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Manual Clutch and Automatic  
**T135SE**  
**T135S**

# T135 SERVICE MANUAL

Sniper / Jupiter MX / Spark 135 / Exciter / 135LC

**YamahaT135.COM**

**03212007**

**5YP-F8197-E0**

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# Yamaha T135 Service Manual

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# Yamaha T135 Service Manual

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**T135SE/T135S  
SERVICE MANUAL**  
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# Yamaha T135 Service Manual

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## NOTICE

This manual was produced by the Yamaha Motor Company, Ltd. primarily for use by Yamaha dealers and their qualified mechanics. It is not possible to include all the knowledge of a mechanic in one manual. Therefore, anyone who uses this book to perform maintenance and repairs on Yamaha vehicles should have a basic understanding of mechanics and the techniques to repair these types of vehicles. Repair and maintenance work attempted by anyone without this knowledge is likely to render the vehicle unsafe and unfit for use.

Yamaha Motor Company, Ltd. is continually striving to improve all of its models. Modifications and significant changes in specifications or procedures will be forwarded to all authorized Yamaha dealers and will appear in future editions of this manual where applicable.

### NOTE:

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Designs and specifications are subject to change without notice.

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## IMPORTANT MANUAL INFORMATION

Particularly important information is distinguished in this manual by the following.



The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

### **WARNING**

Failure to follow WARNING instructions could result in severe injury or death to the vehicle operator, a bystander or a person checking or repairing the vehicle.

### **CAUTION:**

A CAUTION indicates special precautions that must be taken to avoid damage to the vehicle.

### **NOTE:**

A NOTE provides key information to make procedures easier or clearer.

## HOW TO USE THIS MANUAL

### CONSTRUCTION OF THIS MANUAL

This manual consists of chapters for the main categories of subjects. (See “Illustrated symbols”)

1st title ①: This is a chapter with its symbol on the upper right of each page.

2nd title ②: This title appears on the upper of each page on the left of the chapter symbol. (For the chapter “Periodic inspection and adjustment” the 3rd title appears.)

3rd title ③: This is a final title.

### 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 a easy to read, handy reference that contains comprehensive explanations of all disassembly, repair, assembly, and inspections.

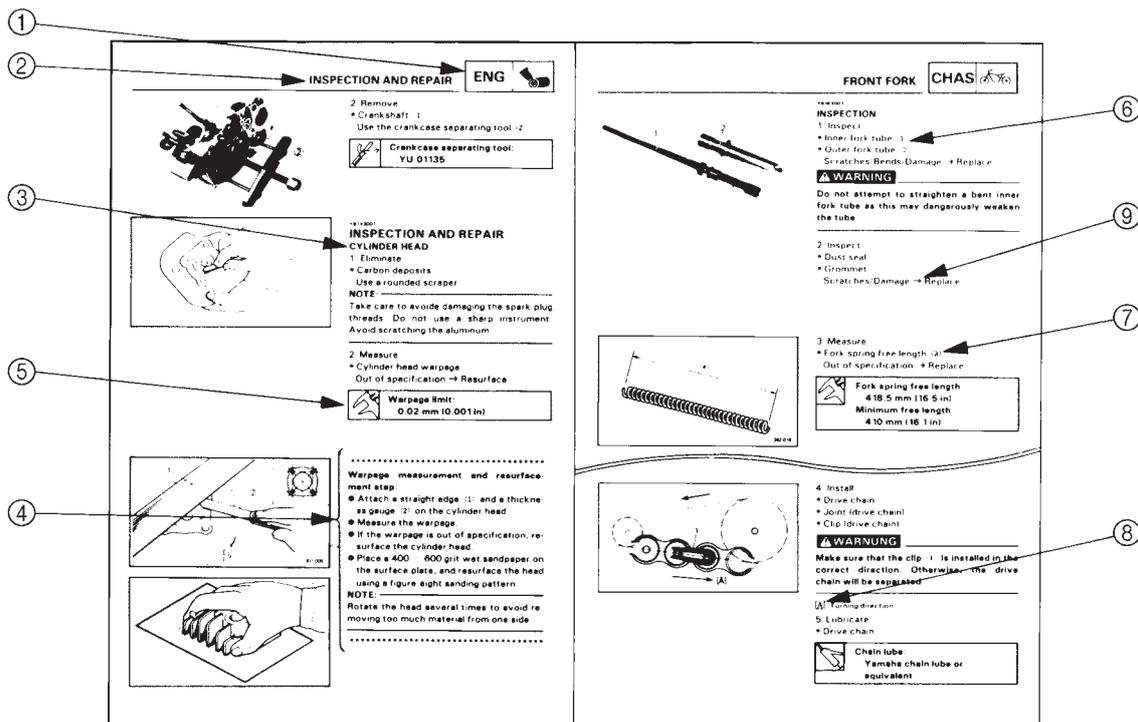
A set of particularly important procedure ④ is placed between a line of mark “▼” or “▲” with each procedure preceded by “●”.

### IMPORTANT FEATURES

- Data and a special tool are framed in a box preceded by a relevant symbol ⑤ .
- An encircled numeral ⑥ indicates a part name, and an encircled alphabetical letter date or an alignment mark ⑦, the others being indicated by an alphabetical letter in a box ⑧ .
- A condition of a faulty component will precede an arrow symbol and the course of action required the symbol ⑨ .

