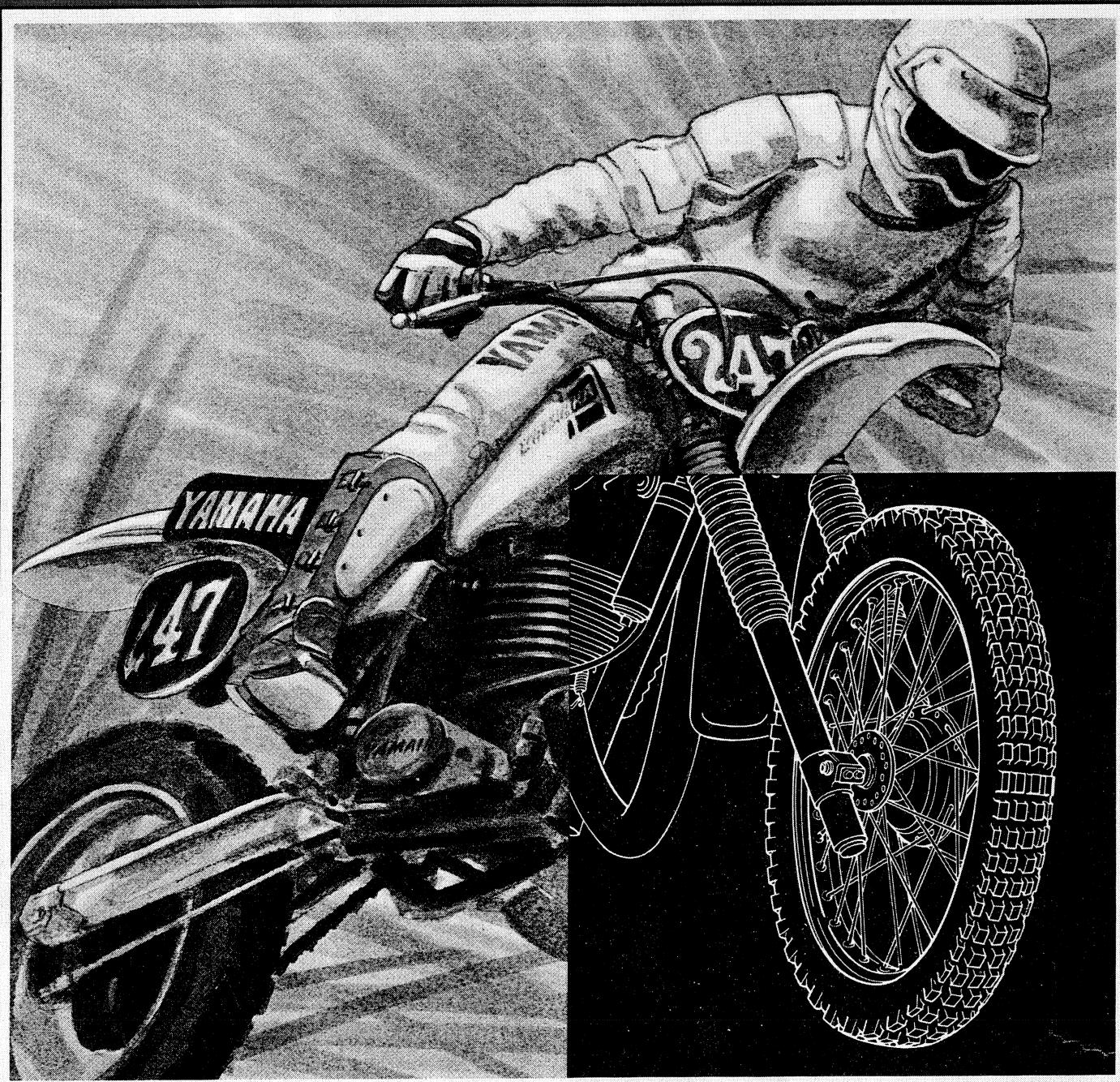


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TT 350 S

# Service Manual



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

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**YAMAHA**

**TT350S**

**Service Manual**

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**LIT-11616-05-17**

**TT350S**

**SERVICE MANUAL**

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**1st Edition, October 1985**

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**P/N LIT-11616-05-17**

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## 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.

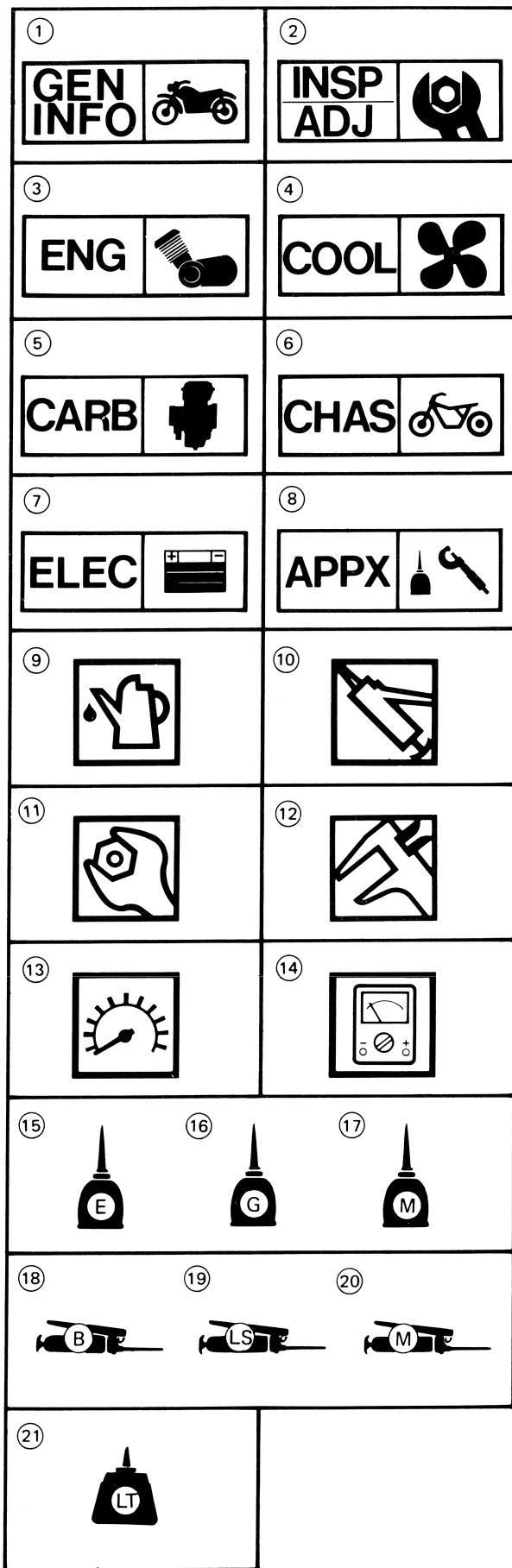
In this revised format, the condition of a faulty component will precede an arrow symbol and the course of action required will follow the symbol, e.g.,

● 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  $\Omega$ , V, A

Symbol marks ⑯ to ㉑ in the exploded diagram indicate grade of lubricant and location of lubrication point.

- ⑯ Apply engine oil
- ⑯ Apply gear oil
- ⑯ Apply molybdenum disulfide oil
- ⑯ Apply wheel bearing grease
- ⑯ Apply lightweight lithium-soap base grease
- ⑯ Apply molybdenum disulfide grease
- ⑯ Apply locking agent (LOCTITE<sup>®</sup>)

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

gēn·u·ine

*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.

