

Product: 1987-1990 Yamaha CE50T,CG50A,CG50U,CG50W Motorcycle Service Repair Workshop Manual

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YAMAHA

1987 - 1990

MOTORCYCLE

SERVICE MANUAL

Model : CE50T, CG50A, CG50U, CG50W

2YT281972000

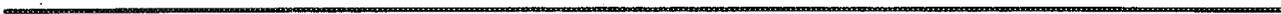


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CE50T
SERVICE MANUAL
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1st Edition, November 1986
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NOTICE

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 scooter have a basic understanding of the mechanical concepts and procedures inherent in scooter 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 scooter.

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

MANUAL FORMAT

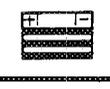
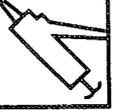
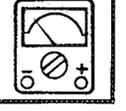
All of the procedures in this manual are organized in a sequential, step-by-step format. The information has been compiled to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and inspection operations.

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.,

- Bearings
Pitting/Damage → Replace.

EXPLODED DIAGRAM

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

<p>①</p> <p>GEN INFO</p> 	<p>②</p> <p>INSP ADJ</p> 	
<p>③</p> <p>ENG</p> 	<p>④</p> <p>COOL</p> 	
<p>⑤</p> <p>CARB</p> 	<p>⑥</p> <p>CHAS</p> 	
<p>⑦</p> <p>ELEC</p> 	<p>⑧</p> <p>APPX</p> 	
<p>⑨</p> 	<p>⑩</p> 	
<p>⑪</p> 	<p>⑫</p> 	
<p>⑬</p> 	<p>⑭</p> 	
<p>⑮</p> 	<p>⑯</p> 	<p>⑰</p> 
<p>⑱</p> 	<p>⑲</p> 	<p>⑳</p> 
<p>㉑</p> 		

ILLUSTRATED SYMBOLS (Refer to the illustration)

Illustrated symbols 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

Illustrated symbols ⑨ to ⑭ are used to identify the specifications appearing in the text.

- ⑨ Filling fluid
- ⑩ Lubricant
- ⑪ Tightening
- ⑫ Wear limit, clearance
- ⑬ Engine speed
- ⑭ Ω, V, A

Illustrated symbols 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®)

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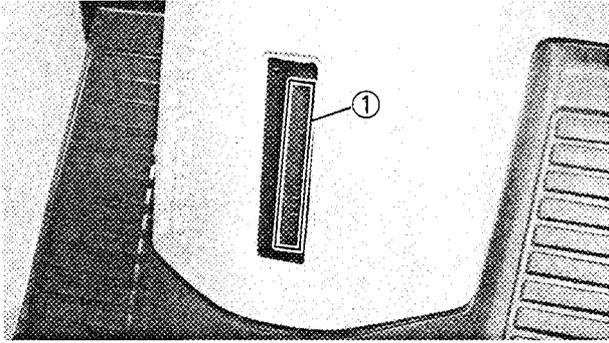
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PERIODIC INSPECTIONS AND ADJUSTMENTS	 INSP ADJ
ENGINE OVERHAUL	 ENG
CARBURETION	 CARB
CHASSIS	 CHAS
ELECTRICAL	 ELEC
APPENDICES	 APPX



CHAPTER 1 GENERAL INFORMATION

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**GENERAL
INFORMATION**

SCOOTER IDENTIFICATION

VEHICLE IDENTIFICATION NUMBER

The vehicle identification number ① is stamped into the frame.

NOTE: _____

The vehicle identification number is used to identify your scooter and may be used to register your scooter with the licensing authority in your state.

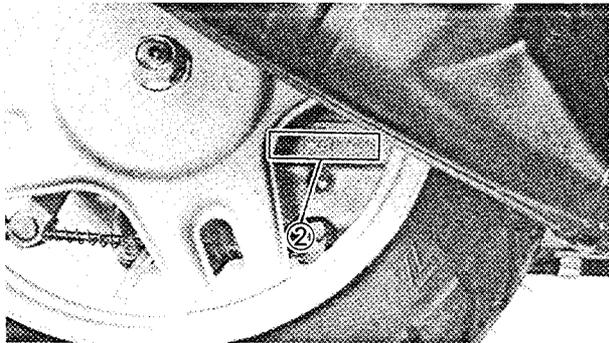
Starting Serial Number:
JYA2UG00*HA720101

ENGINE SERIAL NUMBER

The engine serial number ② is stamped into the crankcase.

NOTE: _____

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



Starting Serial Number:
14T-720101

NOTE: _____

Designs and specifications are subject to change without notice.

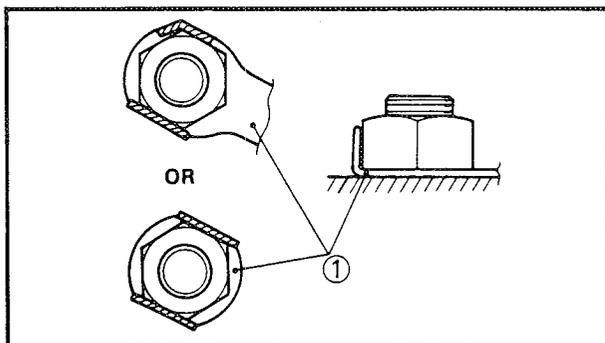
IMPORTANT INFORMATION

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.

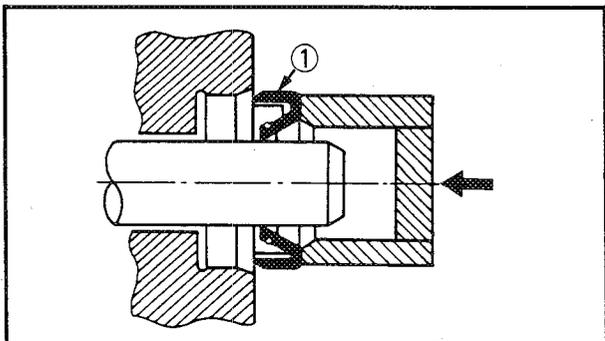
GASKETS, OIL SEALS, AND O-RINGS

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

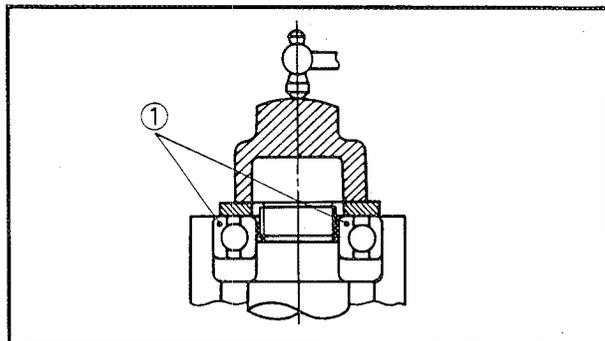
1. All lock washers/Plates ① and cotter pins must be replaced when they are removed. Lock tab(s) should be bent along the bolt or nut flat(s) after the bolt or nut has been properly tightened.



