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**DT125R**

**'88**

**3BN-ME1**

**SERVICE MANUAL**

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**DT125R  
SERVICE MANUAL**  
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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 motorcycle 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  
MOTORCYCLE GROUP  
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.



A CAUTION indicates special procedures that must be followed to avoid damage to the motorcycle.



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

### MANUAL FORMAT

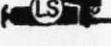
All of the procedures in this manual are organized in a sequential, step-by-step format. The information has been compiled to provide the mechanic with an easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and inspection operations.

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 SPEC 	
③ INSP ADJ 	④ ENG 	
⑤ COOL 	⑥ CARB 	
⑦ CHAS 	⑧ ELEC 	
⑨ TRBL SHTG ?	⑩ 	
⑪ 	⑫ 	
⑬ 	⑭ 	
⑮ 	⑯ 	
⑰ 	⑱ 	⑲ 
⑳ 	㉑ 	㉒ 
㉓ 		

## ILLUSTRATED SYMBOLS (Refer to the illustration)

Illustrated symbols ① to ⑨ are designed as thumb tabs to indicate the chapter's number and content.

- ① General information
- ② Specifications
- ③ Periodic inspection and adjustment
- ④ Engine
- ⑤ Cooling system
- ⑥ Carburetion
- ⑦ Chassis
- ⑧ Electrical
- ⑨ Troubleshooting

Illustrated symbols ⑩ to ⑯ are used to identify the specifications appearing.

- ⑩ Filling fluid
- ⑪ Lubricant
- ⑫ Special tool
- ⑬ Tightening
- ⑭ Wear limit, clearance
- ⑮ Engine speed
- ⑯  $\Omega$ , V, A

Illustrated symbols ⑰ to ㉓ in the exploded diagram indicate grade of lubricant and location of lubrication point.

- ⑰ Apply engine oil
- ⑱ Apply gear oil
- ⑲ Apply molybdenum disulfide oil
- ⑳ Apply wheel bearing grease
- ㉑ Apply lightweight lithium-soap base grease
- ㉒ Apply molybdenum disulfide grease
- ㉓ Apply locking agent (LOCTITE®)

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<b>ENG</b>	<b>4</b>
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**GEN  
INFO**

**1**



**SPEC**

**2**



**INSP  
ADJ**

**3**



**ENG**

**4**



**COOL**

**5**



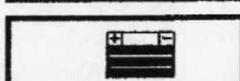
**CARB**

**6**



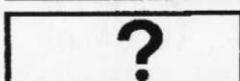
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**ELEC**

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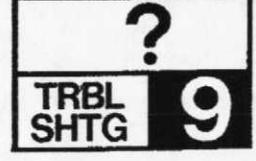
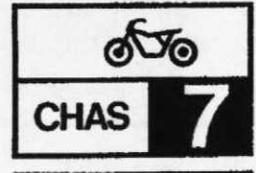
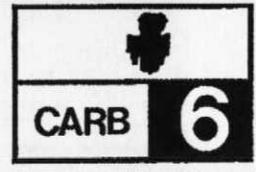
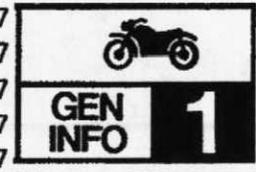
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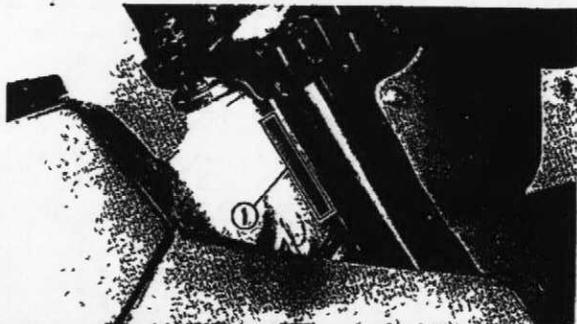
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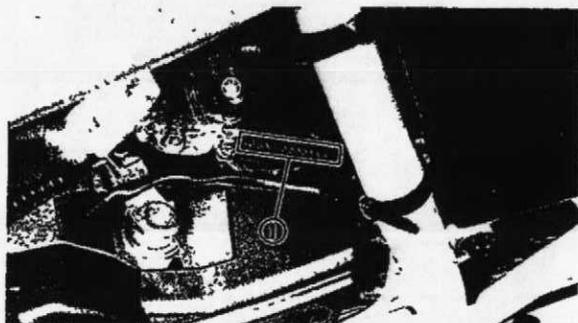


**GENERAL INFORMATION**



**MOTORCYCLE IDENTIFICATION  
FRAME SERIAL NUMBER**

The frame serial number ① is stamped into the right side of the steering head pipe.



**ENGINE SERIAL NUMBER**

The engine serial number ① is stamped into the elevated part of the left rear section of the engine.

