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YAMAHA

MBK 

YN50 ²⁰⁰²
5RN-AE1

SERVICE MANUAL

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**YN50
SERVICE MANUAL**
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WARNING

This Manual was written by Yamaha Motor España, S.A. principally for the use of Yamaha/MBK agents and qualified mechanics. As it is not possible to give full mechanical instructions in a manual, it is presumed that the persons using the book to carry out the maintenance and repair of Yamaha/MBK motorcycles have a basic knowledge of the concepts and procedures inherent in the technology of motorcycle repair. Without such knowledge any attempt to repair or service this model may cause problems in its use and/or safety.

Yamaha Motor España, S.A., is continually trying to improve all models which it manufactures. Authorised Yamaha/MBK agents will be notified of all significant modifications and changes in the specifications or procedures and these will appear where applicable in future editions of this manual.

PARTICULARLY IMPORTANT INFORMATION

This material used the following notation.



A danger symbol means ATTENTION, BE CAREFUL, YOUR SAFETY IS IN DANGER!

WARNING

Non-compliance with a WARNING *may cause the serious injury or death* of the driver, a bystander or the person inspecting of repairing the motorcycle.

ATTENTION:

ATTENTION indicates the special precautions which should be taken in order to avoid damage to the motorcycle.

NOTE:

NOTE provides key information to make the procedures easier and clearer.

HOW TO USE THIS MANUAL

FORMAT OF THIS MANUAL

This manual is composed of chapters on the main subject categories (See "Illustrated Symbols").
 First heading ①: This is a chapter with a symbol at the top right-hand side of each page.
 Second heading ②: This title appears at the top of each page to the left of the chapter symbol.
 (For the "Inspection and periodic adjustments" chapter the third heading appears)
 Third heading ③: This is a final heading.

MANUAL FORMAT

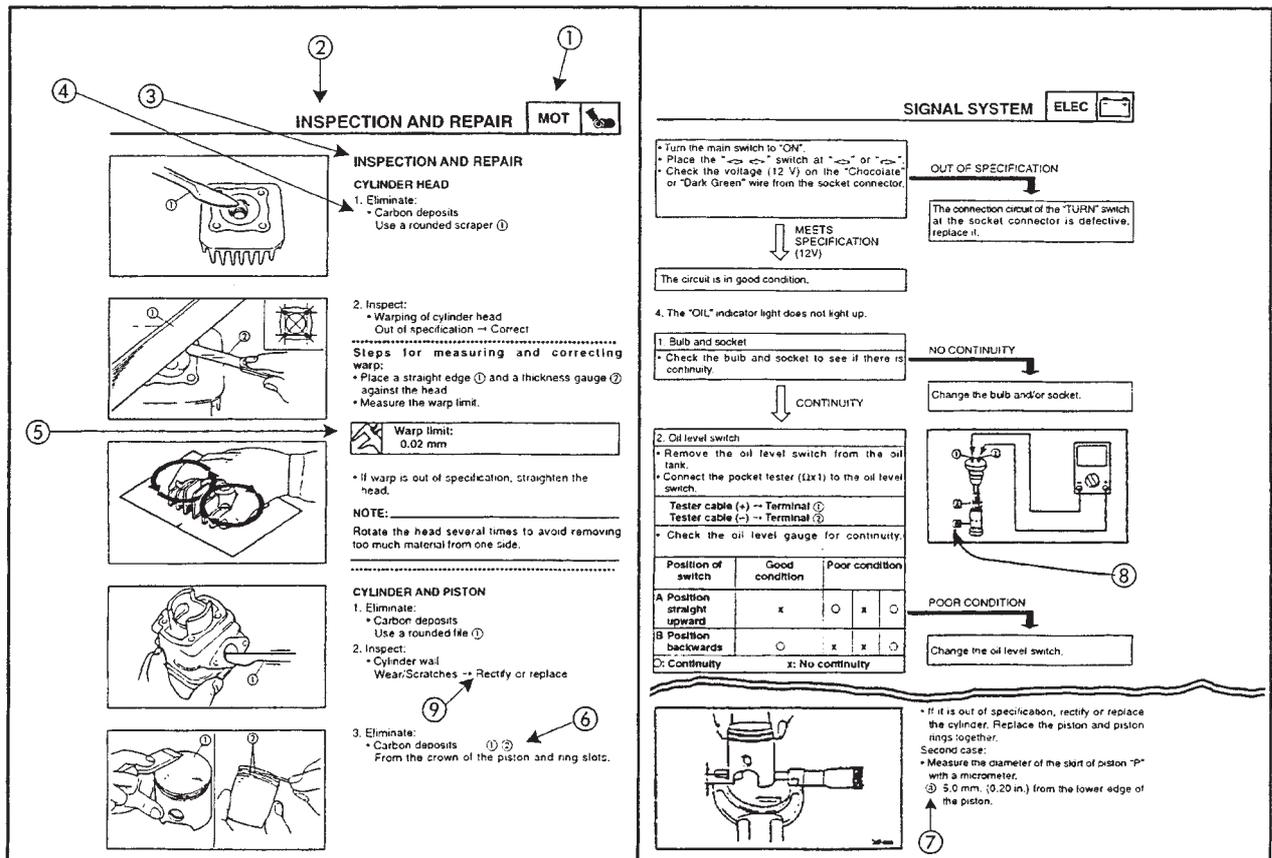
All procedures in this manual are organised sequentially, step by step. The information has been compiled to make reading easy for the mechanic and to provide useful reference material which contains ample explanations of all disassembly, repair, assembly and inspection procedures. A particularly important procedure ④ is placed between a lines of asterisks "*" with each procedure preceded by "•".

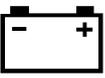
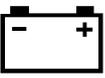
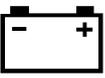
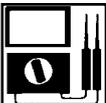
IMPORTANT CHARACTERISTICS

- Data and special tools are put in a box preceded by a corresponding symbol ⑤.
- A number within a circle ⑥ indicates the number of a part, and an alphabetical letter within a circle indicates data or an alignment mark ⑦, everything else is indicated by a letter within a box ⑧.
- The conditions of defective components will precede an arrow symbol and the course of action to be followed will follow the symbol ⑨.

DETAILED DIAGRAM

Each chapter provides detailed diagrams before each disassembly section, for the easy identification of disassembly/assembly procedures.



<p>①</p> <table border="1"> <tr> <td>GEN INFO</td> <td></td> </tr> </table>	GEN INFO		<p>②</p> <table border="1"> <tr> <td>SPEC</td> <td></td> </tr> </table>	SPEC	
GEN INFO					
SPEC					
<p>③</p> <table border="1"> <tr> <td>INSP/ ADJ</td> <td></td> </tr> </table>	INSP/ ADJ		<p>④</p> <table border="1"> <tr> <td>ENG</td> <td></td> </tr> </table>	ENG	
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<p>⑤</p> <table border="1"> <tr> <td>CARB</td> <td></td> </tr> </table>	CARB		<p>⑥</p> <table border="1"> <tr> <td>CHAS</td> <td></td> </tr> </table>	CHAS	
CARB					
CHAS					
<p>⑦</p> <table border="1"> <tr> <td>ELEC</td> <td></td> </tr> </table>	ELEC		<p>⑧</p> <table border="1"> <tr> <td>TRBL/ SHTG</td> <td>?</td> </tr> </table>	TRBL/ SHTG	?
ELEC					
TRBL/ SHTG	?				
<p>⑨</p> 	<p>⑩</p> 				
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<p>⑲</p> 	<p>⑳</p> 	<p>㉑</p> 			
<p>㉒</p> 	<p>㉓</p> 				

ILLUSTRATED SYMBOLS

(See illustration)

Illustrated symbols ① to ⑧ are designed as tabs to be followed with the thumb to indicate the chapter number and the index.

- ① General information
- ② Specifications
- ③ Periodic inspection and adjustment
- ④ General overhaul of the engine
- ⑤ Carburation
- ⑥ Chassis
- ⑦ Electrical system
- ⑧ Troubleshooting

Illustrated symbols ⑨ to ⑮ will be used to identify the specifications which appear in the text.

