

Product: 1987-2000 Yamaha SH50A,SH50B,SH50F,SH50H,SH50J,SH50K,SH50M,SH50T,SH50U,SH50W Motorcycle Service
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YAMAHA

1987 - 2000

MOTORCYCLE

SERVICE MANUAL

**Model : SH50A, SH50B, SH50F, SH50H,
SH50J, SH50K, SH50M, SH50T, SH50U,
SH50W**

2FU281972000



Sample of manual. Download All 185 pages at:

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Product: 1987-2000 Yamaha SH50A,SH50B,SH50F,SH50H,SH50J,SH50K,SH50M,SH50T,SH50U,SH50W Motorcycle Service
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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 motorcycles 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.

This model has been designed and manufactured to perform within certain specifications in regard to performance and emissions. Proper service with the correct tools is necessary to ensure that the scooter will operate as designed. If there is any question about a service procedure, it is imperative that you contact a Yamaha dealer for any service information changes that apply to this model. This policy is intended to provide the customer with the most satisfaction from his scooter and to conform with federal environmental quality objectives.

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

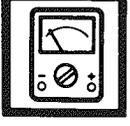
All of the procedures in this manual are organized in a sequential, step-by-step format. The information has been compiled to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and inspection operations.

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.

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

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.

- 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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CHASSIS	 CHAS 5
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CHAPTER 1

GENERAL INFORMATION

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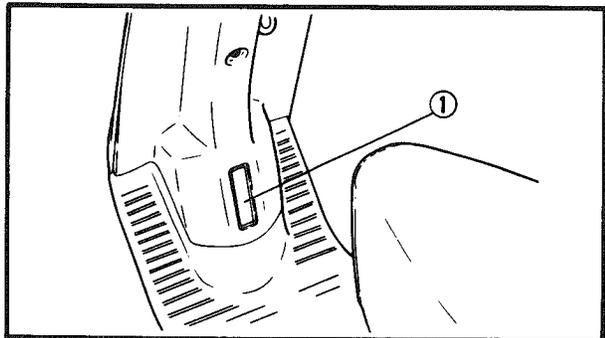
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1



GENERAL INFORMATION

SCOOTER IDENTIFICATION

VEHICLE IDENTIFICATION NUMBER

The vehicle identification number ① is stamped into the frame.

Starting Serial Number:
SH50T.....JYA2FU00 * HA000101

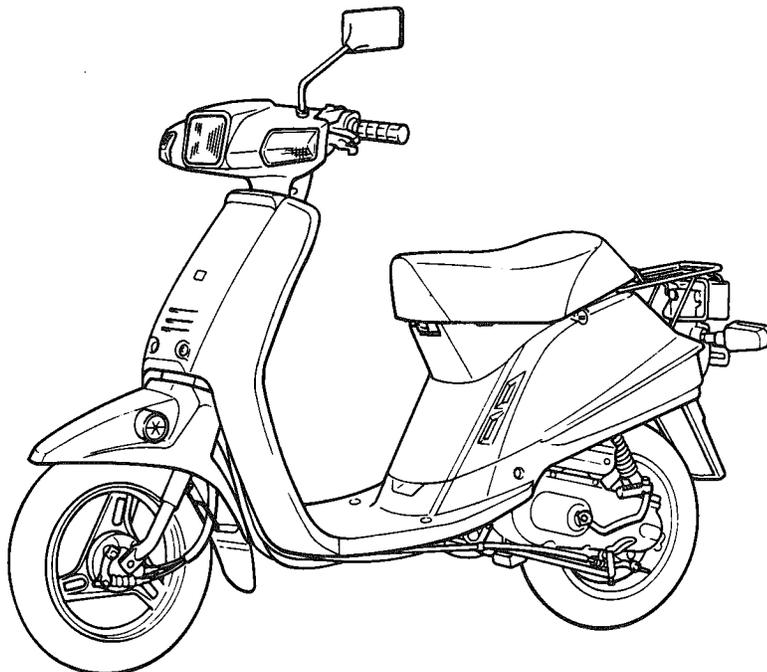
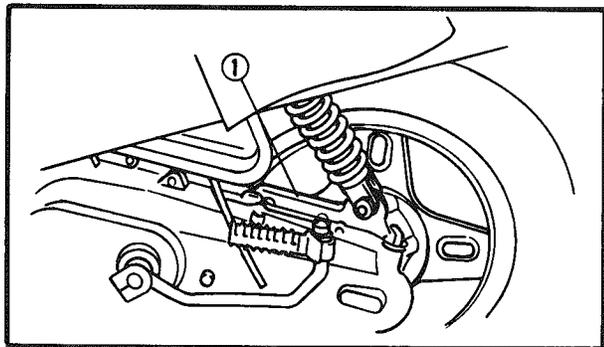
NOTE: _____
The vehicle identification number is used to identify your scooter and may be used to register your scooter with the licensing authority in your state.

ENGINE SERIAL NUMBER

The engine serial number ① is stamped into the crankcase.

Starting Serial Number:
SH50T.....2FU-000101

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



IMPORTANT INFORMATION

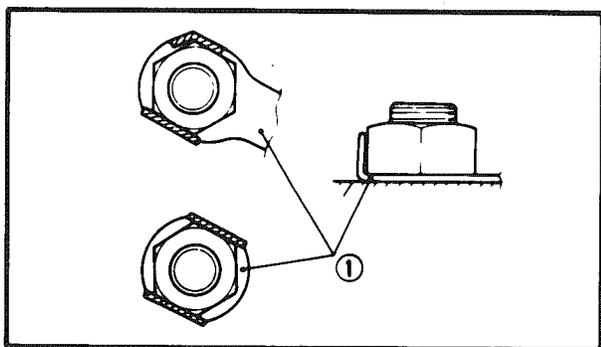
ALL REPLACEMENT PARTS

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

1

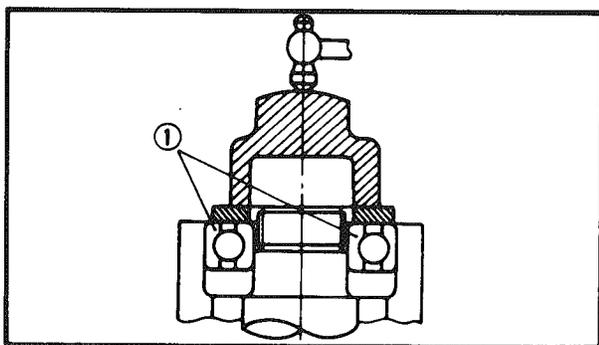
GASKETS, OIL SEALS, AND O-RINGS

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.



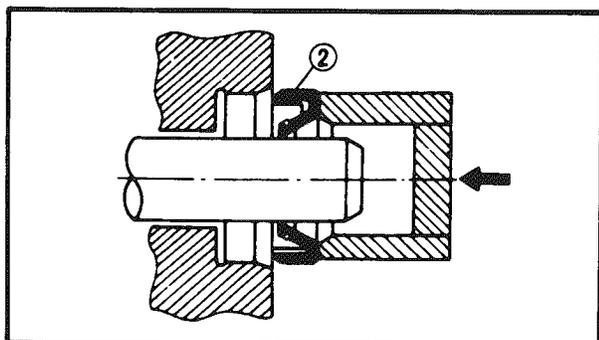
LOCK WASHERS/PLATES AND COTTER PINS

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

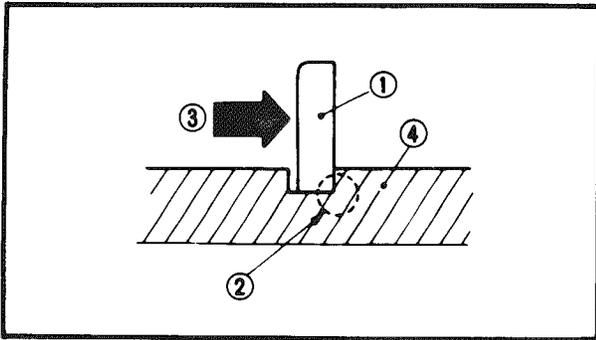
1. Install the bearing(s) ① and oil seal(s) ② with their manufacturer's marks or numbers facing outward. (In other words, the stamped letters must be on the side exposed to view.) When installing oil seal(s), apply a light coating of light-weight lithium base grease to the seal lip(s). Oil the bearings liberally when installing.