**NOTE:** \_\_\_\_\_

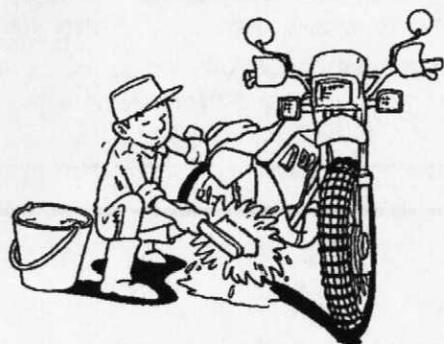
The first three digits of these numbers are for model identifications; the remaining digits are the unit production number.

Starting Serial Number:	
DT125R	3BN1....3BN-000101
	3DB1....3DB-000101
	3BP1....3BP-000101
	3DD1....3DD-000101

**NOTE:** \_\_\_\_\_

Designs and specifications are subject to change without notice.



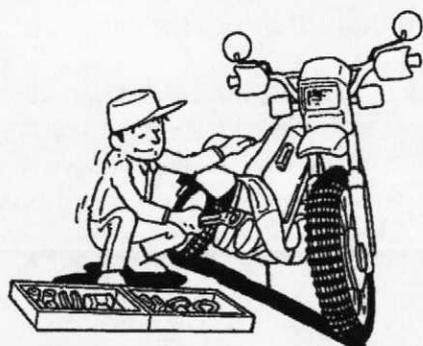


**IMPORTANT INFORMATION**

**PREPARATION FOR REMOVAL**

1. Remove all dirt, mud, dust, and foreign material before removal and disassembly.

2. Use proper tools and cleaning equipment. Refer to "SPECIAL TOOL".



3. When disassembling the machine, keep mated parts together. This includes gears, cylinders, pistons, and other mated parts that have been "mated" through normal wear. Mated parts must be reused as an assembly or replaced.



4. During the machines disassembly, clean all parts and place them in trays in the order of disassembly. This will speed up assembly time and help assure that all parts are correctly reinstalled.



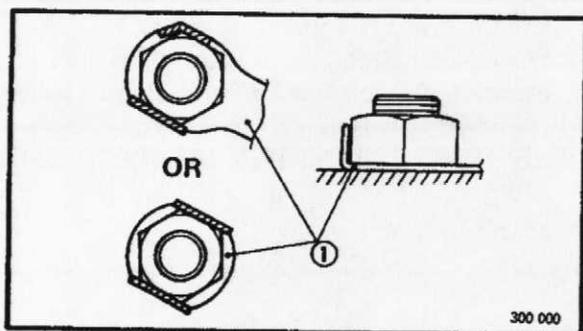
5. Keep away from fire.

**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.

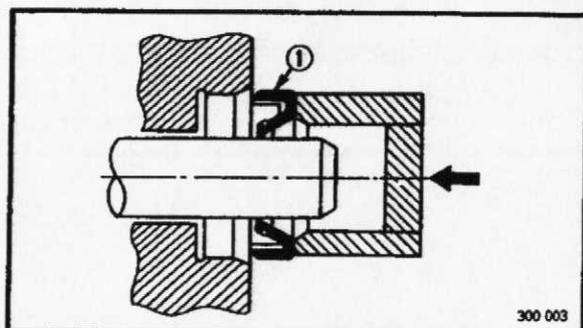
**GASKETS, OIL SEALS, AND O-RINGS**

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.