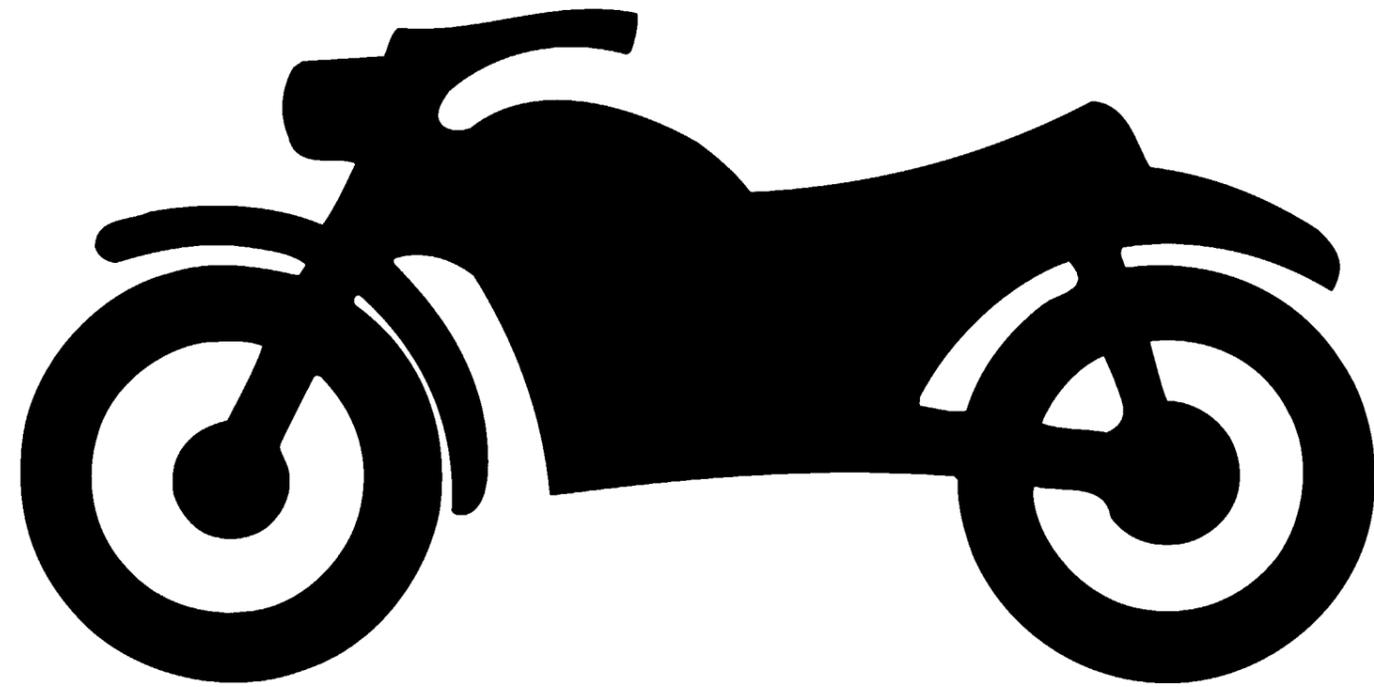
- ⑨ Refill with fluid
- ⑩ Lubricant
- ⑪ Special tool
- ⑫ Tightening
- ⑬ Wear limit, clearance
- ⑭ Engine speed
- ⑮ Ω V, A

Illustrated symbols ⑯ to ㉓ of detailed diagrams, indicate the degree of lubricant and the location of the lubrication point.

- ⑯ Apply engine oil
- ⑰ Apply gear oil
- ⑱ Apply molybdenum disulphide oil
- ⑲ Apply grease to wheel bearings
- ⑳ Apply grease with lightweight lithium soap base
- ㉑ Apply molybdenum disulphide grease
- ㉒ Apply bonding agent (LOCTITE®)
- ㉓ Use a new part.

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	INSP ADJ 3
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	ENG 4
CARBURATION	
	CARB 5
CHASSIS	
	CHAS 6
ELECTRICAL SYSTEM	
	ELEC 7
TROUBLESHOOTING	
	TRBL SHTG 8



**GEN/
INFO**

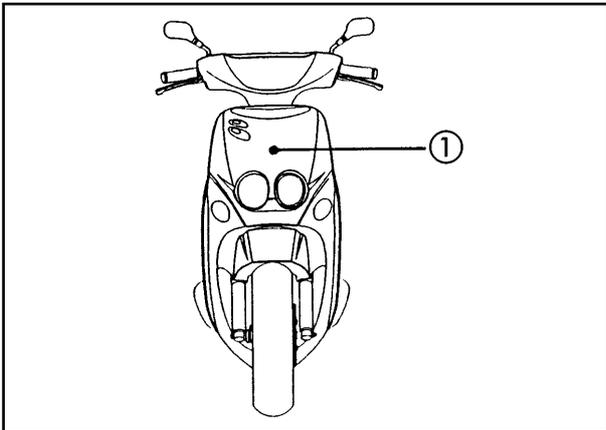
1

CHAPTER 1 GENERAL INFORMATION

IDENTIFICATION OF THE SCOOTER	1-1
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IDENTIFICATION OF THE SCOOTER

GEN/
INFO

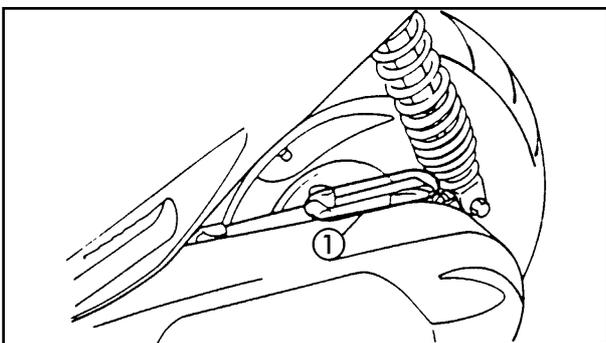


GENERAL INFORMATION SCOOTER IDENTIFICATION

FRAME SERIAL NUMBER

The serial number of the frame ① is stamped on the steering head pipe.

Frame VTL5AD according standard EU0
Frame VTL5A15 according standard EU1
Frame VTL5A19 according Mofa Version



ENGINE SERIAL NUMBER

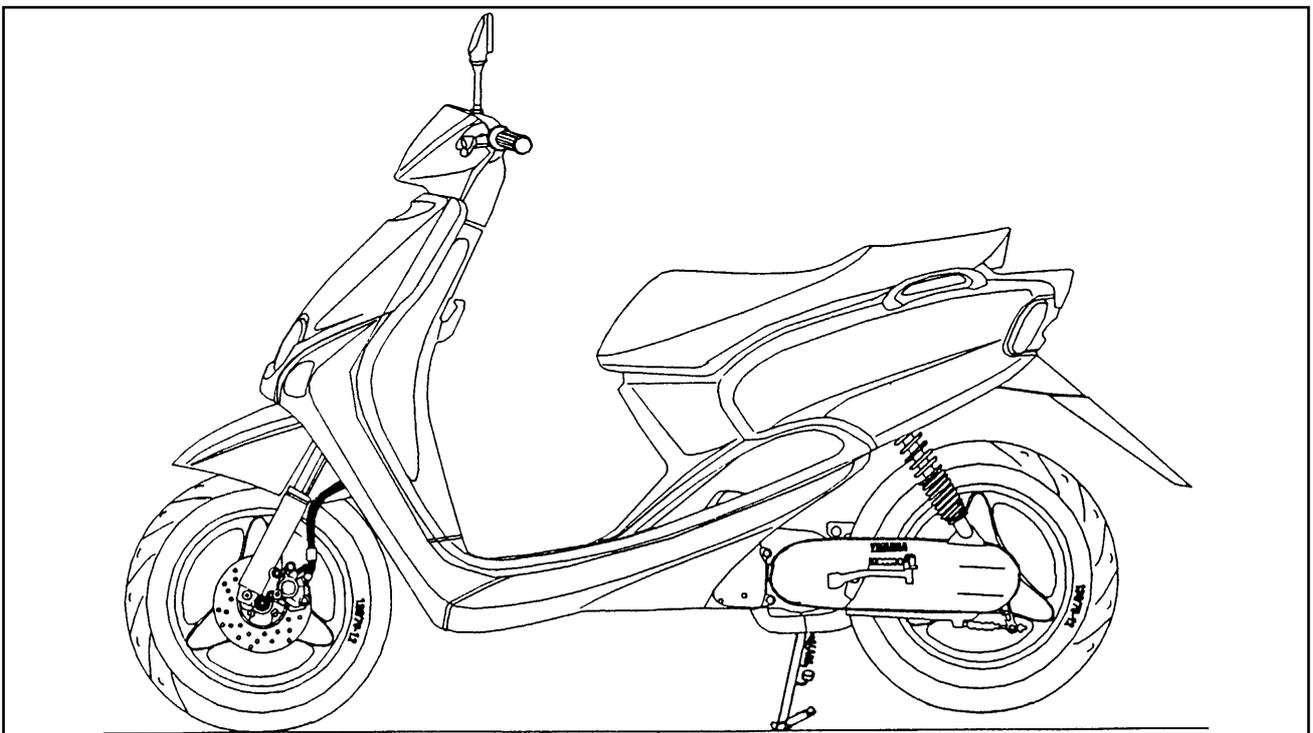
The engine serial number ① is stamped on the upper part of the rear left-hand section of the gear box.

