









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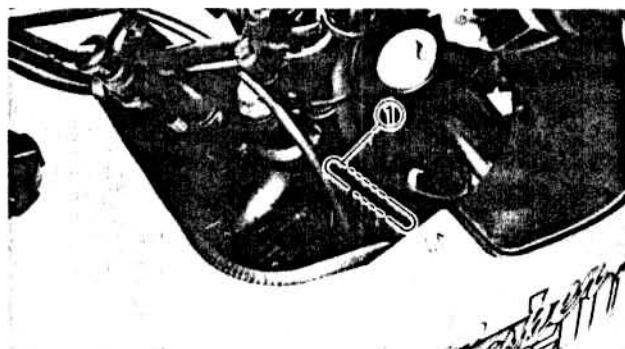
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CHAPTER 1. GENERAL INFORMATION

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GENERAL INFORMATION



MOTORCYCLE IDENTIFICATION

FRAME SERIAL NUMBER

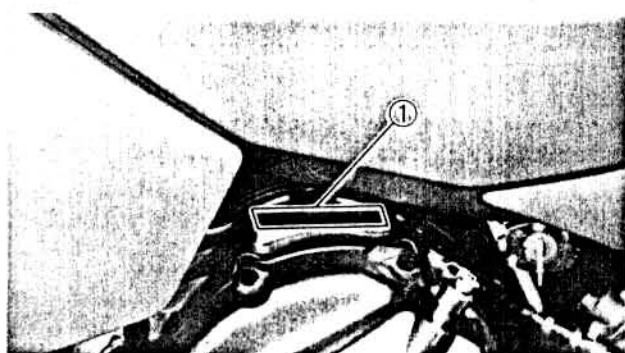
The frame serial number ① is stamped into the right side of the steering head.

Starting serial number:

3LD-000101

3SC-000101 (E)

3TD-000101 (CH)



ENGINE SERIAL NUMBER

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

Starting serial number:

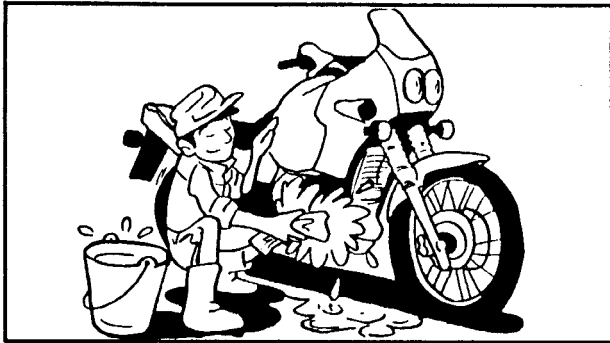
3LD-000101

3SC-000101 (E)

3TD-000101 (CH)

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.



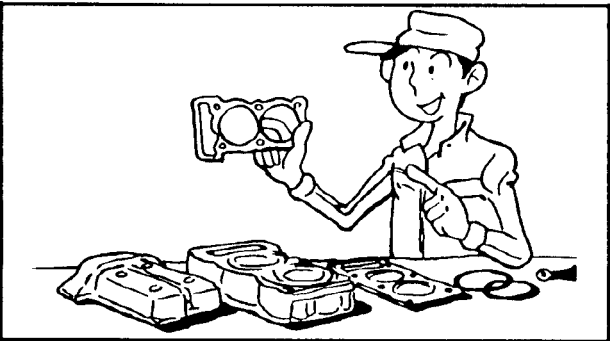
IMPORTANT INFORMATION

PREPARATION FOR REMOVAL

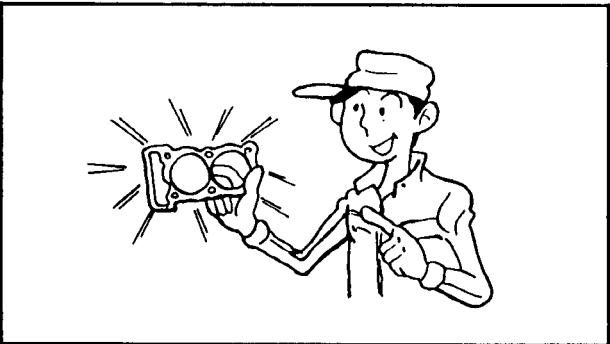
1. Remove all dirt, mud, dust, and foreign material before removal and disassembly.
2. Use proper tools and cleaning equipment. Refer to "SPECIAL TOOL".