### EXPLODED DIAGRAM

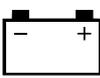
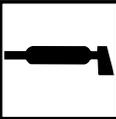
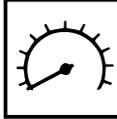
Each chapter provides exploded diagrams before each disassembly section for ease in identifying correct disassembly and assembly procedures.



# Yamaha T135 Service Manual

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# Yamaha T135 Service Manual

① <b>GEN INFO</b> 	② <b>SPEC</b> 	
③ <b>CHK ADJ</b> 	④ <b>ENG</b> 	
⑤ <b>COOL</b> 	⑥ <b>CARB</b> 	
⑦ <b>CHAS</b> 	⑧ <b>ELEC</b> 	
⑨ <b>TRBL SHTG</b> 	⑩ 	
⑪ 	⑫ 	
⑬ 	⑭ 	
⑮ 	⑯ 	⑰ 
⑱ 	⑲ 	⑳ 
㉑ 	㉒ 	㉓ 
㉔ 	㉕ <b>New</b>	

## SYMBOLS

The following symbols are not relevant to every vehicle.

Symbols ① to ⑨ indicate the subject of each chapter.

- ① General information
- ② Specifications
- ③ Periodic checks and adjustments
- ④ Engine
- ⑤ Cooling system
- ⑥ Carburetor
- ⑦ Chassis
- ⑧ Electrical system
- ⑨ Troubleshooting

Symbols ⑩ to ⑰ indicate the following.

- ⑩ Serviceable with engine mounted
- ⑪ Filling fluid
- ⑫ Lubricant
- ⑬ Special tool
- ⑭ Tightening torque
- ⑮ Wear limit, clearance
- ⑯ Engine speed
- ⑰ Electrical data

Symbols ⑱ to ㉓ in the exploded diagrams indicate the types of lubricants and lubrication points.

- ⑱ Engine oil
- ⑲ Gear oil
- ⑳ Molybdenum-disulfide oil
- ㉑ Wheel-bearing grease
- ㉒ Lithium-soap-based grease
- ㉓ Molybdenum-disulfide grease

Symbols ㉔ to ㉕ in the exploded diagrams indicate the following.

- ㉔ Apply locking agent (LOCTITE®)
- ㉕ Replace the part

# Yamaha T135 Service Manual

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EAS00011

# TABLE OF CONTENTS

<b>GENERAL INFORMATION</b>	
	<b>GEN INFO 1</b>
<b>SPECIFICATIONS</b>	
	<b>SPEC 2</b>
<b>PERIODIC CHECKS AND ADJUSTMENTS</b>	
	<b>CHK ADJ 3</b>
<b>ENGINE</b>	
	<b>ENG 4</b>
<b>COOLING SYSTEM</b>	
	<b>COOL 5</b>
<b>CARBURETOR</b>	
	<b>CARB 6</b>
<b>CHASSIS</b>	
	<b>CHAS 7</b>
<b>ELECTRICAL SYSTEM</b>	
	<b>ELEC 8</b>
<b>TROUBLESHOOTING</b>	<b>?</b>
	<b>TRBL SHTG 9</b>

# Yamaha T135 Service Manual

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**CHAPTER 1**  
**GENERAL INFORMATION**

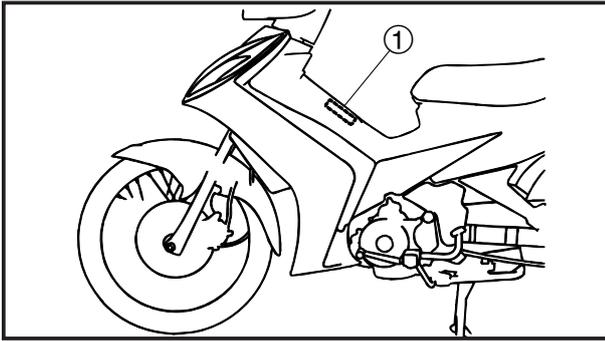
**VEHICLE IDENTIFICATION** .....1-1  
    VEHICLE IDENTIFICATION NUMBER .....1-1  
    ENGINE SERIAL NUMBER.....1-1

**IMPORTANT INFORMATION** .....1-2  
    PREPARATION FOR REMOVAL AND DISASSEMBLY .....1-2  
    REPLACEMENT PARTS .....1-2  
    GASKETS, OIL SEALS AND O-RINGS .....1-2  
    LOCK WASHERS/PLATES AND COTTER PINS .....1-3  
    BEARINGS AND OIL SEALS .....1-3  
    CIRCLIPS .....1-3

**CHECKING THE CONNECTIONS** .....1-4

**SPECIAL TOOLS** .....1-5





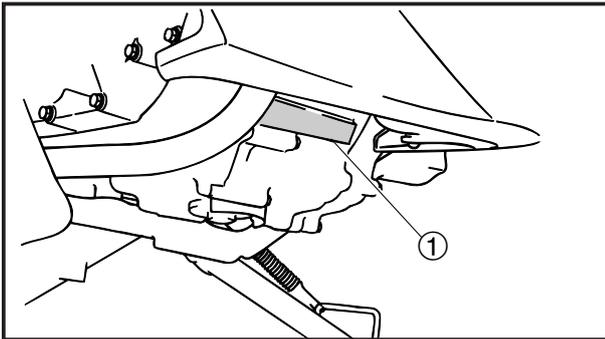
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## GENERAL INFORMATION VEHICLE IDENTIFICATION

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### VEHICLE IDENTIFICATION NUMBER

The number ① is stamped into the center of the frame.



