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YAMAHA

DT175D '92

3FJ-ME1

SERVICE MANUAL

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**DT175D
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 motorcycle 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.

PARTICULARLY IMPORTANT INFORMATION

This material is distinguished by the following notation.



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 motorcycle operator, a bystander, or a person inspecting or repairing the motorcycle.

CAUTION:

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

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 an 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 asterisks "*" 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 data 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.

①

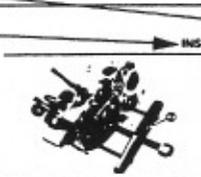
②

③

④

⑤

INSPECTION AND REPAIR ENG



2. Remove:
• Crankshaft: ①
Use the crankcase separating tool ①.

 Crankcase separating tool YU-0135B

INSPECTION AND REPAIR CYLINDER HEAD

1. Remove:
• Carbon deposits
Use a rounded scraper.

NOTE:
Take care to avoid damaging the spark plug threads. Do not use a sharp instrument. Avoid scratching the aluminum.

2. Measure:
• Cylinder head warpage
Out of specification → Resurface

 Warpage gauge: 0.02 mm (0.001 in)

Warpage measurement and resurfacing step:

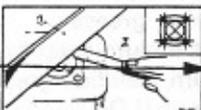
① Attach a straight edge ① and a thickness gauge ② on the cylinder head.

② Measure the warpage.

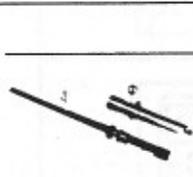
③ If the warpage is out of specification, resurface the cylinder head.

④ Pass a 400 ~ 800 grit wet sandpaper on the surface plate, and resurface the head using a figure-eight sanding pattern.

NOTE:
Rotate the head several times to avoid removing too much material from one side.




FRONT FORK CHAS



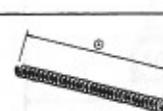
INSPECTION

1. Inspect:
• Lower fork tube ①
• Upper fork tube ②
Scratches/Bends/Damage → Replace

WARNING
Do not attempt to straighten a bent lower fork tube as this may dangerously weaken the tube.

2. Inspect:
• Dust seal
• Grease seal
Scratches/Damage → Replace

3. Measure:
• Fork spring free length ③
Out of specification → Replace

 Fork spring free length:
410.5 mm (16.5 in)
Minimum free length:
410 mm (16.1 in)

4. Install:
• Drive chain
• Adjust drive chain
• Clip drive chain

WARNING
Make sure that the clip ④ is installed in the correct direction. Otherwise, the drive chain will be saggy.

 Chain clip
④ Yamaha chain clip or equivalent

- ⑥
- ⑨
- ⑦
- ⑧

ILLUSTRATED SYMBOLS (Refer to the illustration)

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

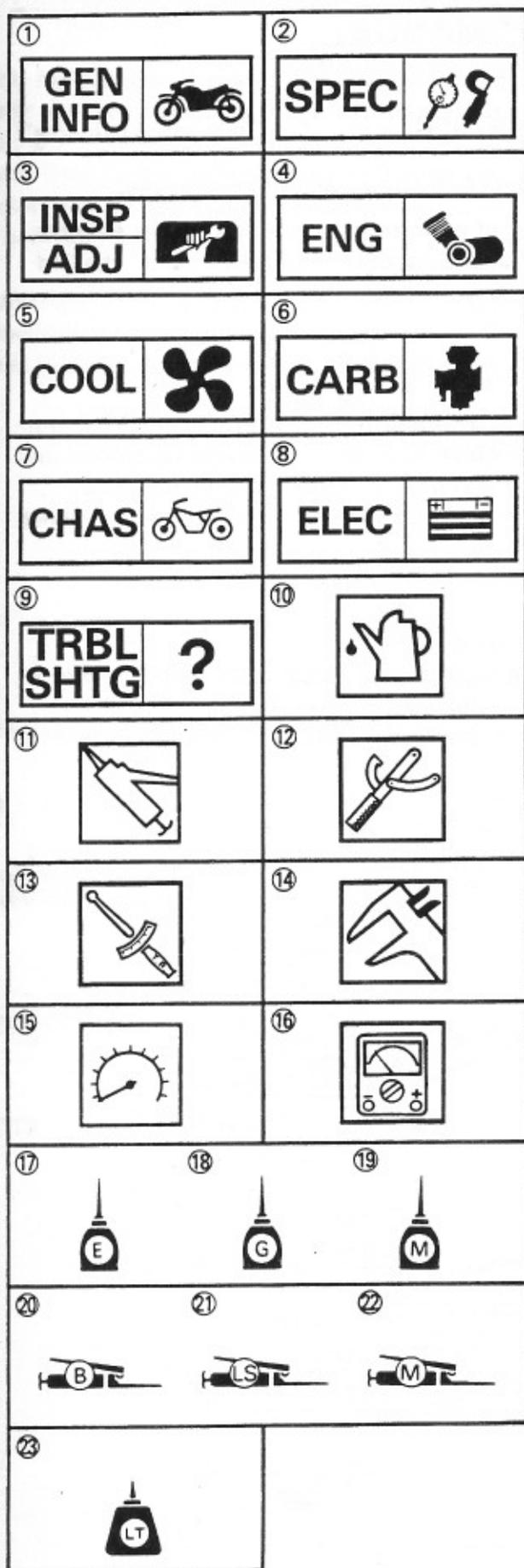
- ① General information
- ② Specifications
- ③ Periodic inspection and adjustment
- ④ Engine
- ⑤ Cooling system
- ⑥ Carburetion
- ⑦ Chassis
- ⑧ Electrical
- ⑨ Troubleshooting