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



4. During the machine 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

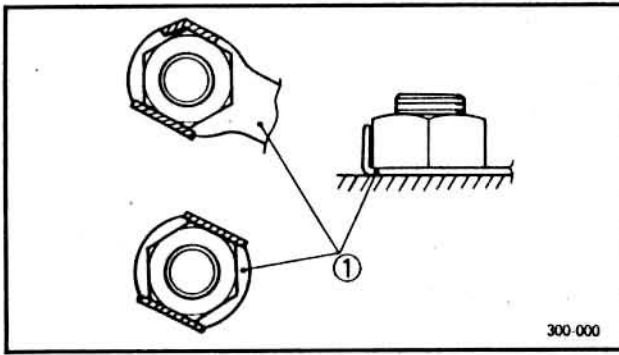
1. Use only genuine Yamaha parts for all replacements. Use oil and/or grease recommended by Yamaha for assembly and adjustment. Other brands may be similar in function and appearance, but inferior in quality.

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.

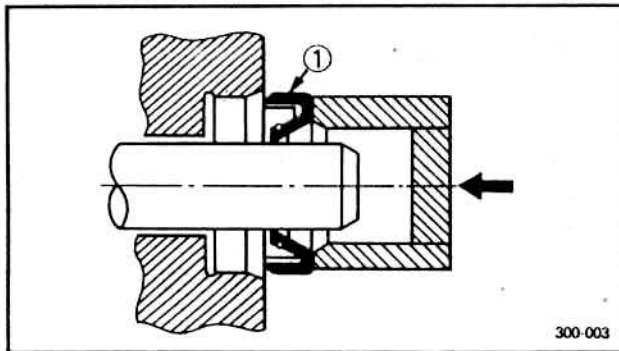
IMPORTANT INFORMATION

GEN
INFO



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.



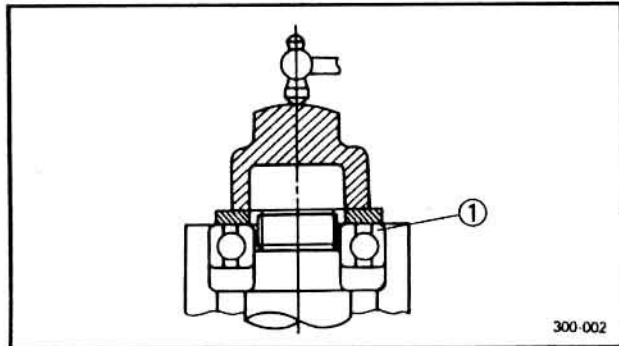
BEARINGS AND OIL SEALS

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.