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**GENERAL INFORMATION**



**GEN  
INFO**

**PERIODIC INSPECTIONS  
AND ADJUSTMENTS**



**INSP  
ADJ**

**ENGINE OVERHAUL**



**ENG**

**CARBURETION**



**CARB**

**CHASSIS**



**CHAS**

**ELECTRICAL**



**ELEC**

**APPENDICES**



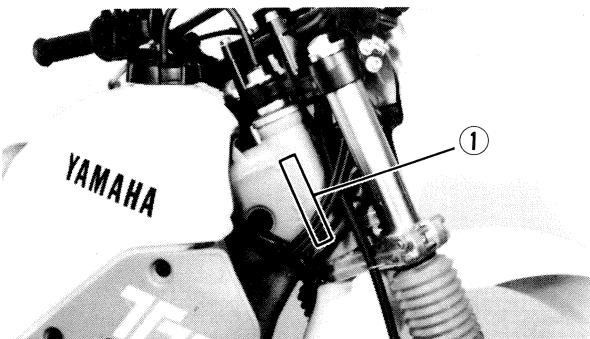
**APPX**



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## CHAPTER 1. GENERAL INFORMATION

<b>MACHINE IDENTIFICATION</b> .....	1-1
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FOR CHASSIS SERVICE .....	1-8
FOR ELECTRICAL COMPONENTS .....	1-9



## GENERAL INFORMATION

### MACHINE IDENTIFICATION

#### VEHICLE IDENTIFICATION NUMBER

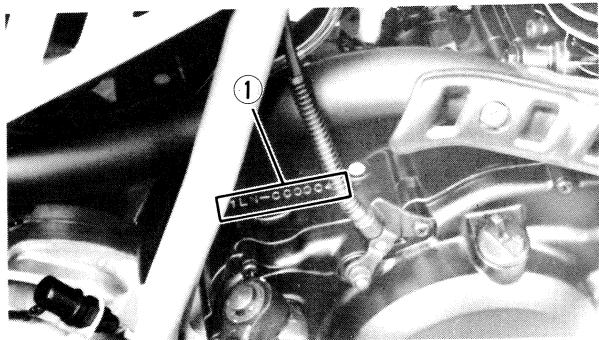
The vehicle identification number ① is stamped into the right side of the steering head pipe.

#### NOTE: \_\_\_\_\_

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

#### Starting Serial Number:

1RG-000101

#### NOTE: \_\_\_\_\_

Designs and specifications are subject to change without notice.



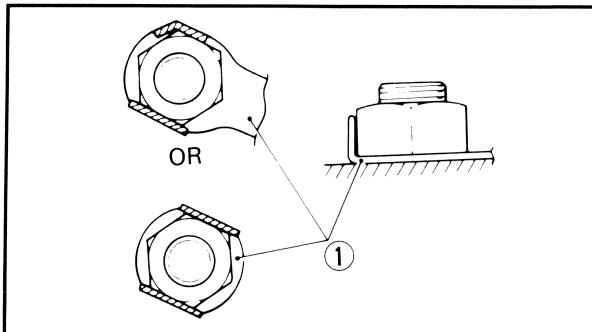
## IMPORTANT INFORMATION

### 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.

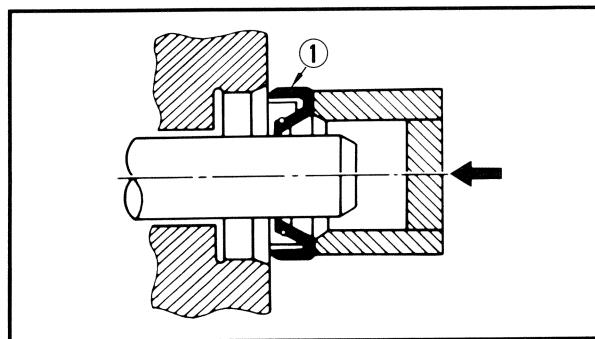
### GASKETS, OIL SEALS, AND O-RINGS

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.



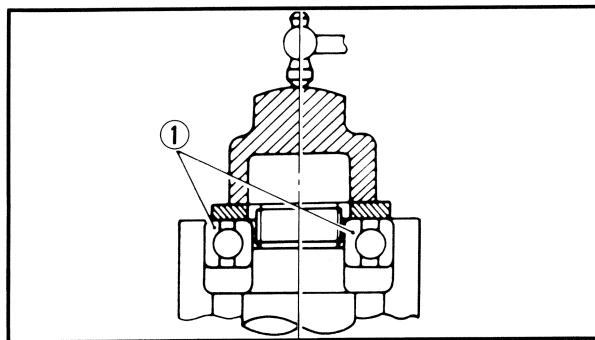
### LOCK WASHERS/PLATES AND COTTER PINS

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.

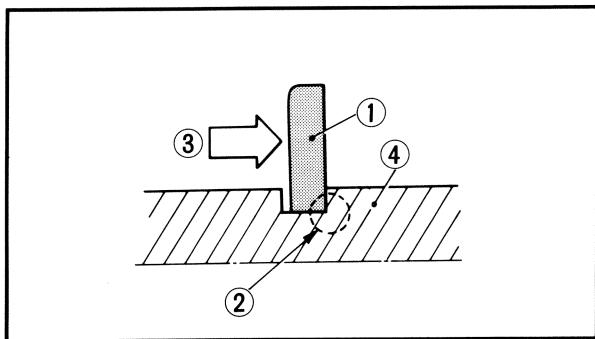
**BEARINGS AND OIL SEALS**

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

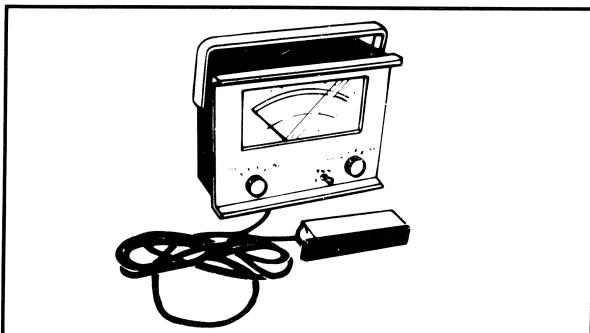
**CIRCLIPS**

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

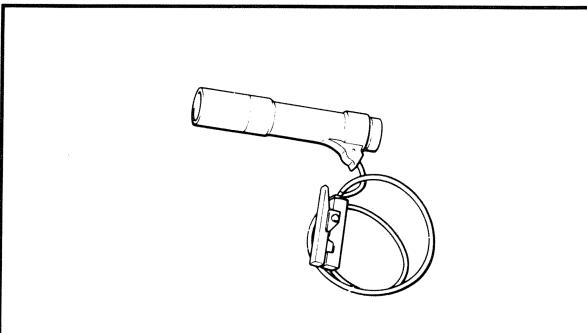
**SPECIAL TOOLS**

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.

