needed to resurface the valve seat.

8

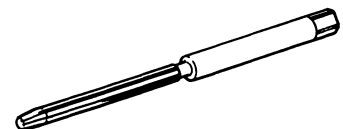
Valve guide remover 5 mm (0.20 in)  
P/N. YM-04097



This tool is used to remove the valve guides.

9

Valve guide reamer 5 mm (0.20 in)  
P/N. YM-04099

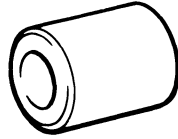


This tool is used to rebore the new valve guide.



10

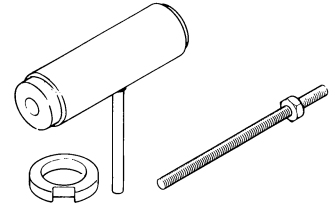
Valve guide installer 5 mm (0.20 in)  
P/N. YM-04098



This tool is needed to install the valve guides properly.

11

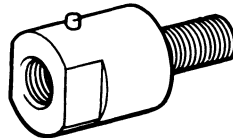
Crankshaft installing set  
P/N. YU-90050



These tools are used to install the crankshaft.

12

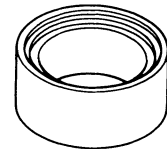
Adapter (M10)  
P/N. YU-90062



This tool is used to install the crankshaft.

13

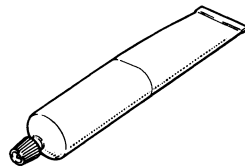
Crank pot spacer  
P/N. YU-01202



This tool is used to install the crankshaft.

14

Quick Gasket®  
P/N. ACC-11001-05-01

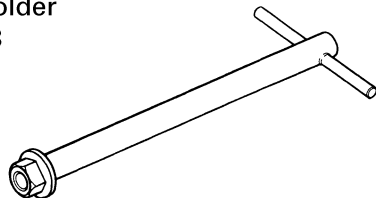


This sealant (bond) is used for crankcase mating surfaces, etc.

**FOR CHASSIS SERVICE**

1

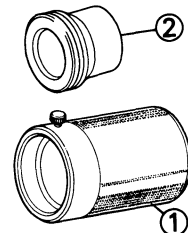
Damper rod holder  
P/N. YM-01418



This tool is used to loosen and tighten the damper rod holding bolt.

2

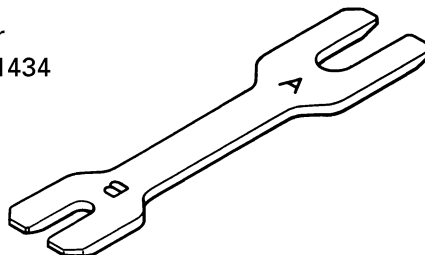
Front fork seal drive weight  
P/N. YM-33963-①  
Adapter 43 mm (1.69 in)  
P/N. YM-8020-②



These tools are used when installing the fork oil seal.

3

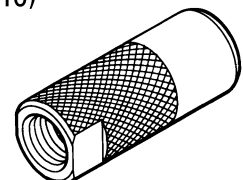
Rod holder  
P/N. YM-01434



This tool is used to hold the fork spring.

4

Rod puller attachment (M10)  
P/N. 90890-01436

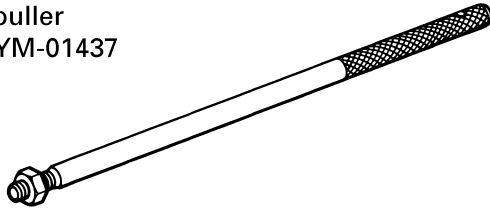


This tool is used to pull up the fork damper rod.



5

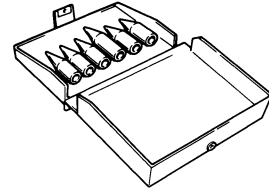
Rod puller  
P/N. YM-01437



This tool is used to pull up the fork damper

6

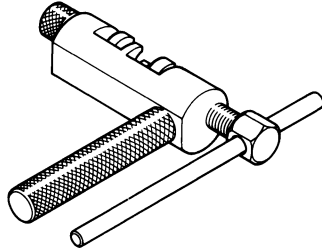
Cylinder cup installer  
P/N. 90890-01996



This tool is used to install the master cylinder kit.

7

Drive chain cutter  
P/N. YM-33858

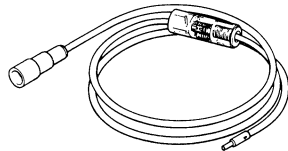


This tool is used to cut and join the drive chain.

## FOR ELECTRICAL COMPONENTS

1

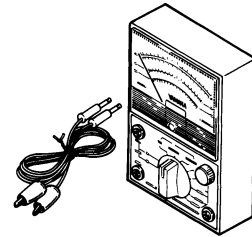
Dynamic spark tester  
P/N. YM-34487



This instrument is necessary for checking the ignition system components.

2

Pocket tester  
P/N. YU-03112



This instrument is used for checking the electrical system.