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

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

Illustrated symbols ⑰ to ⑳ 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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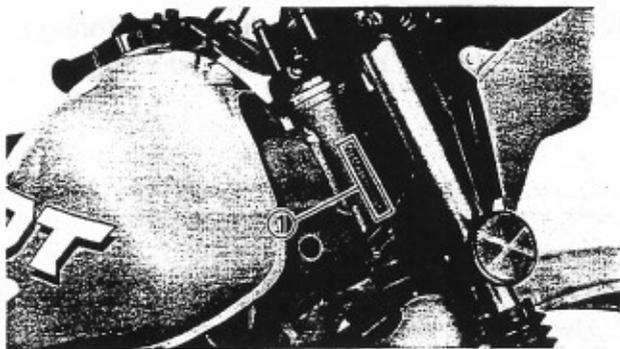
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CHAPTER 1. GENERAL INFORMATION

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GENERAL INFORMATION


**MOTORCYCLE IDENTIFICATION
VEHICLE IDENTIFICATION NUMBER**
(For AUS)

The vehicle identification number ① is stamped into the steering head pipe.

Starting serial number:
JYA1EJT0*NA028101

NOTE:

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

FRAME SERIAL NUMBER (Except for AUS)

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

Starting serial number:
1EJ-028101

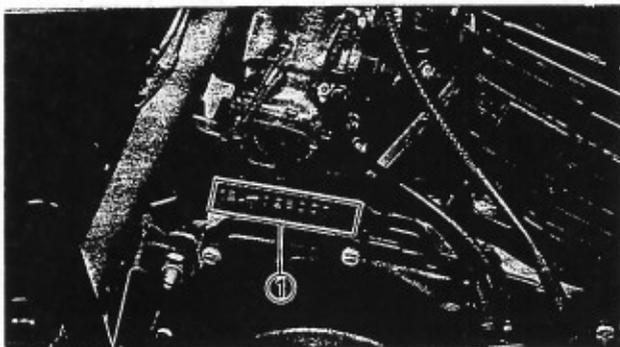
ENGINE SERIAL NUMBER

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

Starting serial number:
1EJ-028101

NOTE:

- The first three digits of these numbers are for model identification; the remaining digits are the unit production number.
- Designs and specifications are subject to change without notice.