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.

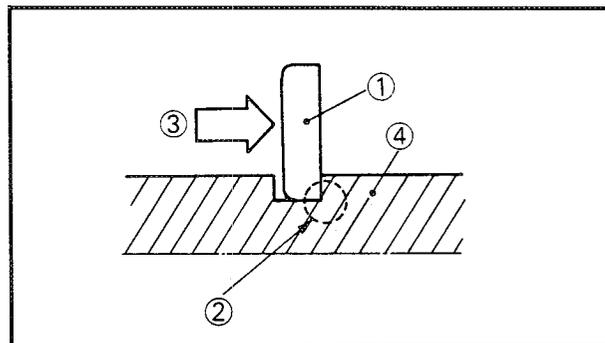
① Oil seal



CAUTION:

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

① Bearing



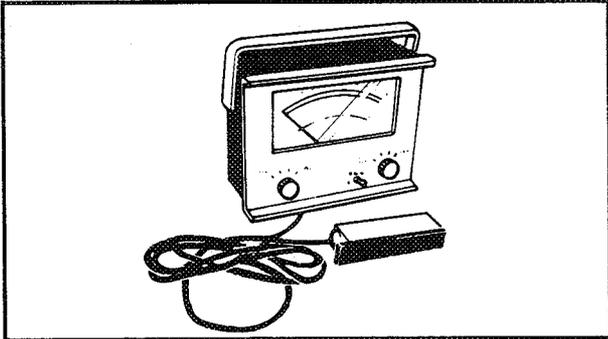
CIRCLIPS

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

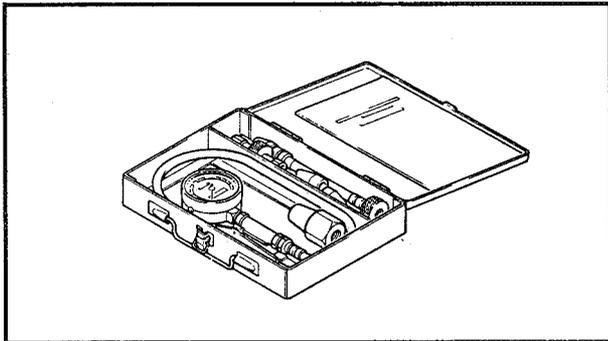
**SPECIAL TOOLS**

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**

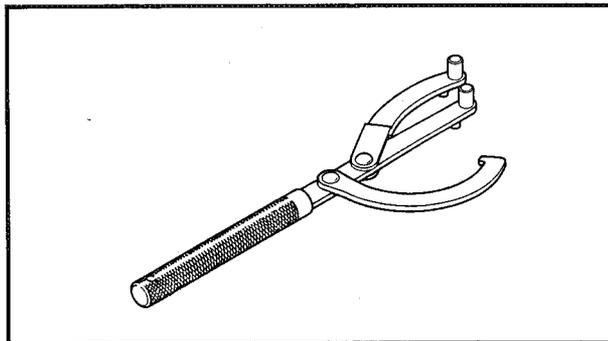
1. Inductive Tachometer
P/N. YU-08036

This tool is needed for detecting engine rpm.



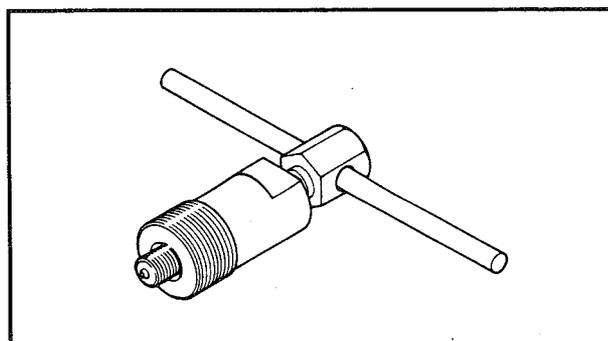
2. Compression Gauge
P/N. YU-33223

This gauge is used to measure engine compression.

**FOR ENGINE SERVICE**

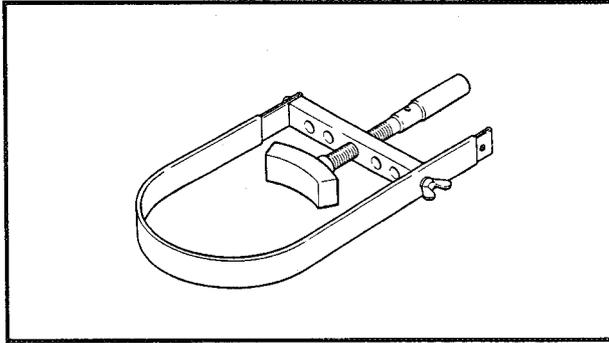
1. Flywheel Holding Tool
P/N. YU-01235

This tool is used to hold the flywheel magneto and clutch assembly when removing or installing the securing nut.



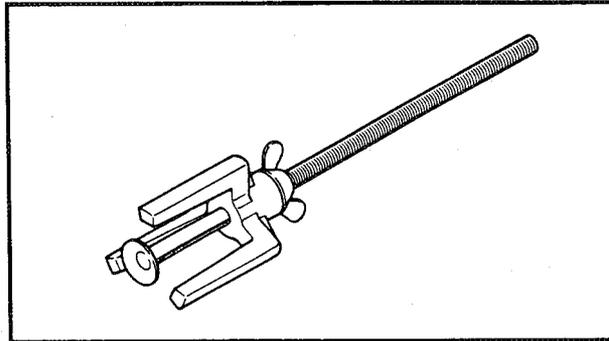
2. Flywheel Magneto Puller
P/N. YM-01189

This tool is used to remove the flywheel.