CAUTION:

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

1



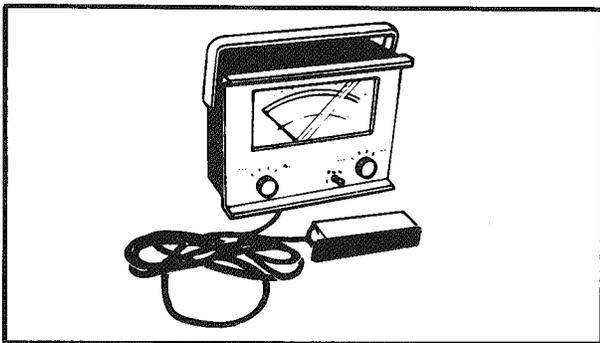
CIRCLIPS

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

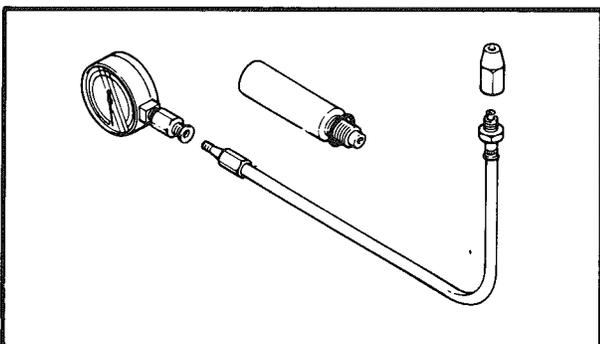
The proper special tools are necessary for complete and accurate tune-up and assembly. Using the correct special tool will help prevent damage caused by the use of improper tools or improvised techniques.



FOR TUNE-UP

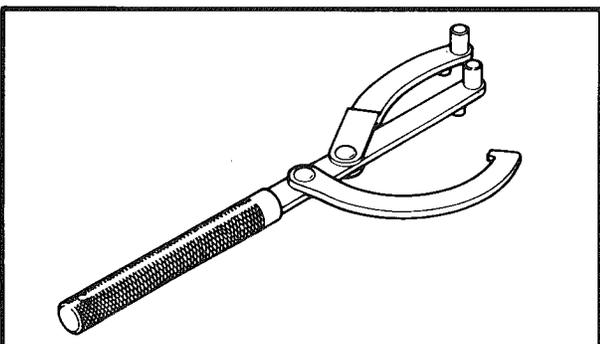
1. Inductive Tachometer
P/N. YU-08036

This tool is needed for detecting engine rpm.



2. Compression Gauge
P/N. YU-33223

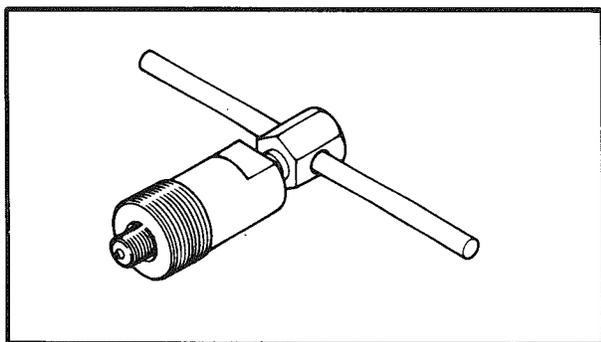
This gauge is used to measure engine compression.



FOR ENGINE SERVICE

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

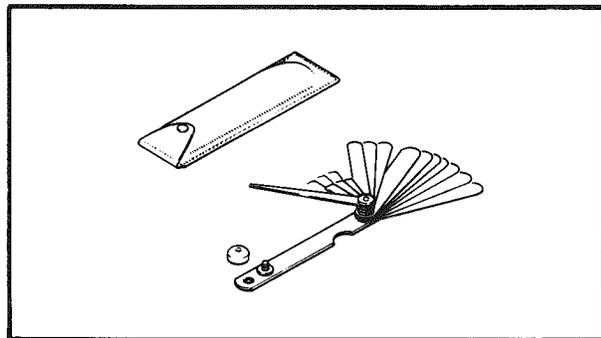
This tool is used to hold the flywheel magneto and clutch assembly when removing or installing the securing nut.



2. Flywheel Magneto Puller

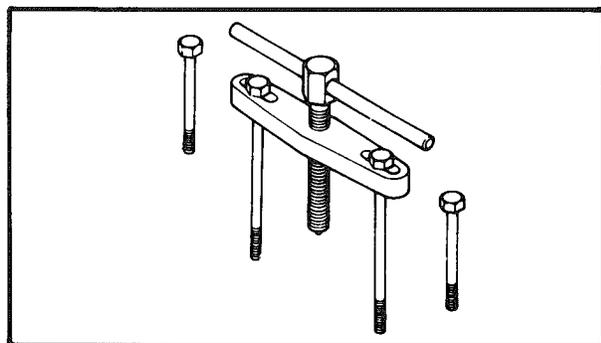
P/N. YM-01189

This tool is used to remove the flywheel.



3. Thickness Gauge

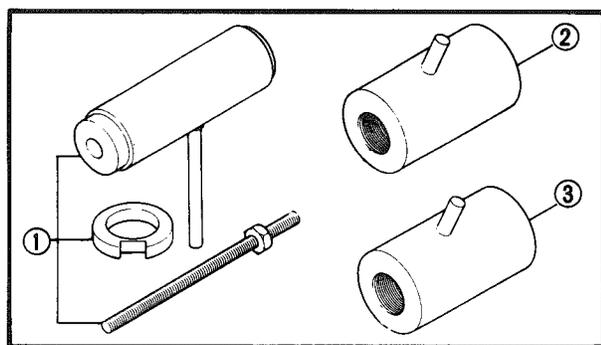
P/N. YU-03001



4. Crankcase Separating Tool

P/N. YU-01135

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



5. Crankshaft Installation Set

P/N. YU-90050 – ①

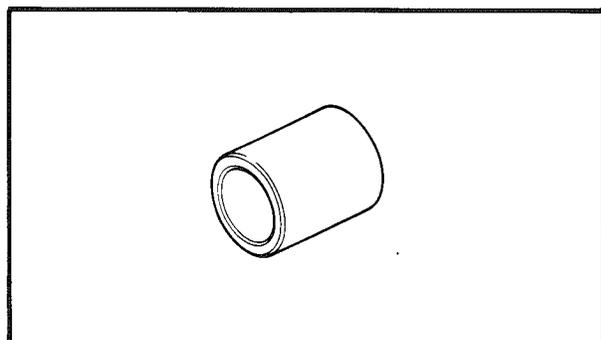
Adapter (M10)

P/N. YM-90062 – ②

Adapter (M12)

P/N. YM-90063 – ③

These Tools are used to install the crankshaft.