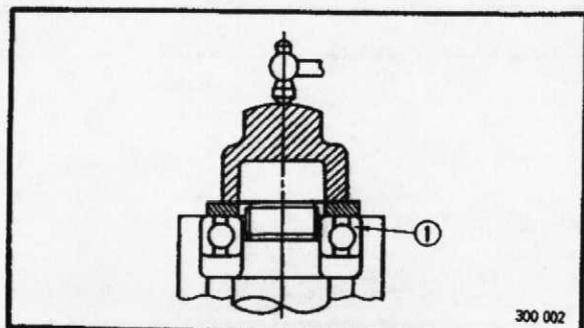
**BEARINGS AND OIL SEALS**

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

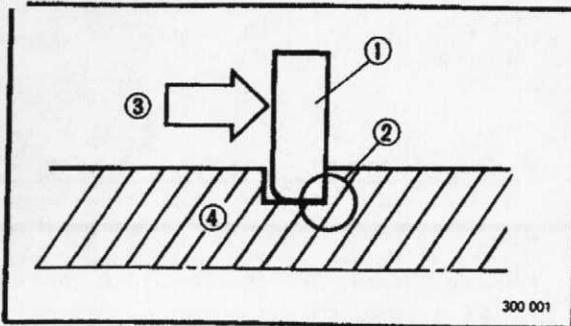
**CAUTION**

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



① Bearing

## SPECIAL TOOLS



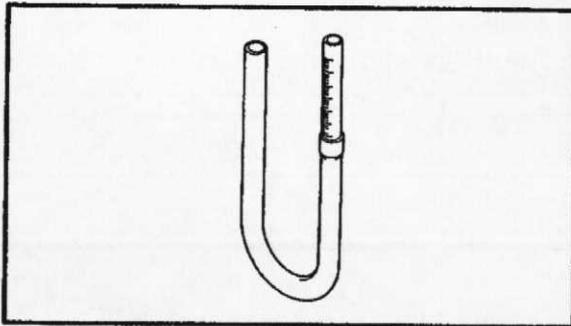
### CIRCLIPS

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

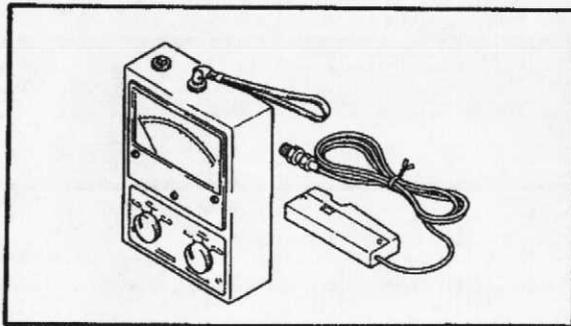
The proper special tools are necessary for complete and accurate tune-up and assembly. Using the correct special tool will help prevent damage caused by the use of improper tools or improvised techniques.



### FOR TUNE UP

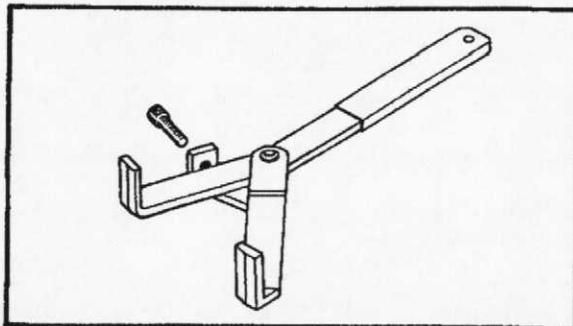
1. Fuel Level Gauge  
P/N. 90890-01312

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



2. Engine Tachometer  
P/N. 90890-03113

This tool is needed for detecting engine rpm.

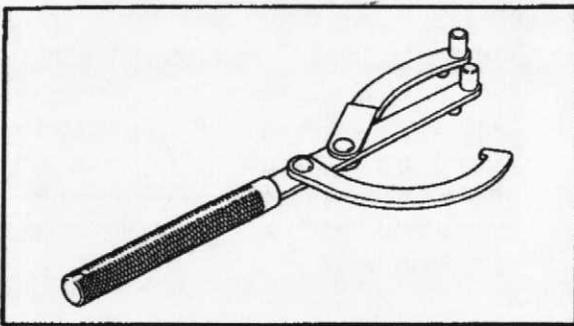


### FOR ENGINE SERVICE

1. Universal Clutch Holder  
P/N. 90890-04086

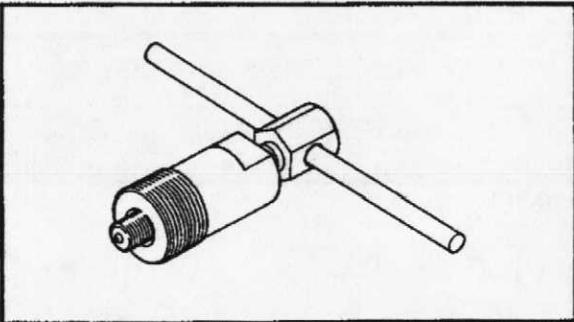
This tool is used to hold the clutch when loosening or tightening the clutch boss locknut.

**SPECIAL TOOLS**



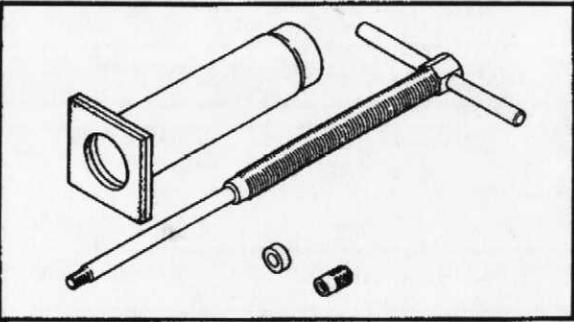
2. Universal Rotor Holder  
P/N 90890-01235

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



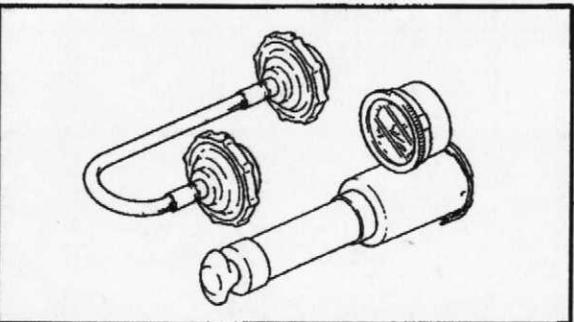
3. Flywheel Puller  
P/N. 90890-01189

This tool is used for removing the flywheel.