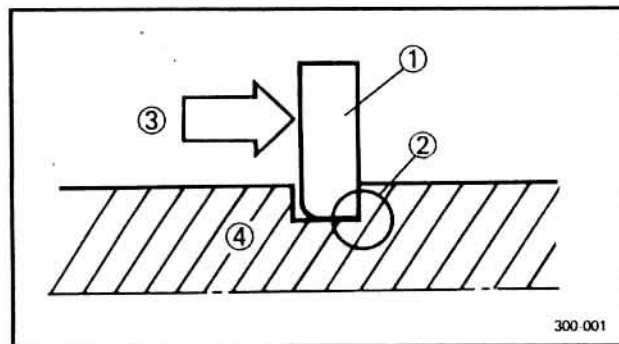
① Oil seal

⚠ 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

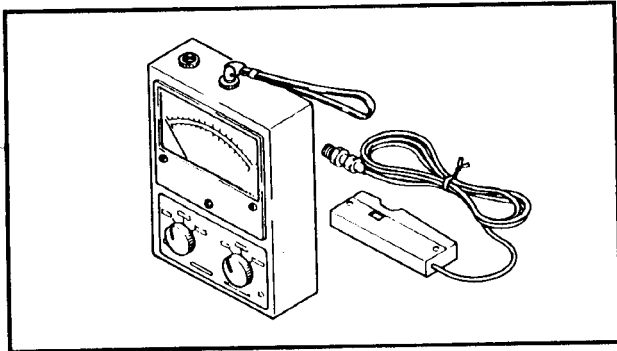
**SPECIAL TOOLS**

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

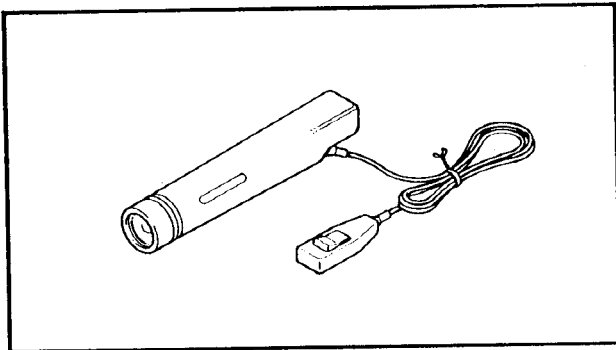
1. Inductive tachometer
P/N 90890-03113

This tool is needed for detecting engine rpm.



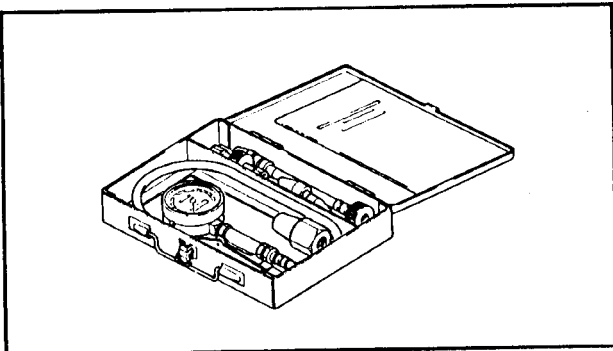
2. Inductive timing light
P/N 90890-03109

This tool is necessary for checking ignition timing.



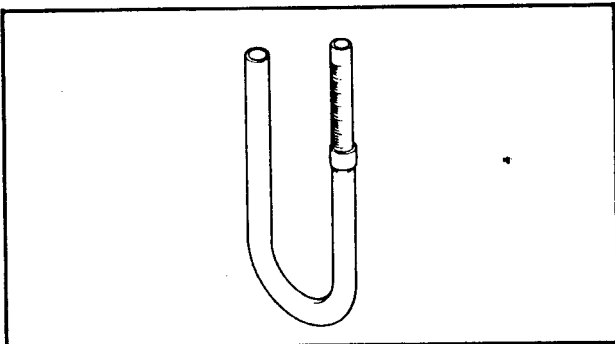
3. Compression gauge
P/N 90890-03081

This gauge is used to measure the engine compression.

