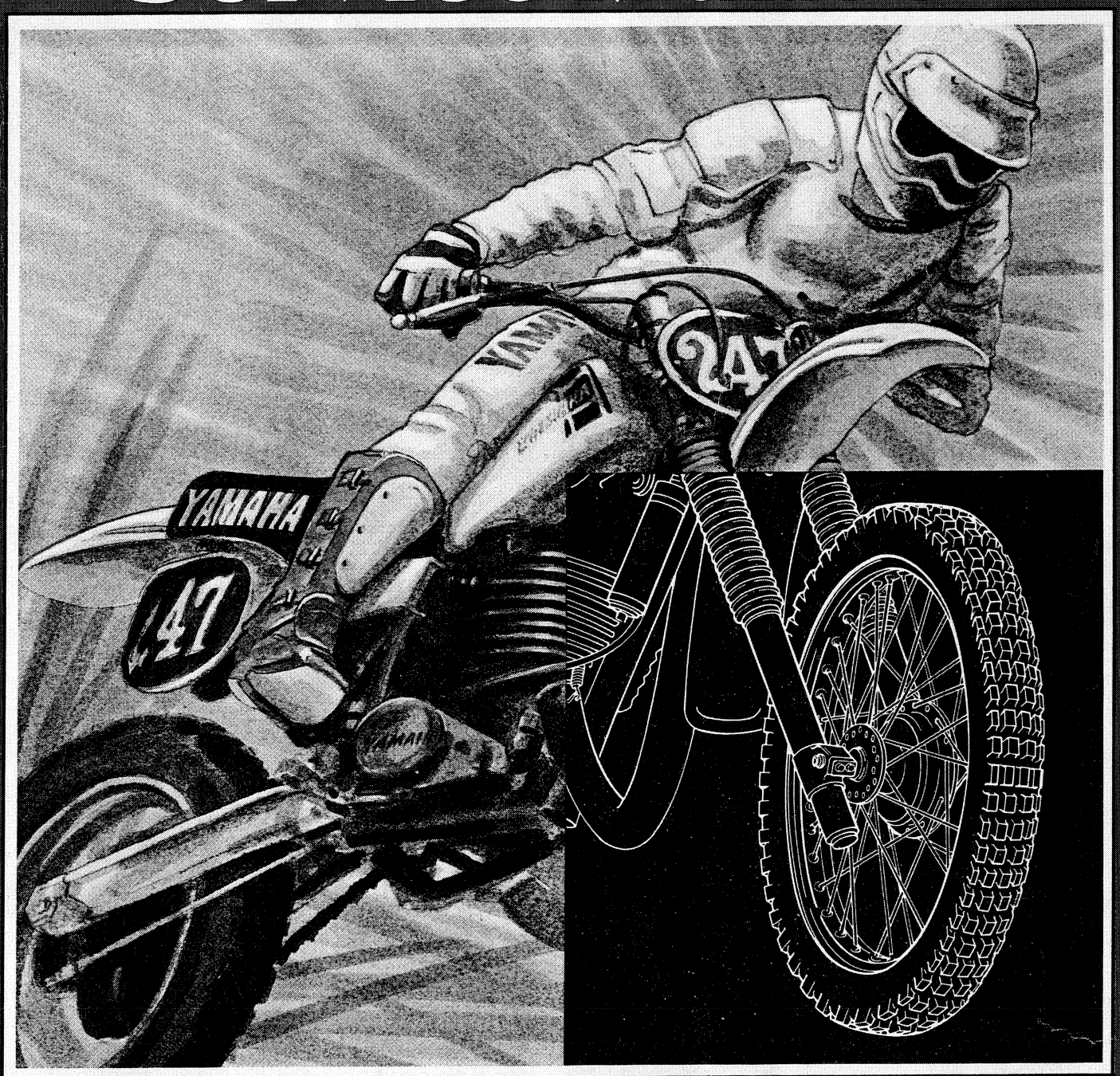
Genuine

YAMAHA

TT 350 S

Service Manual



- SPECIFICATIONS
- EXPLODED VIEWS
- RECOMMENDED MAINTENANCE
- TUNE-UP AND OVERHAUL PROCEDURES

LIT-11616-05-17

YAMAHA

TT350S

Service Manual

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TT350S
SERVICE MANUAL

1st Edition, October 1985

Printed in U.S.A.
P/N LIT-11616-05-17

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 machines have a basic understanding of the mechanical concepts and procedures inherent to machine repair technology. Without such knowledge, attempted repairs or service to this model may render it unfit to use and/or unsafe.