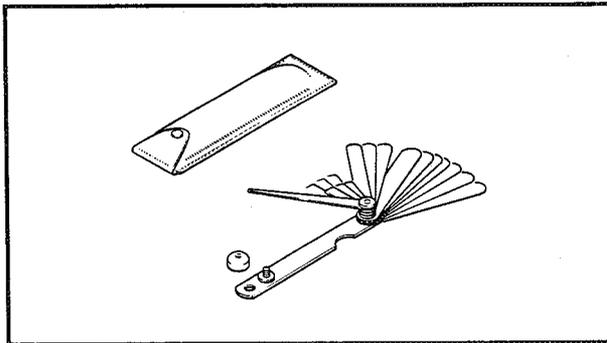
3. Primary Sheave Holder
P/N. YS-01880

This tool is used when holding the clutch hub.

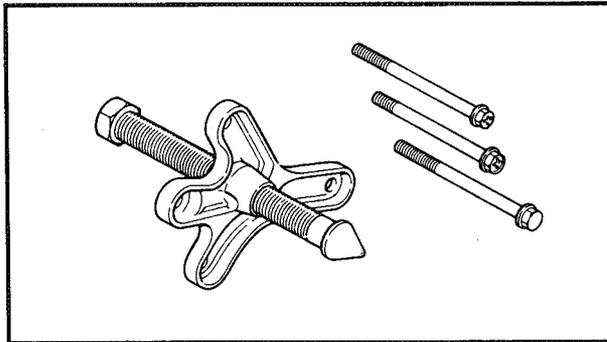


4. Clutch Spring Holder
P/N. YS-28891

This tool is used to disassembly and assembly the secondary sheave.

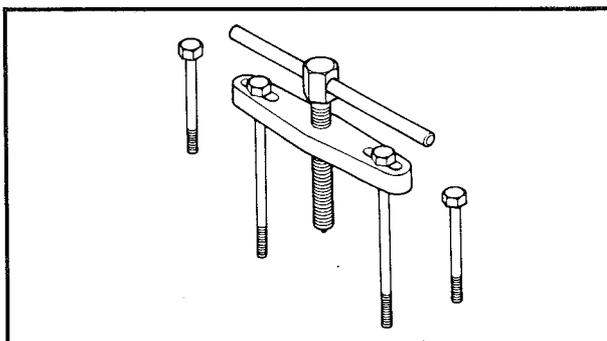


5. Thickness Gauge
P/N. YU-03001



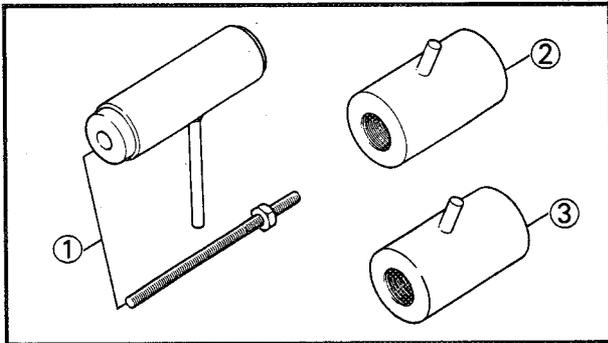
6. Universal Puller Set
P/N. YU-33270

This tool is used to remove the crankshaft from the crankcase.

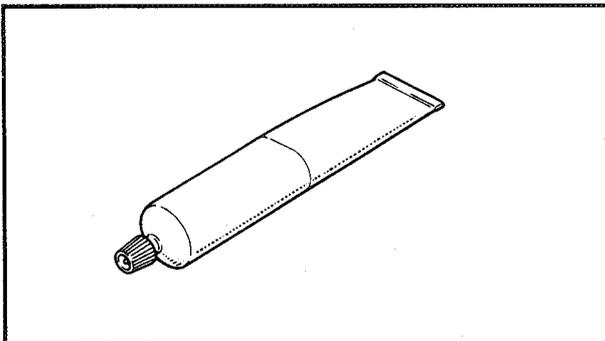


7. Crankcase Separating Tool
P/N. YU-01135

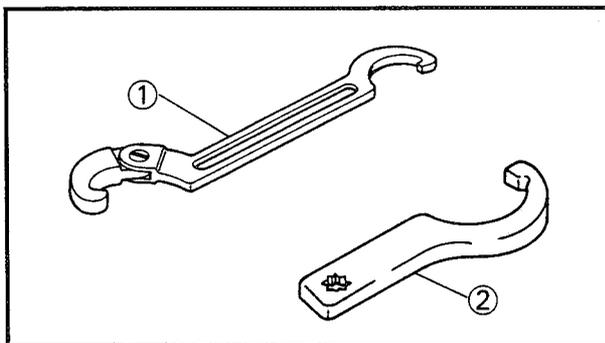
This tool is used to remove the crankshaft or separate the crankcase.



8. Crankshaft Installation Set
 P/N. YU-90050 ①
 Adapter (M10)
 P/N. YM-90062 ②
 Adapter (M12)
 P/N. YM-90063 ③
 These tools are used to install the crankshaft.



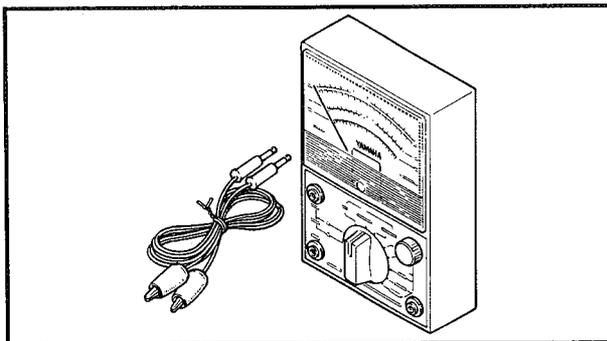
9. Sealant (Quick Gasket®)
 P/N. ACC-11001-05-01
 This sealant (bond) is used for crankcase mating surfaces.