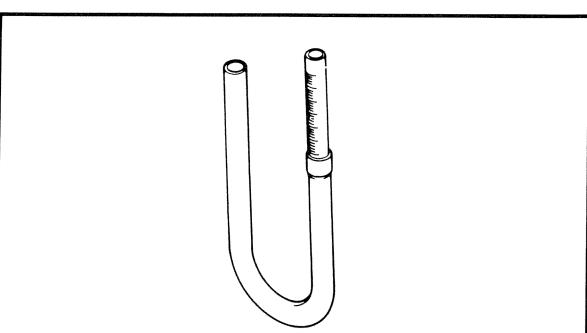
**FOR TUNE UP**

1. Inductive Tachometer  
P/N YU-08036

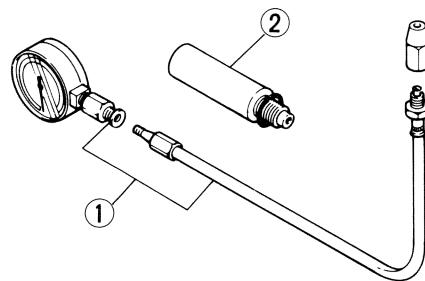
This tool is needed for detecting engine rpm.



This tool is necessary for adjusting timing.

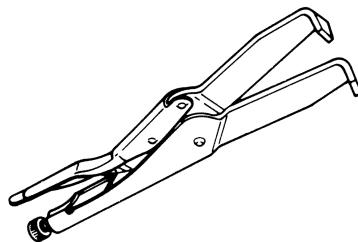


This gauge is used to measure the fuel level in the float chamber.



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

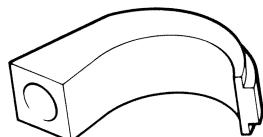
This gauge is used to measure the engine compression.



#### FOR ENGINE SERVICE

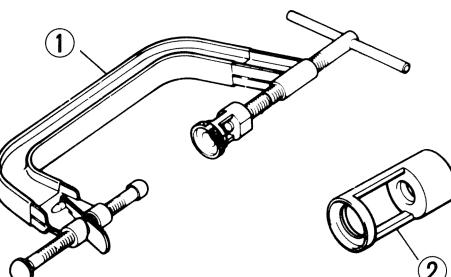
1. Universal Clutch Holder  
P/N YU-91042

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

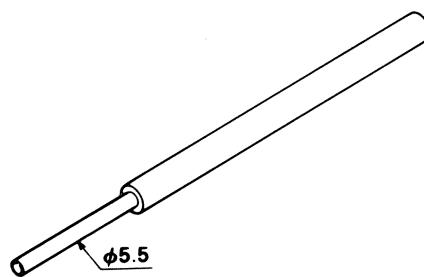
This tool is necessary to replace valve adjusting pads.



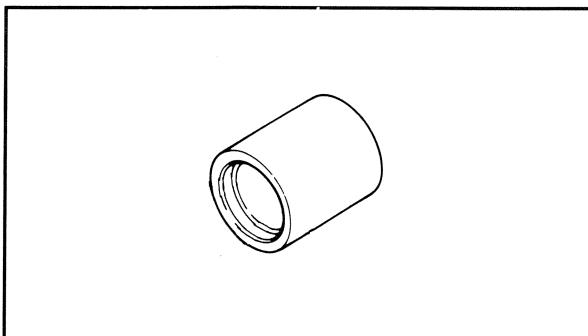
3. Valve Spring Compressor — ①  
P/N YM-04019
- Valve Spring Attachment — ②  
P/N YM-4108

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

4. Valve Guide Remover  
P/N YM-01122

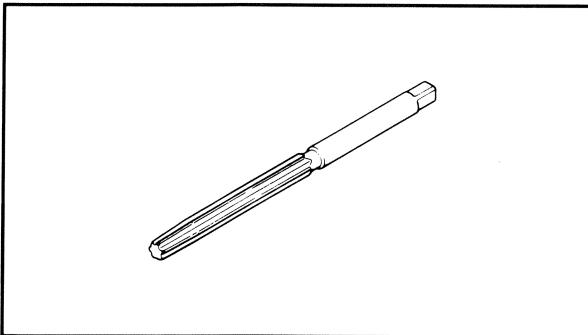


This tool must be used to remove the valve guides.



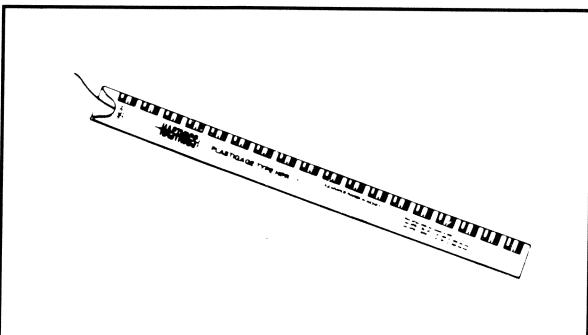
5. Valve Guide Installer  
P/N YM-4015

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



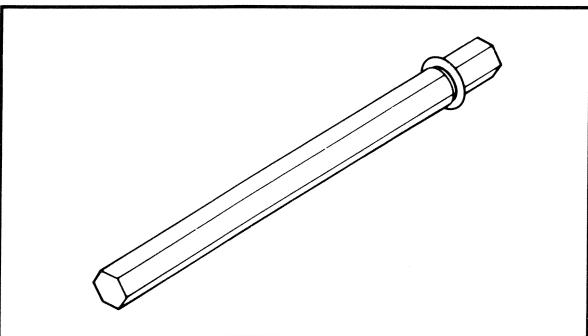
6. Valve Guide Reamer  
P/N YM-01196

This tool must be used when replacing the valve guide.



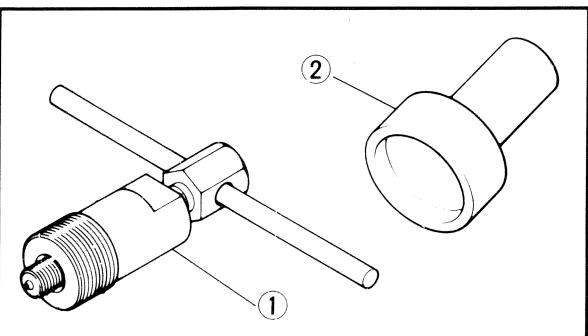
7. Plastigauge Set "Green"  
P/N YU-33210

This tool is needed when measuring clearance for camshaft cap.



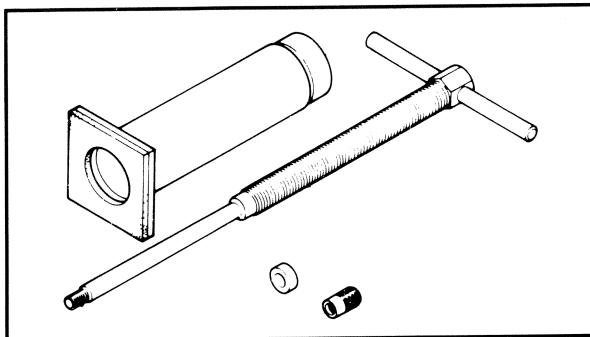
8. 8 mm (0.32 in.) Wrench Adapter  
P/N YM-28897

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



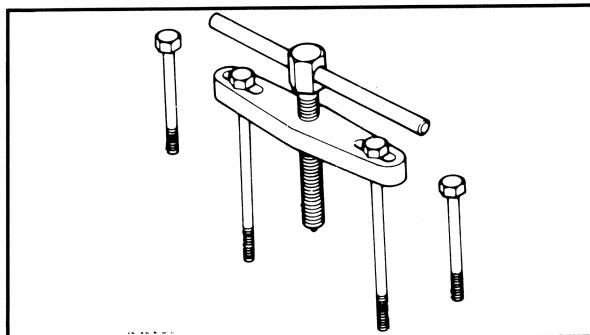
9. Flywheel Puller — ①  
P/N YM-01189  
Adapter — ②  
P/N YM-1382

These tools are used for removing the flywheel.