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 machine.

WARNING: A WARNING indicates special procedures that must be followed to avoid injury to a machine operator or person inspecting or repairing the machine.

MANUAL FORMAT

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

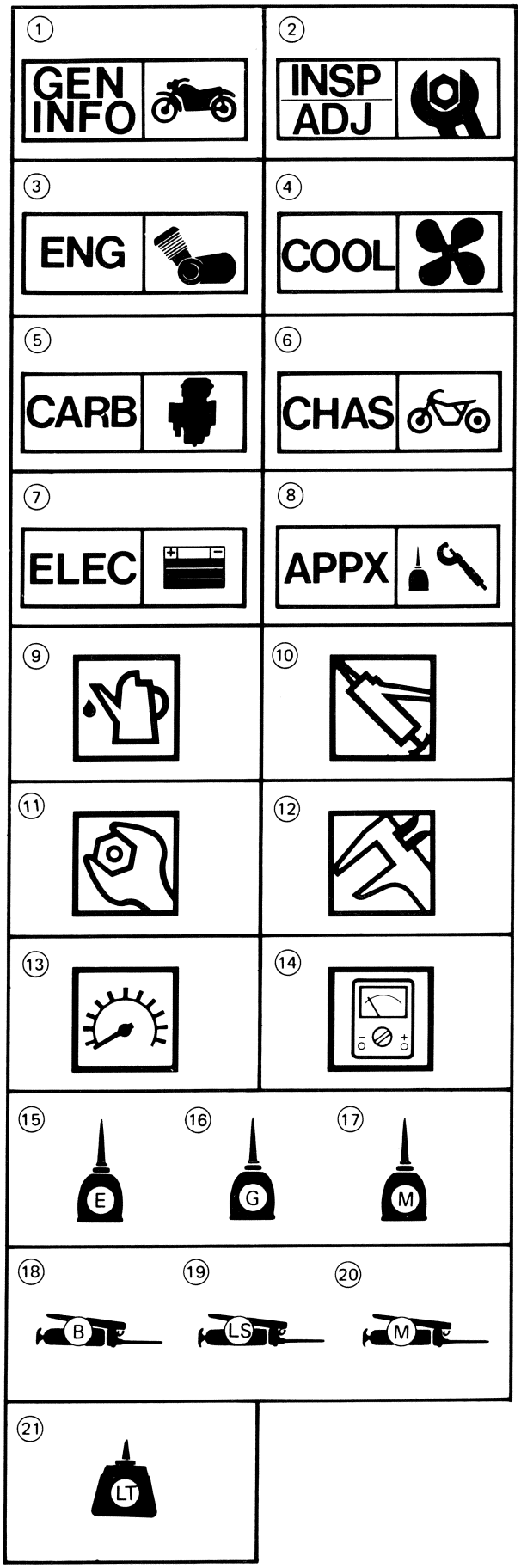
In this revised format, the condition of a faulty component will precede an arrow symbol and the course of action required will follow the symbol, e.g.,

- Bearing;

Pitting/Damage → Replace.

EXPLODED DIAGRAM

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



SYMBOL MARKS (Refer to the illustration)

Symbol marks 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

Symbol marks ⑨ to ⑭ indicate specific data as the following items:

⑨ Recommended liquid
⑩ Recommended grease
⑪ Tightening torque
⑫ Wear limit
⑬ Engine speed
⑭ Ω, V, A

Symbol marks ⑮ to ㉑ in the exploded diagram indicate grade of lubricant and location of lubrication point.