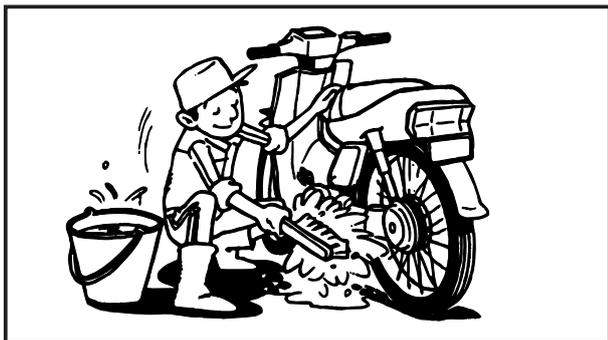
### ENGINE SERIAL NUMBER

The engine serial number ① is stamped into the crankcase.

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

Designs and specifications are subject to change without notice.

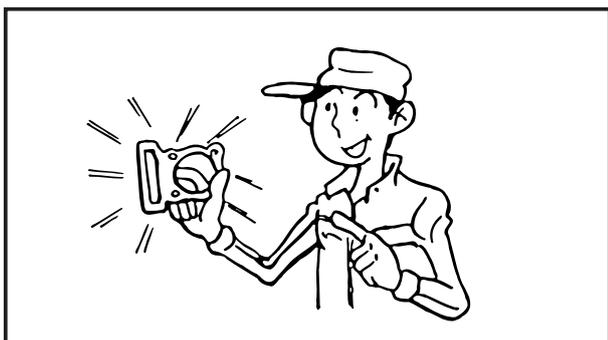
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EAS00020

### IMPORTANT INFORMATION PREPARATION FOR REMOVAL AND DISASSEMBLY

1. Before removal and disassembly, remove all dirt, mud, dust and foreign material.
2. Use only the proper tools and cleaning equipment.  
Refer to the "SPECIAL TOOLS".
3. When disassembling, always keep mated parts together. This includes gears, cylinders, pistons and other parts that have been "mated" through normal wear. Mated parts must always be reused or replaced as an assembly.
4. During disassembly, clean all of the parts and place them in trays in the order of disassembly. This will speed up assembly and allow for the correct installation of all parts.
5. Keep all parts away from any source of fire.



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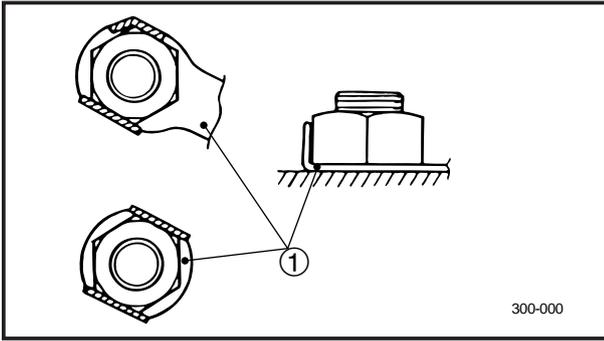
### REPLACEMENT PARTS

Use only genuine Yamaha parts for all replacements. Use oil and grease recommended by Yamaha for all lubrication jobs. Other brands may be similar in function and appearance, but inferior in quality.

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### GASKETS, OIL SEALS AND O-RINGS

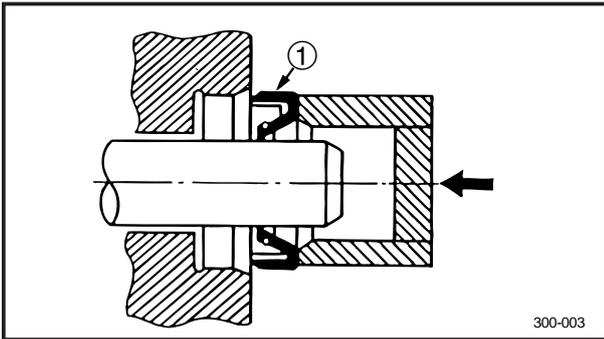
1. When overhauling the engine, replace all gaskets, seals and O-rings. All gasket surfaces, oil seal lips and O-rings must be cleaned.
2. During reassembly, properly oil all mating parts and bearings and lubricate the oil seal lips with grease.



EAS00023

### LOCK WASHERS/PLATES AND COTTER PINS

After removal, replace all lock washers/plates ① and cotter pins. After the bolt or nut has been tightened to specification, bend the lock tabs along a flat of the bolt or nut.



EAS00024

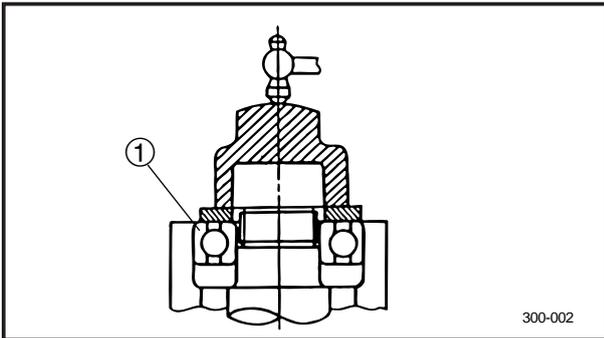
### BEARINGS AND OIL SEALS

Install bearings and oil seals so that the manufacturer's marks or numbers are visible. When installing oil seals, lubricate the oil seal lips with a light coat of lithium-soap-based grease. Oil bearings liberally when installing, if appropriate.