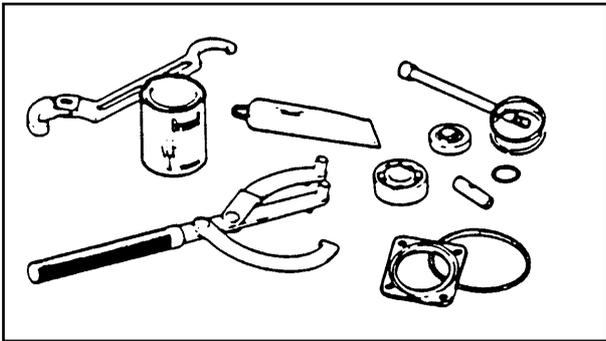
NOTE:

The first three digits of these numbers identify the model, the remaining digits are the manufacturing number of the unit.

NOTE:

The designs and specification are subject to change without prior notice.

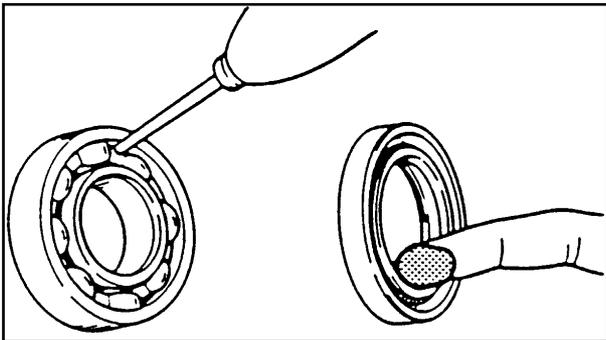




IMPORTANT INFORMATION

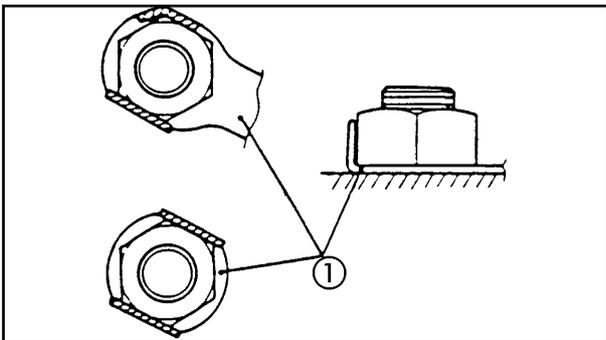
CHANGE OF ALL PARTS

1. We recommend that original Yamaha parts are used as spare parts. Use the oil and/or grease recommended by Yamaha for assembly and adjustment.



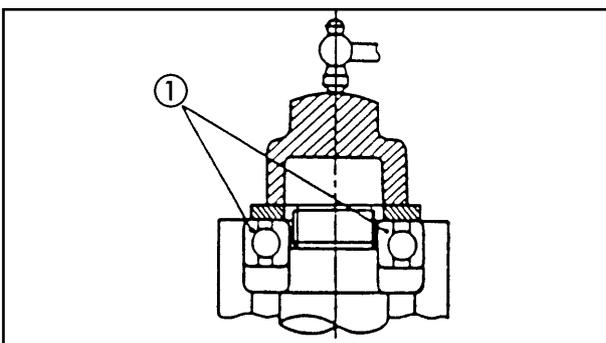
GASKETS, OIL SEALS AND O-RINGS

1. All gaskets and o-rings should be replaced when the engine is overhauled and repaired. All gasket surfaces, the lips of seals and o-rings should be cleaned.
2. Lubricate with grease all corresponding parts and bearings during assembly. Apply grease on the lips of seals.



SEALING WASHER/PLATES AND KEYS

1. All washers/plates ① and keys should be replaced when they are removed. The locking tabs should be folded along the flat parts of the bolts or nuts after correctly tightening them.

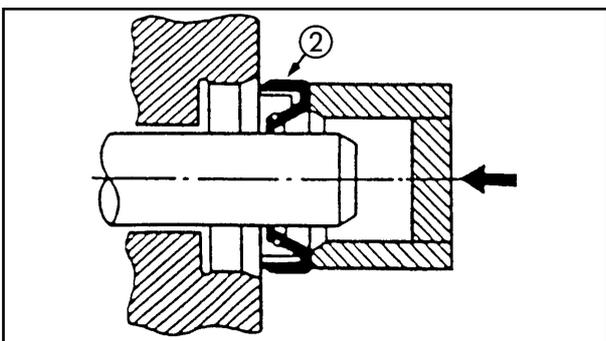


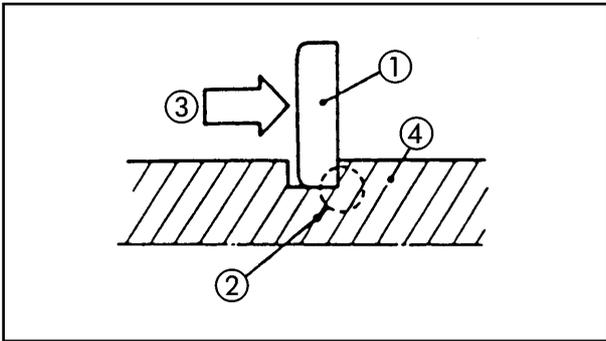
BEARINGS AND OIL SEALS

1. Install the bearings ① and oil seals ② with their manufacturer's marks or numbers facing outwards (i.e. the printed letters should be on the side exposed to view). When the oil seals are installed, apply a thin layer of light lithium-based grease on the edges of the seal. Put oil on the bearings when they are installed.

ATTENTION:

Do not turn the bearings in compressed air to dry them. This will damage the surface of the bearings.



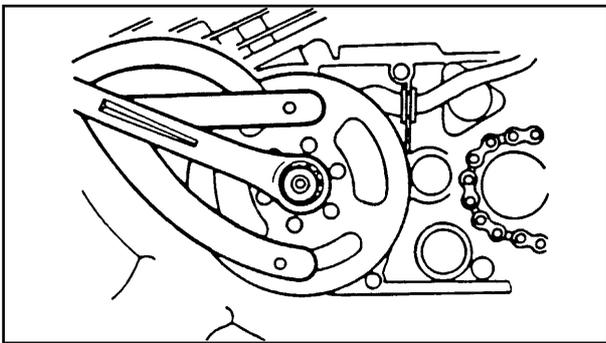


CIRCLIPS

1. All circlips should be carefully inspected before assembly. Always replace circlips of the piston drum after use. Replace deformed circlips. When installing a circlip ①, ensure that the corner with the sharp edge ② is placed in the opposing direction to the thrust ③ it receives. See sectional view. ④ Axle

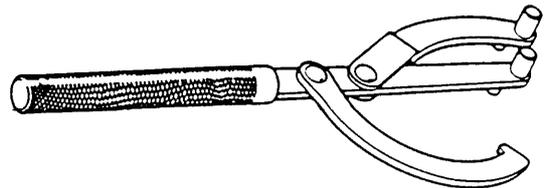
SPECIAL TOOLS

Appropriate special tools are needed to complete and perfect assembly with accuracy. Using correct tools will help to avoid damage caused by the use of incorrect tools or improvised techniques.