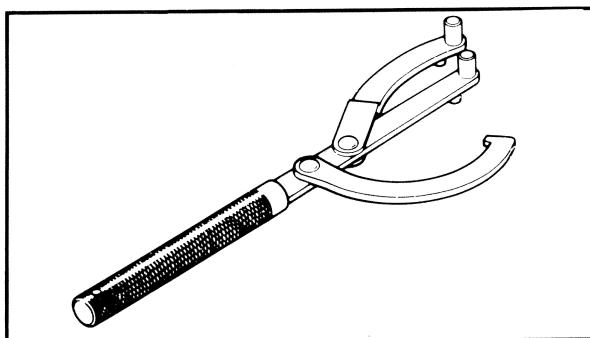
10. Piston Pin Puller  
P/N YU-01304

This tool is used to remove the piston pin.



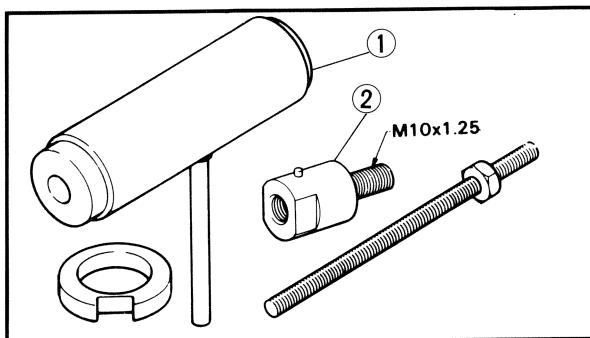
11. Crankcase-Separator  
P/N YU-01135

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



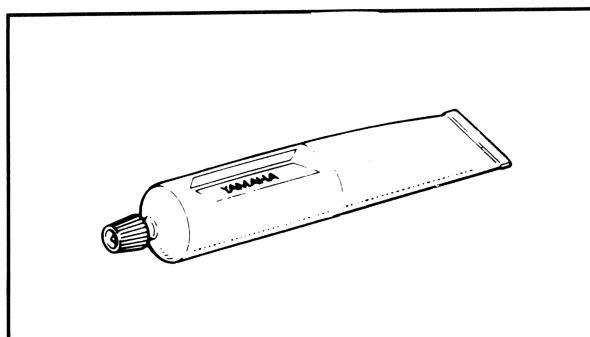
12. Rotor Holder  
P/N YU-01235

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



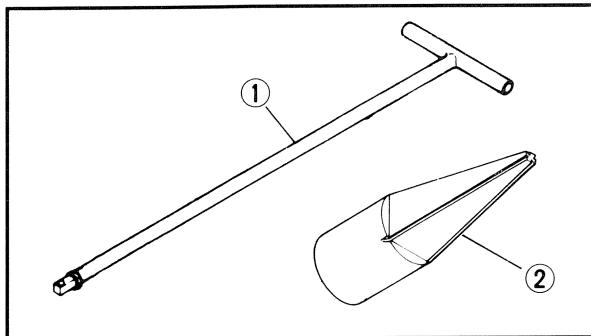
13. Crankshaft Installing Set  ①  
P/N YU-90050  
Adapter  ②  
P/N YM-1383

These tools are used when installing the crankshaft.



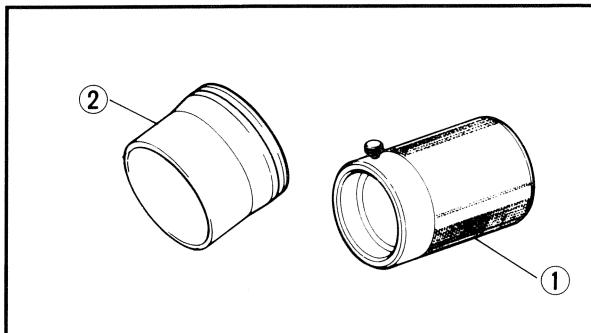
14. Quick Gasket ®  
ACC-11001-05-01

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

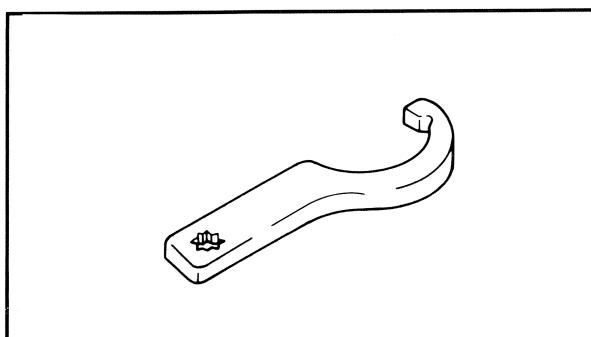
**FOR CHASSIS SERVICE**

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.

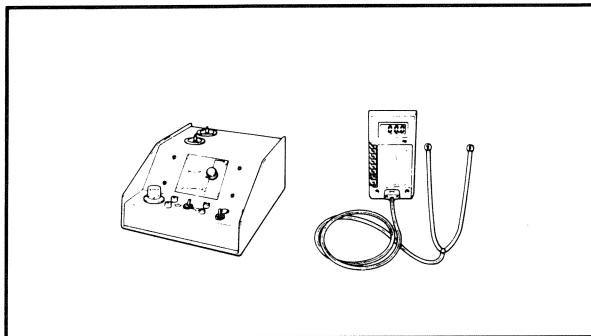


2. Front Fork Seal Driver Weight  
P/N YM-33963 — ①  
Adapter  
P/N YM-33968 — ②



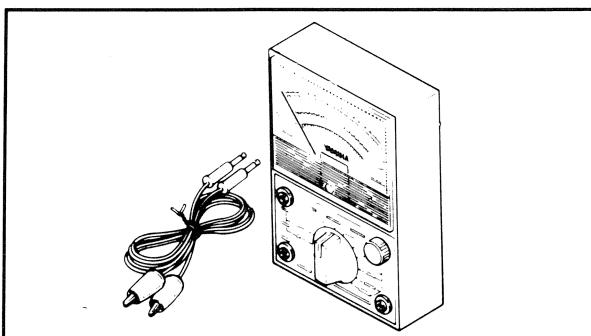
3. Ring Nut Wrench  
P/N YU-33975

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 ADJUSTMENTS

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## PERIODIC INSPECTIONS AND ADJUSTMENTS

## INTRODUCTION

This chapter includes all information necessary to perform recommended inspections and adjustments. These preventive maintenance procedures, if followed, will ensure more reliable vehicle operation and a longer service life. The need for costly overhaul work will be greatly reduced. This information applies to vehicles already in service as well as new vehicles that are being prepared for sale. All service technicians should be familiar with this entire chapter.