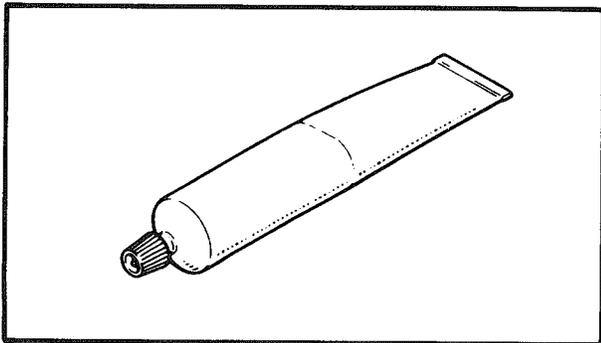
6. Crankshaft Installer Spacer

P/N. YM-01411

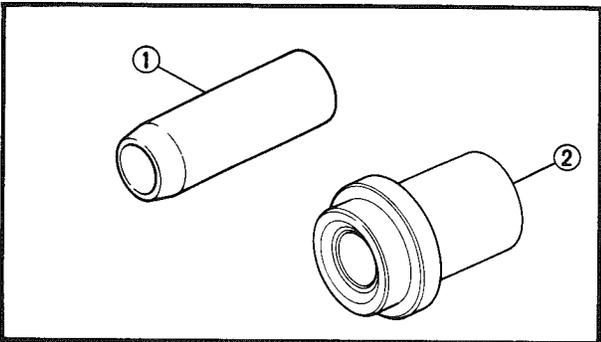
This tool is used to install the crankshaft.

1

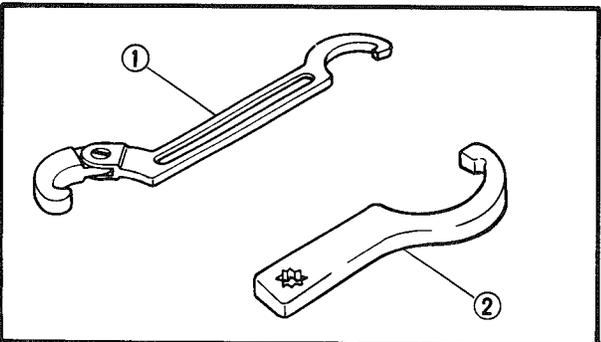
1



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

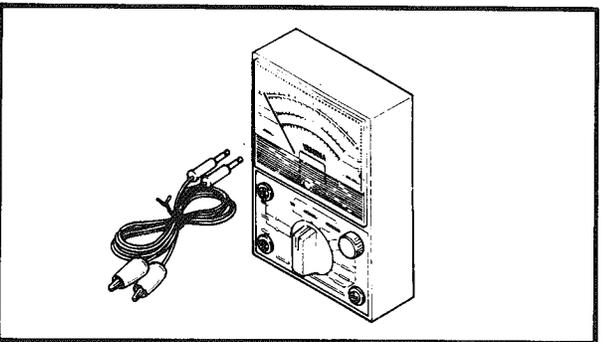


8. Oil seal guide
P/N. YM-01409 – ①
Oil seal driver
P/N. YM-01410 – ②
These tools are used to install the crankshaft oil seal.



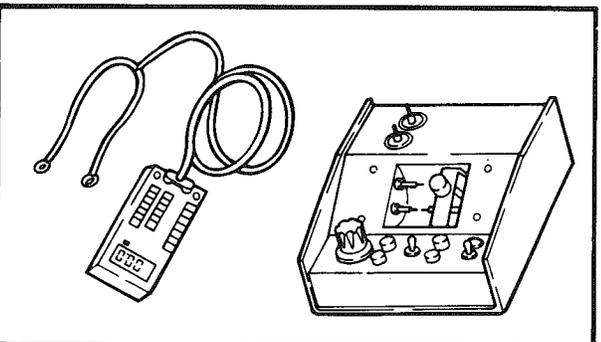
FOR CHASSIS SERVICE

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 INSPECTION 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.

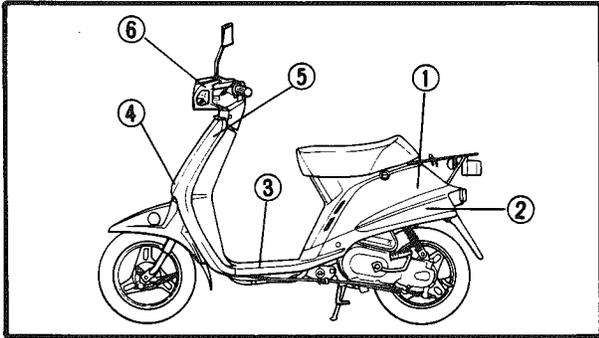
PERIODIC MAINTENANCE/LUBRICATION INTERVALS

Unit: km (miles)

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

*: It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic.

** : Medium weight wheel bearing grease.



COVERS REMOVAL AND INSTALLATION

- ① Tail cover
- ② Mole (Left and right)
- ③ Footrest board
- ④ Front panel
- ⑤ Leg shield
- ⑥ Handlebar covers (Front and rear)

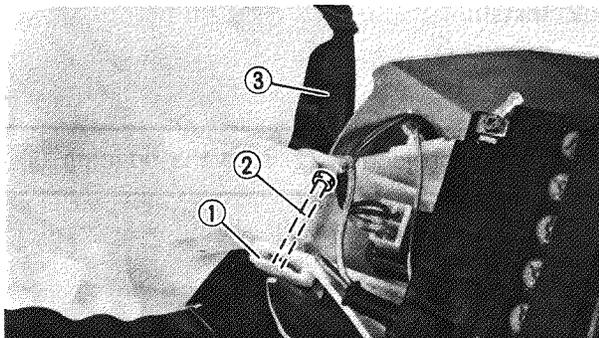
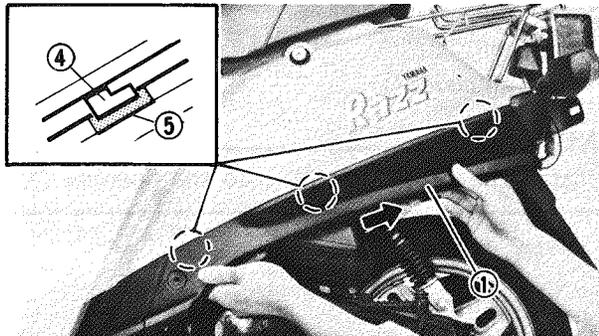
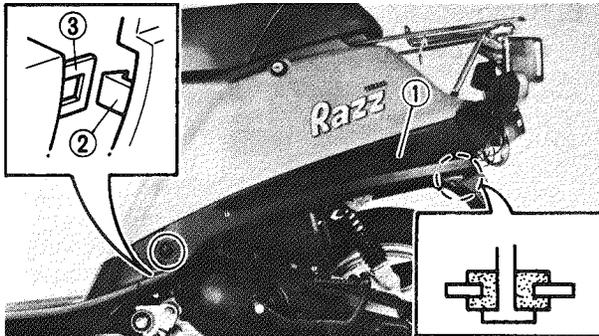
TAIL COVER AND MOLES

Removal

1. Remove:
 - Mole (Left and right) ①

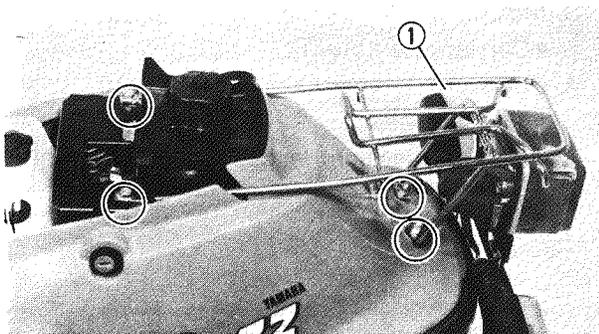
NOTE:

- Unhook the pawl ② out of groove ③ of the footrest board.
- Slide the mole backward and unhook the pawl ④ out of groove ⑤ of the tail cover.