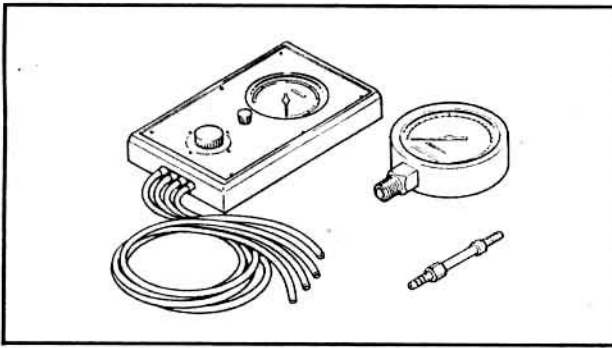


4. Fuel level gauge
P/N 90890-01312

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

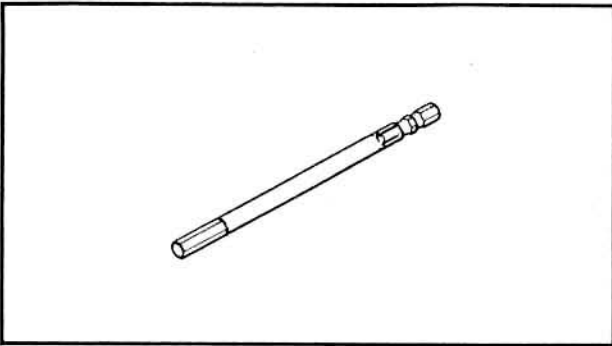


SPECIAL TOOLS



5. Vacuum gauge
P/N 90890-03094

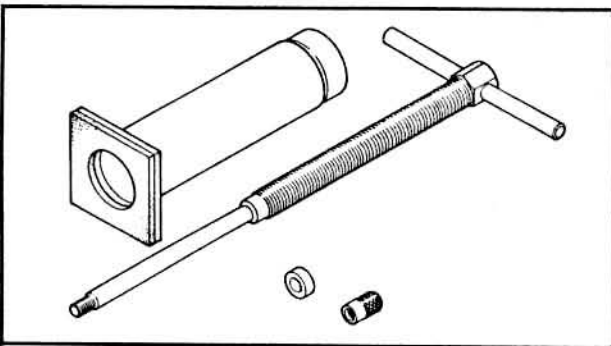
This gauge is needed for carburetor synchronization.



FOR ENGINE SERVICE

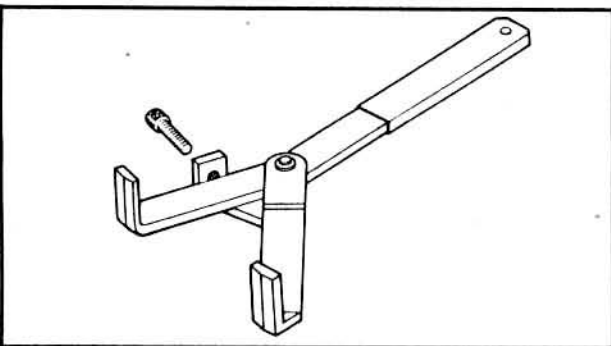
1. Hexagon wrench (6 mm)
P/N 90890-01395

This tool is used to loosen or tighten the cylinder head securing nut.



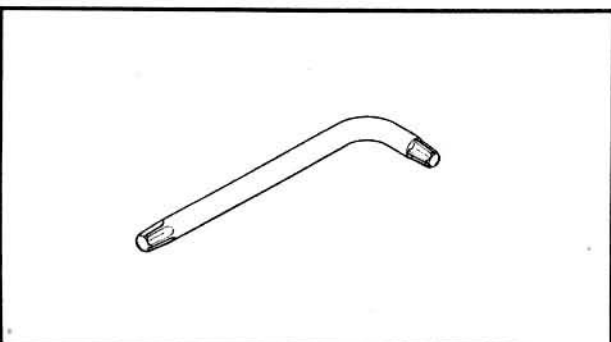
2. Piston pin puller
P/N 90890-01304

This tool is used to remove the piston pin.