## PERIODIC MAINTENANCE/LUBRICATION

Unit: km (mi)

ITEM	REMARKS	BREAK-IN 1,000 (600)	EVERY	
			6,000 (4,000) or 6 Months	12,000 (8,000) or 12 Months
Valve(s)*	Check valve clearance. Adjust if necessary.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spark plug(s)	Check condition. Clean or replace if necessary.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air filter	Clean. Replace if necessary.		<input type="radio"/>	<input type="radio"/>
Carburetor*	Check idle speed/starter operation. Adjust if necessary.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fuel line*	Check fuel hose (and vacuum pipe) for cracks or damage. Replace if necessary.		<input type="radio"/>	<input type="radio"/>
Engine oil	Replace (Warm engine before draining).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engine oil filter	Replace.	<input type="radio"/>		<input type="radio"/>
Front brake*	Check operation/fluid leakage/See NOTE/Correct if necessary.		<input type="radio"/>	<input type="radio"/>
Rear brake*	Check operation. Adjust if necessary.		<input type="radio"/>	<input type="radio"/>
Clutch	Check operation. Adjust if necessary.		<input type="radio"/>	<input type="radio"/>
Decompression system*	Check operation. Adjust if necessary.		<input type="radio"/>	<input type="radio"/>
Rear arm pivot*	Check rear arm assembly for looseness. Correct if necessary. Moderately repack every 24,000 (16,000) or 24 months.***			<input type="radio"/>
Rear suspension link pivots*	Check operation. Apply grease lightly every 24,000 (16,000) or 24 months.***			<input type="radio"/>
Wheels*	Check balance/damage/runout/spoke tightness. Repair if necessary.		<input type="radio"/>	<input type="radio"/>
Wheel bearings*	Check bearings assembly for looseness/damage. Replace if damaged.		<input type="radio"/>	<input type="radio"/>
Steering bearing*	Check bearings assembly for looseness. Correct if necessary. Moderately repack every 24,000 (16,000) or 24 months.**	<input type="radio"/>		<input type="radio"/>
Front forks*	Check operation/oil leakage. Repair if necessary.		<input type="radio"/>	<input type="radio"/>
Rear shock absorber*	Check operation/oil leakage. Repair if necessary.		<input type="radio"/>	<input type="radio"/>

# PERIODIC MAINTENANCE/LUBRICATION



ITEM	REMARKS	BREAK-IN 1,000 (600)	EVERY	
			6,000 (4,000) or 6 Months	12,000 (8,000) or 12 Months
Drive chain	Check chain slack/alignment. Adjust if necessary. Clean and lube.	EVERY 500 (300)		
Fittings/ Fasteners*	Check all chassis fittings and fasteners. Correct if necessary.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sidestand*	Check operation. Repair if necessary.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Battery	Check specific gravity. Check breather pipe for proper operation. Correct if necessary.		<input type="radio"/>	<input type="radio"/>

\*: It is recommended that these items be serviced by a Yamaha dealer.

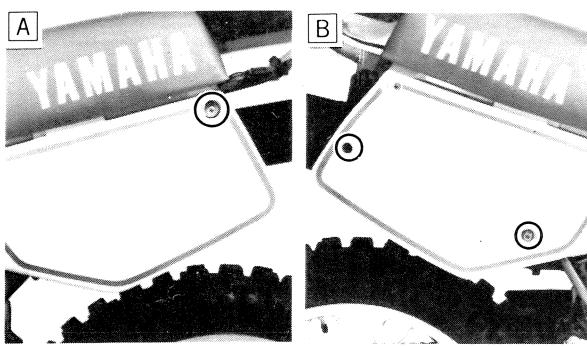
\*\*: Medium weight wheel bearing grease.

\*\*\*: Lithium soap base grease.

## NOTE: \_\_\_\_\_

### Brake fluid replacement:

1. When disassembling the master cylinder or caliper cylinder, replace the brake fluid. Normally check the brake fluid level and add the fluid as required.
2. On the inner parts of the master cylinder and caliper cylinder, replace the oil seals every two years.
3. Replace the brake hoses four years, or if cracked or damaged.



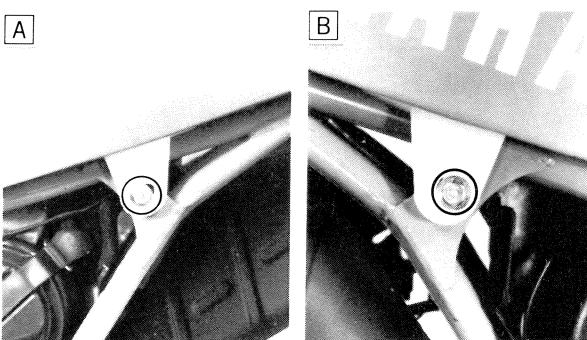
## ENGINE

### VALVE CLEARANCE ADJUSTMENT

#### Removal

1. Remove:
  - Side covers

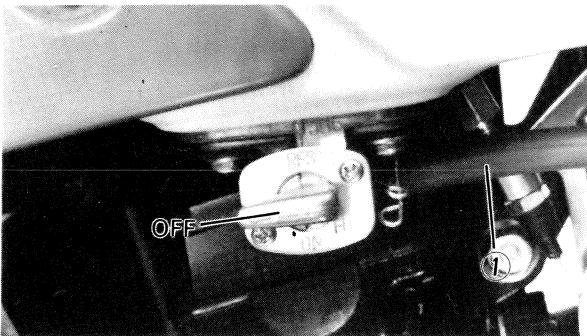
[A] Left side  
[B] Right side



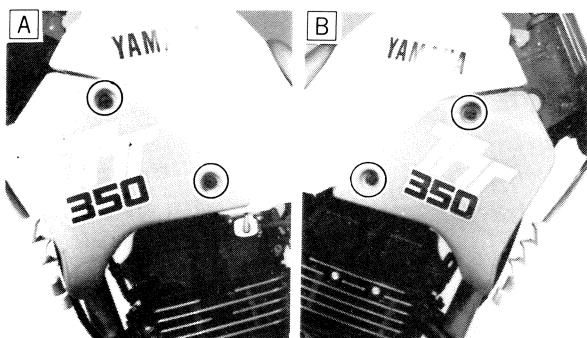
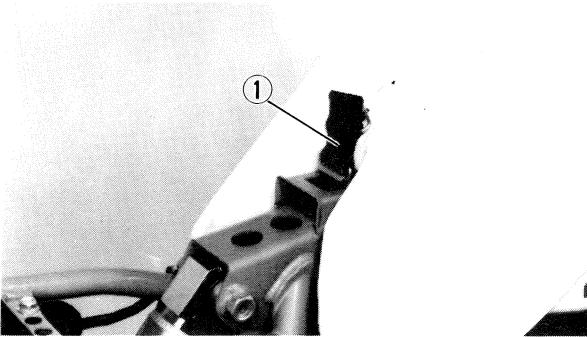
2. Remove:
  - Seat