2. Remove:

- Clip ①
- Pin ②
- Seat ③



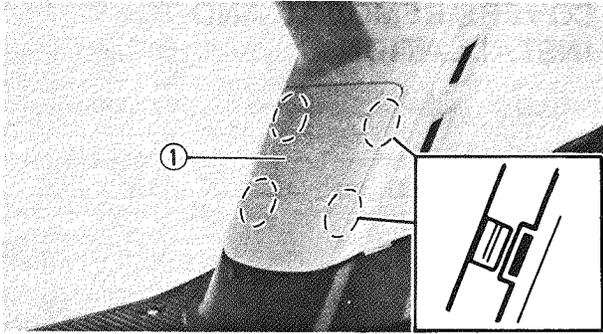
3. Disconnect:

- Taillight leads
- Rear flasher light leads

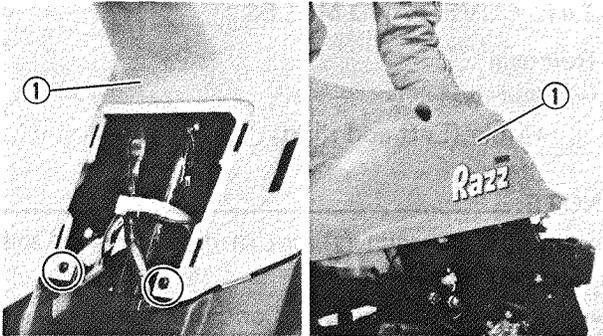
4. Remove:

- Carrier assembly ①

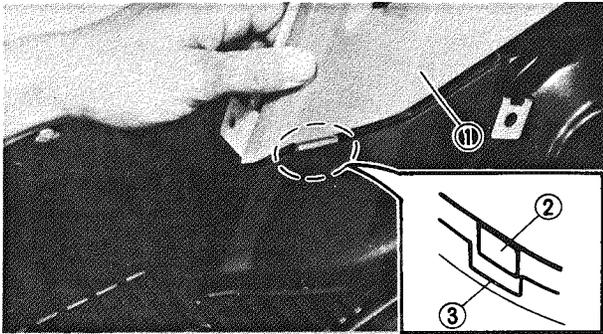
2



5. Remove:
- Cover ①



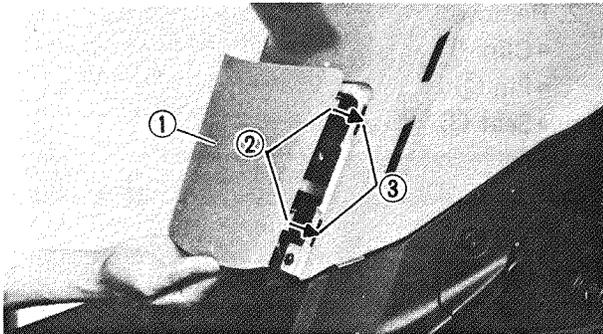
6. Remove:
- Tail cover ①



Installation

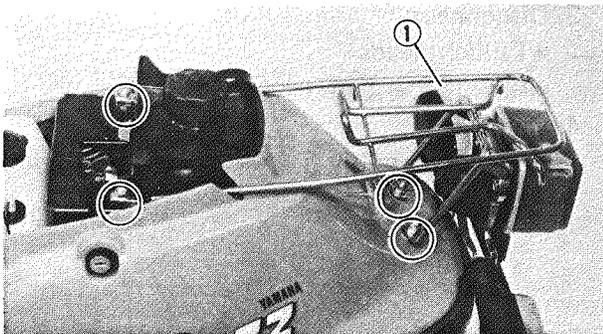
1. Install:
- Tail cover ①

NOTE: _____
Install the projection ② into the opening ③ .



2. Install:
- Cover ①

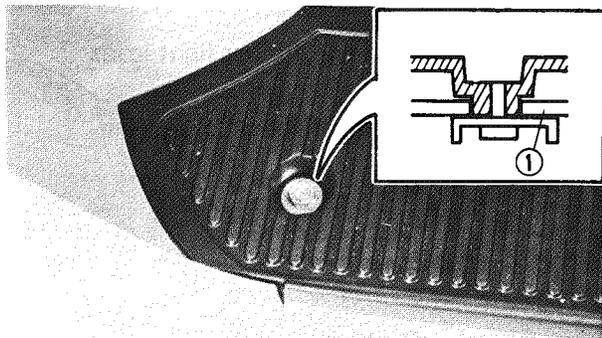
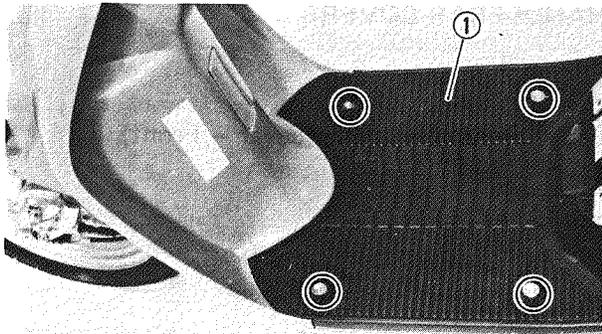
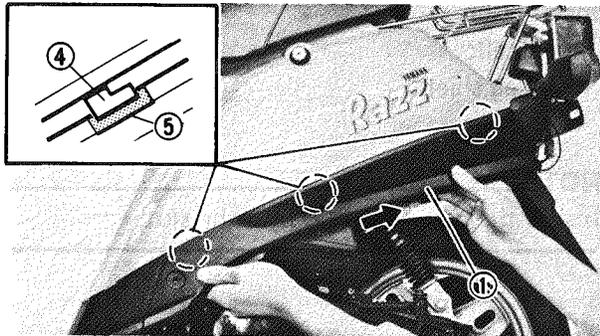
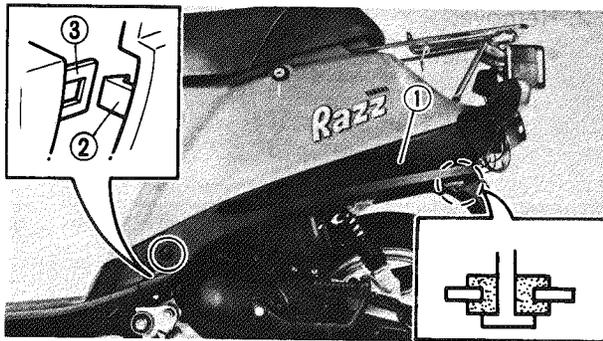
NOTE: _____
Install the projection ② into the opening ③ .



3. Install:
- Carrier assembly ①
4. Connect:
- Taillight leads
 - Rear flasher light leads

2

FOOTREST BOARD/ FRONT PANEL AND LEG SHIELD



5. Install:

- Mole (Left and right) ①

NOTE:

- Hook the pawl ② onto the opening ③ , and slide the mole forward.
- Hook the pawl ④ onto the opening ⑤ .

2

FOOTREST BOARD

Removal

1. Remove:

- Tail cover

Refer to "TAIL COVER AND MOLE" section.