⑮ Apply engine oil
⑯ Apply gear oil
⑰ 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 ®)

Being a Yamaha owner, you obviously prefer a quality product.

gĕn·ū·ĭne

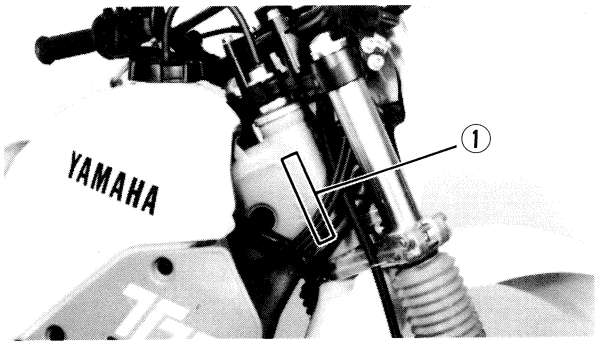
adj. 1. Real 2. Authentic, not artificial 3. Yamaha.

GENUINE **YAMAHA** PARTS & ACCESSORIES

Don't compromise the quality and performance of your Yamaha with off-brand alternatives. You'll be getting exactly what you're paying for.

INDEX

CHAPTER 1.
GENERAL INFORMATION



GENERAL INFORMATION

MACHINE IDENTIFICATION

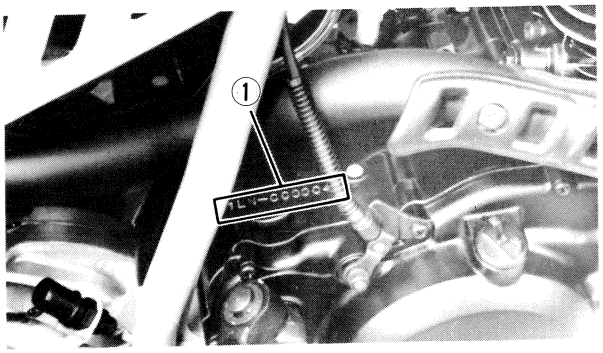
VEHICLE IDENTIFICATION NUMBER

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

NOTE:

The Vehicle identification number is used to identify your machine and may be used to register your machine with the licensing outhority in your state.

Starting Serial Number:
JYA1RG00*GA00101



ENGINE SERIAL NUMBER

The engine serial number ① is stamped into the left side of the engine.

NOTE:

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

Stating Serial Number:
1RG-000101

NOTE:

Designs and specifications are subject to change without notice.

IMPORTANT INFORMATION

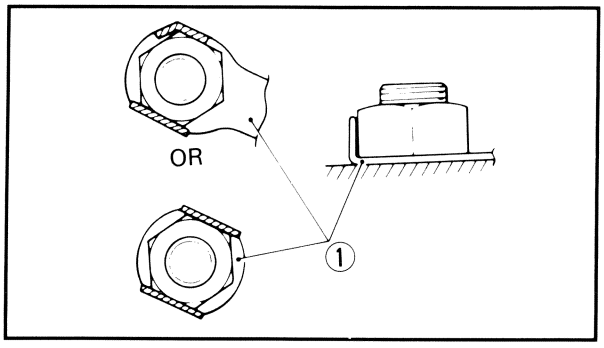
ALL REPLACEMENT PARTS

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

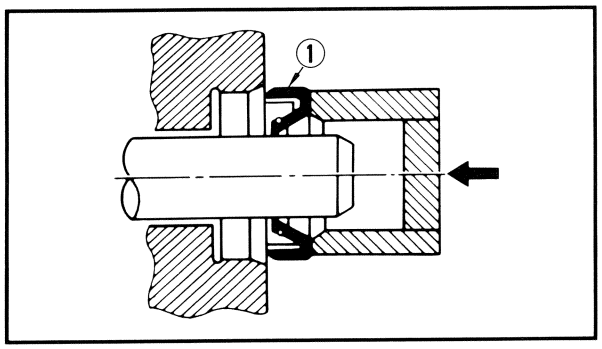
1. All gaskets, seals and O-rings should be replaced when an engine is overhauled. All gasket surfaces, oil seal lips and O-rings must be cleaned.

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



LOCK WASHERS/PLATES AND COTTER PINS

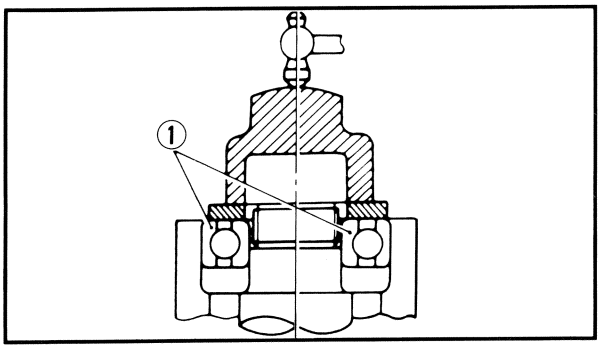
1. All lock washers/Plates (1) and cotter pins must be replaced when they are removed. Lock tab(s) should be bent along the bolt or nut flat(s) after the bolt or nut has been properly tightened.