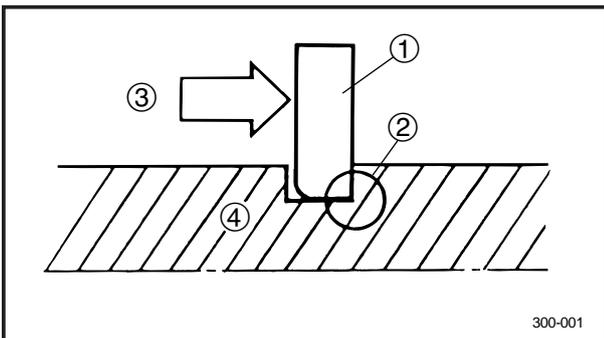
① Oil seal

### CAUTION:

**Do not spin the bearing with compressed air because this will damage the bearing surfaces.**



① Bearing



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### CIRCLIPS

Before reassembly, check all circlips carefully and replace damaged or distorted circlips. Always replace piston pin clips after one use. When installing a circlip ①, make sure the sharp-edged corner ② is positioned opposite the thrust ③ that the circlip receives.

④ Shaft



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### CHECKING THE CONNECTIONS

Check the leads, couplers, and connectors for stains, rust, moisture, etc.

1. Disconnect:

- lead
- coupler
- connector

2. Check:

- lead
- coupler
- connector

Moisture → Dry with compressed air.

Rust/stains → Connect and disconnect several times.

3. Check:

- all connections

Loose connection → Connect properly.

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

If the pin ① on the terminal is flattened, bend it up.

4. Connect:

- lead
- coupler
- connector

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

Make sure all connections are tight.

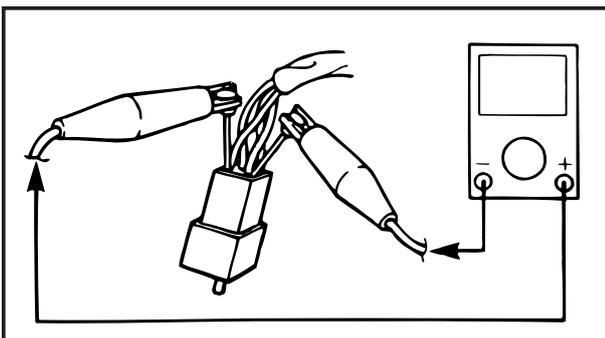
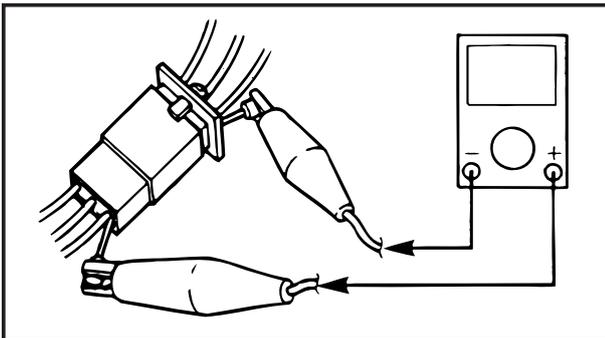
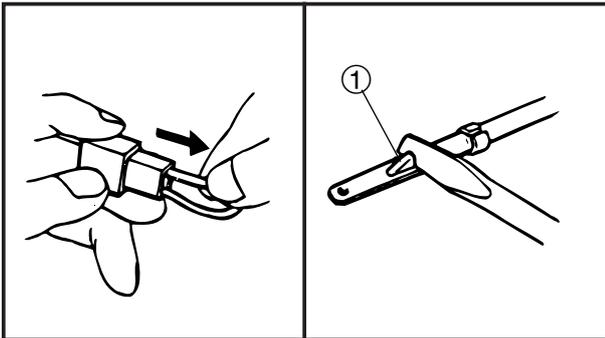
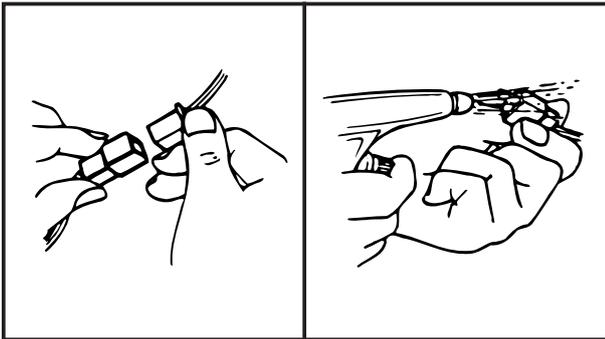
5. Check:

- continuity  
(with the pocket tester)

	<b>Pocket tester</b> 90890-03112
--	-------------------------------------

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

- If there is no continuity, clean the terminals.
- When checking the wire harness, perform steps (1) to (3).
- As a quick remedy, use a contact revitalizer available at most part stores.





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### SPECIAL TOOLS

The following special tools are necessary for complete and accurate tune-up and assembly. Use only the appropriate special tools as this will help prevent damage caused by the use of inappropriate tools or improvised techniques. Special tools, part numbers or both may differ depending on the country. When placing an order, refer to the list provided below to avoid any mistakes.