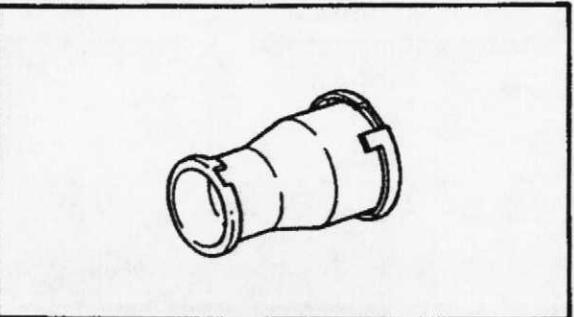
4. Piston Pin Puller  
P/N. 90890-01304

This tool is used to remove the piston pin.



5. Cooling System Tester  
P/N. 90890-01325

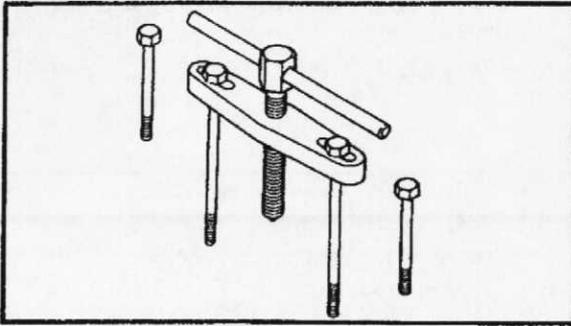
This tester is needed for checking the cooling system.



6. Adapter  
P/N. 90890-01352

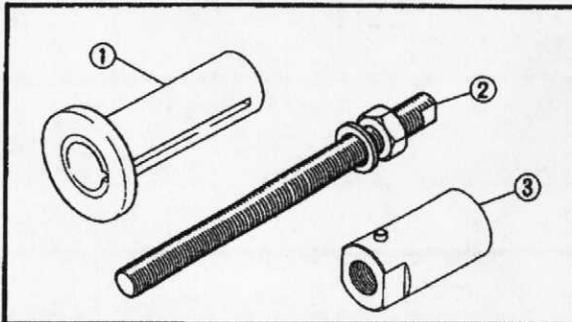
This tool is used for checking the radiator cap.

## SPECIAL TOOLS



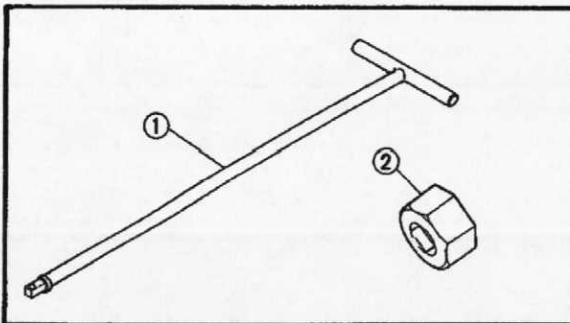
7. Crankcase Separating Tool  
P/N. 90890-01135

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



8. Crankshaft Installing Tool  
P/N. 90890-01274 – ①  
P/N. 90890-01275 – ②  
P/N. 90890-01278 – ③

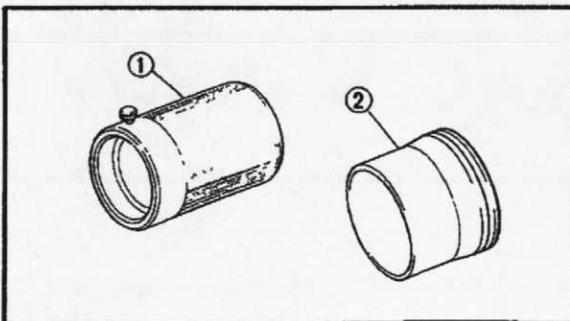
These tools are used to install the crankshaft.



### FOR CHASSIS SERVICE

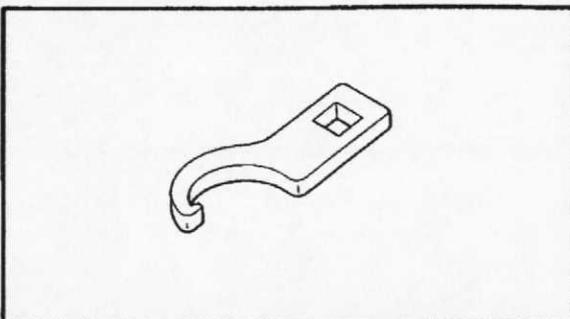
1. T-Handle – ①  
P/N. 90890-01326  
Front Fork Cylinder Holder – ②  
P/N. 90890-01388

This tool is used to loosen and tighten the front fork cylinder holding bolt.