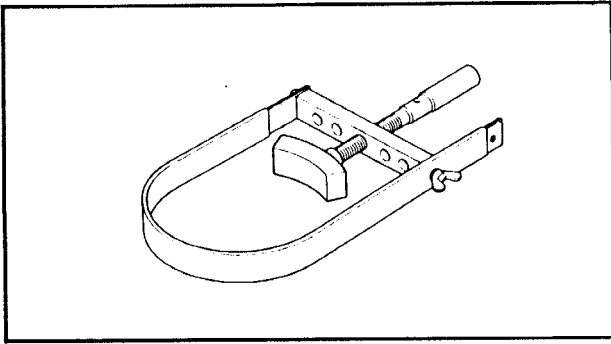
3. Universal clutch holder
P/N 90890-04086

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



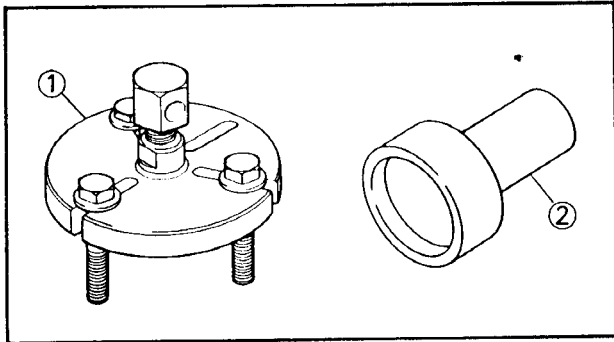
4. Torx wrench (T30)
P/N 90890-05245

This tool is used to loosen or tighten the main axle bearing retainer bolt.



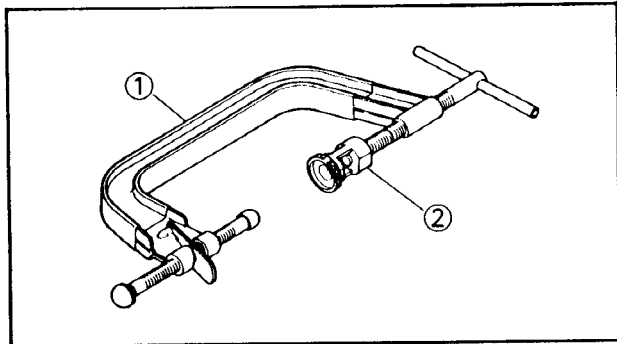
5. Rotor holder
P/N 90890-01701

This tool is used to hold the rotor.



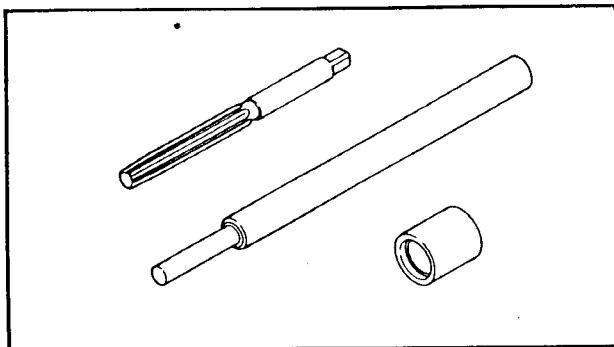
6. Rotor puller
P/N 90890-01362 ①
Adapter
P/N 90890-01382 ②

These tools are used to remove the rotor.



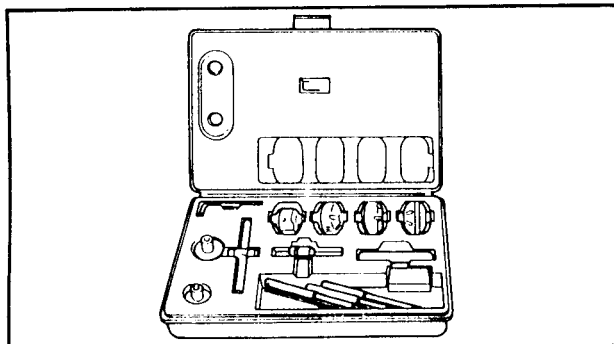
7. Valve spring compressor
P/N 90890-04019 ①
Attachment
P/N 90890-04114 ②

These tools are used to remove and install the valve assemblies.