Tool No.	Tool name/Usage	Illustration
90890-01052	<p>Meter gear bush tool</p> <p>This tool is used to remove or install the bushing.</p>	
90890-01135	<p>Crankcase separating tool</p> <p>This tool is necessary for separating the crankcase.</p>	
90890-01184	<p>Fork seal driver weight</p> <p>This tool is used for to install the oil seal.</p>	
90890-01186	<p>Fork seal driver attachment</p> <p>This tool is used to install the oil seal.</p>	
90890-01268	<p>Ring nut wrench</p> <p>This tool is used to loosen and tighten the steering ring nut</p>	
90890-01274	<p>Crankshaft instoller pot</p> <p>This tool is necessary for installing the crankshaft.</p>	
90890-01275	<p>Crankcase installer bolt</p> <p>This tool is necessary for installing the crankshaft.</p>	



Tool No.	Tool name/Usage	Illustration
90890-01278	Adaptor (M12)  This tool is necessary for installing the crankshaft.	
90890-01311	Tappet adjusting tool  This tool is necessary for adjusting valve clearance.	
Radiator cap tester 90890-01325 Radiator cap tester adapter 90890-01352	Radiator cap tester Radiator cap tester adapter  These tools are used to check the cooling system.	
90890-01326	T-handle  This tool is used for holding the damper rod holder when removing or installing the damper rod holder.	
90890-01362	Flywheel puller  This tool is used for removing the rotor.	
90890-01403	Steering nut wrench  This tool is used to loosen and tighten the steering ring nut	
90890-01701	Sheave holder  This tool is used for holding the generator rotor.	
90890-03079	Thickness gauge  This tool is used to measure the valve clearance.	



Tool No.	Tool name/Usage	Illustration
90890-03081	<p>Compression gauge</p> <p>These tools are used to measure the engine compression.</p>	
90890-03112	<p>Pocket tester</p> <p>This instrument is necessary for checking the electrical system.</p>	
90890-03113	<p>Engine tachometer</p> <p>This tool is needed for detecting engine rpm.</p>	
Middle driven shaft bearing driver 90890-04058 Mechanical seal installer 90890-04145	<p>Middle driven shaft bearing driver Mechanical seal installer</p> <p>These tools are used to install the water pump seal.</p>	
90890-04108	<p>Valve spring compressor Attachment</p> <p>This tool is used when removing or installing the valve and valve spring.</p>	
90890-04019	<p>Valve spring compressor</p> <p>This tool is used when removing or installing the valve and valve spring.</p>	
90890-04081	<p>Spacer</p> <p>This tool is necessary for insatlling the crankshaft.</p>	
90890-04086	<p>Universal clutch holder</p> <p>This tool is needed to hold the clutch when removing or installing the clutch boss nut.</p>	



Tool No.	Tool name/Usage	Illustration
90890-04101	<p>Valve lapper</p> <p>This tool is used for removeing and installing the lifter and for lapping the valve.</p>	
90890-04116	<p>Valve guide remover (4.5 mm)</p> <p>This tool is needed to remove and installing the valve guide.</p>	
90890-04117	<p>Valve guide installer (4.5 mm)</p> <p>This tool is needed to install the valve guide.</p>	
90890-04118	<p>Valve guide reamer (4.5 mm)</p> <p>This tool is needed rebore the new valve guide.</p>	
90890-06754	<p>Ignition checker</p> <p>This instrument is necessary for checking the ignition system components.</p>	



**CHAPTER 2  
SPECIFICATIONS**

**GENERAL SPECIFICATIONS** ..... 2-1

**MAINTENANCE SPECIFICATIONS** ..... 2-4

    ENGINE ..... 2-4

    TIGHTENING TORQUES ..... 2-9

    CHASSIS ..... 2-11

    TIGHTENING TORQUES ..... 2-13

    ELECTRICAL ..... 2-15

**CONVERSION TABLE** ..... 2-17

**GENERAL TIGHTENING TORQUE SPECIFICATIONS** ..... 2-17

**LUBRICATION POINTS AND LUBRICANT TYPES** ..... 2-18

    ENGINE ..... 2-18

    CHASSIS ..... 2-20

**COOLING SYSTEM DIAGRAMS** ..... 2-21

**CABLE ROUTING** ..... 2-22





## SPECIFICATIONS

## GENERAL SPECIFICATIONS

Model	T135SE/T135S
<b>Model code</b>	5YP1 (T135SE) 5YP2 (T135S)
<b>Dimensions</b>	
Overall length	1,945 mm (76.6 in)
Overall width	705 mm (27.8 in)
Overall height	1,065mm (41.9 in)
Seat height	770 mm (30.3 in)
Wheelbase	1,245 mm (49.0 in)
Minimum ground clearance	140 mm (5.51 in)
Minimum turning radius	1,900 mm (74.8 in)
<b>Weight</b>	
Wet (with oil and full fuel tank)	109 kg (240 lb)
<b>Engine</b>	
Engine type	Liquid-cooled 4-stroke, SOHC
Cylinder arrangement	Forward-inclined single cylinder
Displacement	134.4 cm <sup>3</sup> (8.20 cu.in)
Bore × stroke	54.0 × 58.7 mm (2.13 × 2.31 in)
Compression ratio	10.9 : 1
Compression pressure (STD)	560 kPa (80 psi) (5.6 kgf/cm <sup>2</sup> ) at 500 r/m/ with electric starter
Starting system	Kick and electric starter
Lubrication system	Wet sump
Engine idling speed	1,300 – 1,500 r/min
<b>Oil type or grade</b>	
Engine oil	SAE 20W40 type SF or higher grade motor oil
Periodic oil change amount	0.8 L (0.70 Imp.qt, 0.85 US qt)
Total amount	1.15 L (1.01 Imp.qt, 1.22 US qt)
<b>Oil filter</b>	Paper
<b>Oil pump</b>	Gear pump
<b>Cooling system</b>	
Coolant	YAMAHA GENUINE COOLANT
Coolant reservoir capacity (up to the maximum level mark)	0.28L (0.25 Imp.qt, 0.30 US qt)
Radiator capacity (include all routes)	0.62L (0.55 Imp.qt, 0.66 US qt)
<b>Air filter</b>	Dry type paper element
<b>Fuel</b>	
Recommended fuel	Regular gasoline
Fuel tank capacity	4.0 L (0.88 Imp.gal, 1.06 US gal)