2. Front Fork Seal Driver (Weight) – ①  
P/N. 90890-01367  
Adapter – ②  
P/N. 90890-01381

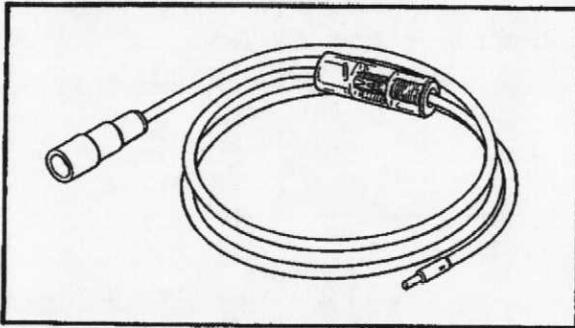
These tools are used when installing the fork seal.



3. Ring Nut Wrench  
P/N. 90890-01403

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

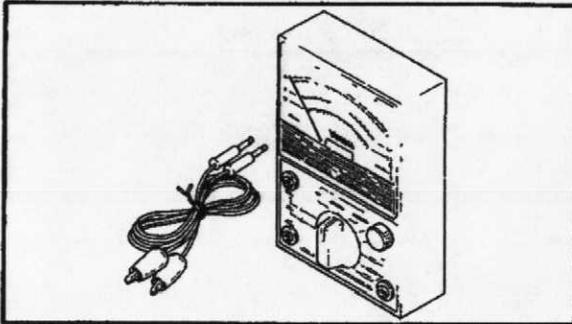
**SPECIAL TOOLS**



**FOR ELECTRICAL COMPONENTS**

1. Electro Tester  
P/N. 90890-03021

This tester is necessary for checking the ignition system components.



2. Pocket Tester  
P/N. 90890-03112

This tester is invaluable for checking the electrical system.



GENERAL SPECIFICATIONS



**SPECIFICATIONS**

(F): For France (Sw): For Sweden (E): For England  
 (B): For Belgium (D): For Denmark (Fi): For Finland  
 (NL): Netherland (CH):Switzerland (P): For Portugal

**GENERAL SPECIFICATIONS**

Model	DT125R			
Model Code Number	3BN1 (F) (SW) (NL) (Fi) (B) (D) (P)	3DB1 (E)	3BP1 (F)	3DD1 (CH)
Engine Starting Number	3BN-000101	3DB-000101	3BP-000101	3DD-000101
Frame Serial Number	3BN-000101	3DB-000101	3BP-000101	3DD-000101
Dimensions:				
Overall Length	2,160 mm (85.0 in) (F)(E)(B)(NL)(P) 2,250 mm (81.1 in) (SW)(D)(CH) 2,285 mm (82.4 in) (Fi)			
Overall Width	830 mm (32.7 in)			
Overall Height	1,255 mm (49.4 in)			
Seat Height	885 mm (34.8 in)			
Wheel Base	1,415 mm (55.7 in)			
Minimum Ground Clearance	315 mm (12.4 in)			
Basic Weight:				
With Oil and Full Fuel Tank	119 kg (262 lb)			
Minimum Turning Radius:	2,100 mm (82.7 in)			
Engine:				
Engine Type	Liquid cooled 2-stroke, gasoline			
Induction System	Reed valve			
Cylinder Arrangement	Single cylinder, Forward inclined			
Displacement	124 cm <sup>3</sup>			
Bore x Stroke	56.4 x 50.0 mm (2.22 x 1.97 in)			
Compression Ratio	6.8 : 1			
Starting System	Kick starter			
Lubrication System	Separate lubrication (Yamaha Autolube)			
Engine Oil:				
Type	Yamaha oil 2T or air-cooled 2-stroke engine oil			
Capacity	1.2 L (1.1 Imp qt, 1.3 US qt)			
Transmission Oil:				
Type	SAE 10W30 type SE motor oil			
Capacity:				
Periodic Oil Change	0.75 L (0.66 Imp qt, 0.79 US qt)			
Total Amount	0.80 L (0.70 Imp qt, 0.84 US qt)			
Coolant Capacity:				
Including All Routes	0.92 L (0.81 Imp qt, 0.97 US qt)			
Air Filter:				
Type	Wet element			