[A] Left side  
[B] Right side

3. Turn the fuel cock to "OFF" and disconnect the fuel pipe ①.



4. Unhook the holder ①.

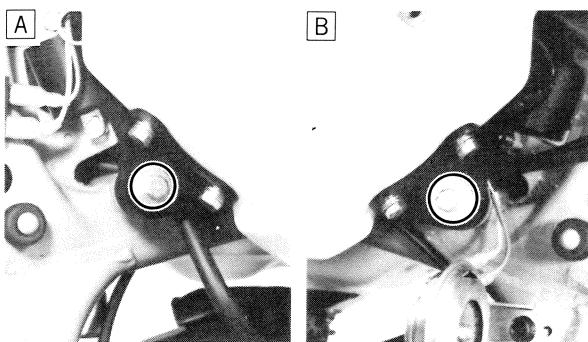


5. Remove:
  - Air scoops

[A] Left side  
[B] Right side

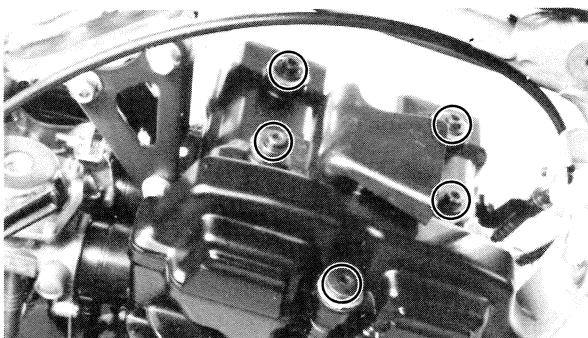
## VALVE CLEARANCE ADJUSTMENT

INSP  
ADJ



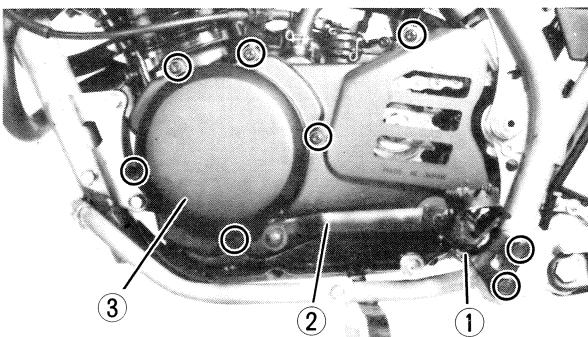
6. Remove:
  - Fuel tank

A Left side  
B Right side



7. Remove:
  - Spark plug cap

8. Remove:
  - Spark plug
  - Cylinder head cover



9. Remove:
  - Footrest (Left) ①
  - Change pedal ②
  - Crankcase cover (Left) ③

### Inspection and Adjustment

1. Measure:
  - Valve clearance

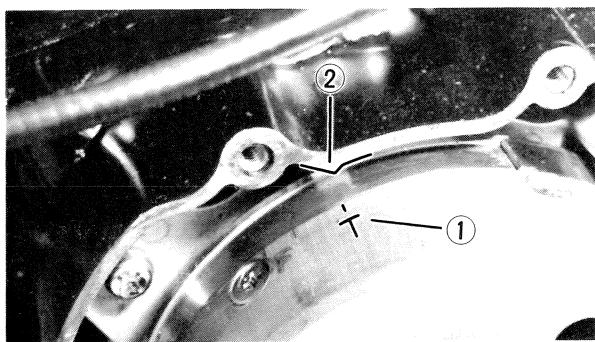
#### NOTE: \_\_\_\_\_

Be sure piston is at Top Dead Center (TDC) on compression stroke when measuring clearance.

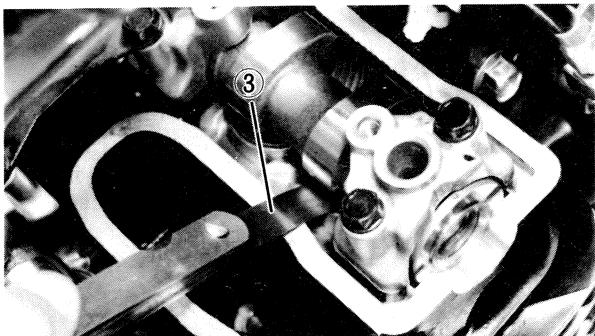
#### Valve clearance measurement steps:

#### NOTE: \_\_\_\_\_

Valve clearance must be measured when the engine is cool to the touch.

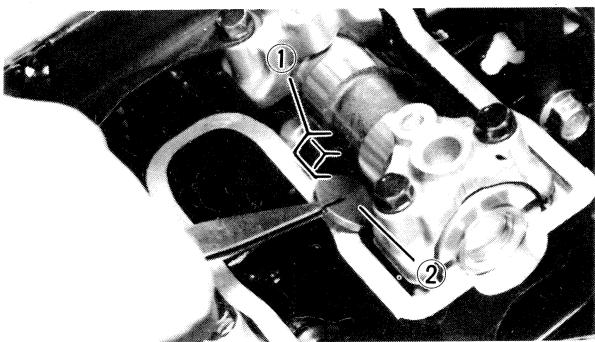


- Turn the crankshaft counterclockwise to align the "T" mark ① on the rotor with the crankcase mark ② when the piston is at TDC on the compression stroke.
- Measure the valve clearance using a Feeler Gauge ③.
- Record the measured amount if the clearance is incorrect.



#### Valve Clearance (cold):

Intake Valve	Exhaust Valve
0.08 ~ 0.12 mm (0.0031 ~ 0.0047 in)	0.13 ~ 0.17 mm (0.0051 ~ 0.0067 in)



#### 2. Adjust:

- Valve clearance

#### Valve clearance adjustment steps:

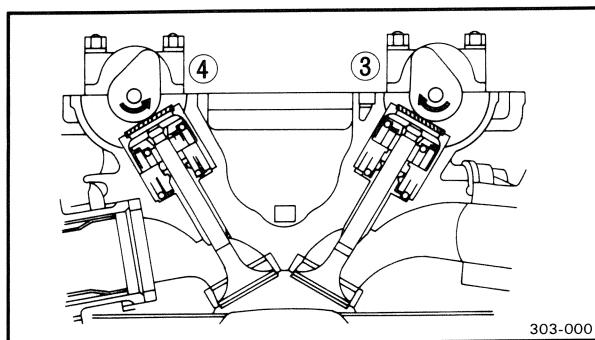
- Position the valve lifter slots (intake and exhaust side) facing each other.
- Depress the valve lifter and install the Tap-pet Adjusting Tool (YM-4106) ① onto the cylinder head.
- Turn the camshaft until the lobe of the Tap-pet Adjusting Tool ① depresses the valve lifter.
- Remove the pads ② from the lifter. Use a small screwdriver and a magnetic rod for removal.

Note pad numbers.

#### CAUTION:

#### Turn the camshaft as follows:

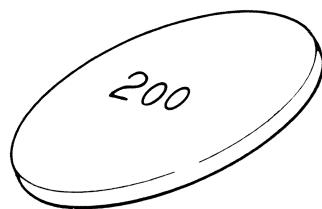
(view from left side of the machine Intake ③ : Carefully rotate CLOCKWISE. Exhaust ④ : Carefully rotate COUNTER-CLOCKWISE.)



303-000

# VALVE CLEARANCE ADJUSTMENT

**INSP  
ADJ**



- Select the proper valve adjusting pad from the chart below:

Pad range	Pad Availability: 25 increments
No. 200~	2.00 mm (0.079 in)
No. 320	3.20 mm (0.130 in)

**NOTE:** \_\_\_\_\_  
The thickness of each pads is marked on the pad face that contacts the valve lifter (not the cam).