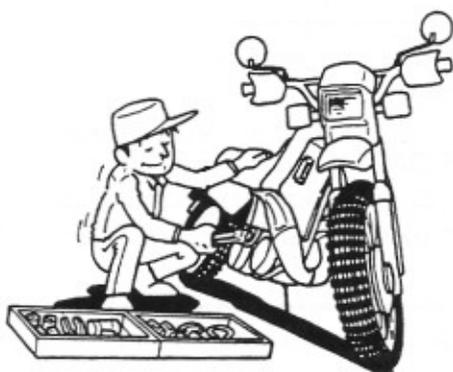




**IMPORTANT INFORMATION
PREPARATION FOR REMOVAL**

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

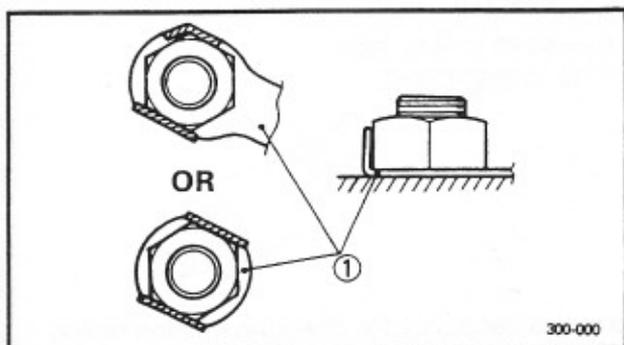
1. Use only genuine Yamaha parts for all replacements. Use oil and/or grease recommended by Yamaha for assembly and adjustment. Other brands may be similar in function and appearance, but inferior in quality.

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.

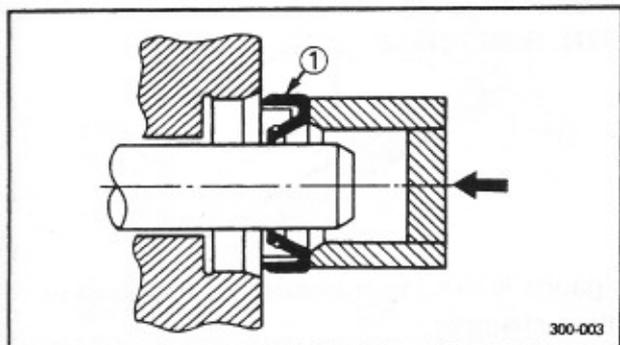
LOCK WASHERS/PLATES AND COTTER PINS

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

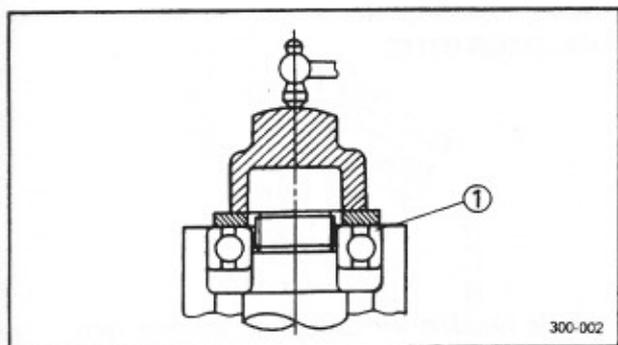
1. Install the bearing(s) and oil seal(s) with their manufacturer's marks or numbers facing outward. (In other words, the stamped letters must be on the side exposed to view.) When installing oil seal(s), apply a light coating of light-weight lithium base grease to the seal lip(s). Oil the bearings liberally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