FOR CHASSIS SERVICE

1. Ring Nut Wrench
 P/N. YU-01268 ①
 P/N. YU-33975 ②

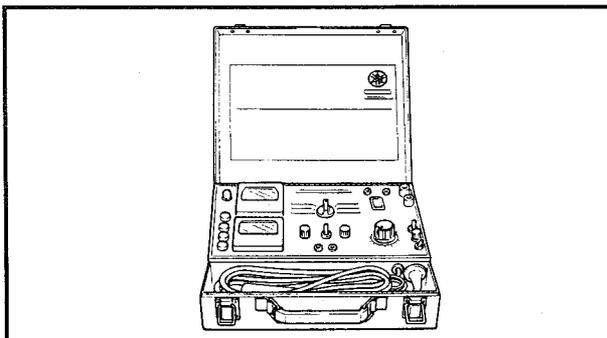
This tool is used to loosen and tighten the steering ring nut.



FOR ELECTRICAL COMPONENTS

1. Pocket Tester
 P/N. YU-03112

This instrument is invaluable for electrical system inspection and adjustment.



2. Electro Tester
 P/N. YU-33260

This instrument is necessary for ignition system inspection.

CHAPTER 2

PERIODIC INSPECTIONS AND ADJUSTMENTS

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INTRODUCTION/PERIODIC MAINTENANCE/ LUBRICATION INTERVALS

PERIODIC INSPECTIONS AND ADJUSTMENTS

INTRODUCTION

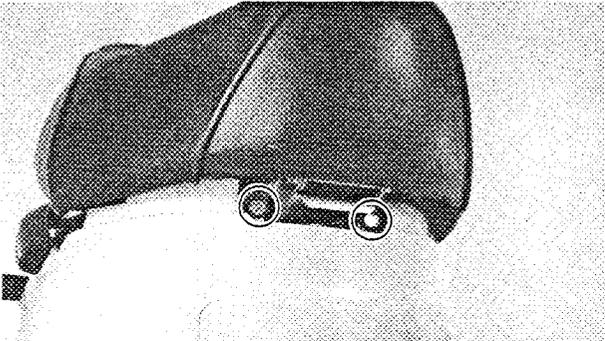
This chapter includes all information necessary to perform recommended inspections and adjustments. These preventive maintenance procedures, if followed, will ensure more reliable vehicle operation and a longer service life. The need for costly overhaul work will be greatly reduced. This information 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 INTERVALS

Unit: km (mi)

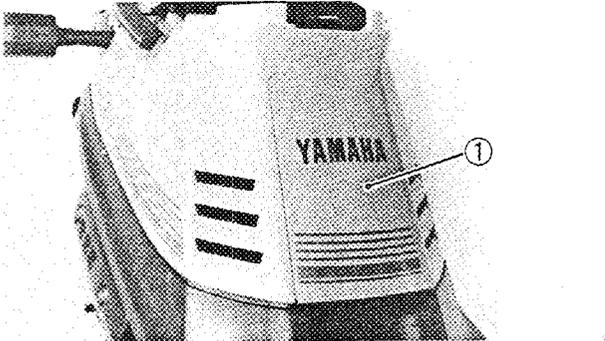
ITEM	REMARKS	BREAK-IN 500 (300)	EVERY	
			3,000 (2,000) or 6 months	6,000 (4,000) or 12 months
Spark plug	Check/Clean or replace.	○	○	○
Air filter	Clean. Replace if necessary.		○	○
Carburetor	Check/Adjust/idle speed, starter operation.	○		○
Fuel line	Check fuel hose for cracks or damage.		○	○
Transmission oil	Replace (Warm engine before draining). Every 12,000 (8,000) or 24 months.	Replace	Check	Check
Autolube pump	Check/Adjust/Air bleeding.	○		○
Brake	Check operation. Adjust if necessary.		○	○
Wheels*	Check balance/damage/runout.		○	○
Wheel bearings	Check bearings assembly for looseness/ damage. Replace if damaged.		○	○
Steering bearing	Check bearings assembly for looseness. Moderately repack every 12,000 (8,000) or 24 months.**	Check	Check	Check
Rear shock absorber	Check operation.		○	○
Fittings/Fasteners	Check all chassis fittings and fasteners.	○	○	○
Battery	Check specific gravity. Check breather pipe for proper operation.		○	○
V-belt	Check damage and wear. Replace if necessary.			○

** : Medium weight wheel bearing grease.

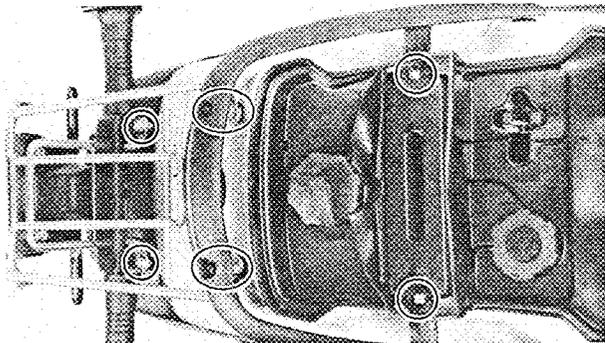


**TAIL COVER
REMOVAL**

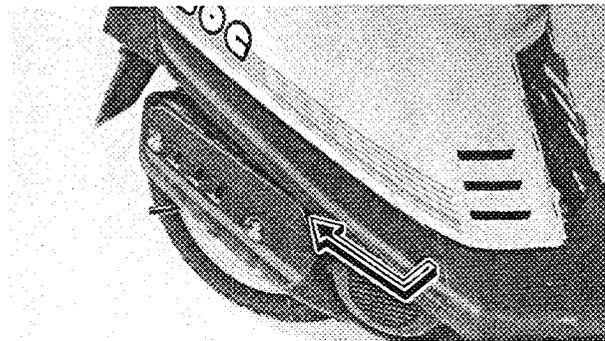
1. Open the seat lock.
2. Remove:
 - Seat



3. Remove:
 - Cover ①

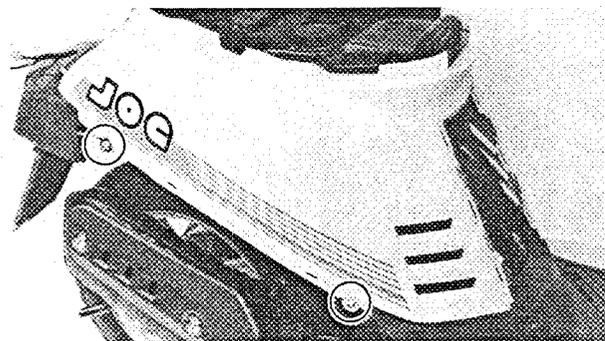


4. Remove:
 - Grab bar
 - Rear carrier
(With rear flasher lights and taillight)
5. Disconnect:
 - Rear flasher light leads
 - Taillight leads



6. Remove:
 - Side covers (Right and left)

NOTE: _____
 When removing the side cover, unhook it at the front and slide it forward.