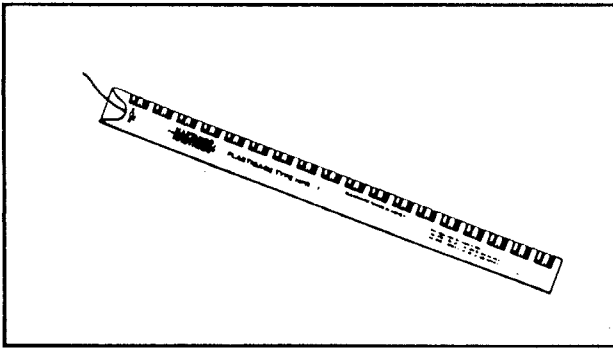
8. Valve guide remover and installer set (5.5 mm)
P/N 90890-04016

These tools are used to remove, install and re-bore the valve guide.



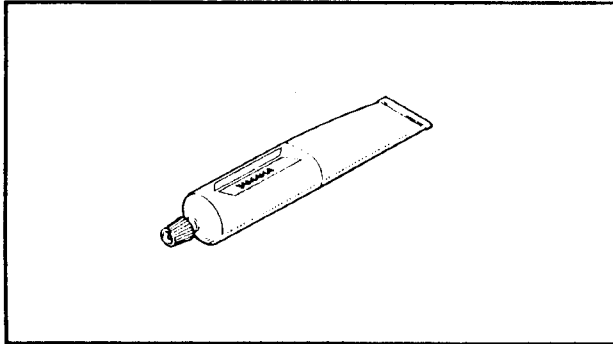
9. Valve seat cutter
P/N YM-91043

This tool is used to adjust the valve clearance.



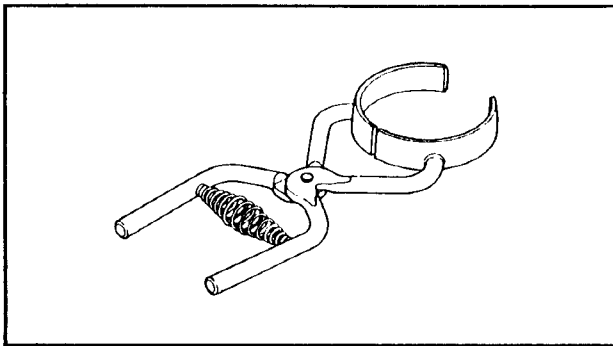
10. Plastigage® set "Green"
P/N YU-33210

This gauge is needed to measure the clearance for the connecting rod bearing and the crankshaft bearing.



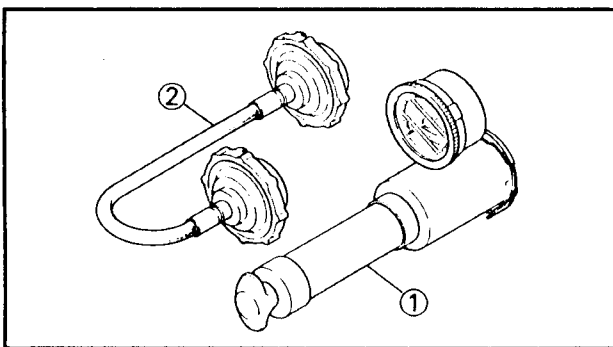
11. YAMAHA bond No. 1215
P/N 90890-85505

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



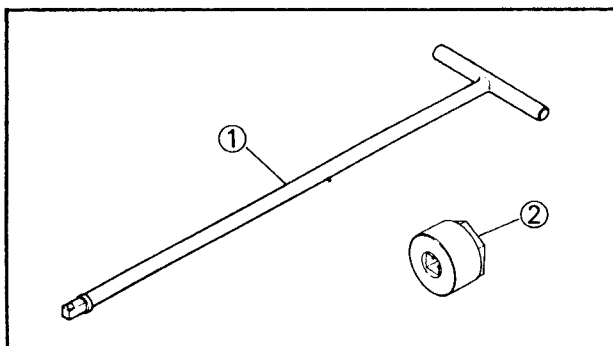
12. Piston ring compressor
P/N 90890-04121

This tool is used to compress piston rings when installing the cylinder.