BEARINGS AND OIL SEALS

1. Install the bearing(s) and oil seal(s) 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.

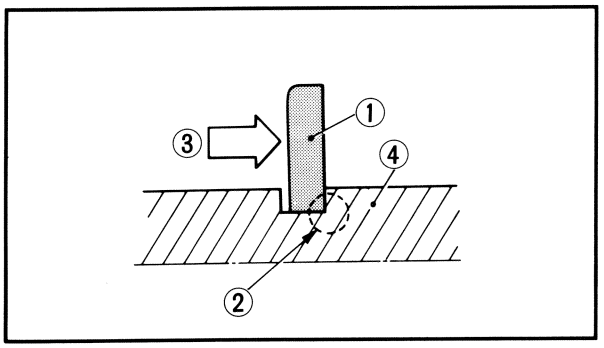
① Oil seal



CAUTION:

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

① Bearing



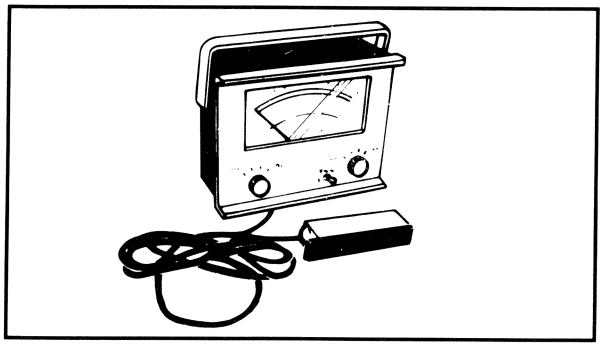
CIRCLIPS

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

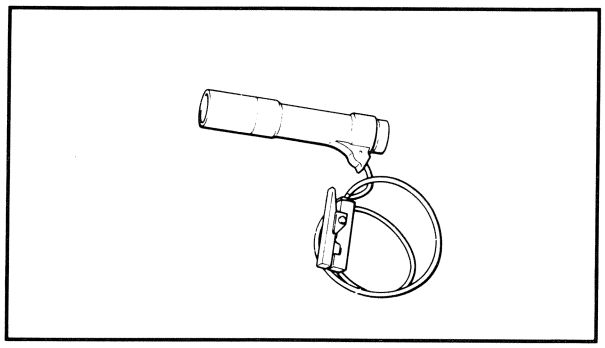
The proper special tools are necessary for complete and accurate tune-up and assembly. Using the correct special tool will help prevent damage caused by the use of improper tools or improvised techniques.



FOR TUNE UP

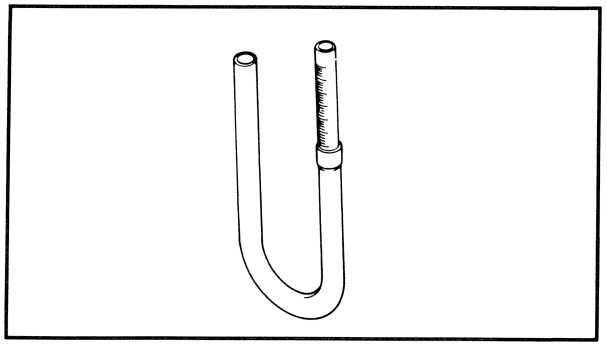
1. Inductive Tachometer
   P/N YU-08036

This tool is needed for detecting engine rpm.



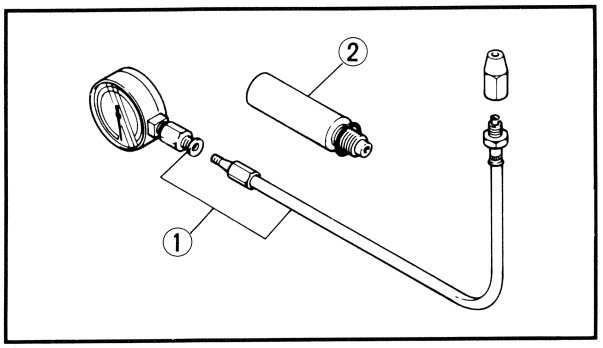
2. Inductive Timing Light
   P/N YM-33277

This tool is necessary for adjusting timing.