- Round off the hundredths digit of the original pad number to the nearest 0.05 mm (0.002 in) increment.

Hundredths digit	Rounded valve
0 or 2	0
5	<b>(NOT ROUNDED OFF)</b>
8	10

**EXAMPLE:**  
Original pad number = 258 (2.58 mm)  
Rounded off digit = 260

**NOTE:** \_\_\_\_\_  
Pads can only be selected in 0.05 mm (0.002 in) increments.

- Locate the "Installed Pad Number" on the chart, and then find the measured valve clearance. The point where these coordinates intersect is the new pad number.

**NOTE:** \_\_\_\_\_  
Use the new pad number as a guide only as the number must be verified.

**Pad number verification steps:**  
 • Install the new pad with the number down.  
 • Remove the adjusting tool.  
 • Recheck the valve clearance.  
 • If the clearance is incorrect, repeat all of the clearance adjustment steps until the proper clearance is obtained.



**INTAKE**

<b>B</b> MEASURED CLEARANCE	<b>A</b> INSTALLED PAD NUMBER																								
	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320
0.00 ~ 0.02			200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310
0.03 ~ 0.07			200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310
0.08 ~ 0.12																									
0.13 ~ 0.17	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	
0.18 ~ 0.22	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320		
0.23 ~ 0.27	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320			
0.28 ~ 0.32	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320				
0.33 ~ 0.37	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320					
0.38 ~ 0.42	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320						
0.43 ~ 0.47	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320							
0.48 ~ 0.52	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320								
0.53 ~ 0.57	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320									
0.58 ~ 0.62	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320										
0.63 ~ 0.67	255	260	265	270	275	280	285	290	295	300	305	310	315	320											
0.68 ~ 0.72	260	265	270	275	280	285	290	295	300	305	310	315	320												
0.73 ~ 0.77	265	270	275	280	285	290	295	300	305	310	315	320													
0.78 ~ 0.82	270	275	280	285	290	295	300	305	310	315	320														
0.83 ~ 0.87	275	280	285	290	295	300	305	310	315	320															
0.88 ~ 0.92	280	285	290	295	300	305	310	315	320																
0.93 ~ 0.97	285	290	295	300	305	310	315	320																	
0.98 ~ 1.02	290	295	300	305	310	315	320																		
1.03 ~ 1.07	295	300	305	310	315	320																			
1.08 ~ 1.12	300	305	310	315	320																				
1.13 ~ 1.17	305	310	315	320																					
1.18 ~ 1.22	310	315	320																						
1.23 ~ 1.27	315	320																							
1.28 ~ 1.32	320																								

VALVE CLEARANCE (engine cold) 0.08 ~ 0.12 mm (0.031 ~ 0.048 in)

Example Installed is 250

Measured clearance is 0.32 mm (0.013 in)

Replace 250 pad with 270

\*Pad number: (example) Pad No. 250 = 2.50 mm (0.098 in)

Pad No. 255 = 2.55 mm (0.100 in)

Always install pad with number down

**EXHAUST**

<b>B</b> MEASURED CLEARANCE	<b>A</b> INSTALLED PAD NUMBER																								
	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320
0.00 ~ 0.02			200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	
0.03 ~ 0.07			200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310
0.08 ~ 0.12	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320
0.13 ~ 0.17																									
0.18 ~ 0.22	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	
0.23 ~ 0.27	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320		
0.28 ~ 0.32	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320			
0.33 ~ 0.37	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320				
0.38 ~ 0.42	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320					
0.43 ~ 0.47	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320						
0.48 ~ 0.52	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320							
0.53 ~ 0.57	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320								
0.58 ~ 0.62	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320									
0.63 ~ 0.67	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320										
0.68 ~ 0.72	255	260	265	270	275	280	285	290	295	300	305	310	315	320											
0.73 ~ 0.77	260	265	270	275	280	285	290	295	300	305	310	315	320												
0.78 ~ 0.82	265	270	275	280	285	290	295	300	305	310	315	320													
0.83 ~ 0.87	270	275	280	285	290	295	300	305	310	315	320														
0.88 ~ 0.92	275	280	285	290	295	300	305	310	315	320															
0.93 ~ 0.97	280	285	290	295	300	305	310	315	320																
0.98 ~ 1.02	285	290	295	300	305	310	315	320																	
1.03 ~ 1.07	290	295	300	305	310	315	320																		
1.08 ~ 1.12	295	300	305	310	315	320																			
1.13 ~ 1.17	300	305	310	315	320																				
1.18 ~ 1.22	305	310	315	320																					
1.23 ~ 1.27	310	315	320																						
1.28 ~ 1.32	315	320																							
1.33 ~ 1.37	320																								

VALVE CLEARANCE (engine cold) 0.13 ~ 0.17 mm (0.052 ~ 0.068 in)

Example Installed is 250

Measured clearance is 0.32 mm (0.013 in)

Replace 250 pad with 265

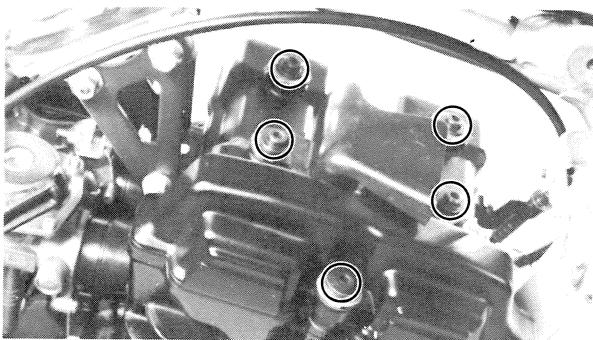
\*Pad number: (example) Pad No. 250 = 2.50 mm (0.098 in)

Pad No. 255 = 2.55 mm (0.100 in)

Always install pad with number down

## VALVE CLEARANCE ADJUSTMENT

INSP  
ADJ



### Installation

Reverse the removal procedure.

Note the following points.

#### 1. Install:

- Cylinder head cover



10 Nm (1.0 m·kg, 7.2 ft·lb)

#### 2. Install:

- Crankcase cover (Left)
- Change pedal
- Footrest (Left)



•Screws (Crank Case Cover):  
7 Nm (0.7 m·kg, 5.1 ft·lb)  
•Bolt (Change pedal):  
10 Nm (1.0 m·kg, 7.2 ft·lb)  
•Bolts (Footrest):  
33 Nm (3.3 m·kg, 24 ft·lb)