2. Remove:

- Footrest board ①

Installation

1. Install:

- Footrest board ①

2. Install:

- Tail cover

FRONT PANEL AND LEG SHIELD

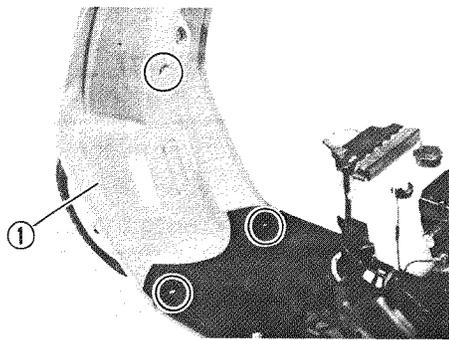
Removal

1. Remove:

- Front panel ①

NOTE:

Unhook the projection ② by pulling up the front panel.



2. Remove:
- Leg shield ①

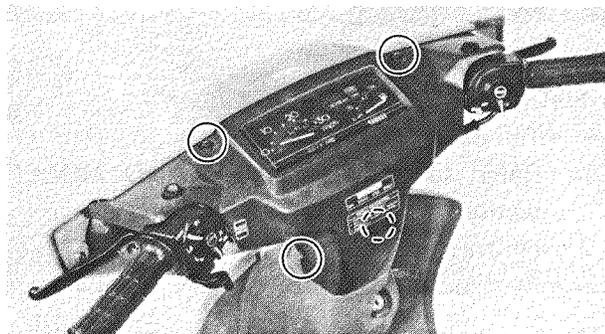
2



Installation

1. Install:
- Leg shield
 - Front panel ①

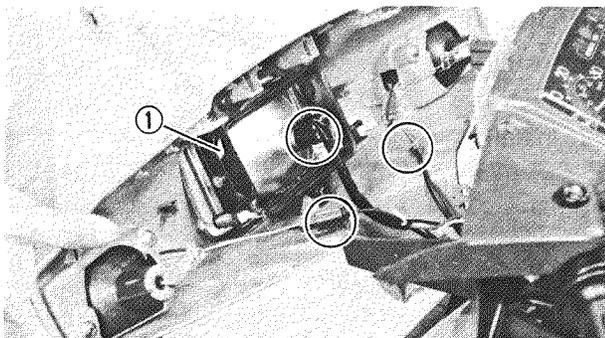
NOTE: _____
Install the projection ② into the slot.



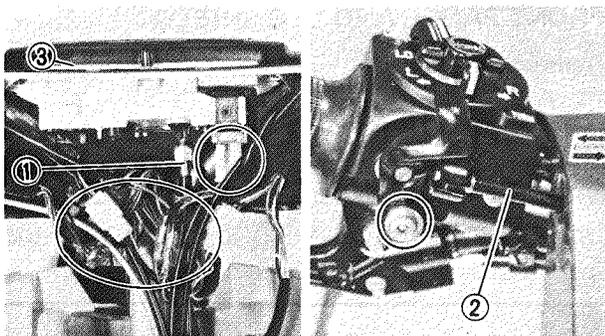
HANDLEBAR COVERS

Removal

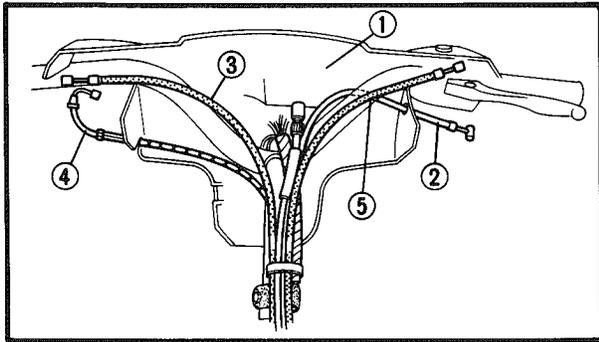
1. Remove:
- Screws (Handlebar cover – Front)



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



4. Disconnect:
- Leads
 - Speedometer cable ①
 - Starter cable ②
5. Remove:
- Handlebar cover (Rear) ③



Installation

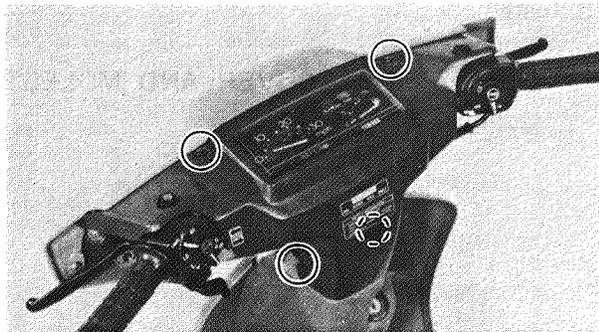
1. Install:
 - Handlebar cover (Rear) ①
2. Connect:
 - Leads
 - Speedometer cable
 - Starter cable ②

NOTE: _____

- Position the cables as shown.
- Pass the starter cable ② through the handlebar cover (Rear) ① hole.

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

2



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

ENGINE

IDLE SPEED ADJUSTMENT

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

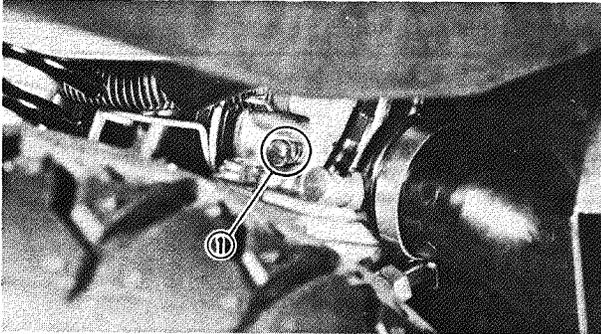
2. Start the engine and warm it up before checking the idle speed.

NOTE: _____

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



2

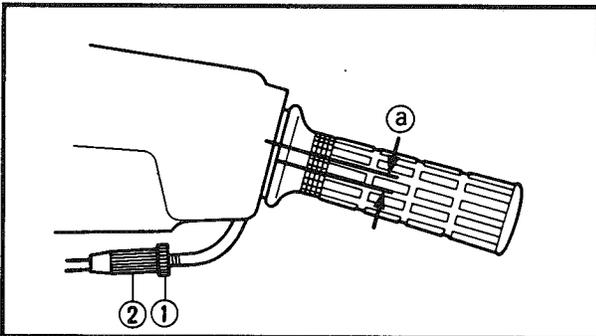


3. Attach:
 - Inductive Tachometer (YU-08036)
4. Check:
 - Engine idle speed
 Out of specification → Adjust.

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

Engine idle speed adjustment steps: <ul style="list-style-type: none"> ● 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 AND MOLES" section.



THROTTLE CABLE ADJUSTMENT

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

	Throttle Cable Free Play ② : 3.0 ~ 5.0 mm (0.12 ~ 0.20 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. _____
--



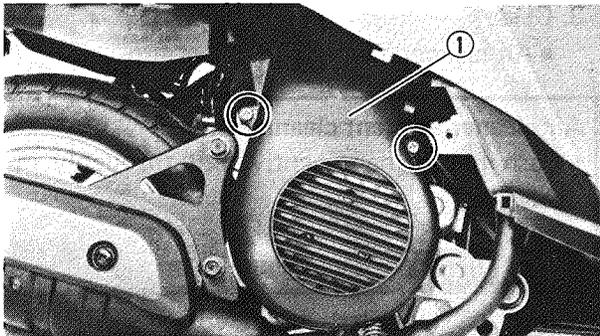
- Loosen the locknut ①.
- Turn the adjuster ② in or out until the correct free play is obtained.
- Tighten the locknut.