3. Fuel Level Gauge
   P/N YM-01312

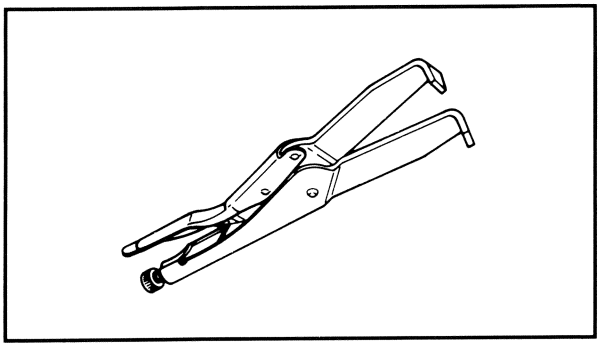
This gauge is used to measure the fuel level in the float chamber.



4. Compression Gauge — ①
   P/N YU-33223
   Attachment — ②
   P/N YU-33223-3

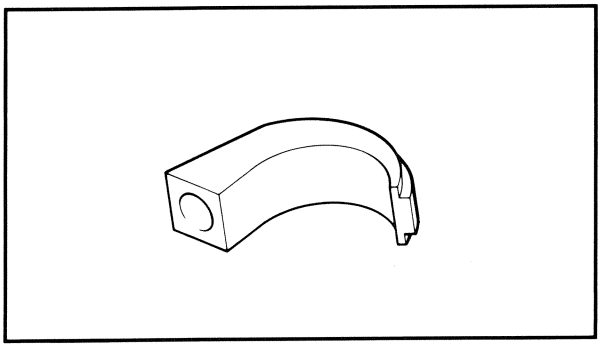
This gauge is used to measure the engine compression.

FOR ENGINE SERVICE



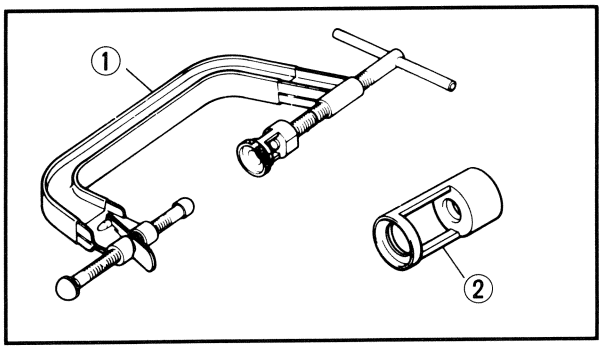
1. Vniversal Clutch Holder
   P/N YU-91042

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



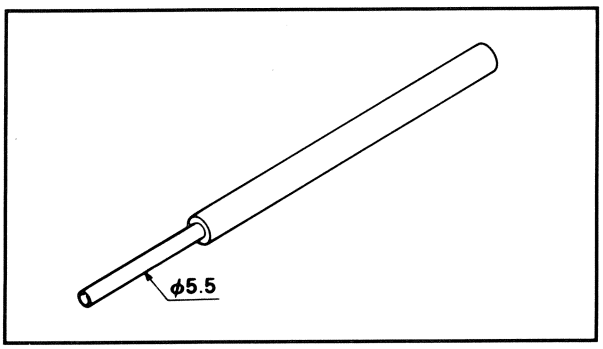
2. Valve Adjusting Tool
   P/N YM-4106

This tool is necessary to replace valve adjusting pads.



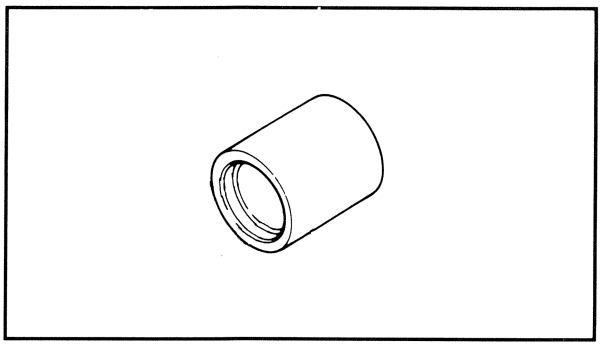
3. Valve Spring Compressor — ①
   P/N YM-04019
   Valve Spring Attachment — ②
   P/N YM-4108

These tools are used when removing and installing the valve assembly.