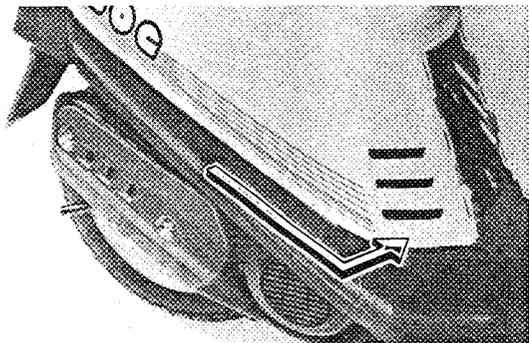


7. Remove:
 - Tail cover

INSTALLATION

When installing the tail cover, reverse the "REMOVAL" procedure.

Note the following points.



1. Install:
 - Side covers

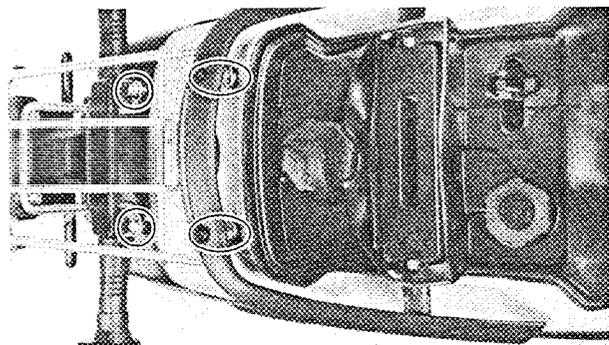
NOTE: _____

After installing the side covers, make sure that all hooks are securely fitted.

2. Connect:
 - Rear flasher light leads

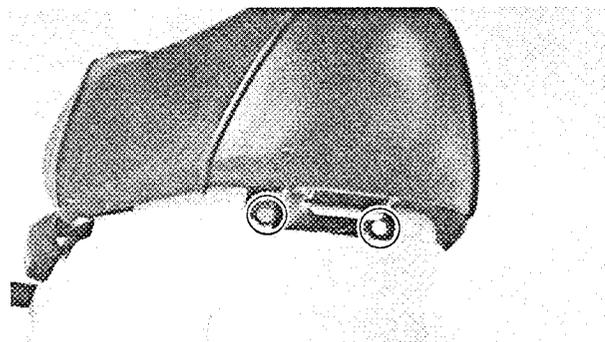
NOTE: _____

The leads of identical colors should be connected.



3. Install:
 - Rear carrier

	7 Nm (0.7 m•kg, 5.1 ft•lb)
---	-----------------------------------



4. Install:
 - Seat

	7 Nm (0.7 m•kg, 5.1 ft•lb)
---	-----------------------------------



FRONT FENDER, FRONT PANEL AND FOOTREST BOARD

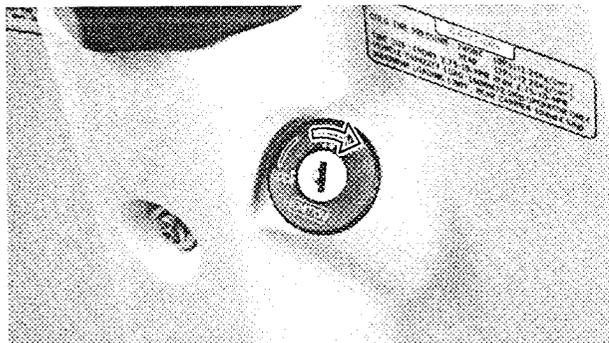
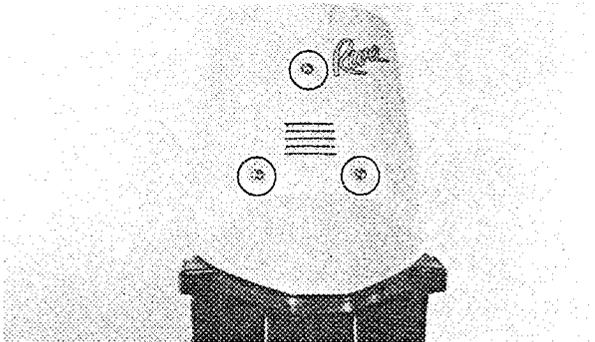
REMOVAL

1. Remove:
 - Tail cover
Refer to "TAIL COVER" section.

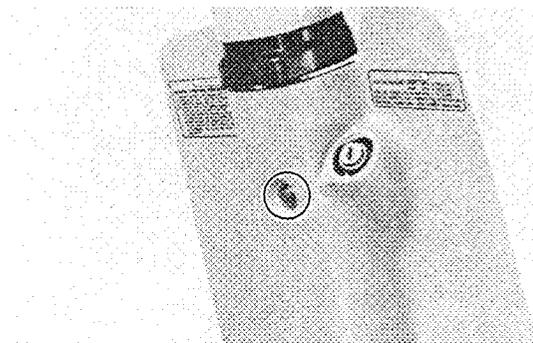
2. Remove:
 - Front fender

NOTE:

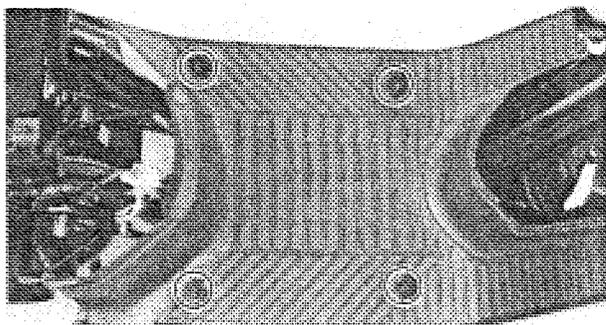
Before removing the fender, make sure that all hooks are free.



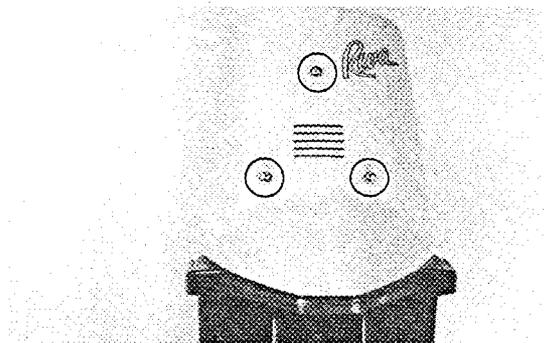
3. Remove:
 - Main switch cap
Turn the cap counterclockwise.