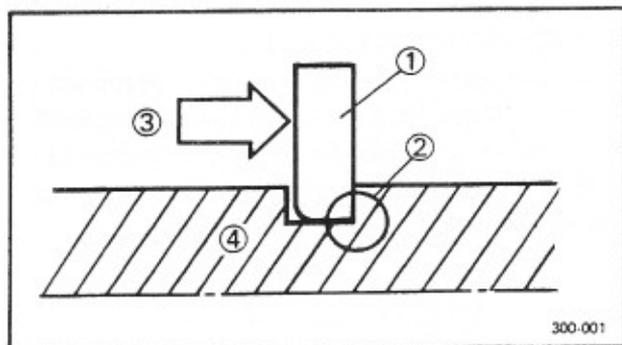
① Oil seal

CAUTION: _____

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



① Bearing

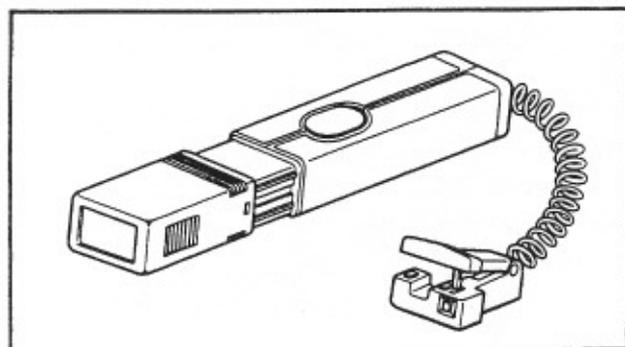
**CIRCLIPS**

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

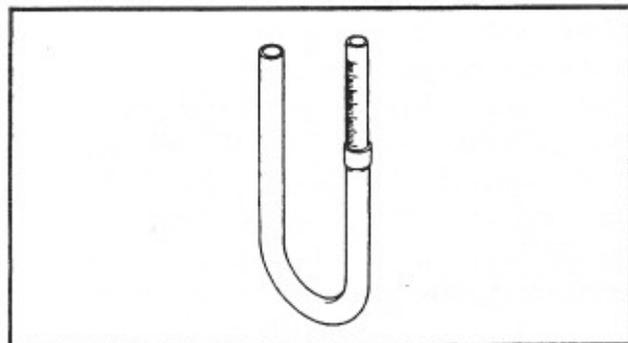
SPECIAL TOOLS

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**

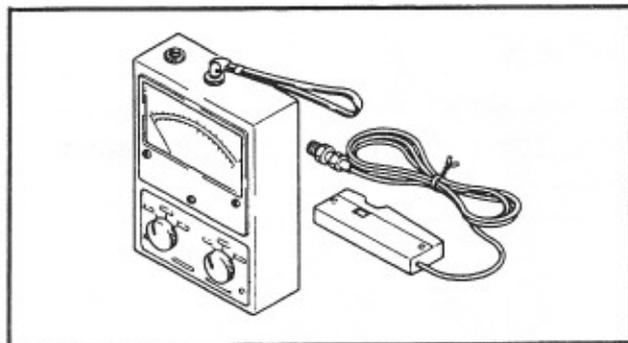
1. Inductive timing light
P/N. 90890-03141

This tool is necessary for checking ignition timing.



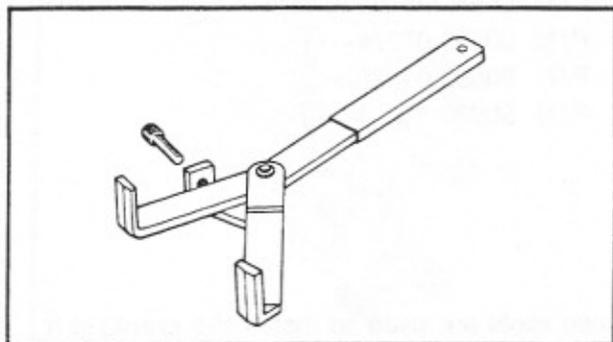
2. Fuel level gauge
P/N. 90890-01312

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



3. Inductive tachometer
P/N. 90890-03113

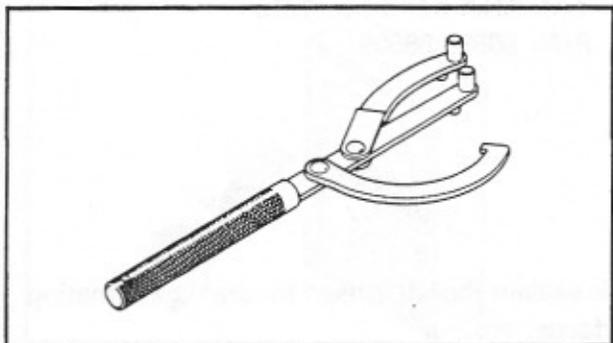
This tool is needed for detecting engine rpm.



FOR ENGINE SERVICE

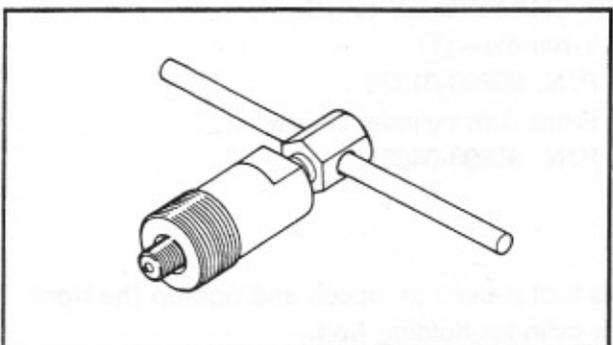
1. Universal clutch holder
P/N. 90890-04086

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



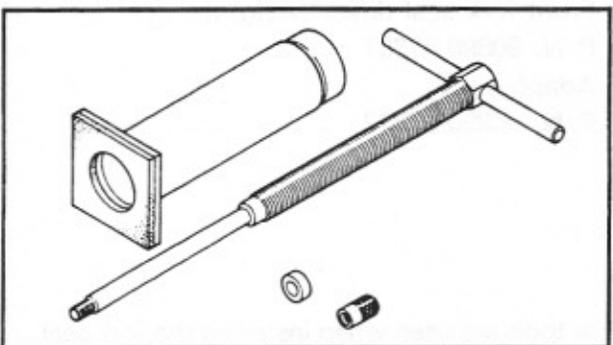
2. Universal rotor holder
P/N. 90890-01235