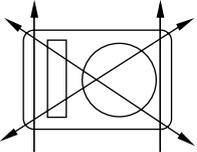
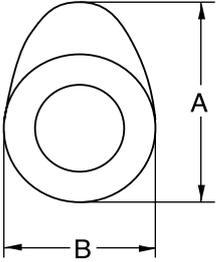
Model	T135SE/T135S
<b>Carburetor</b> Type/quantity Manufacturer	VM22/1 MIKUNI
<b>Spark plug</b> Type Manufacturer Spark plug gap	CPR8EA-9 NGK 0.8 – 0.9 mm (0.031 – 0.035 in)
<b>Clutch type</b>	Wet, multiple-disc and centrifugal automatic
<b>Transmission</b> Primary reduction system Primary reduction ratio Secondary reduction system Secondary reduction ratio Transmission type Operation Gear ratio	Spur gear 69/24 (2.875) Chain drive 39/15 (2.600) Constant mesh 4 speed Left foot operation 1st 34/12 (2.833) 2nd 30/16 (1.875) 3rd 23/17 (1.353) 4th 23/22 (1.045)
<b>Chassis</b> Frame type Caster angle Trail	Diamond 25.3° 73.0 mm (2.87 in)
<b>Tire</b> Type Size Model (manufacturer) Min. tire tread depth	With tube front 60/100-17M/C 33P rear 80/90-17M/C 44P front IRC/NF63B, Vee Rubber/V304 rear IRC/NR78Y, Vee Rubber/V304 front 0.8 mm (0.03 in) rear 0.8 mm (0.03 in)
<b>Tire pressure (cold tire)</b> Maximum load*-except vehicle	110 kg (243 lb) front 200 kPa (29 psi) (2.00 kgf/cm <sup>2</sup> ) rear 225 kPa (33 psi) (2.25 kgf/cm <sup>2</sup> )

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





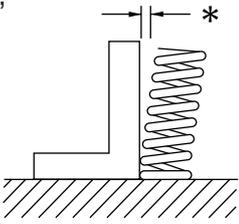
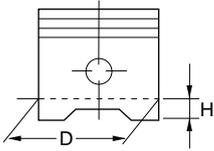
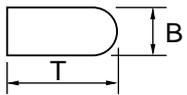
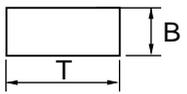
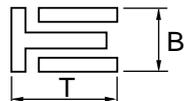
**MAINTENANCE SPECIFICATIONS**  
**ENGINE**

Item	Standard	Limit
<b>Cylinder head</b> Max. warpage "*" 	----	0.03 mm (0.0012 in)
<b>Cylinder</b> Bore  Out of round limit	54.000 – 54.010 mm (2.1260 – 2.1264 in)  ----	54.1 mm (2.1299 in)  0.05 mm (0.002 in)
<b>Camshaft</b> Drive Method Cam dimensions Intake "A" "B" Exhaust "A" "B"  Camshaft runout limit	 Chain drive (left)  29.643 – 29.743 mm (1.1670 – 1.1710 in) 25.073 – 25.173 mm (0.9871 – 0.9911 in) 29.942 – 30.042 mm (1.1788 – 1.1828 in) 25.019 – 25.119 mm (0.9850 – 0.9889 in)  ----	   29.613 mm (1.1659 in) 25.043 mm (0.9859 in) 29.912 mm (1.1776 in) 24.989 mm (0.9838 in)  0.03 mm (0.0012 in)
<b>Timing chain</b> Timing chain type/No. of links Tensioning system	SILENT CHAIN/96 Automatic	---- ----
<b>Rocker arm/rocker arm shaft</b> Rocker arm inside diameter  Rocker arm shaft outside diameter  Rocker-arm-to-rocker-arm-shaft clearance	9.985 – 10.000 mm (0.3931 – 0.3937 in)  9.966 – 9.976 mm (0.3924 – 0.3928 in)  0.009 – 0.034 mm (0.0004 – 0.0130 in)	10.030 mm (0.0012 in)  9.950 mm (0.3917 in)  0.08 mm (0.0031 in)