4. Remove:
 - Front panel



5. Remove:
 - Footrest board



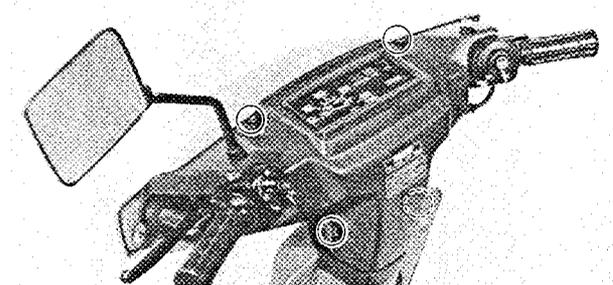
INSTALLATION

Reverse the "REMOVAL" procedure.
Note the following points.

1. Install:
 - Front fender

NOTE: _____

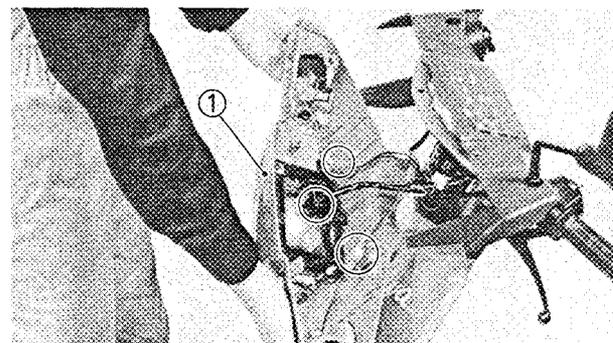
After installing the front fender, make sure that all hooks are securely fitted.



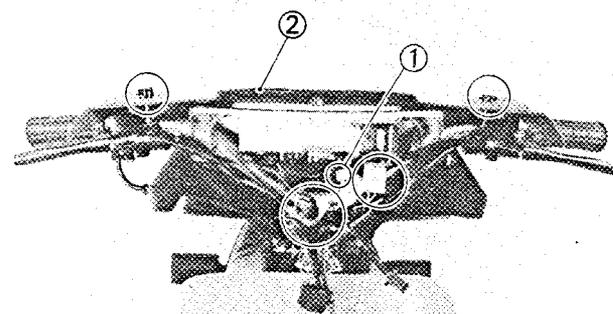
HANDLEBAR COVERS

REMOVAL

1. Remove:
 - Screws (Handlebar cover — Front)
 - Rear view mirror(s)



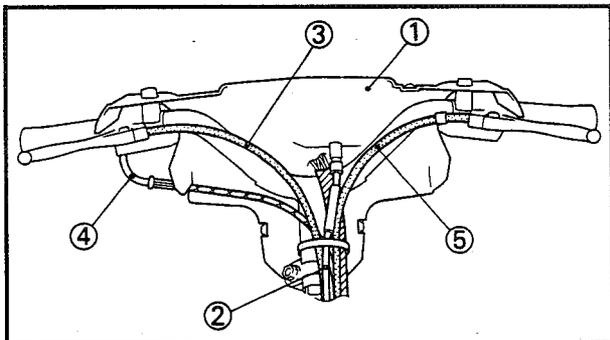
2. Disconnect:
 - Headlight lead and flasher light leads
3. Remove:
 - Handlebar cover (Front) ①



4. Disconnect:
 - Leads
 - Speedometer cable ①
5. Remove:
 - Handlebar cover (Rear) ②

HANDLEBAR COVERS/ ENGINE IDLE SPEED ADJUSTMENT

INSP
ADJ



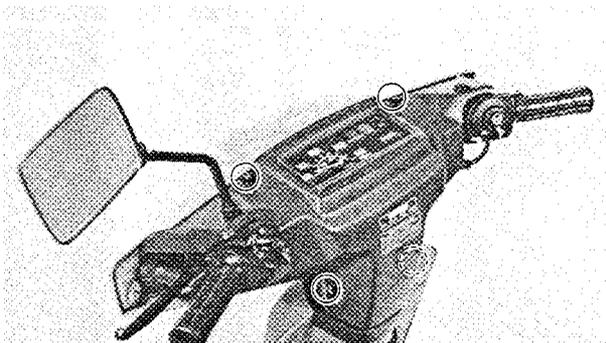
INSTALLATION

1. Install:
 - Handlebar cover (Rear) ①
2. Connect:
 - Leads
 - Speedometer cable ②

NOTE:

Position the cables as shown.

- ③ Front brake cable
- ④ Throttle cable
- ⑤ Rear brake cable



3. Connect:
 - Headlight lead and flasher light leads
4. Install:
 - Handlebar cover (Front)
 - Rear view mirror(s)

ENGINE

ENGINE IDLE SPEED ADJUSTMENT

1. Remove:
 - Tail cover.

Refer to "TAIL COVER" section.

2. Start the engine and warm it up before checking the idle speed.

NOTE:

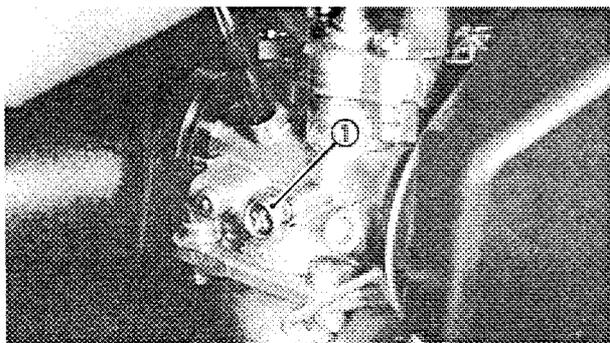
A warm engine is defined as one which had been operated for about 3 minutes at 3,000 r/min with no load.