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



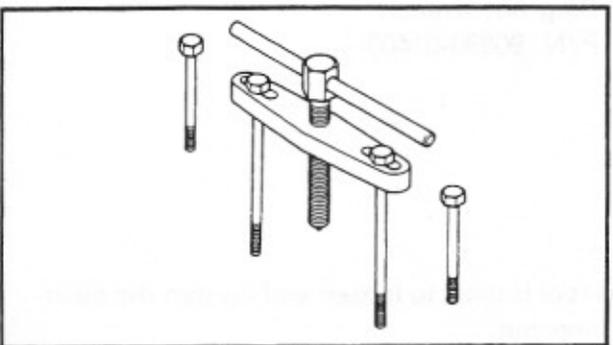
3. Flywheel puller
P/N. 90890-01189

This tool is used for removing the flywheel.



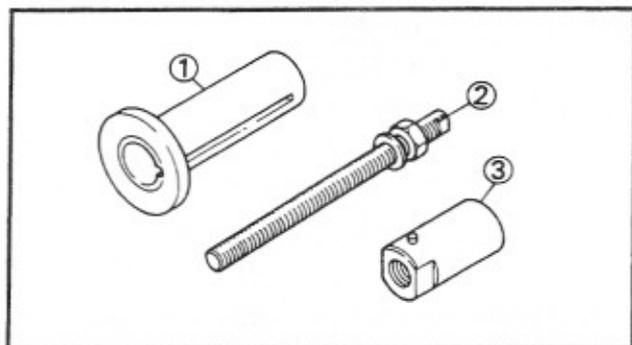
4. Piston pin puller
P/N. 90890-01304

This tool is used to remove the piston pin.



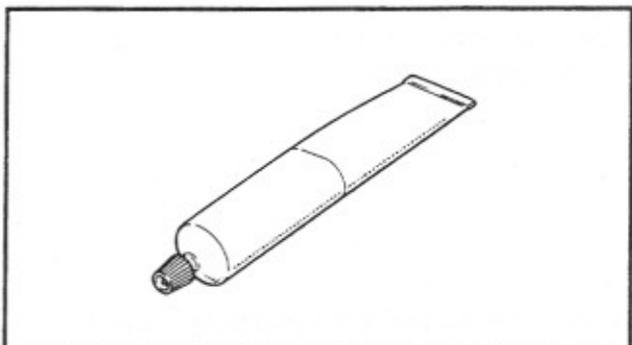
5. Crankcase separating tool
P/N. 90890-01135

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



6. Crankshaft installing tool
 P/N. 90890-01274—①
 P/N. 90890-01275—②
 P/N. 90890-01278—③

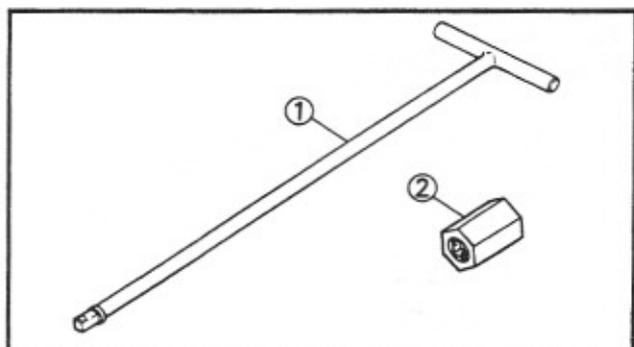
These tools are used to install the crankshaft.



7. YAMAHA bond No. 1215
 P/N. 90890-85505

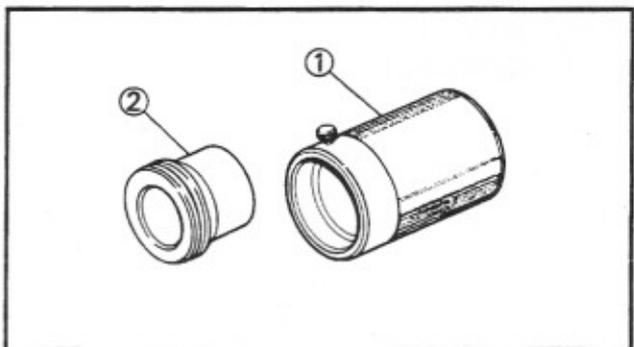
This sealant (bond) is used for crankcase mating surfaces, etc.