# GENERAL SPECIFICATIONS

**SPEC**



Model	DT125R	
Fuel: Type Fuel Tank Capacity: Full Amount Reserve Amount	Regular gasoline 10.0 L (2.2 Imp gal, 2.6 US gal) 1.8 L (0.40 Imp gal, 0.48 US gal)	
Carburetor: Type/Quantity Manufacturer	VM26SS/1 pc. MIKUNI	
Spark Plug: Type/Quantity Manufacturer Plug Gap	BR9ES/1 pc. NGK 0.7 ~ 0.8 mm (0.028 ~ 0.032 in)	
Clutch: Type	Wet, multiple disc	
Transmission: Type Primary Reduction System Primary Reduction Ratio Secondary Reduction System Secondary Reduction Ratio Operation Gear Ratio:	Constant mesh 6-speed Helical gear 71/22 (3.227) Chain drive 55/17 (2.235), 53/17 (3.118) (CH) Left foot operation 1st 34/12 (2.833) 2nd 30/16 (1.875) 3rd 24/17 (1.412) 4th 24/21 (1.143) 5th 22/23 (0.957) 6th 18/22 (0.818)	
Chassis: Frame Type Caster Angle Trail	Semi Double Cradle 27.5° 113 mm (4.45 in)	
Tire: Type Size: Front Rear	With tube 2.75-21 4PR 4.10-18 4PR	
Maximum Load* Front: Rear:	47 kg (104 lb) 134 kg (295 lb)	
Cold Tire Pressure: Up to 90 kg (198 lb) Load* 90 kg (198 lb) ~ Maximum Load* Off-road Riding	Front	Rear
	130 kPa (1.3 kg/cm <sup>2</sup> , 18 psi)	150 kPa (1.5 kg/cm <sup>2</sup> , 22 psi)
	150 kPa (1.5 kg/cm <sup>2</sup> , 22 psi)	180 kPa (1.8 kg/cm <sup>2</sup> , 26 psi)
	130 kPa (1.3 kg/cm <sup>2</sup> , 18 psi)	150 kPa (1.5 kg/cm <sup>2</sup> , 22 psi)

\*Load is total weight of cargo, rider, passenger, and accessories.

GENERAL SPECIFICATIONS



Model	DT125R
<b>Brake:</b> Front Brake Type Front Brake Operation Rear Brake Type Rear Brake Operation	Single disc brake Right hand operation Single disk brake Right foot operation
<b>Suspension:</b> Front Suspension Type Rear Suspension Type	Telescopic fork Swingarm (Monocross suspension)
<b>Shock Absorber:</b> Front Shock Absorber Rear Shock Absorber	Coil-air spring/Oil damper Coil and gas spring/Oil damper
<b>Wheel Travel:</b> Front Wheel Travel Rear Wheel Travel	270 mm (10.6 in) 260 mm (10.2 in)
<b>Electrical:</b> Ignition System Generator System	CDI Flywheel magneto
<b>Battery:</b> Type Capacity	GM3-3B/FB3L-B 12V 3AH
<b>Headlight:</b> Type	Bulb type
<b>Bulb Wattage (Quantity):</b> Headlight Tail/Brake Light Flasher Light Auxiliary Light Meter Light "NEUTRAL" Indicator Light "HIGH BEAM" Indicator Light "OIL" Indicator Light "TURN" Indicator Light	12V 45W/40W 12V 5W/21W 12V 21W (4 pcs.) 12V 4W, 12V 3.4W (E) (1 pc.) 12V 3.4W (2 pcs.) 12V 3W (1 pc.) 12V 3W (1 pc.) 12V 3W (1 pc.) 12V 3W (1 pc.)

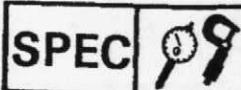


MAINTENANCE SPECIFICATIONS

ENGINE

Model		DT125R
Cylinder Head: Warpage Limit		0.03 mm (0.0012 in) * Lines indicate straightedge measurement.
Cylinder: Bore Size Taper Limit Out of Round Limit		56.40 ~ 56.42 mm (2.220 ~ 2.221 in) 0.05 mm (0.002 in) 0.01 mm (0.0004 in)
Piston: Piston Size "D" Measuring Point "a"		56.34 ~ 56.40 mm (2.218 ~ 2.220 in) 10 mm (0.4 in)
Piston Off-Set Piston-to-Cylinder Clearance < Limit > Over Size: 1st 2nd		0.5 mm (0.02 in) 0.045 ~ 0.050 mm (0.0018 ~ 0.0020 in) < 0.1 mm (0.004 in) > 56.65 mm (2.23 in) 56.90 mm (2.24 in)
Piston Ring: Sectional Sketch	Top Ring  2nd Ring 	Keystone type B = 1.2 mm (0.047 in) T = 2.2 mm (0.087 in)  Plain type B = 1.2 mm (0.047 in) T = 2.2 mm (0.087 in)
End Gap (Installed) Side Clearance	Top Ring 2nd Ring Top Ring 2nd Ring	0.30 ~ 0.45 mm (0.012 ~ 0.018 in) 0.30 ~ 0.45 mm (0.012 ~ 0.018 in) 0.020 ~ 0.060 mm (0.0008 ~ 0.0024 in) 0.035 ~ 0.070 mm (0.0014 ~ 0.0028 in)