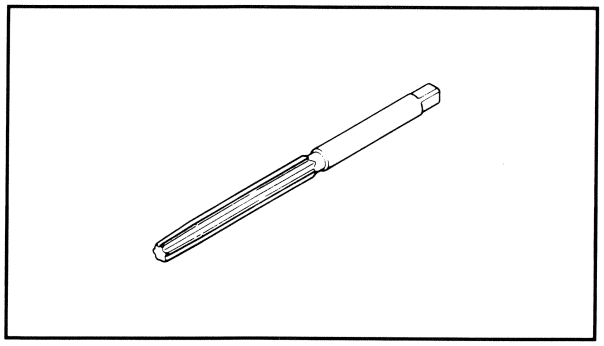
4. Valve Guide Remover
   P/N YM-01122

This tool must be used to remove the valve guides.



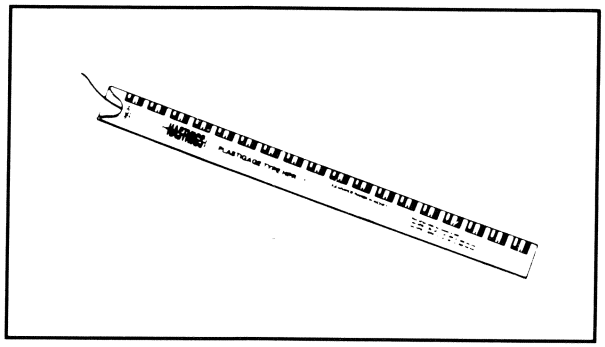
5. Valve Guide Installer
   P/N YM-4015

This tool is needed for proper installation of the valve guides.



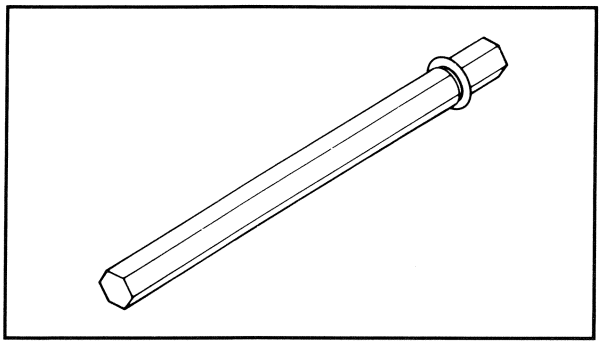
6. Valve Guide Reamer
   P/N YM-01196

This tool must be used when replacing the valve guide.



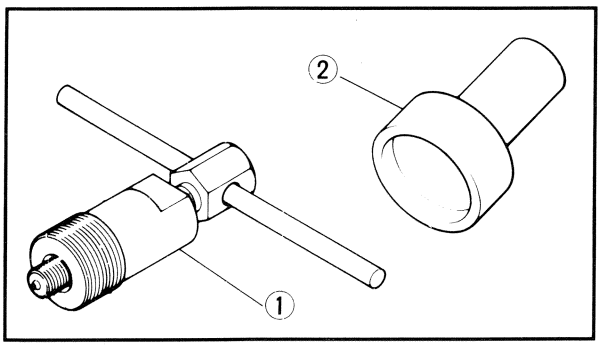
7. Plastigauge Set "Green"
   P/N YU-33210

This tool is needed when measuring clearance for camshaft cap.



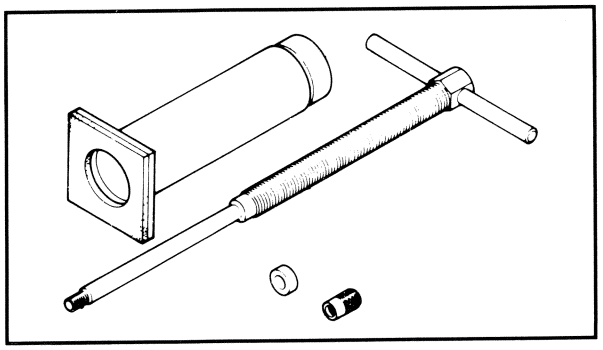
8. 8 mm (0.32 in.) Wrench Adapter
   P/N YM-28897

This tool is used to retighten the cylinder read securing bolts.