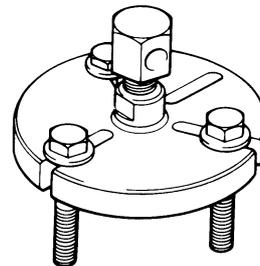


FOR SERVICING THE ENGINE

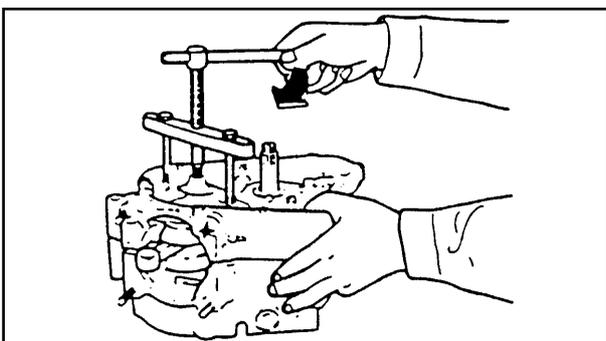
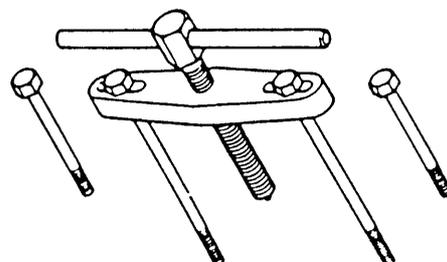
1. Engine wheel holding tool (90890-01235)



2. Engine wheel removal tool (90890-01362)

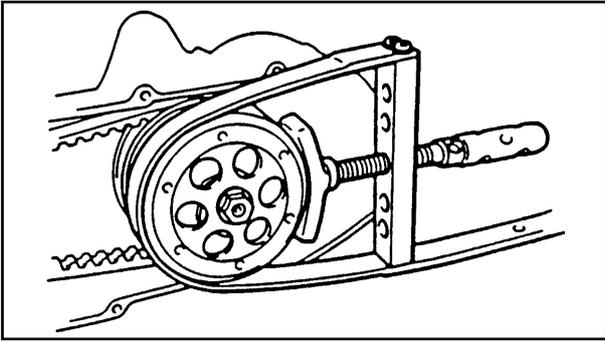


3. Crankcase separation tool (90890-01135)

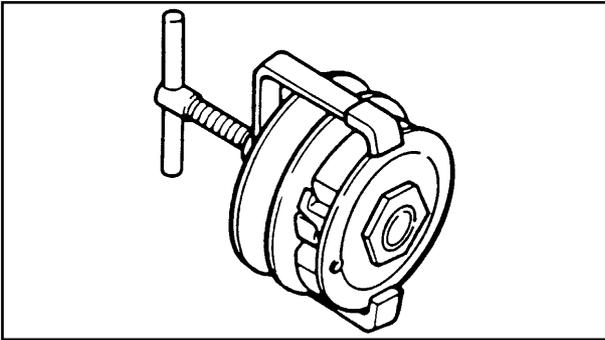
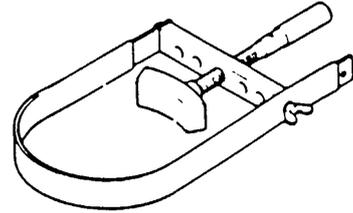


SPECIAL TOOLS

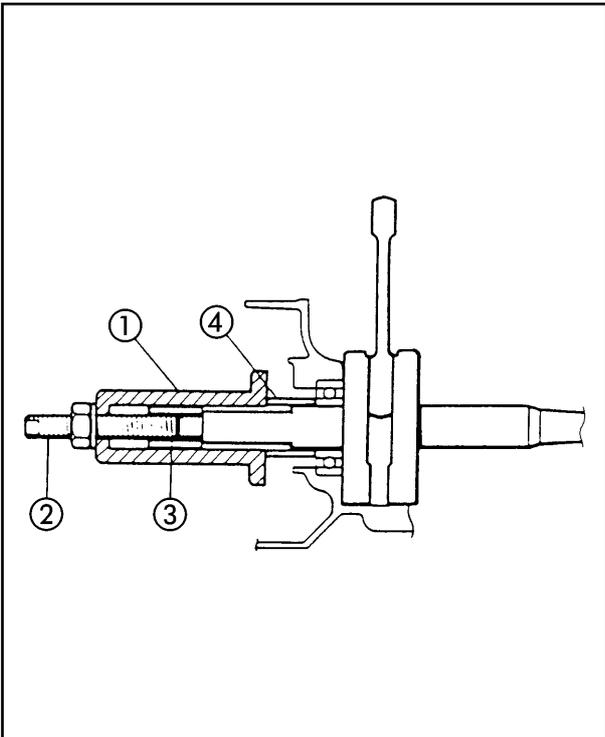
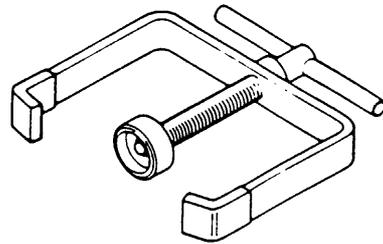
GEN/
INFO



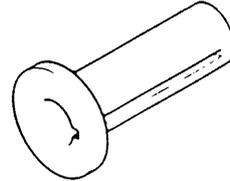
4. Pulley wheel clamp
(90890-01701)



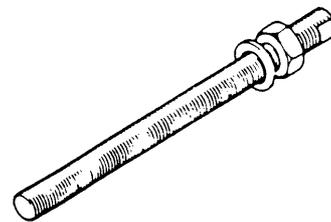
5. Clutch spring compressor
(90890-01337)

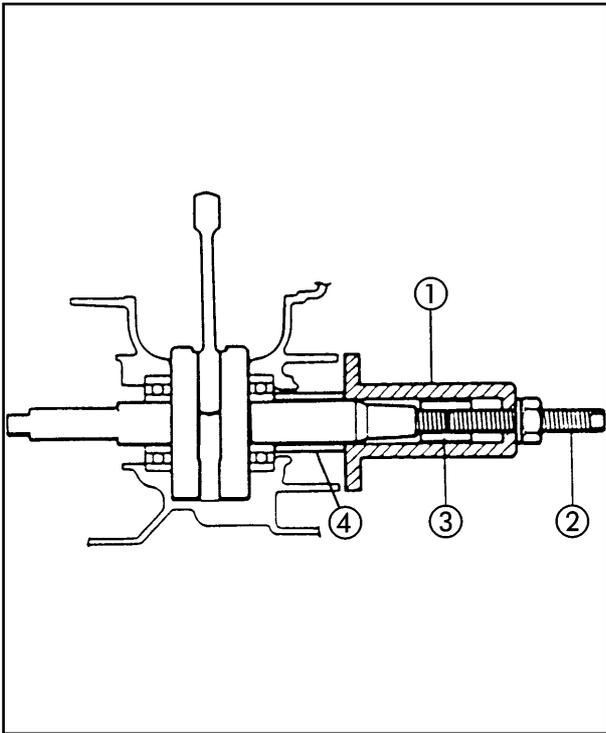


6. Crankshaft installer crucible... ①
(90890-01274)

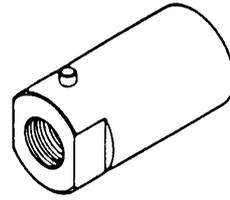


7. Crankshaft installer bolt... ②
(90890-01275)

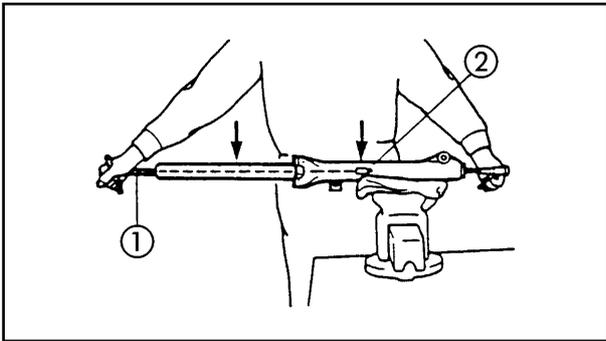
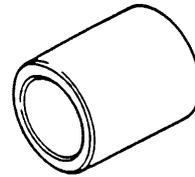




- 8. Adaptor (M10)... ③
(90890-01277)

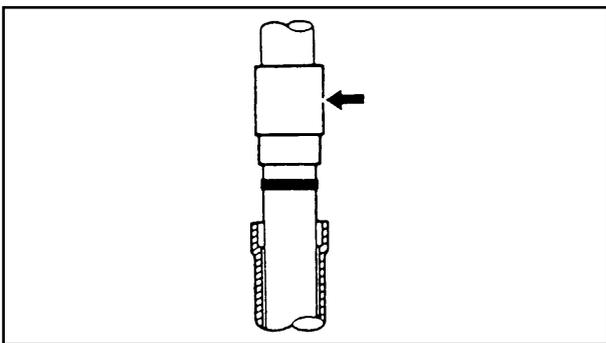
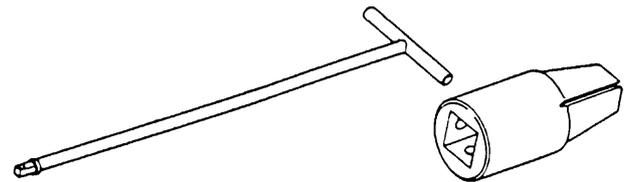


- 9. Spacer... ④
(90890-01411)