# MAINTENANCE SPECIFICATIONS



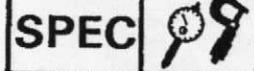
Model	DT125R
<p><b>Crankshaft:</b>                      Crank Width "A"                      Runout Limit "B"                      Big End Side Clearance "C"                      &lt; Limit &gt;                      Small End Free Play "D"</p>	<p>57.90 ~ 57.95 mm (2.280 ~ 2.282 in)                      0.02 mm (0.0008 in)                      0.20 ~ 0.70 mm (0.008 ~ 0.028 in)                      &lt; 1.0 mm (0.040 in) &gt;                      0.8 ~ 1.0 mm (0.031 ~ 0.040 in)</p>
<p><b>Clutch:</b>  <b>Friction Plate:</b>                      Thickness                      Quantity                      Wear Limit  <b>Clutch Plate:</b>                      Thickness                      Quantity                      Warpage Limit  <b>Clutch Spring:</b>                      Free Length                      Quantity                      Minimum Free Length                      Clutch Release Method                      Push Rod Bending Limit</p>	<p>2.9 ~ 3.1 mm (0.114 ~ 0.122 in)                      7 pcs.                      2.7 mm (0.106 in)                      1.05 ~ 1.35 mm (0.041 ~ 0.053 in)                      6 pcs.                      0.05 mm (0.002 in)                      34.5 mm (1.358 in)                      5 pcs.                      32.0 mm (1.260 in)                      Inner push, Cam push                      0.15 mm (0.006 in)</p>
<p><b>Transmission:</b>                      Main Axle Runout Limit                      Drive Axle Runout Limit</p>	<p>0.08 mm (0.003 in)                      0.08 mm (0.003 in)</p>
<p><b>Shifter:</b>                      Type                      Guide Bar Bending Limit</p>	<p>Cam drum and guide bar                      0.03 mm (0.0012 in)</p>
<p><b>Kick Starter:</b>                      Type</p>	<p>Kick and mesh type</p>
<p><b>Air Filter:</b>                      Oil Grade</p>	<p>Foam-Air-Filter oil or SAE 10W30 SE</p>
<p><b>Carburetor:</b>                      I.D. Mark                      Main Jet (M.J.)                      Air Jet (A.J.)                      Jet Needle-Position (J.N.)                      Needle Jet (N.J.)                      Cutaway (C.A.)                      Pilot Outlet (P.O.)                      Pilot Jet (P.J.)                      Air Screw (A.S.)                      Bypass 1 (B.P. 1)</p>	<p>3BN00, 3DD00 (CH)                      #125                      φ0.8                      407-3, 407-2 (CH)                      P-2                      2.0                      φ0.6                      #25                      1-1/2, 1-3/4 (CH)                      φ1.4</p>

# MAINTENANCE SPECIFICATIONS



Model	DT125R
Valve Seat Size (V.S.)	φ2.5
Starter Jet (G.S.)	#25
Power Jet (PW.J.)	#40
Fuel Level (F.L.)	-0.5 ~ +1.5 mm (-0.02 ~ +0.06 in)
Float Height (F.H.)	20 ~ 21 mm (0.79 ~ 0.83 in)
Idling Speed	1,300 ~ 1,400 r/min
Reed Valve:	
Valve Thickness	0.4 mm (0.02 in)
Valve Stopper Height	6.8 mm (0.27 in)
Valve Bending Limit	0.5 mm (0.02 in)
Lubrication System:	
Autolube Pump:	
Color Code	Red
Minimum Stroke	0.20 ~ 0.25 mm (0.008 ~ 0.010 in)
Maximum Stroke	1.85 ~ 2.05 mm (0.073 ~ 0.080 in)
Minimum Output	0.38 ~ 0.48 cm <sup>3</sup> per 200 strokes
Maximum Output	3.56 ~ 3.94 cm <sup>3</sup> per 200 strokes
Pulley Adjusting Mark	At idle
Cooling System:	
Radiator Core Width	110 mm (4.3 in)
Radiator Core Height	280 mm (11.0 in)
Radiator Core Thickness	32.0 mm (1.26 in)
Radiator Cap Opening Pressure	75 ~ 105 kPa (0.75 ~ 1.05 kg/cm <sup>2</sup> , 10 ~ 14 psi)
Reservoir Tank Capacity	0.3 L (0.32 Imp qt, 0.26 US qt)
Water Pump Type	Single-suction centrifugal pump
Thermostatic Valve:	
Opening Temperature	63 ~ 67°C (146 ~ 153°F)
Full Open Temperature/Lift	80°C (176°F)/7 mm (0.28 in) or more