FOR CHASSIS SERVICE



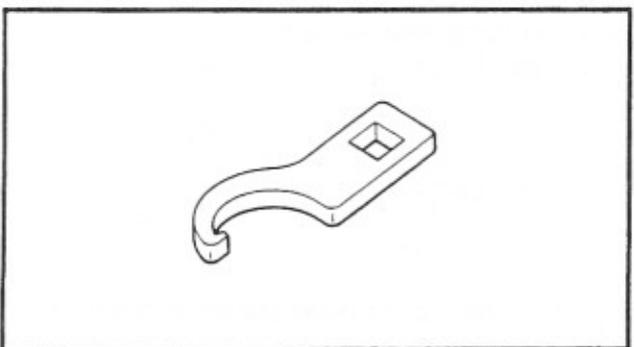
1. T-handle—①
 P/N. 90890-01326
 Front fork cylinder holder—②
 P/N. 90890-04084

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. 90890-01372

These tools are used when installing the fork seal.

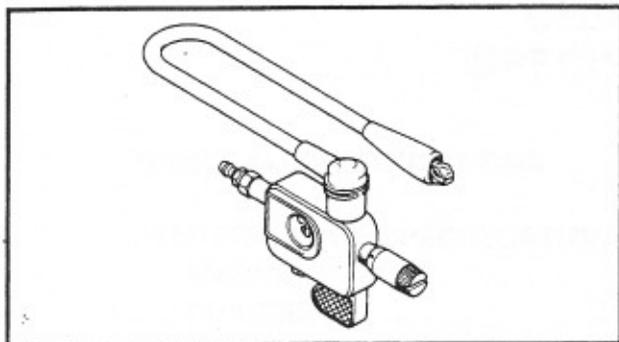


3. Ring nut wrench
 P/N. 90890-01403

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

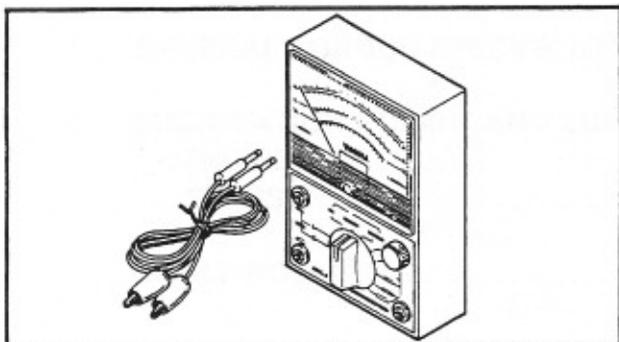
FOR ELECTRICAL COMPONENTS

1. Ignition checker
P/N. 90890-06754



This instrument is necessary for checking the ignition system components.

2. Pocket tester
P/N. 90890-03112



This tester is invaluable for checking the electrical system.



CHAPTER 2. SPECIFICATIONS

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SPECIFICATIONS

GENERAL SPECIFICATIONS

Model	DT175D
Model code number	3FJ5
Vehicle identification number (For AUS)	JYA1EJT0*NA028101
Frame serial number (Except for AUS)	1EJ-028101
Engine starting number	1EJ-028101
Dimensions:	
Overall length	2,110 mm (83.1 in)
Overall width	865 mm (34.1 in)
Overall height	1,165 mm (45.9 in)
Seat height	830 mm (32.7 in)
Wheel base	1,340 mm (52.8 in)
Minimum ground clearance	260 mm (10.2 in)
Basic weight:	
With oil and full fuel tank	107 kg (236 lb)
Minimum turning radius:	2,100 mm (82.7 in)
Engine:	
Engine type	Air cooled 2-stroke, regular gasoline
Induction system	Reed valve
Cylinder arrangement	Single cylinder, forward inclined
Displacement	171 cm ³
Bore × stroke	66.0 × 50.0 mm (2.60 × 1.97 in)
Compression ratio	6.7 : 1
Starting system	Kick starter
Lubrication system	Separate lubrication (Yamaha Autolube)
Engine oil:	
Type	Air-cooled 2-stroke engine oil
Capacity	0.90 L (0.79 Imp qt, 0.95 US qt)
Transmission oil:	
Type	SAE 10W/30 type SE motor oil
Capacity:	
Periodic oil change	0.60 L (0.53 Imp qt, 0.63 US qt)
Total amount	0.65 L (0.57 Imp qt, 0.69 US qt)
Air filter:	
Type	Wet element
Fuel:	
Type	For AUS: Unleaded fuel only Except for AUS: Regular gasoline
Fuel tank capacity:	
Full amount	9.5 L (8.36 Imp gal, 10.04 US gal)
Reserve amount	1.0 L (0.88 Imp gal, 1.06 US gal)