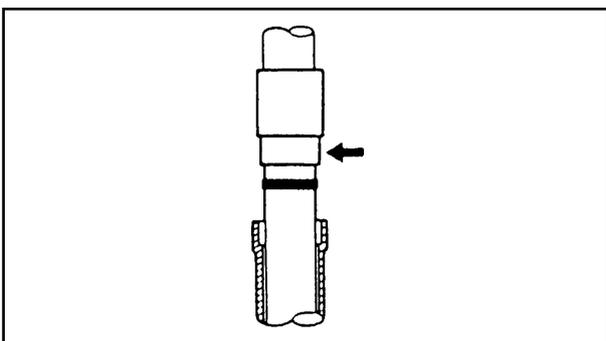
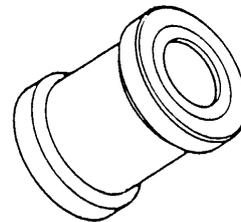


FOR SERVICING THE CHASSIS

- 1. T-shaped handle 2... ①
(90890-01326)
Shock absorber rod support... ②
(90890-01294-A)



- 2. Counterbalance for insertion of fork seals
(90890-01184)

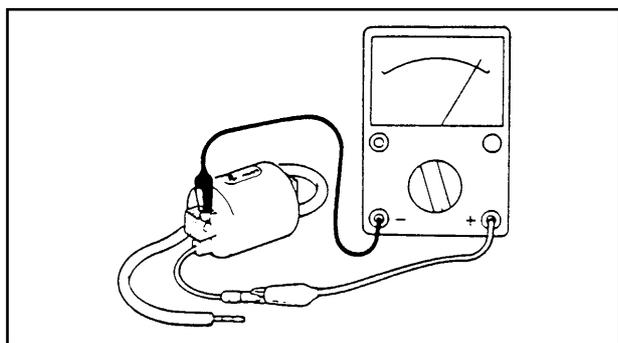
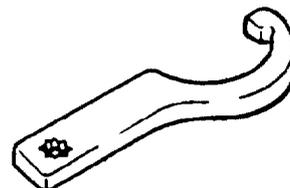


- 3. Accessory for insertion of fork seals
(90890-01186)



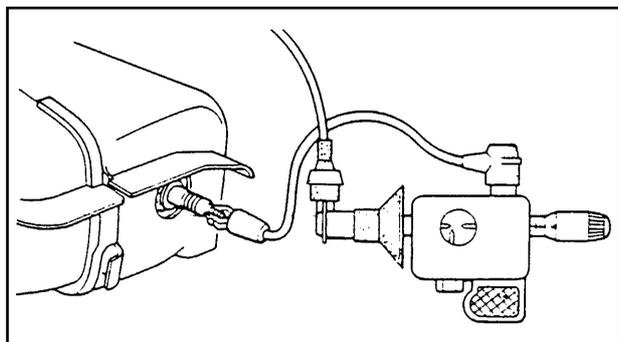
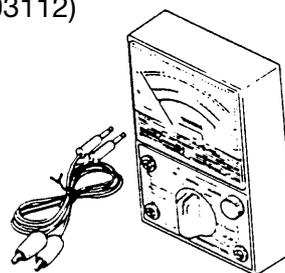


4. Steering nuts wrench
(90890-01403)

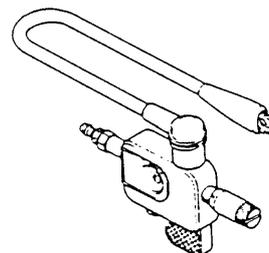


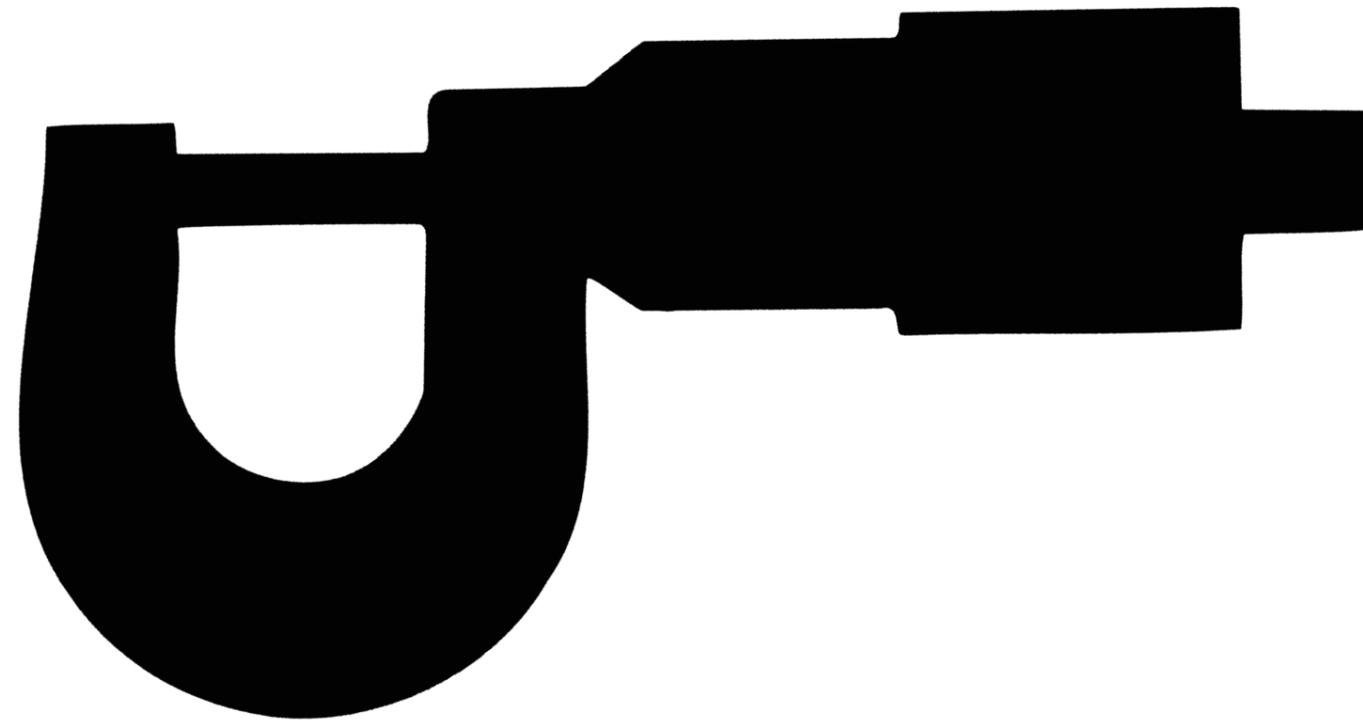
FOR ELECTRICAL COMPONENTS

1. Pocket tester
(90890-03112)



2. Ignition tester
(90890-06754)





SPEC

2

CHAPTER 2 SPECIFICATIONS

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ENGINE2-3

CHASSIS2-5

ELECTRICAL SYSTEM2-6

CABLE ROUTING2-7

GENERAL SPECIFICATIONS

SPEC



Model	YN50R		
Engine: Engine type Arrangement of cylinders Cylinder capacity Diameter and stroke Compression ratio Starter system	Reed valve, petrol, 2-stroke, air-cooled One cylinder inclined to the front 49.2 cc 40.0 x 39.2 mm 11.6:1 5AD 10.2:1 SA15 11:1 SA19 Electrical and pedal kickstart		
Lubrication system: Type or grade of oil: Engine oil Transmission oil	Yamaha autolubrication 2-stroke air-cooled engine oil SE type 10W30 SAE engine oil		
Oil capacity: Oil sump (engine oil) Transmission oil Periodic change of oil Total quantity	1.2 L 0.10 L 0.11 L		
Air filter:	Flue type		
Fuel: Type Fuel tank capacity	Unleaded petrol 6.5 L		
Carburettor: Type/Manufacturer	PHVA/DELLORTO/PY12,1/GURTNER		
Spark plug: Type/Manufacturer Distance between electrodes	5AD y SA15 BR8HS/N.G.K. 0.6 ~ 0,7 mm	SA19 BPR4HS/NGK 0.6 ~ 0.7 mm	
Clutch type:	Dry, automatic centrifugal		
Transmission: Primary reduction system Primary reduction ratio Secondary reduction system Secondary reduction ratio Type of transmission Action	Helicoidal gearing 52/13 (4.00) Straight gearing 42/13(3.230) 5AD-SA15 45/12(33.750) SA19 Automatic one speed (Trapezoidal belt type) Automatic centrifuge type		
Chassis: Frame Inclination angle of front axle Trail	Steel underside of pipe 26,5° 92.5 mm		
Tyres: Size (FR) Size (R)	120/70-12 130/70-12		
Tyre pressures (cold): <div style="text-align: right; margin-right: 50px;"> (Front) (Rear) </div>	1.75 kg/cm ² 2.00 kg/cm ²		