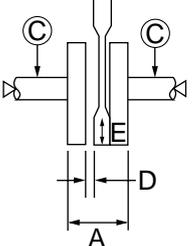


Item		Standard	Limit
<b>Valve, valve seat, valve guide</b>			
Valve clearance (cold)	IN	0.10 – 0.14 mm (0.0039 – 0.0055 in)	----
	EX	0.16 – 0.20 mm (0.0063 – 0.0079 in)	----
Valve dimensions			
Head Diameter		Face Width	Seat Width
			Margin Thickness
“A” head diameter	IN	19.40 – 19.60 mm (0.7638 – 0.7717 in)	----
	EX	16.90 – 17.10 mm (0.6654 – 0.6732 in)	----
“B” face width	IN	1.583 – 2.138 mm (0.060 – 0.0842 in)	----
	EX	1.538 – 2.138 mm (0.0606 – 0.0842 in)	----
“C” seat width	IN	0.9 – 1.1 mm (0.035 – 0.043 in)	1.6 mm (0.0630 in)
	EX	0.9 – 1.1 mm (0.035 – 0.043 in)	1.6 mm (0.0630 in)
“D” margin thickness	IN	0.5 – 0.9 mm (0.20 – 0.36 in)	----
	EX	0.5 – 0.9 mm (0.20 – 0.36 in)	----
Valve stem outside diameter	IN	4.475 – 4.490 mm (0.1762 – 0.1768 in)	4.450 mm (0.1752 in)
	EX	4.460 – 4.475 mm (0.1756 – 0.1762 in)	4.435 mm (0.1746 in)
Guide inside diameter	IN	3.950 – 4.050 mm (0.1555 – 0.1594 in)	4.542 mm (0.1788 in)
	EX	3.950 – 4.050 mm (0.1555 – 0.1594 in)	4.542 mm (0.1788 in)
Valve-stem-to-guide clearance	IN	0.0010 – 0.037mm (0 – 0.0015 in)	0.080 mm (0.0032 in)
	EX	0.025 – 0.052 mm (0.0010 – 0.0020 in)	0.100 mm (0.0039 in)
Valve stem runout limit		----	0.01 mm (0.0004 in)
Valve seat width	IN/EX	0.9 – 1.1 mm (0.035 – 0.043 in)	1.6 mm (0.0630 in)



Item	Standard	Limit
<b>Valve spring</b>		
Free length IN/EX	47.33 mm (1.86 in)	44.96 mm (1.77 in)
Installed length (valve closed) IN/EX	35.30 mm (1.39 in)	----
Compressed spring force IN/EX	135.6 – 156.0 N (13.8 – 15.8 kgf) at 35.3 mm (1.39 in)	----
Tilt limit “*”  IN/EX	----	2.0 mm (0.08 in)
Winding direction IN/EX	Clockwise	----
<b>Piston</b>		
Piston-to-cylinder clearance	0.015 – 0.048 mm (0.0006 – 0.0019 in)	0.150 mm (0.0059 in)
Piston size “D” 	53.962 – 53.985 mm (2.1245 – 2.1254 in)	----
Measuring point “H”	5.0 mm (0.1969 in)	----
Offset	0.25 mm (0.0098 in)	----
Offset direction	Intake side	----
Piston pin bore inside diameter	14.002 – 14.013 mm (0.5513– 0.5517 in)	14.043 mm (0.5529 in)
Piston pin outside diameter	13.995 – 14.000 mm (0.5510– 0.5512 in)	13.975 mm (0.5502 in)
<b>Piston rings</b>		
<b>Top ring</b>		
Ring type	Barrel	----
Dimensions (B × T) 	0.80 × 1.90 mm (0.03 × 0.07 in)	----
End gap (installed)	0.10 – 0.25 mm (0.0098 in) (0.00-0.01 in)	0.40 mm (0.0157 in)
Ring side clearance (installed)	0.030 – 0.065 mm (0.0012-0.0026 in)	0.10 mm (0.0039 in)
<b>2nd ring</b>		
Ring type	Taper	----
Dimensions (B × T) 	0.80 × 2.15 mm (0.03 × 0.08 in)	----
End gap (installed)	0.10 – 0.25 mm (0.0098 in) (0.00-0.01 in)	0.40 mm (0.0157 in)
Ring side clearance	0.020 – 0.055 mm (0.0008-0.0022 in)	0.10 mm (0.0039 in)
<b>Oil ring</b>		
Dimensions (B × T) 	1.50 × 1.95 mm (0.06 × 0.08 in)	----
End gap (installed of oil ring rails)	0.20 – 0.70 mm (0.01 – 0.03 in)	----



Item	Standard	Limit
<p><b>Crankshaft</b></p>  <p>Crank width "A" Max. runout limit "C"</p> <p>Big end side clearance "D" Big end radial clearance "E"</p>	<p>45.95 – 46.00 mm (1.81-1.81 in) ----</p> <p>0.11 – 0.41 mm (0.0403 – 0.016 in) 0.004 – 0.014 mm (0.10 – 0.11 in)</p>	<p>---- 0.03 mm (0.0012 in)</p> <p>---- ----</p>
<p><b>Clutch</b></p> <p>Friction plate #1 Thickness</p> <p>Plate quantity</p> <p>Friction plate #2 Thickness</p> <p>Plate quantity</p> <p>Clutch plates Thickness Plate quantity Max. warp</p> <p>Clutch springs Free length</p> <p>Spring quantity</p> <p>Clutch release method</p> <p>Clutch shoe thickness</p> <p>Clutch shoe groove depth</p> <p>Clutch housing inside diameter</p> <p>Weight outside diameter</p> <p>Clutch - in revolution</p> <p>Clutch - stall revolution</p> <p>Push rod bending limit</p>	<p>2.5 – 2.7 mm (0.10 – 0.11 in) 3</p> <p>2.5 – 2.7 mm (0.10 – 0.11 in) 1</p> <p>1.59 – 1.68 mm (0.06-0.07 in) 3 ----</p> <p>40.5 mm (1.60 in)</p> <p>4 Inner push, cam push 2.0 mm (0.08 in) 1.0 mm (0.04 in)</p> <p>116 mm (4.57 in)</p> <p>116 mm (4.57 in)</p> <p>1,750 – 2,150 r/min 2,930 – 3,430 r/min ----</p>	<p>2.4 mm (0.09 in) ----</p> <p>2.4 mm (0.09 in) ----</p> <p>0.05 mm (0.0020 in)</p> <p>38.5 mm (1.52 in) ----</p> <p>---- ---- 0.1 mm (0.0039 in)</p> <p>117 mm (4.6063 in) 115 mm (4.5276 in)</p> <p>---- ---- 0.5 mm (0.02 in)</p>
<p><b>Transmission</b></p> <p>Main axle runout limit</p> <p>Drive axle runout limit</p>	<p>---- ----</p>	<p>0.03 mm (0.0012 in) 0.03 mm (0.0012 in)</p>