AUTOLUBE PUMP AIR BLEEDING

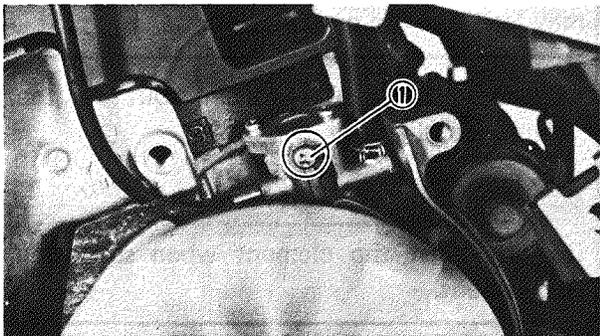
The Autolube pump and delivery lines must be bled on the following occasions:

- Whenever the Autolube tank has run dry.
- Whenever any portion of the Autolube system is disconnected.

2



1. Remove:
 - Mole (Right)
Refer to "TAIL COVER AND MOLES" section.
 - Fan cover ①



2. Remove:
 - Bleed screw ①

NOTE: _____
Place a rag under the autolube pump.

3. Bleed:
 - Air
Keep the oil running out until air bubbles disappear.

NOTE: _____
Clean the oil stains on the engine and CDI magneto.

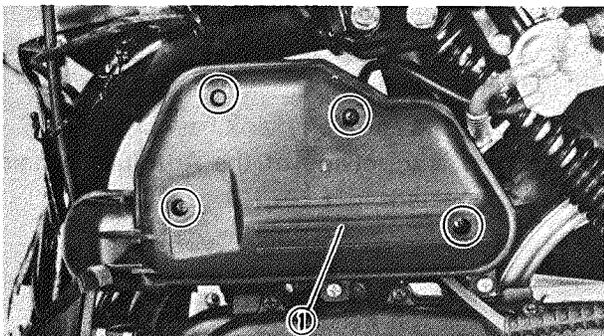
4. Inspect:
 - Bleed screw gasket
Damage → Replace.
5. Install:
 - Bleed screw gasket
 - Bleed screw
 - Fan cover
 - Mole (Right)



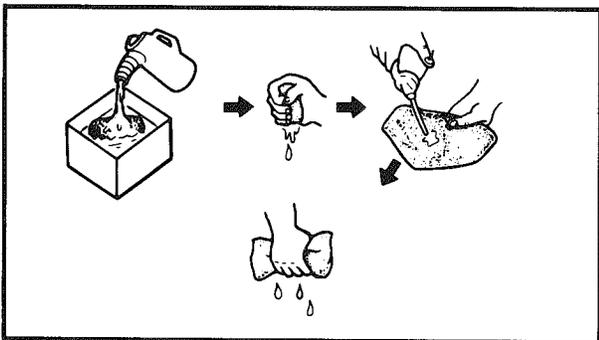
AIR CLEANER ELEMENT CLEANING

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

2



2. Remove:
 - Air cleaner case cover ①
 - Air cleaner element



3. Clean:
 - Air cleaner element

Air cleaner element cleaning steps:

- Wash the element gently, but thoroughly in solvent.

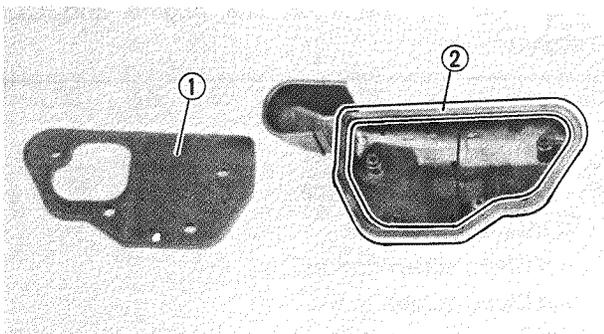
WARNING:

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:
 - Air cleaner element ①
 - Seal ②
Damage → Replace.

5. Apply:
 - Foam-air-filter oil or 2-stroke engine 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
8. Install:
 - Tail cover

CAUTION: _____

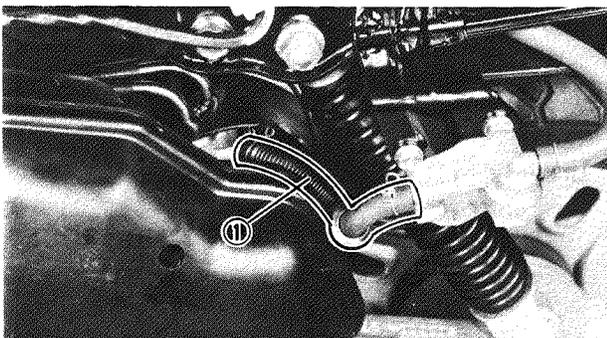
Never operate the engine with the air cleaner element removed. This will allow unfiltered air to enter, causing rapid wear and possible engine damage. Additionally, operation without the cleaner element will affect carburetor jetting with subsequent poor performance and possible engine overheating.

Be careful not to have rags or the like blocking the intake area of the air cleaner.

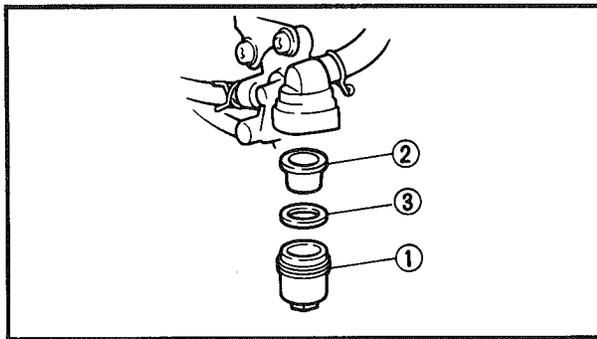
2

FUEL LINE INSPECTION

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



2. Inspect:
 - Fuel hose ①
Cracks/Damage → Replace.
3. Install:
 - Tail cover
Refer to "TAIL COVER AND MOLE" section.


2

FUEL COCK CLEANING

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

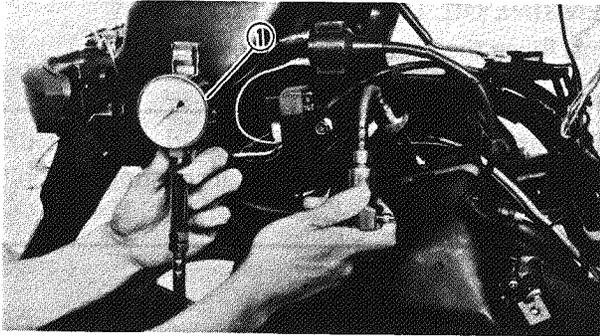
COMPRESSION PRESSURE MEASUREMENT

Insufficient compression pressure will result in performance loss and may indicate worn or damaged piston-rings.

1. Remove:

- Tail cover

Refer to "TAIL COVER AND MOLE" section.



2. Warm up engine for several minutes, then stop the engine.
3. Remove:
 - Spark plugs
4. Connect:
 - Compression Gauge (YU-33223) ①
5. Measure:
 - Compression

NOTE: _____

- Start the starter motor and throttle valve wide-open until the pressure indicated on gauge can rise no further. Compression should be within the specified levels.
- Be sure to use a battery that is fully charged.