GENERAL SPECIFICATIONS

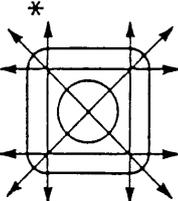
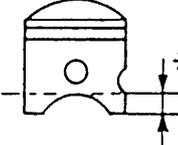
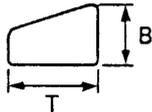
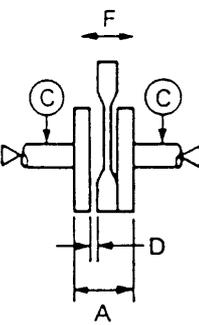
SPEC



Model	YN50R
Brakes: Front brake type Operation Rear brake type Operation	Disc brake Right-hand operation Drum brake Left-hand operation
Suspension: Front suspension Rear suspension	Telescopic fork Balancing unit
Shock absorber: Front shock absorber Rear shock absorber	Spring/oil shock absorber Spring/oil shock absorber
Travel of wheels: Travel of front wheel Travel of rear wheel	70 mm 60 mm
Electrical system: Ignition system Generating system Battery type or model Battery capacity	DC-C.D.I. Magnetic flywheel YB4C-B 12V4AH
Type of headlight:	Bulb type
Bulb voltage/quantity: Headlamp Rear light/brake Indicator Metre light	25W/25Wx2 5/21W 10Wx4 1.2Wx2
Warning lights/quantity: Oil Fuel Indicators	2Wx1 2Wx1 2Wx2



MAINTENANCE SPECIFICATIONS
ENGINE

Model	YN50R
Cylinder head: Warping limit	 <p>0.02 mm * The lines indicate the measurement</p>
Cylinder: Internal diameter <Limit> Taper limit Eccentricity limit	<p>39.993 ~ 40.012 mm <40.1 mm> 0.05 mm 0.01 mm</p>
Piston: Piston size Measurement point Piston clearance First clearance	 <p>39.952 ~ 39.972 mm 5 mm 0.034 ~ 0.047 mm 40.50 mm</p>
Piston ring: Cross section B x T Distance between ends (installed) <Limit> Lateral clearance	 <p>1.5 x 1.8 mm 0.15 ~ 0.35 mm <0.6 mm> 0.03 ~ 0.05 mm</p>
Crank shaft: Width of crank shaft "A" Deflection limit "C" Connecting rod big end clearance "D" Free play from small end "F" Free play "E"	 <p>37.90 ~ 37.95 mm 0.03 mm 0.2 ~ 0.5 mm 0.4 ~ 0.8 mm 0.004 ~ 0.017 mm</p>

MAINTENANCE SPECIFICATIONS

SPEC



Model	YN50R					
Automatic centrifugal clutch: Thickness of clutch shoe <Limit> Free length of clutch shoe spring Clutch revolutions Clutch binding revolutions	2 mm <1 mm> 29.9 mm 3.600±250 rpm 5.600±400 rpm					
Transmission: Main axle deflection limit Drive axle deflection limit	0.08 mm 0.08 mm					
Choke handle: Type Pedal friction force	Ratchet type 150 ~ 250 g					
Air filter oil grade (oil filter):	Oil for foam air filter 2T oil for air-cooled engines					
Carburettor: Type/Manufacturer/Quantity Main jet (M.J.) Retaining position of jet needles (J.N.) Main air jet (M.A.I.) Pilot jet (P.J.) Pilot air screw (P.A.S.) Valve seat size engine idling	PHVA/Dellorto/1		YP12/GURTNER/1			
		#78/5AD	#65//SA15	#74/5AD	#62/SA15	#60/SA19
	A12-3/5	A20-3/5	B10A-2/3	B10A-2/3	L3035H-1/3	
	ø 1.5	ø 1.5	-	-	-	
	#36/5AD	#36/SA15	#38/5AD	#38/SA15	#36/SA19	
	$1 \frac{1}{4} \pm \frac{1}{4}$	$2 \frac{1}{8} \pm \frac{1}{8}$	$1 \frac{1}{8}$	$1 \frac{7}{8}$	$1 \frac{7}{8}$	
	1.2	1.4				
1.800 r.p.m.	1.800 r.p.m					


CHASSIS

Model	YN50R
Steering system: Steering bearing type	Ball bearing
Front suspension: Travel of front shock absorber Free length of shock absorber spring <Limit> Spring/stroke ratio (K ₁) (K ₂) Oil capacity Oil grade	70 mm 226 mm 1.12 Kgf/mm 1.78 Kgf/mm 45 cm ³ ±1 10 W shock absorber oil or equivalent
Rear suspension: Shock absorber travel Length of spring coupling Spring/stroke ratio (K ₁) (K ₂)	60 mm 221 mm 3.75 Kgf/mm 7,10 Kgf/mm
Wheels: Type of front wheel Type of rear wheel Size/material of front wheel Size/material of rear wheel Rim run-out limit Vertical Lateral	Alloy rim Alloy rim 12 x 3.5 aluminium 12 x 3.5 aluminium 1.0 mm 1.0 mm
Front disc brake Type External diameter and disc thickness Thickness of pads <Limit> Internal diameter of master cylinder Internal diameter of calliper Brake fluid type	Single 190.0 x 3.5 mm 4 mm <0.8 mm 11 mm 30.16 mm DOT 4
Drum brake: Type Internal diameter of drum <Limit> Lining thickness <Limit>	Shoes 110 mm 110.5 mm 4.0 mm 2.0 mm
Brake levers Free play of brake lever (right)/position Free play of brake lever (left)/position	2 ~ 5 mm /at the end of the lever 5 ~ 10 mm /at the end of the lever



ELECTRICAL SYSTEM

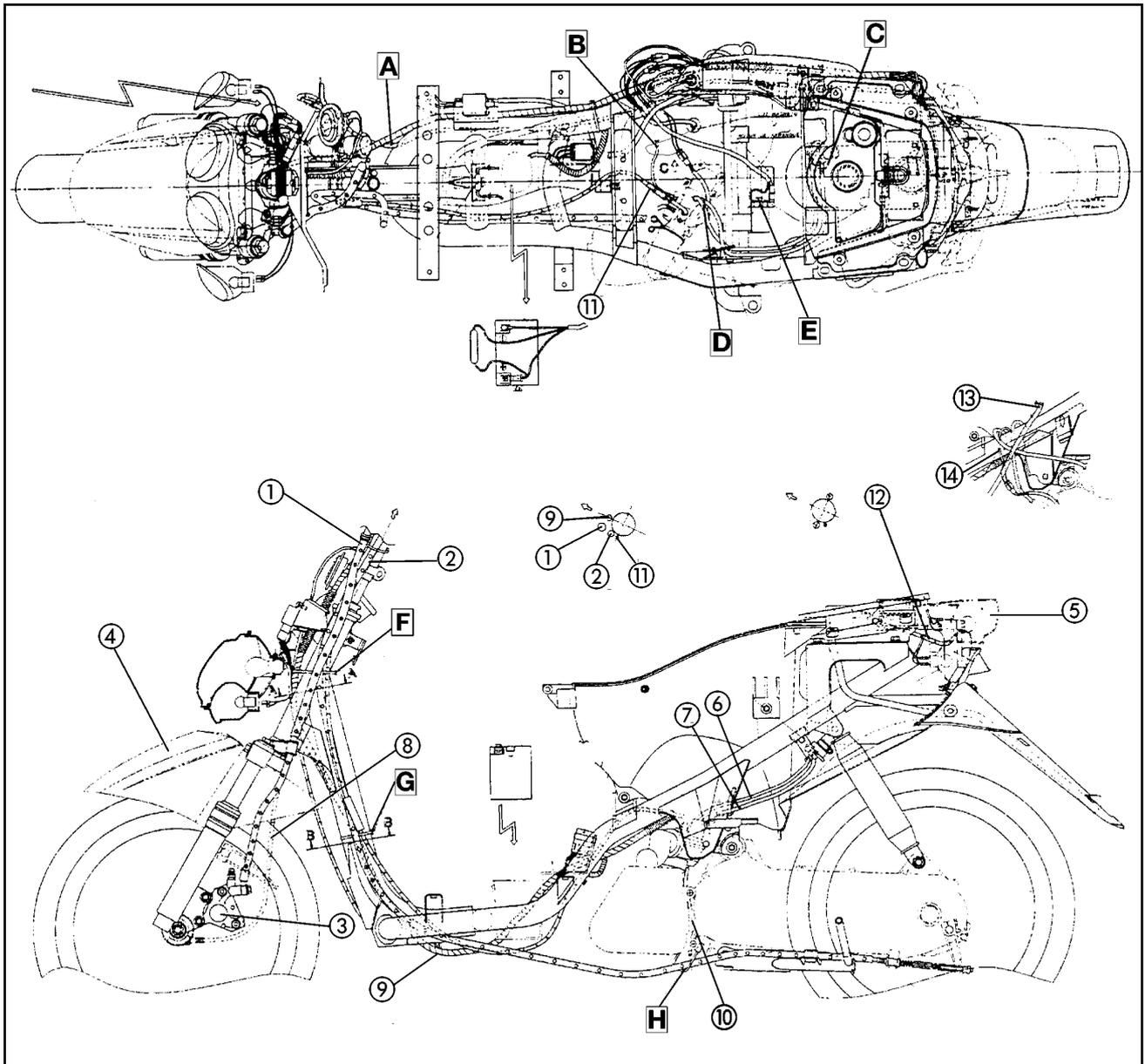
Model	YN50R
Ignition system: Type Ignition distribution (A.P.M.S.)	DC-C.D.I. 14*/5.000 r/min
C.D.I.: Harnessing coil resistance (colour)	400 ~ 600 Ω a 20 °C (68 °F) (Black/Red-Black)
Ignition coil: Spark plug electrodes gap Primary coil resistance Secondary coil resistance	6.0 mm 0.56 ~ 0.84 Ω at 20 °C 5,68 ~ 8,52 KΩ at 20 °C
Charging system: Charging output Charging coil resistance (colour) (Black-White)	0.4 A or more/3.000 rpm/min 1 A or less/8.000 rpm/min 4.8 ~ 7.2 Ω a 20 °C (68 °F)
Lighting system: Lighting output Lighting coil resistance (colour)	12 V or more/3.000 rpm/min, 15 V or less/8.000 rpm/min 0.4 ~ 0.6 Ω a 20 °C (68 °F) (Yellow/Red-Black)
Battery: Type: Capacity Specific gravity	YB4L-B 12V4AH 1280/20 °C
Starter system: Type:	Constant mesh type
Starter motor: Output Induction coil resistance Brush length <Limit>	0.14 kw 0.064 ~ 0.079 Ω at 20 °C 3.9 mm <0.9 mm>
Circuit breaker: Type: Amperage/Quantity Principal	Fuse 7A x 1