# Yamaha T135 Service Manual

Product: 2005 Yamaha T135SE/T135S Motorcycle Service Repair Workshop Manual

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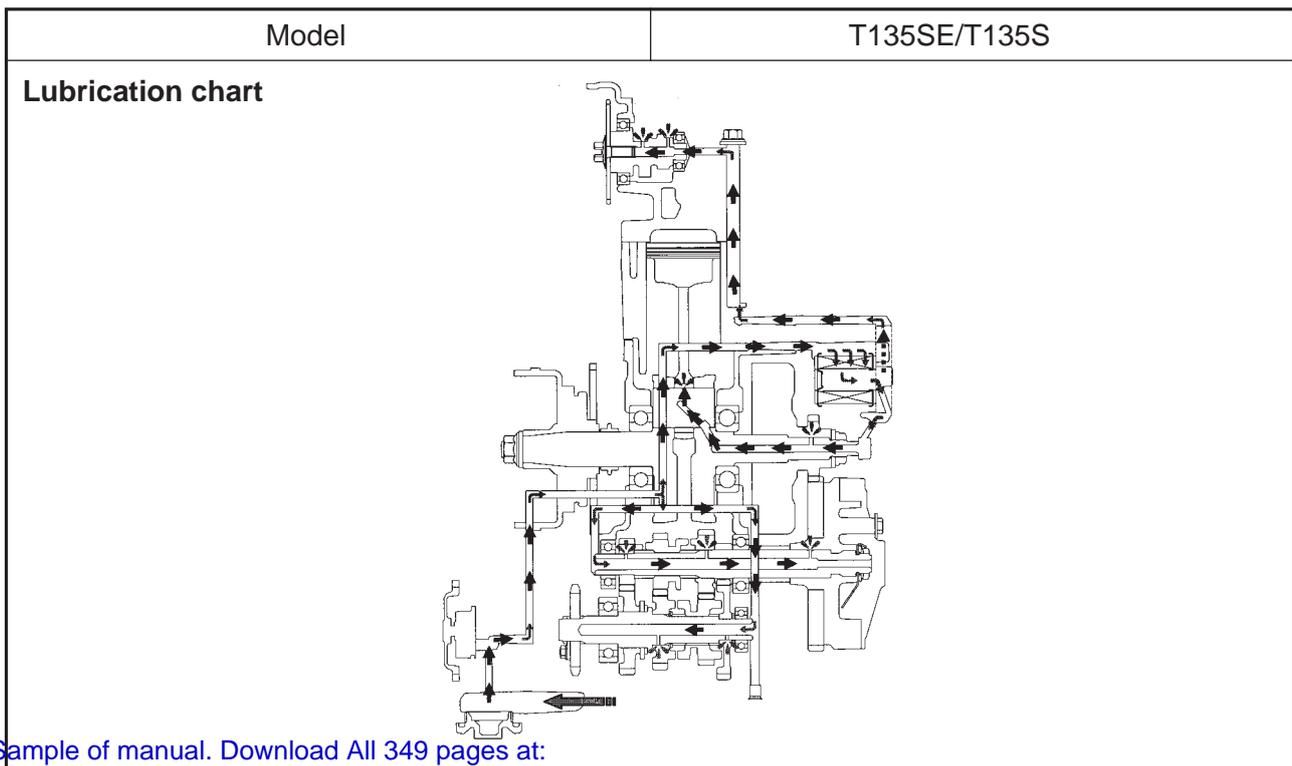
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## MAINTENANCE SPECIFICATIONS

SPEC



Item	Standard	Limit
<b>Kickstarter</b>		
Kickstarter type	Ratchet type	----
Spring free length	15.5 mm (0.61 in)	----
<b>Carburetor</b>		
Type	VM22	----
I.D. mark	5YP1 00	----
Main jet (M.J)	#105	----
Main air jet (M.A.J)	ø1.2	----
Jet needle (J.N)	5 K010	----
Needle jet (N.J)	N-9M	----
Pilot outlet (P.O)	ø1	----
Pilot jet (P.J)	#20	----
Pilot air screw turns out	1-5/8	----
Pilot air jet 1	#55	----
Valve seat size	ø2	----
Throttle valve size	#2.0	----
Float height	9.2 mm (0.3622 in)	----
<b>Oil pump</b>		
Oil pump type	Trochoid type	----
Inner-rotor-to-outer-rotor-tip clearance	0.15 mm (0.0059 in)	0.20 mm (0.0079 in)
Outer-rotor-to-oil-pump housing clearance	0.06 – 0.11 mm (0.0024 – 0.0043 in)	0.15 mm (0.0059 in)
Oil-pump-housing-to-inner-rotor-and-outer-rotor clearance	0.06 – 0.11 mm (0.0024 – 0.0043 in)	0.15 mm (0.0059 in)



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