13. Radiator cap tester
P/N 90890-01325 ①
Adapter
P/N 90890-01352 ②

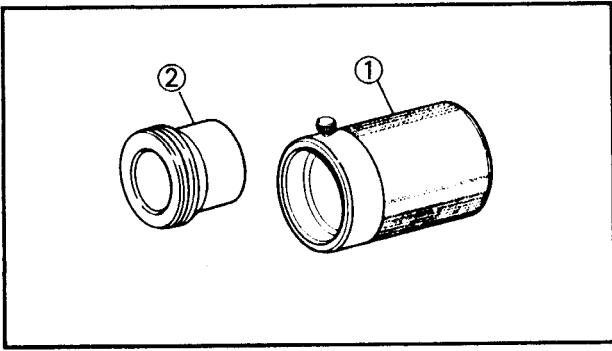
This tester is used for checking the cooling system.



FOR CHASSIS SERVICE

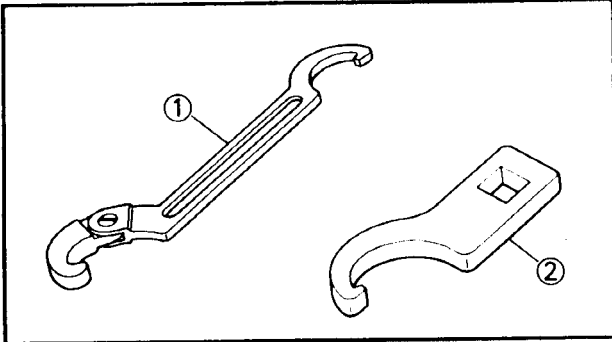
1. T-handle
P/N 90890-01326 ①
Fork damper rod holder (30 mm)
P/N 90890-01327 ②

These tools are used to loosen and tighten the front fork damper rod holding bolt.



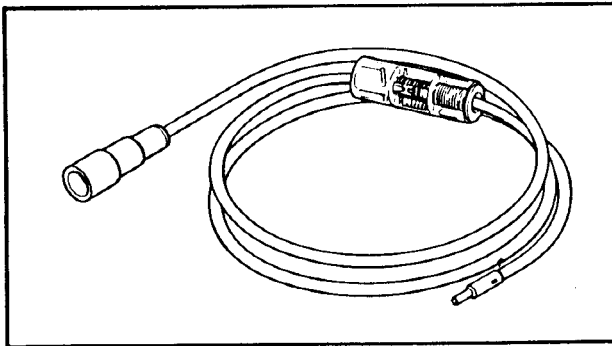
- 2. Front fork seal driver (weight)
P/N 90890-01367 ①
Adapter (43 mm)
P/N 90890-01374 ②

These tools are used when installing the fork oil seal.



- 3. Ring nut wrench
P/N 90890-01268 ①
P/N 90890-01403 ②

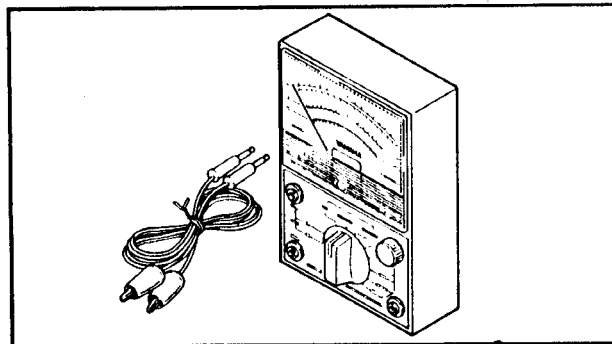
This tool is used to loosen and tighten the steering ring nut.



FOR ELECTRICAL COMPONENTS

- 1. Dynamic spark tester
P/N 90890-03144

This instrument is necessary for checking the ignition system components.



- 2. Pocket tester
P/N 90890-03112

This instrument is invaluable for checking the electrical system.