#### 3. Install:

- Spark plug

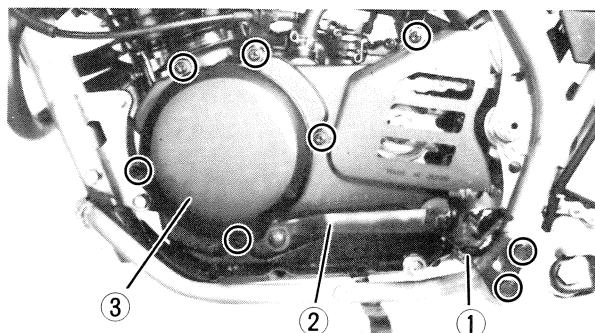


18 Nm (1.8 m·kg, 13 ft·lb)

## DECOMPRESSION CABLE ADJUSTMENT

### NOTE: \_\_\_\_\_

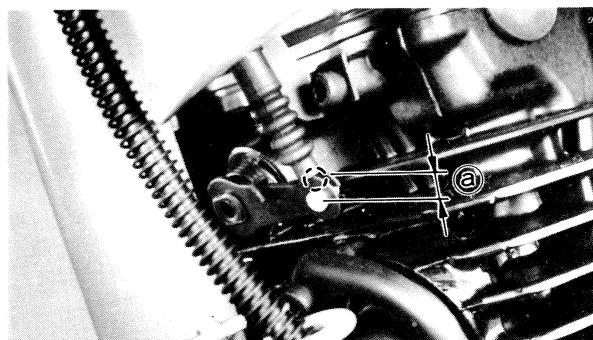
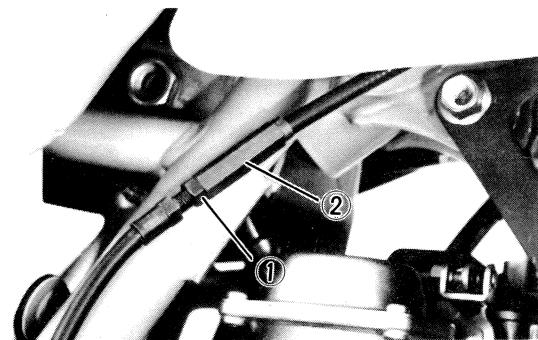
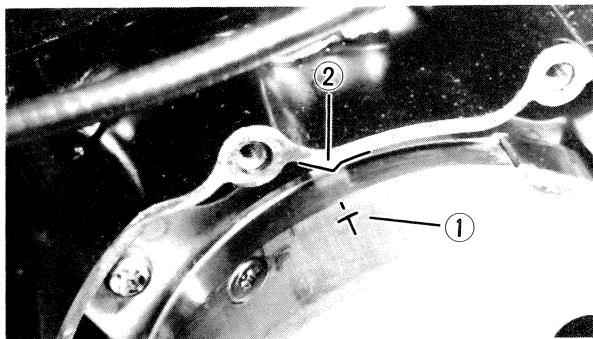
Decomp-cable adjustment must follow the valve clearance adjustment.



### Removal

#### 1. Remove:

- Footrest (Left) ①
- Change pedal ②
- Crank Case Cover (Left) ③
- Spark plug



### Adjustment

1. Turn the crankshaft counterclockwise to align the "T" mark ① on the rotor with the crankcase mark ② when the piston is at TDC on the compression stroke.

2. Loosen:

- Locknut ①

3. Turn the adjuster ② in or out until proper free play ③ is obtained.

**Decompression Lever Free Play**

③ :

2 ~ 3 mm (0.079 ~ 0.12 in)

5. Tighten:

- Locknut

### Installation

Reverse the removal procedure.

Note the following points.

1. Install:

- Spark plug



18 Nm (1.8 m·kg, 13 ft·lb)

2. Install:

- Crank Case Cover (Left)
- Change pedal
- Footrest (Left)



• Screws (Crank Case Cover):

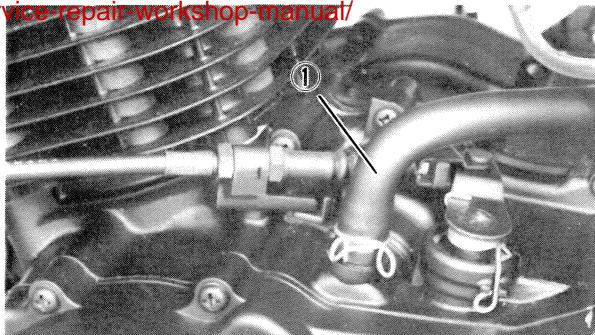
7 Nm (0.7 m·kg, 5.1 ft·lb)

• Bolt (Change pedal):

10 Nm (1.0 m·kg, 7.2 ft·lb)

• Bolts (Footrest):

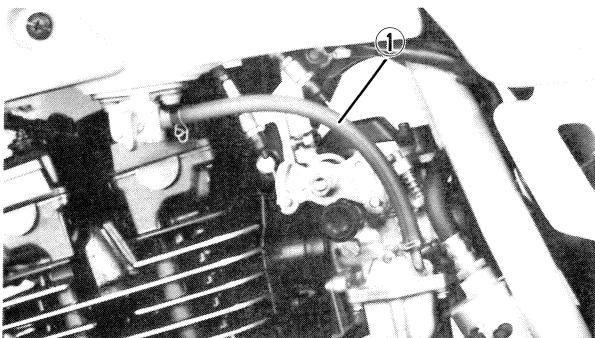
33 Nm (3.3 m·kg, 24 ft·lb)



## CRANKCASE VENTILATION PIPE INSPECTION

### 1. Inspect:

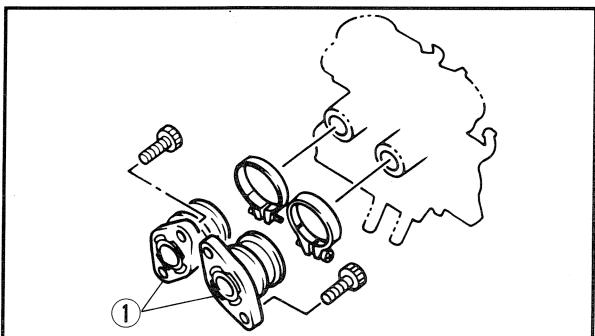
- Crankcase ventilation hose ①  
Cracks/Damage → Replace.



## FUEL LINE INSPECTION

### 1. Inspect:

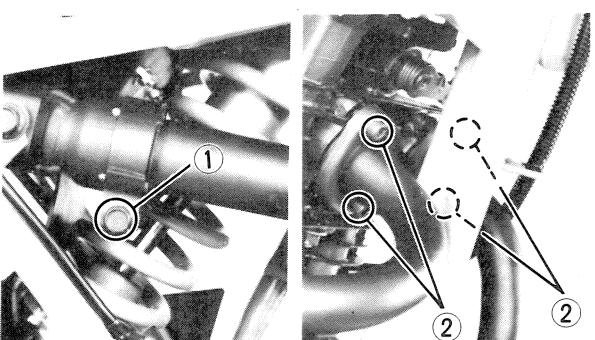
- Fuel pipe ①  
Cracks/Damage → Replace.



## INTAKE MANIFOLD INSPECTION

### 1. Inspect:

- Carburetor joint ①  
Cracks/Damage → Replace.

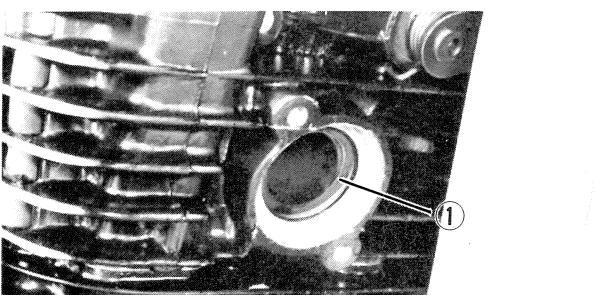


## EXHAUST PIPE GASKET INSPECTION

### Removal

### 1. Remove:

- Bolt ① (Muffler)
- Bolts ② (Exhaust pipe)



## Inspection

### 1. Inspect:

- Exhaust pipe gasket(s) ①  
Damage → Replace.