# MAINTENANCE SPECIFICATIONS



Tightening Torque:						
Parts to be tightened	Q'ty	Thread size	Tightening torque			Remarks
			Nm	m.kg	ft. lb	
Spark Plug	1	M14 x 1.25	20	2.0	14	
Cylinder Head						
Nut	5	M8 x 1.25	22	2.0	16	
Cylinder						
Stud bolt	9	M8 x 1.25	13	1.3	9.4	LT
Nut	4	M8 x 1.25	28	2.8	20	
Power Valve Holder, Valve, Cover, Cap Seal						
Bolt	6	M5 x 0.8	7	0.7	5.1	
Power Valve Pully						
Bolt		M6 x 1.0	10	1.0	7.2	
Balancer Gear						
Nut	2	M12 x 1.0	55	5.5	40	
Thermostat Valve Cover						
Screw	3	M6 x 1.0	8	0.8	5.8	
Housing Cover						
Screw	2	M6 x 1.0	8	0.8	5.8	
Drain Bolt (Housing Cover)	1	M6 x 1.0	10	1.0	7.2	
Radiator						
Bolt	2	M6 x 1.0	8	0.8	5.8	
Warm Water Hose (Carburetor)						
Bolt	2	M6 x 1.0	8	0.8	5.8	
Radiator Cap Stopper						
Screw	1	M5 x 0.8	5	0.5	3.6	
Oil Pump						
Screw	2	M5 x 0.8	5	0.5	3.6	
Carburetor Joint						
Bolt	4	M6 x 1.0	8	0.8	5.8	
Air Filter						
Bolt	2	M6 x 1.0	5	0.5	3.6	
Exhaust Pipe						
Nut	2	M8 x 1.25	18	1.8	13	LT
Stud Bolt	2	M8 x 1.25	10	1.0	7.2	
Bolt	3	M6 x 1.0	8	0.8	5.8	
Transmission Oil Drain Bolt	1	M8 x 1.25	15	1.5	11	
Crankcase Cover (Left)						
Screw	6	M6 x 1.0	5	0.5	3.6	
Crankcase Cover (Right)						
Screw	6	M6 x 1.0	8	0.8	5.8	
Oil Pump Cover						
Screw	3	M6 x 1.0	5	0.5	3.6	
Crankcase						
Screw	12	M6 x 1.0	8	0.8	5.6	
Oil Seal Holder						
Screw	1	M8 x 1.25	16	1.6	11	

MAINTENANCE SPECIFICATIONS



Tightening Torque:						
Part to be tightened	Q'ty	Thread size	Tightening torque			Remarks
			Nm	m.kg	ft. lb	
Cover						
Screw	2	M6 x 1.0	8	0.8	5.6	
Kick Crank Bass						
Nut	1	M12 x 1.0	65	6.5	47	
Primary Drive Gear						
Nut	1	M12 x 1.0	80	8.0	58	
Clutch Boss						
Nut	1	M12 x 1.0	70	7.0	51	
Clutch Spring						
Bolt	5	M5 x 0.8	6	0.6	4.3	
Plate Cover						
Screw	2	M6 x 1.0	10	1.0	7.2	
Drive Sprocket						
Nut	1	M16 x 1.0	60	0.6	43	
Tachometer Housing						
Bolt	1	M6 x 1.0	5	0.5	3.6	
Stopper Lever						
Bolt	1	M6 x 1.0	14	1.4	10	
Change Pedal						
Bolt	1	M6 x 1.0	15	1.5	11	
Thermo Unit						
Rotor	1	—	15	1.5	11	
Nut	1	M12 x 1.25	80	8.0	58	

**MAINTENANCE SPECIFICATIONS**



**CHASSIS**

Model	DT125R
<b>Steering System:</b> Bearing Type      Upper Lower Bearing Size (Quantity): Upper	Ball bearing Taper roller bearing  3/16 in (22 pcs.)
<b>Front Suspension:</b> Front Fork Travel Fork Spring Free Length < Limit > Spring Rate (K <sub>1</sub> ) Stroke (K <sub>1</sub> ) Optional Spring Oil Capacity Oil Level  Oil Grade	270 mm (10.6 in) 478 mm (18.8 in) < 473 mm (18.6 in) > 3.0 N/mm (0.30 kg/mm, 17 lb/in) 0 ~ 270 mm (0 ~ 10.6 in) No. 486 cm <sup>3</sup> (17.1 Imp oz, 16.4 US oz) 175 mm (6.89 in) From top of inner tube fully compressed without spring. Fork oil 10W or equivalent
<b>Rear Suspension:</b> Shock Absorber Travel Spring Free Length < Limit > Fitting Length Spring Rate (K <sub>1</sub> ) Stroke (K <sub>1</sub> ) Optional Spring Enclosed Gas Pressure	93 mm (3.66 in) 245 mm (9.65 in) < 243 mm (9.57 in) > 230 mm (9.06 in) 70 N/mm (7 kg/mm, 392 lb/in) 0 ~ 93 mm (0 ~ 3.66 in) No. 1471.0 kPa (15 kg/cm <sup>2</sup> , 213 psi)
<b>Swingarm:</b> Free Play Limit (Swingarm End)	1.0 mm (0.04 in) Move swingarm end side to side
<b>Front Wheel:</b> Type Rim Size Rim Material Rim Runout Limit: Vertical Lateral	Spoke wheel 1.60 x 21 Steel  2.0 mm (0.08 in) 2.0 mm (0.08 in)
<b>Rear Wheel:</b> Type Rim Size Rim Material Rim Runout Limit: Vertical Lateral	Cast wheel 1.85 x 18 Steel  2.0 mm (0.08 in) 2.0 mm (0.08 in)
<b>Drive Chain:</b> Type/Manufacturer Number of Links Chain Free Play	428V/DAIDO 133 Links + joint 25 ~ 40 mm (0.98 ~ 1.57 in)