CABLE ROUTING

- ① Front brake pipe
- ② Rear brake cable
- ③ Rear brake calliper
- ④ Rear mudguard
- ⑤ Rear warning light
- ⑥ Vacuum tube
- ⑦ Fuel pipe
- ⑧ Speedometer cable
- ⑨ Installation
- ⑩ Breather
- ⑪ Accelerator cable
- ⑫ Seat closing cable
- ⑬ Oil hose
- ⑭ choke wire

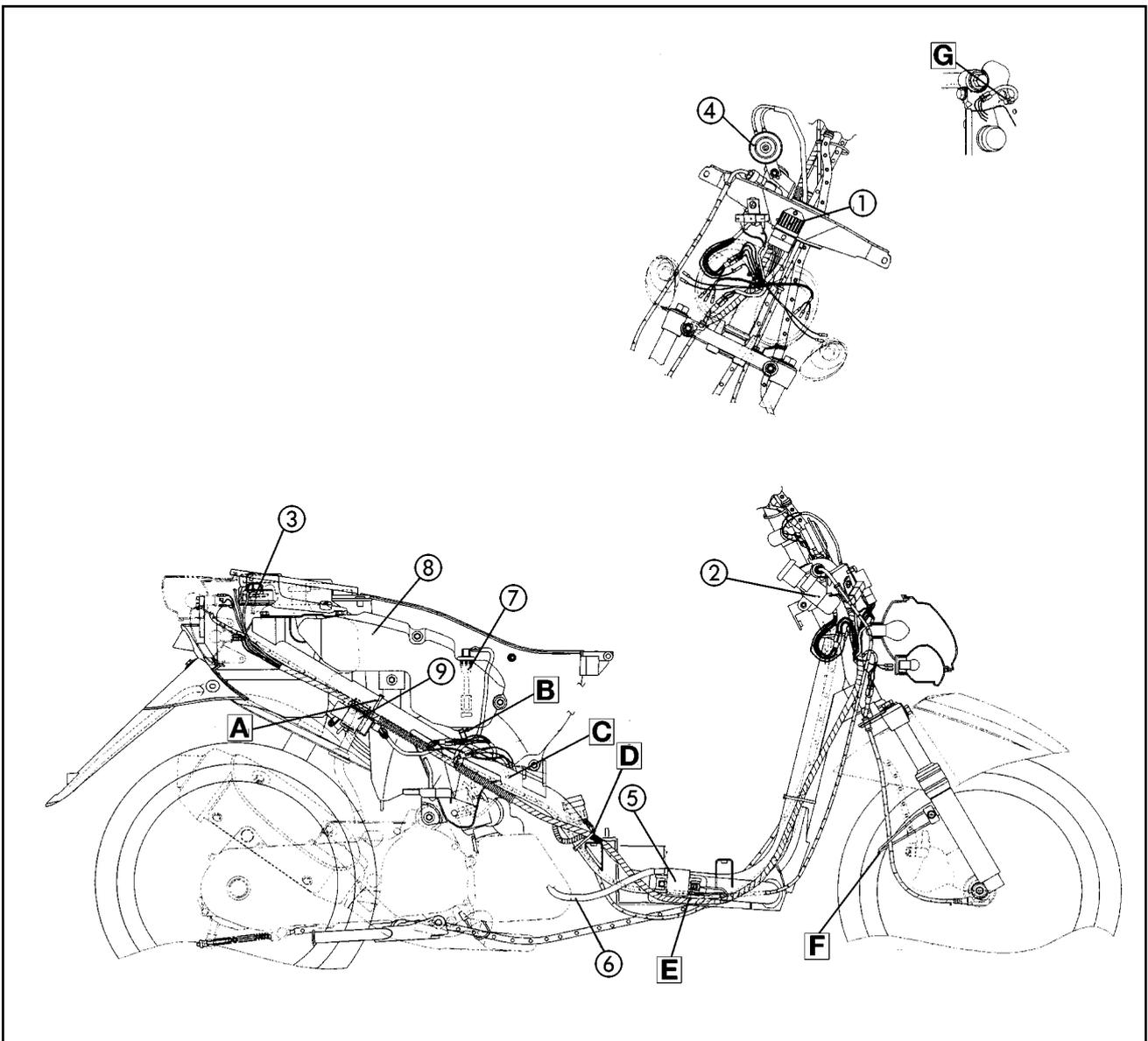
- A Insert the seat closing cable through the frame orifice
- B Connect the oil tube to the carburettor
- C Splice the fuel pipe to the cock
- D Splice the fuel pipe to the carburettor
- E Press the earth cable and the starter motor together
- F Splice all the cables except the brake hose, without tightening
- G Splice to the frame wire harness and throttle
- H Pass the brake cable through the guide





- ① Rectifier/Regulator
- ② Main switch
- ③ Fuel level measurer
- ④ Horn
- ⑤ Ignition coil
- ⑥ Spark plug cable
- ⑦ Oil level sensor
- ⑧ Oil tank
- ⑨ C.D.I.