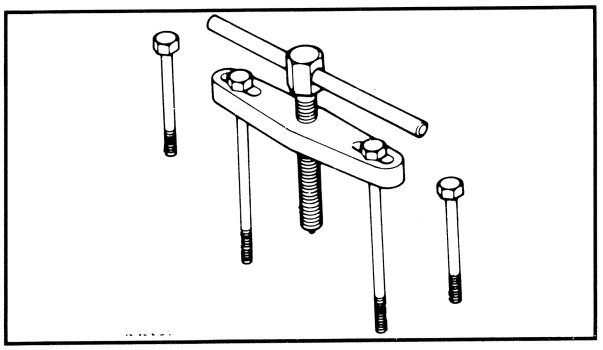
9. Flywheel Puller — ①
   P/N YM-01189
   Adapter — ②
   P/N YM-1382

These tools are used for removing the flywheel.



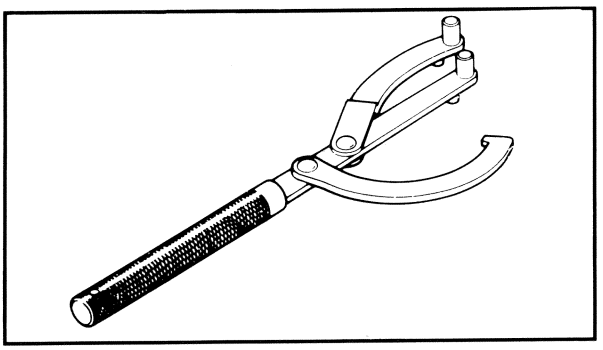
10. Piston Pin Puller
P/N YU-01304

This tool is used to remove the piston pin.



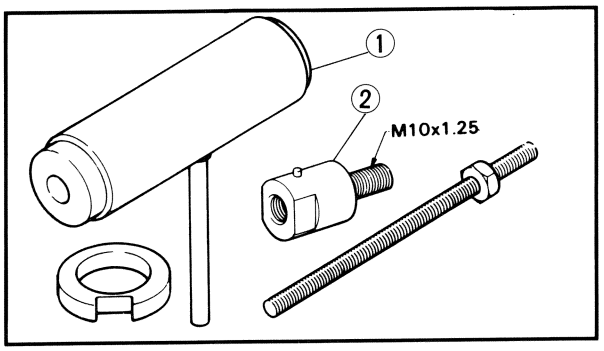
11. Crankcase-Separator
P/N YU-01135

This tool is used for removing the crankshaft from the crankcase.



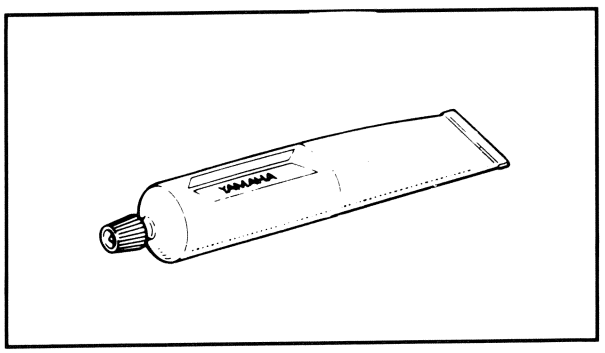
12. Rotor Holder
P/N YU-01235

This fool is used when loosening or tightening the flywheel magneto securing bolt.



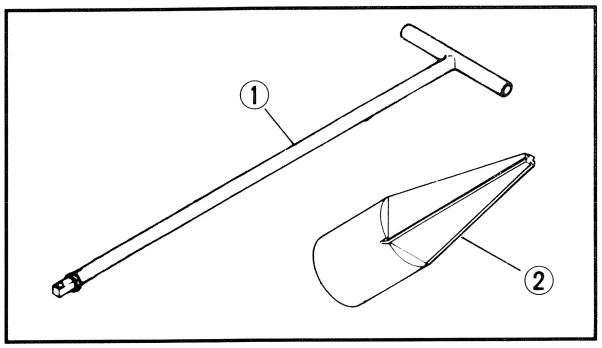
13. Crankshaft Installing Set ___ ①
P/N YU-90050
Adapter _____ ②
P/N YM-1383

These tools are used when installing the crankshaft.



