# YAMAHA SERVICE MANUAL



G9-AJ/EJ G9-AG/AH G9-EG/EH1 G9-EH2 G2-A/E

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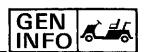
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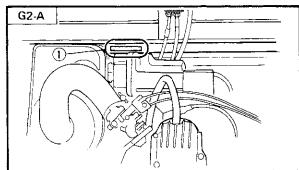
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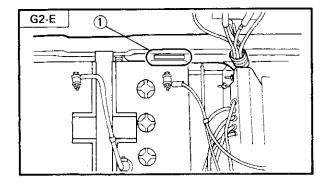
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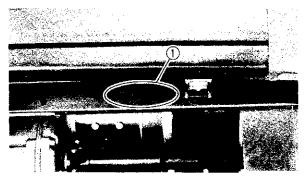
## CHAPTER 9. TROUBLESHOOTING

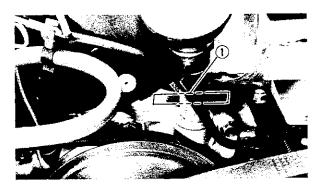
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### **GENERAL INFORMATION**

### **CAR IDENTIFICATION**

#### FRAME SERIAL NUMBER

The frame serial number (1) is located on the rectangular pipe under the operator's seat, or on the right hand side of the rectangular pipe by the rear bumper.

Starting	Serial Number:	
G2-A	J38-000101	
	JA2-000101	
	J55-000101	
G2-E	J41-000101	
	JE2-000101	
	J56-000101	

NOTE: \_\_

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

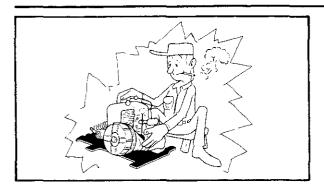
#### **ENGINE SERIAL NUMBER**

The engine serial number ① is located on the left-hand side of crank case.

101
0101
101
(

NOTE: \_\_ Designs and specifications are subject to change

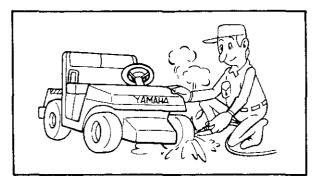
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#### IMPORTANT INFORMATION

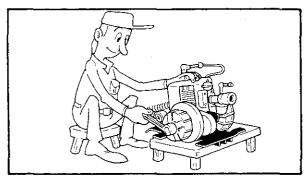
#### NO FLAME SOURCES

1. Avoid any flame sources in the service shop.



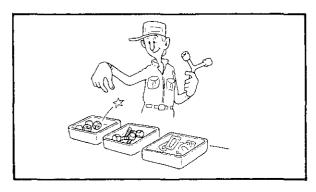
#### WASHING AND CLEANING

 Thoroughly clean the exterior of the car body and engine. While cleaning, take care to protect the electrical parts, such as relay switches, motor, resistors, controllers, etc., from high pressure water splashes.



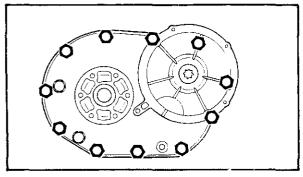
#### **RIGHT TOOLS**

 Be sure to use the right special tool for the right part in order to protect the part from damage. Always use the right tool and the right instrument.



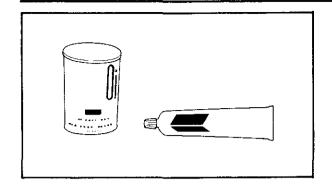
#### MAKING IT NEAT

 Keep the removed parts separately in groups so that they will not be misplaced or confused.



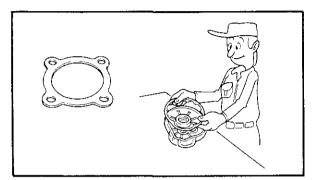
#### **TIGHTENING TORQUE**

 Be sure to keep to tightening torque specifications. When tightening bolts, nuts, and screws, start with a larger-diameter one and from an inner-positioned one to an outer-positioned one in a criss-cross pattern. Refer to CHAPTER 2. "TIGHTENING TORQUE".



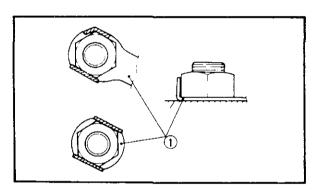
#### ALL REPLACEMENT PARTS

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



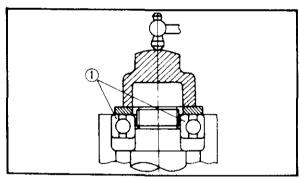
#### GASKETS, OIL SEALS, AND O-RINGS

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



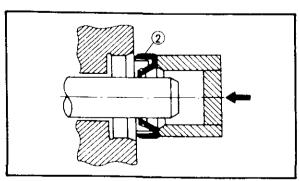
#### LOCK WASHERS/PLATES AND COTTER PINS

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.