ENGINE IDLE SPEED ADJUSTMENT/ THROTTLE CABLE FREE PLAY ADJUSTMENT

3. Attach:
- Inductive Tachometer (YU-08036)

4. Check:
- Engine idle speed
Out of specification → Adjust.

	Engine Idle Speed: 1,500 ~ 2,100 r/min
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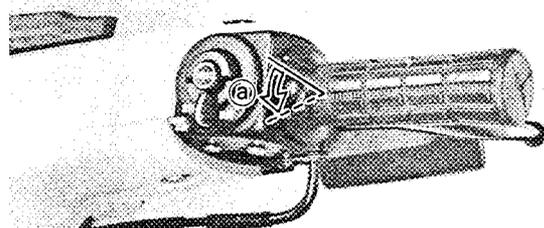


- Engine idle speed adjustment steps;**
- Start the engine at idle speed.
 - Turn the throttle stop screw ① clockwise to increase engine speed and counterclockwise to decrease engine speed.

5. Install:
- Tail cover
Refer to "TAIL COVER" section.

THROTTLE CABLE FREE PLAY ADJUSTMENT

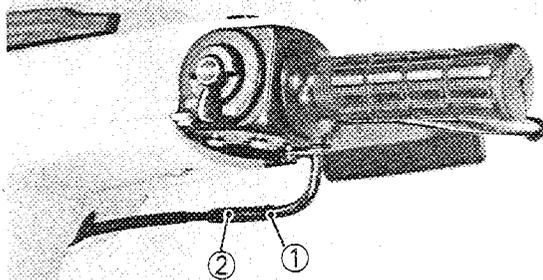
1. Check:
- Throttle cable free play ②
Out of specification → Adjust.



	Throttle Cable Free Play ②: 3.0 ~ 7.0 mm (0.12 ~ 0.28 in)
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- Throttle cable free play adjustment steps;**
NOTE: _____
Before adjusting the throttle cable free play, the engine idle speed should be adjusted.

AUTOLUBE PUMP CABLE ADJUSTMENT

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- Loosen the locknut ①.
- Turn the adjuster ② in or out until the correct free play is obtained.
- Tighten the locknut.

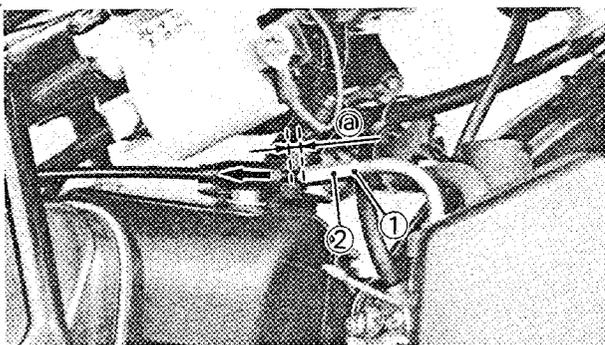
AUTOLUBE PUMP CABLE ADJUSTMENT

NOTE: _____

Before adjusting the pump cable, adjust the throttle cable free play.

1. Remove:

- Tail cover
Refer to "TAIL COVER" section.
- Front fender
- Front panel
- Footrest board
Refer to "FRONT FENDER, FRONT PANEL AND FOOTREST BOARD" section.



2. Check:

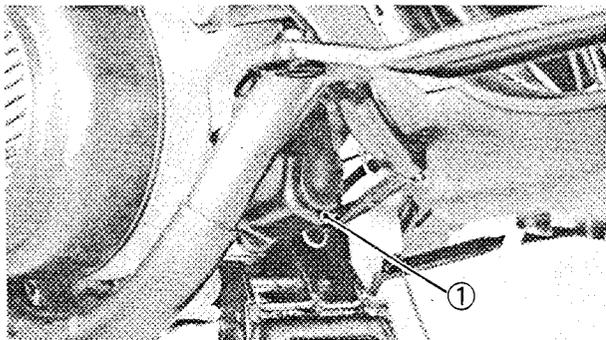
- Throttle cable free play (a)
(at carburetor side)
Out of specification → Adjust.



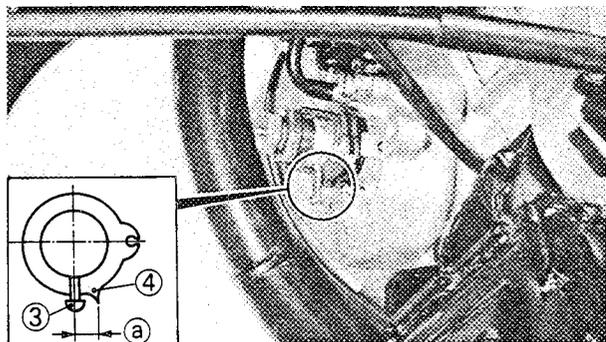
Throttle Cable Free Play (a):
1.0 mm (0.04 in)

Throttle cable free play adjustment steps;

- Loosen the locknut ①.
- Turn the adjuster ② in or out until the correct free play is obtained.
- Tighten the locknut.



3. Remove:
- Autolube pump cover ①

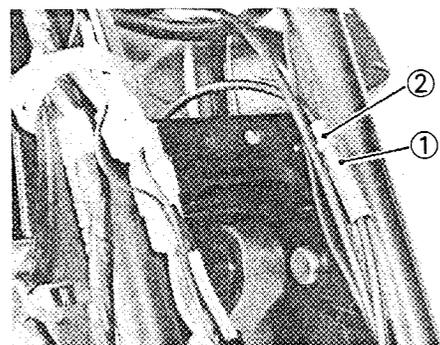


4. Close the throttle grip completely.
5. Check:
- Autolube pump pulley position ①
- Out of position → Adjust.



Autolube Pump Pulley Position

①:
0.0 ~ 1.0 mm (0.0 ~ 0.04 in)



Autolube pump pulley position adjustment steps:

- Loosen the locknut ①.
- Turn the adjuster ② in or out until the pump plunger pin ③ is aligned with the mark ④ on the pump pulley.
- Tighten the locknut.

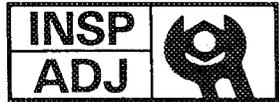
6. Install:
- Autolube pump cover
 - Footrest board
 - Front panel
 - Front fender
 - Tail cover
- Refer to "FRONT FENDER, FRONT PANEL AND FOOTREST BOARD" and "TAIL COVER" section.

AUTOLUBE PUMP AIR BLEEDING

The Autolube pump and delivery lines must be bled on the following occasions:

- Whenever the Autolube tank has run dry.
- Whenever any portion of the Autolube system is disconnected.
- If the scooter lies on its side after falling over.