Compression Pressure (at sea level):

Standard490 kPa
 (5.0 kg/cm² , 71 psi)
 Minimum.373 kPa
 (3.8 kg/cm² , 54 psi)

WARNING: _____

When cranking engine, ground spark plug wires to prevent sparking.

Compression test steps (below minimum levels):

- Squirt a few drops of oil into cylinder.
- Measure compression again.

Reading	Diagnosis
Higher than without oil	• Worn cylinder, piston and piston rings
Same as without oil	• Defective piston, ring(s), valve(s) and cylinder head gasket

Compression test steps (above standard levels):

- Check cylinder head or piston crown for carbon deposits.

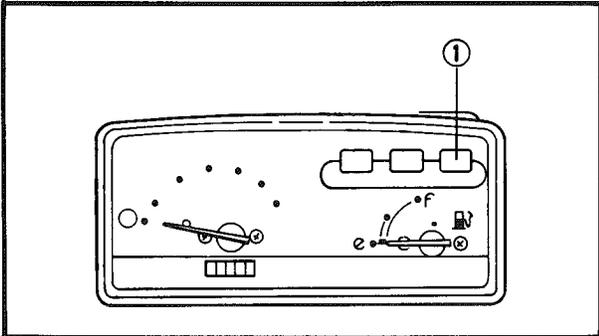
ENGINE OIL LEVEL INSPECTION

1. Place the scooter on the level place.

NOTE: _____

Be sure the scooter is positioned straight up and on both wheels when inspecting the oil level.

2

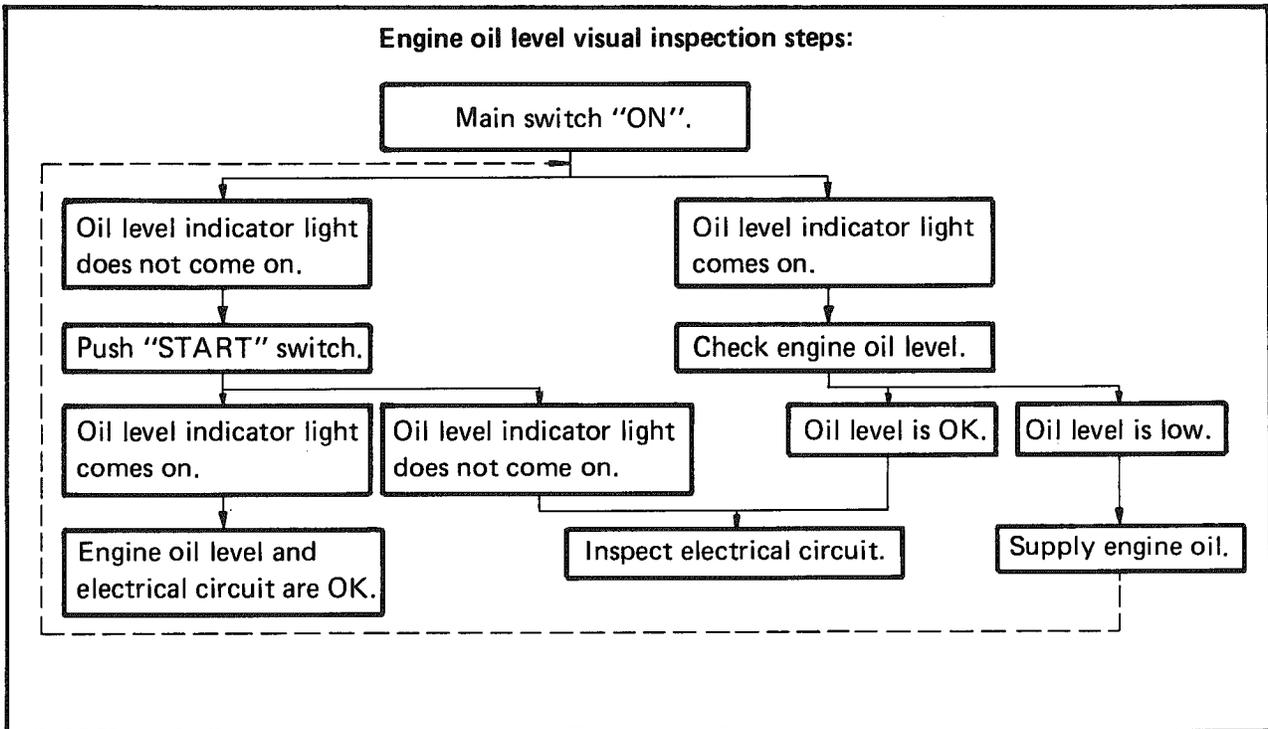


2. Inspect:

- Engine oil level
- Oil level low → Add sufficient oil by the following inspection steps.

① "OIL" indicator light

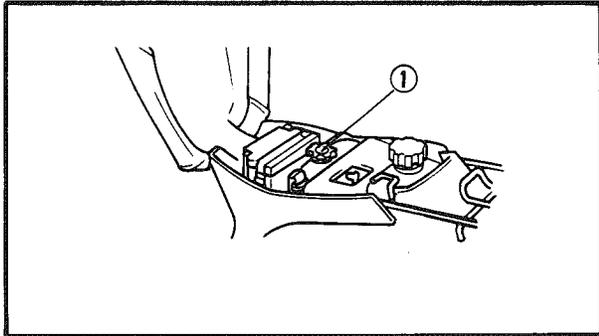
Engine oil level visual inspection steps:





Recommended Oil:
Yamalube 2 or Air Cooled
2 Stroke Engine Oil

Oil Capacity:
Total:
1.0 L (0.88 Imp qt, 1.06 US qt)



NOTE: _____

Install the oil tank filler cap ① and push it fully into the filler.

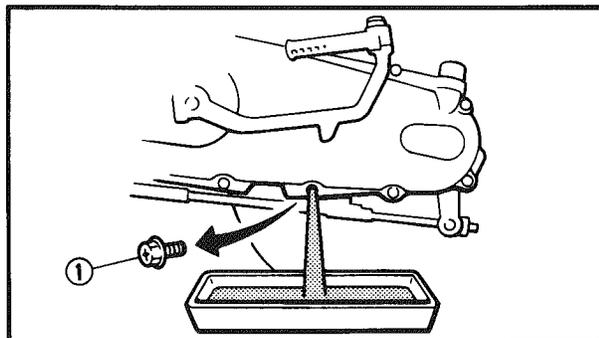
CAUTION: _____

Always use the same type of engine oil; mixing oils may result in a harmful chemical reaction and lead to poor performance.

2

TRANSMISSION OIL REPLACEMENT

1. Warm up the engine at idle speed, then stop it.
2. Place the oil pan under the drain hole.



3. Remove:
 - Drain bolt ①
 - Drain the transmission oil.
 - Oil filler plug

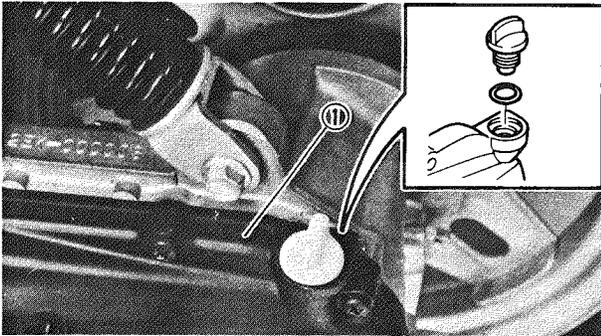


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4. Inspect:
- Gasket (Drain bolt)
 - O-ring (Oil filler plug)
- Damage → Replace.