14. Quick Gasket ®
ACC-11001-05-01

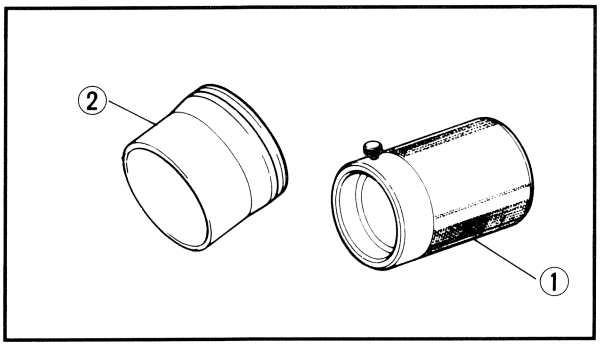
This sealant (bond) in used for crankcase mating surfaces, etc.



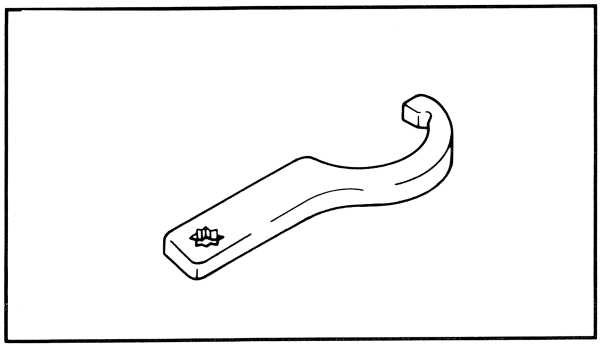
FOR CHASSIS SERVICE

1. T-Handle
   P/N YM-01326 — ①
   Damper Rod Holder
   P/N YM-01300-1 — ②

This tool is used to loosen and tighten the front fork cylinder holding bolt.



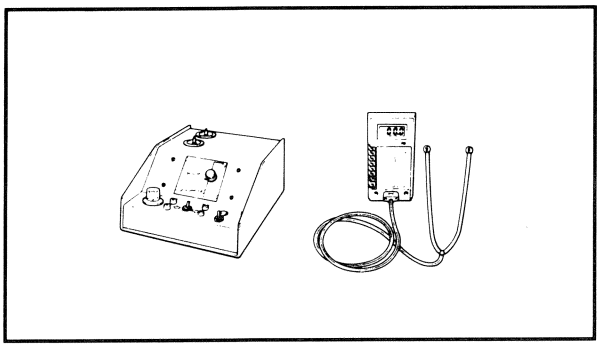
2. Front Fork Seal Driver Weight
   P/N YM-33963 — ①
   Adapter
   P/N YM-33968 — ②



3. Ring Nut Wrench
   P/N YU-33975

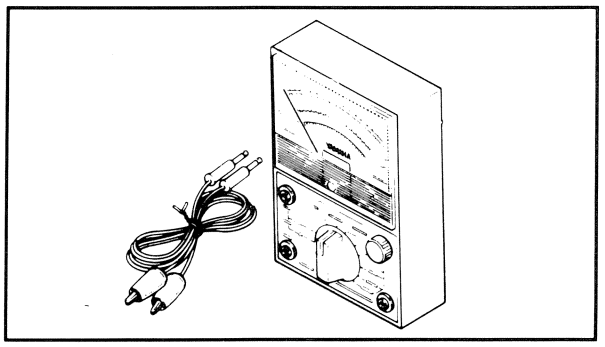
This tool is used to loosen and tighten the steering ring nut.

FOR ELECTRICAL COMPONENTS



1. Electro Tester
   P/N YU-33260

This instrument is necessary for checking the ignition system components.



2. Pocket Tester
   P/N YU-03112

This instrument is invaluable for checking the electrical system.

CHAPTER 2.
PERIODIC INSPECTIONS AND ADJUSTEMENTS