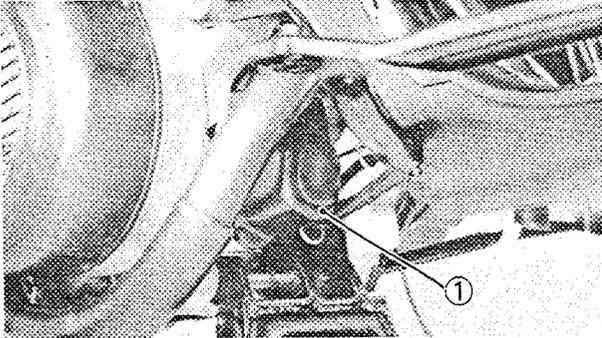
AUTOLUBE PUMP AIR BLEEDING



1. Remove:

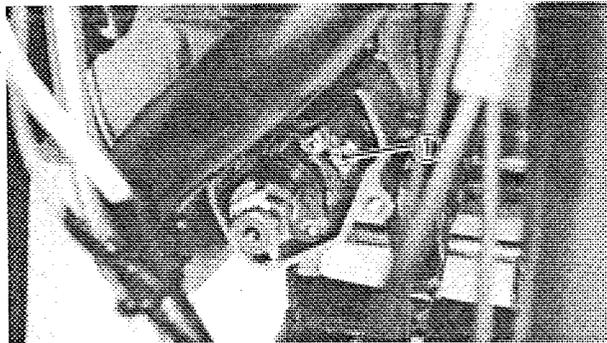
- Tail cover
- Front fender
- Front panel
- Footrest board

Refer to "TAIL COVER" and "FRONT FENDER, FRONT PANEL AND FOOTREST BOARD" section.



2. Remove:

- Autolube pump cover ①



3. Remove:

- Bleed screw ①

NOTE: _____

Place a rag under the Autolube pump.

4. Start the engine at idle speed.

5. Air bleed:

Keep the oil running out until air bubbles disappear.

NOTE: _____

Pull the pump cable all the way out to set the pump stroke to a maximum.

6. Inspect:

- Bleed screw gasket
- Damage → Replace.

7. Install:

- Bleed screw gasket
- Bleed screw

8. Keep the engine running at about 2,000 r/min for two minutes or so, and both distributor and delivery pipe can be completely bled.

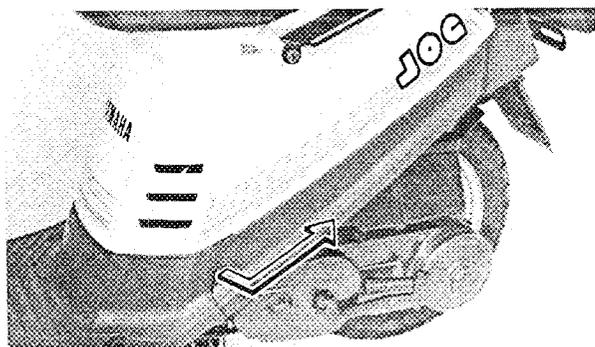
NOTE: _____

It is difficult to bleed the distributor completely with the pump stroke at a minimum, and therefore the pump stroke should be set to a maximum.

9. Install:

- Autolube pump cover
- Footrest board
- Front panel
- Front fender
- Tail cover

Refer to "FRONT PANEL, FRONT FENDER ANT FOOTREST BOARD" and "TAIL COVER" section.



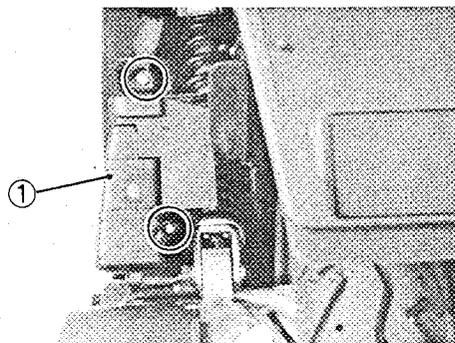
AIR CLEANER ELEMENT CLEANING

1. Remove:

- Side cover (Left)

NOTE: _____

When removing the side cover, unhook it at the front and slide it forward.



2. Remove:

- Air cleaner case cover ①
- Air cleaner element

CAUTION: _____

Never operate the engine with the air cleaner element removed. This will allow unfiltered air to enter, causing rapid wear and possible engine damage. Additionally, operation without the cleaner element will affect carburetor jetting with subsequent poor performance and possible engine overheating. Be careful not to have rags or the like blocking the intake area of the air cleaner.

3. Clean:
- Air cleaner element

Air cleaner element cleaning steps:

- Wash the element gently, but thoroughly in solvent.

WARNING:

Never use low flash point solvents such as gasoline to clean the element. Such solvent may lead to a fire or explosion.

- Squeeze the excess solvent out of the element and let dry.

CAUTION:

Do not twist the element when squeezing the element.

4. Inspect:
- Element
Damage → Replace.
5. Apply:
- Foam-air-filter oil or SAE 10W30 type SE motor oil
Onto the element.
6. Squeeze out the excess oil.

NOTE:

The element should be wet but not dripping.

7. Install:
- Air cleaner element
 - Air cleaner case cover
 - Side cover (Left)

FUEL COCK CLEANING

1. Remove:
- Tail cover
Refer to "TAIL COVER" section.

INSPECTION ADJUSTMENT FUEL COCK CLEANING

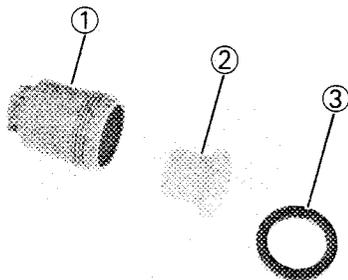


2. Drain:
 - Fuel

WARNING:

FUEL IS HIGHLY FLAMMABLE:

- Always turn off the engine when draining.
- Take care not to spill any fuel on the engine or exhaust pipe/muffler when draining.
- Never drain fuel while smoking or in the vicinity of an open flame.



3. Remove:

- Cap ①
- Filter ②
- O-ring ③

4. Clean:

- Filter
- Cap

Wash the filter and cap gently using solvent.

5. Inspect:

- Filter
- O-ring

Damage → Replace.

6. Install:

- O-ring
- Filter
- Cap
- Tail cover

Refer to "TAIL COVER" section.