Model	DT175D	
Carburetor: Type/Quantity Manufacturer	VM26SS/1 pc. MIKUNI	
Spark plug: Type/Quantity Manufacturer Plug gap	B8ES/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: 1st 2nd 3rd 4th 5th 6th	Constant mesh 6-speed Helical gear 71/22 (3.227) Chain drive 49/16 (3.062) Left foot operation 35/11 (3.181) 29/15 (1.933) 26/19 (1.368) 24/22 (1.090) 22/23 (0.956) 21/25 (0.840)	
Chassis: Frame type Caster angle Trail	Semi double cradle 29.66° 123 mm (4.84 in)	
Tire: Type Size: Front Rear	With tube 2.75-21 4PR 4.10-18 4PR	
Maximum load*:	213 kg (470 lb)	
Cold tire pressure: Up to 90 kg (198 lb) load* 90 kg (198 lb) ~ Maximum load* Off-road riding	Front	Rear
	150 kPa (1.5 kg/cm ² , 21 psi)	200 kPa (2.0 kg/cm ² , 29 psi)
	150 kPa (1.5 kg/cm ² , 21 psi)	230 kPa (2.3 kg/cm ² , 33 psi)
	150 kPa (1.5 kg/cm ² , 21 psi)	200 kPa (2.0 kg/cm ² , 28.5 psi)

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

GENERAL SPECIFICATIONS

SPEC



A

Model	DT175D
Brake: Front brake type Front brake operation Rear brake type Rear brake operation	Drum brake Right hand operation Drum brake Right foot operation
Suspension: Front suspension type Rear suspension type	Telescopic fork Swingarm (Monocross suspension)
Shock absorber: Front shock absorber Rear shock absorber	Coil spring/Oil damper Coil and gas spring/Oil damper
Wheel travel: Front wheel travel Rear wheel travel	200 mm (7.8 in) 155 mm (6.1 in)
Electrical: Ignition system Generator system	CDI Flywheel magneto
Battery: Type Capacity	GM3-3B 12V 3AH
Headlight: Type	Bulb type
Bulb wattage (Quantity): Headlight Tail/Brake light Flasher light Auxiliary light Meter light "NEUTRAL" indicator light "HIGH BEAM" indicator light "OIL" indicator light "TURN" indicator light	6V 35W/35W 6V 5.3W/25W 6V 17W (4 pcs.) 12V 4W (1 pc.) 12V 3.4W (2 pcs.) 12V 3W (1 pc.) 12V 3W (1 pc.) 12V 3W (1 pc.) 12V 3W (1 pc.)