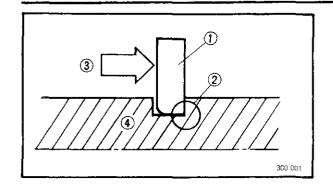


#### **企AUTION**:

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

### **IMPORTANT INFORMATION**

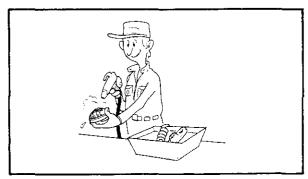




#### CIRCLIPS

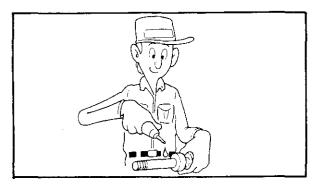
1. All circlips should be inspected carefully before reassembly. Always replace piston pin clips after one use. Replace distorted circlips. When installing a circlip ①, make sure that the sharp-edged corner ② is positioned opposite to the thrust ③ it receives. See the sectional view.



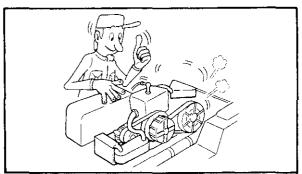


#### NOTES ON DISASSEMBLY AND ASSEMBLY

1. Parts should be cleaned and blown off with compressed air whenever they are disassembled.



2. Contact surfaces of moving parts should be oiled when they are assembled. Apply grease to the oil seal lips,

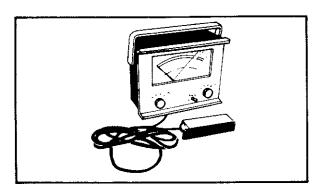


3. After assembling, make sure each of the moving parts operates normally.



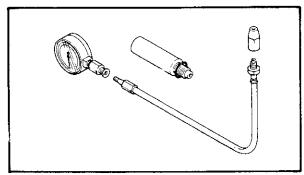
#### SPECIAL TOOLS

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.



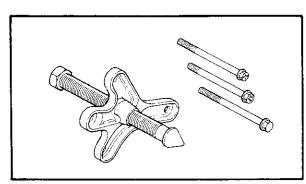
#### FOR TUNE UP

1. Inductive Tachometer P/N YU-08036, 90890-03113 This tool is needed for detecting engine rpm.



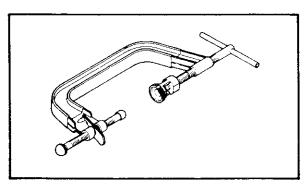
2. Compression Gauge P/N YU-33223, 90890-03081

This gauge is used to measure the engine compression.



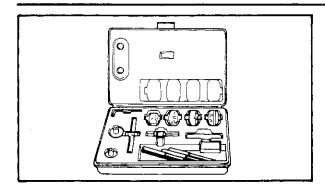
#### FOR ENGINE SERVICE

1. Heavy-Duty Universal Puller P/N YU-33270, 90890-01362 This tool is used to remove the flywheel.



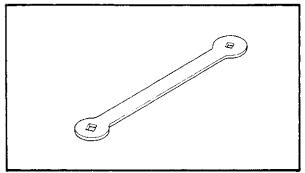
2. Valve Spring Compressor P/N YM-04019, 90890-01253

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

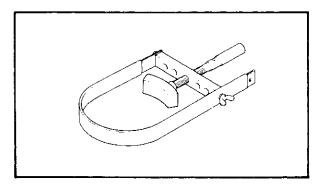


3. Valve Seat Cutter Set P/N YM-91043

This tool is used to resurface the valve seat.



4. Valve Adjuster
P/N YM-08035, 90890-01311
This tool is used to adjust the valve clearance.

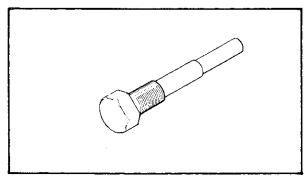


#### FOR POWER TRAIN

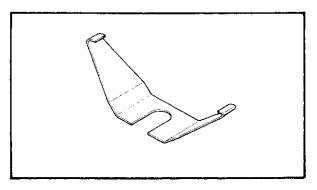
sheave.

1. Primary Sheave Holder P/N YS-01880, 90890-01701

This tool is used to hold the primary sheave when removing or installing the primary sheave securing bolt.



2. Primary Sheave Puller
P/N YG-01876, 90890-01876
This tool is used for removing the primary



3. Secondary Sheave Holder P/N YG-40103, 90890-01705

This tool is used to compress the sheave spring when removing or installing the secondary sheave securing nut.



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