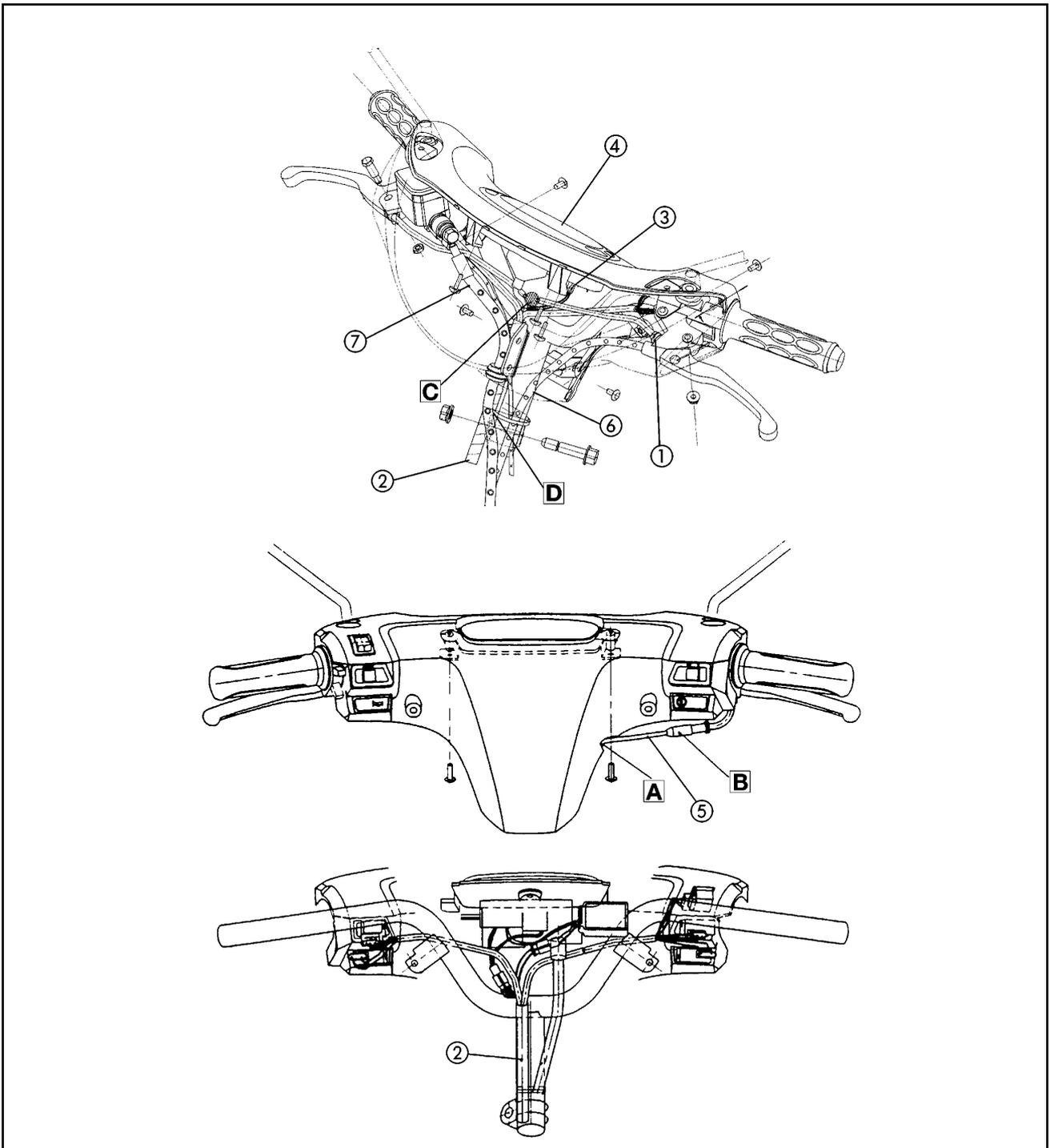
- A Splice the electrical installation to the frame
- B Splice the oil pipe to the tank
- C Connect the oil pipe to the pump
- D Splice the installation to the frame
- E Tighten the earth cable and the ignition coil together
- F Pass the speedometer cable through the guide
- G Fit the grommet in the small hole of the underbracket





- ① Front break switch
- ② Electrical installation
- ③ Intermittent relay
- ④ Speedometer assembly
- ⑤ Accelerator cable
- ⑥ Rear brake cable
- ⑦ Choke cable
- ⑧ Front brake hose

- A Do not pinch the accelerator cable when assembling the handlebar covers
- B Accelerator cable tensioner. Cover after adjusting
- C Connect the brake switch cables in this area
- D Do not pass the brake pipe through the flange





INSP



ADJ

3



CHAPTER 3 PERIODIC INSPECTION AND ADJUSTMENTS

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PERIOD INSPECTION AND ADJUSTMENTS

INTRODUCTION

This chapter includes all information necessary to carry out inspections and adjustments recommended. These preventive maintenance procedures, if they are correctly followed, will ensure the most reliable operation of the vehicle and a longer useful life. The need for overhauls and costly repairs will be greatly reduced. This applies both to vehicles which are already in service and to new vehicles which are ready for sale. All service technicians should familiarise themselves with the entire chapter.

PERIODIC MAINTENANCE / LUBRICATION INTERVALS

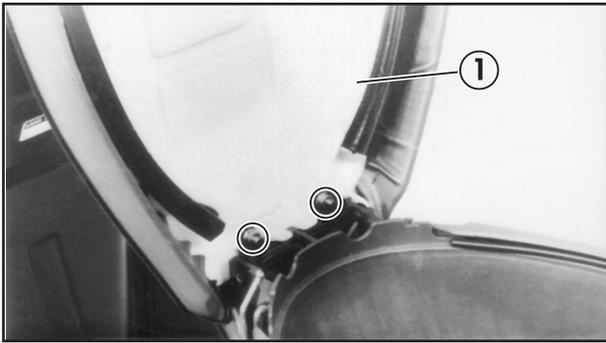
N.	INTEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (x 1.000 km)					ANNUAL CHECK
			1	6	12	18	24	
1	*	Fuel line • Check fuel hoses and vacuum hose for cracks		✓	✓	✓	✓	✓
2		Spark Plug • Check condition. • Clean and regap. • Replace.		✓		✓		
3		Air filter element • Clean. • Replace.		✓		✓		
4	*	Front brake • Check operation, fluid level and vehicle for fluid leakage. • Replace brake pads.	✓	✓	✓	✓	✓	✓
5	*	Rear brake • Check operation and adjust brake lever freeplay. • Replace brake shoes.	✓	✓	✓	✓	✓	✓
6	*	Brake hose • Check for cracks or damage. • Replace. (See NOTE on page 6-5)		✓	✓	✓	✓	✓
7	*	Wheels • Check runout and for damage.		✓	✓	✓	✓	
8	*	Tires • Check tread depth and for damage. • Replace if necessary. • Check air pressure. • Correct if necessary.		✓	✓	✓	✓	
9	*	Wheel bearings • Check bearing for looseness or damage.		✓	✓	✓	✓	
10	*	Steering bearings • Check bearing play and steering for roughness. • Lubricate with lithium-soap-based grease.	✓	✓	✓	✓	✓	
11	*	Chassis fasteners • Make sure that all nuts, bolts and screws are properly tightened.		✓	✓	✓	✓	✓
12		Centerstand • Check operation. • Lubricate.		✓	✓	✓	✓	✓
13	*	Front fork • Check operation and for oil leakage.		✓	✓	✓	✓	
14	*	Rear shock absorber assembly • Check operation and shock absorber for oil leakage.		✓	✓	✓	✓	
15	*	Carburetor • Check starter (choke) operation. • Adjust engine idling speed.	✓	✓	✓	✓	✓	✓
16	*	Autolube pump • Check operation. • Bleed if necessary.	✓		✓		✓	✓
17		Final gear oil • Check oil level and vehicle for oil leakage. • Change.	✓	✓		✓	✓	
18	*	V-belt • Replace			✓		✓	
19		Front and rear brake switches • Check operation.	✓	✓	✓	✓	✓	✓
20	*	Moving parts • Lubricate. and cables		✓	✓	✓	✓	✓
21		Lights, signals and switches • Check operation. • Adjust headlight beam.	✓	✓	✓	✓	✓	✓

- Since these items require special tools, data and technical skills, have a Yamaha/MBK dealer perform the service.

NOTE:

- The air filter needs more frequent service if you are riding in unusually wet or dusty areas.
- Hydraulic brake service
- Regularly check and, if necessary, correct the brake fluid level.
- Every two years replace the internal components of the brake master cylinder and caliper, and change the brake fluid.
- Replace the brake hoses every four years and if cracked or damaged.

REAR BODYWORK AND FOOTREST



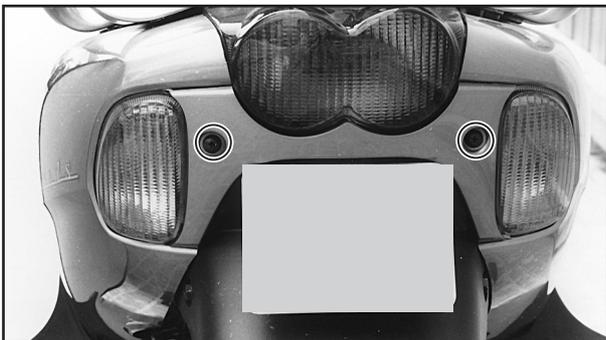
REAR BODYWORK AND FOOTREST

REMOVAL

1. Raise the seat
2. Remove:
 - Seat ①



3. Remove:
 - Battery cover



4. Remove:
 - Rear cover



5. Remove:
 - Side covers

NOTE:

When the side covers are being removed unhook them from the catches and slide them outwards.