5. Install:
- Gasket
 - Drain bolt

	Drain Bolt: 18 Nm (1.8 m·kg, 13 ft·lb)
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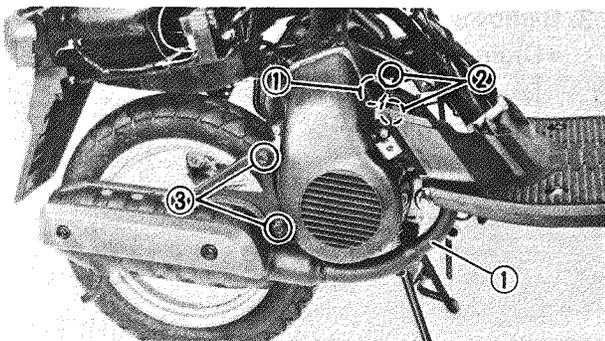


6. Fill:
- Transmission case ①

	Transmission Oil: Yamalube 4 or SAE 10W30 Type SE Motor Oil
	Capacity: 0.7 L (0.6 Imp qt, 0.7 US qt)

NOTE: _____
Wipe off any oil split on the crankcase, tire or wheel.

7. Install:
- Oil filler plug

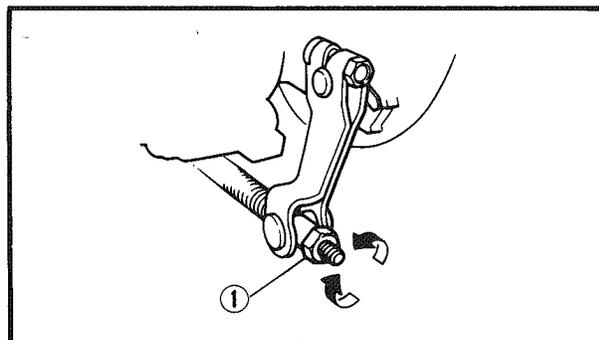
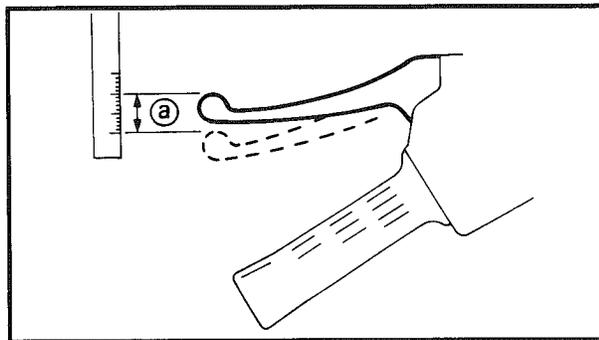
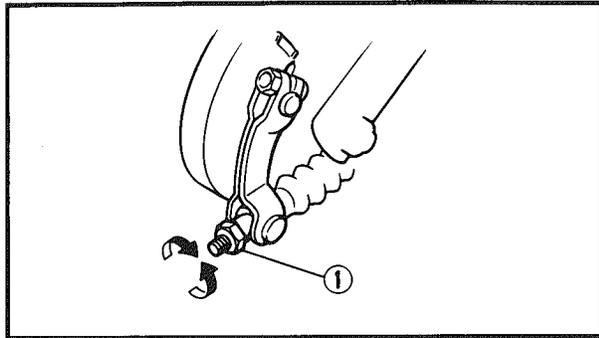
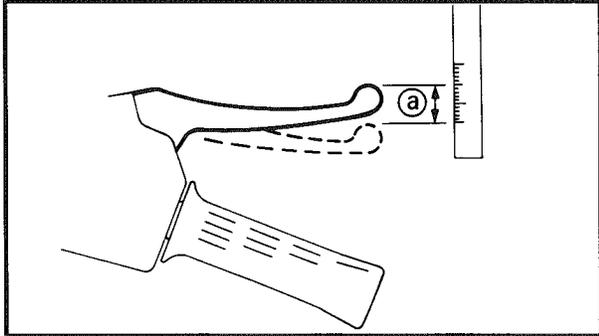


EXHAUST SYSTEM INSPECTION

1. Inspect:
- Exhaust pipe gasket ①
- Damage → Replace.
Exhaust gas leakage → Repair.
2. Tighten:
- Bolts ② , ③



Bolt (Exhaust pipe) ② :
9 Nm (0.9 m·kg, 6.5 ft·lb)
Bolt (Muffler) ③ :
28 Nm (2.8 m·kg, 20 ft·lb)



CHASSIS

FRONT BRAKE ADJUSTMENT

1. Check:
- Front brake lever free play ①
Out of specification → Adjust.



Front Brake Lever Free Play ① :
10 ~ 20 mm (0.4 ~ 0.8 in)

Front brake lever free play adjustment steps:

- Turn the adjuster ① in or out until the correct free play is obtained.

REAR BRAKE ADJUSTMENT

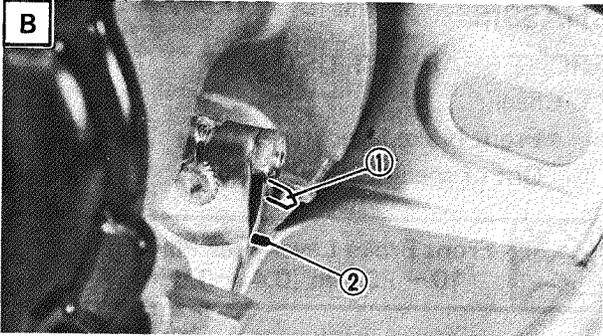
1. Check:
- Rear brake lever free play ①
Out of specification → Adjust.



Rear Brake Lever Free Play ① :
10 ~ 20 mm (0.4 ~ 0.8 in)

Rear brake lever free play adjustment steps:

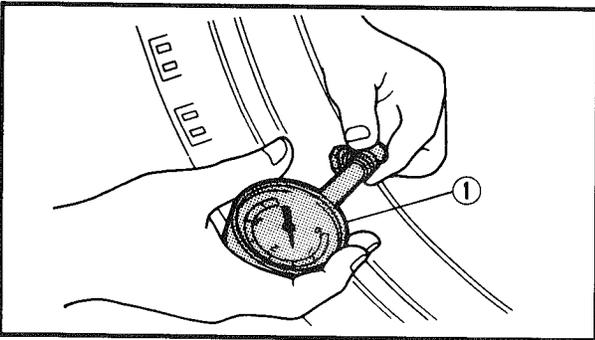
- Turn the adjuster ① in or out until the correct free play is obtained.



FRONT AND REAR BRAKE LINING INSPECTION

1. Activate the brake lever.
2. Inspect:
 - Wear indicator ①
 - Indicator at wear limit line ② → Replace brake shoes.

- A** Front
- B** Rear



TIRE AND WHEEL INSPECTION

1. Measure:
 - Air pressure
 - Out of specification → Adjust.

	Cold tire pressure
Front	127 kPa (1.3 kg/cm ² , 18 psi)
Rear	226 kPa (2.3 kg/cm ² , 33 psi)

① Tire pressure gauge

WARNING:

Proper loading of your scooter is important for the handling, braking, and other performance and safety characteristics of your scooter. Do not carry loosely packed items that can shift. Securely pack your heaviest items close to the center of the scooter, and distribute the weight evenly from side to side. And check the condition and pressure of your tires. **NEVER OVERLOAD YOUR SCOOTER.** Make sure the total weight to the cargo, rider, passenger, and accessories (fairing, saddlebags, etc. if approved for this model) does not exceed the maximum load of the scooter. Operation of an overloaded scooter could cause tire damage, an accident, or even injury.