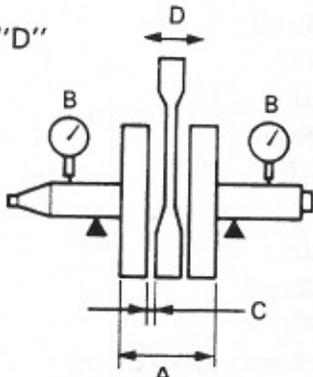


MAINTENANCE SPECIFICATIONS

ENGINE

Model		DT175D
Cylinder head: Warpage limit		0.05 mm (0.002 in) *Lines indicate straightedge measurement.
Cylinder: Bore size Taper limit Out of round limit		66.00 ~ 66.02 mm (2.598 ~ 2.599 in) 0.05 mm (0.002 in) 0.01 mm (0.0004 in)
Piston: Piston size "D" Measuring point "a"		65.94 ~ 66.00 mm (2.596 ~ 2.598 in) 10 mm (0.4 in)
Piston off-set Piston-to-cylinder clearance < Limit > Over size: 1st 2nd		0 mm (0 in) 0.040 ~ 0.045 mm (0.0016 ~ 0.0018 in) < 0.1 mm (0.004 in) > 66.25 mm (2.61 in) 66.5 mm (2.62 in)
Piston ring: Sectional sketch	Top ring 2nd ring 	Keystone type B = 1.2 mm (0.047 in) T = 2.4 mm (0.095 in) Plain type B = 1.2 mm (0.047 in) T = 2.4 mm (0.095 in)
End gap (Installed)	Top ring 2nd ring	0.30 ~ 0.50 mm (0.012 ~ 0.020 in) 0.30 ~ 0.50 mm (0.012 ~ 0.020 in)
Side clearance	Top ring 2nd ring	0.030 ~ 0.050 mm (0.0012 ~ 0.0020 in) 0.030 ~ 0.050 mm (0.0012 ~ 0.0020 in)



Model	DT175D
<p>Crankshaft:</p> <p>Crank width "A"</p> <p>Runout limit "B"</p> <p>Big end side clearance "C"</p> <p>< Limit ></p> <p>Small end free play "D"</p> 	<p>55.90 ~ 55.95 mm (2.201 ~ 2.203 in)</p> <p>0.02 mm (0.0008 in)</p> <p>0.20 ~ 0.70 mm (0.008 ~ 0.028 in)</p> <p>< 1.0 mm (0.040 in) ></p> <p>0.8 ~ 1.2 mm (0.031 ~ 0.047 in)</p>
<p>Clutch:</p> <p>Friction plate:</p> <p>Thickness</p> <p>Quantity</p> <p>Wear limit</p> <p>Clutch plate:</p> <p>Thickness</p> <p>Quantity</p> <p>Warping limit</p> <p>Clutch spring:</p> <p>Free length</p> <p>Quantity</p> <p>Minimum free length</p> <p>Clutch release method</p> <p>Push rod bending limit</p>	<p>2.9 ~ 3.1 mm (0.114 ~ 0.122 in)</p> <p>7 pcs.</p> <p>2.7 mm (0.106 in)</p> <p>1.2 mm (0.047 in)</p> <p>6 pcs.</p> <p>0.05 mm (0.002 in)</p> <p>34.5 mm (1.358 in)</p> <p>4 pcs.</p> <p>33.5 mm (1.319 in)</p> <p>Inner push, cam push</p> <p>0.5 mm (0.020 in)</p>
<p>Transmission:</p> <p>Main axle runout limit</p> <p>Drive axle runout limit</p>	<p>0.08 mm (0.003 in)</p> <p>0.08 mm (0.003 in)</p>
<p>Shifter:</p> <p>Type</p>	<p>Guide bar</p>
<p>Kick starter:</p> <p>Type</p>	<p>Kick and mesh type</p>
<p>Air filter:</p> <p>Oil grade</p>	<p>Foam-air-filter oil or air cooled 2 stroke engine oil</p>



Model	DT175D
Carburetor: 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) Valve seat size (V.S.) Starter jet (G.S.) Power jet (PW.J.) Fuel level (F.L.) Float height (F.H.) Idling speed	18L00 #170 ϕ 0.5 4L6-3 O-8 1.5 ϕ 0.6 #20 1-1/2 ϕ 1.4 ϕ 2.5 #20 #40 0 ~ 1 mm (0 ~ 0.04 in) 20 ~ 22 mm (0.79 ~ 0.87 in) 1,300 ~ 1,400 r/min
Reed valve: Valve thickness Valve stopper height Valve bending limit	0.2 mm (0.008 in) 4.7 ~ 5.1 mm (0.185 ~ 0.201 in) 0.5 mm (0.02 in)
Lubrication system: Autolube pump: Color code Minimum stroke Maximum stroke Minimum output Maximum output Pulley adjusting mark	Black 0.30 ~ 0.35 mm (0.012 ~ 0.014 in) 1.85 ~ 2.05 mm (0.073 ~ 0.081 in) 0.38 ~ 0.44 cm ³ 2.33 ~ 2.58 cm ³ At idle <input type="checkbox"/>

MAINTENANCE SPECIFICATIONS

SPEC



Tightening torque:							Remarks
Parts to be tightened	Part name	Q'ty	Thread size	Tightening torque			
				Nm	m•kg	ft•lb	
Spark plug		1	M14×1.25	25	2.5	18	
Cylinder head	Nut	6	M 8×1.25	25	2.5	18	
Cylinder	Stud bolt	4	M10×1.25	15	1.5	11	
	Nut	4	M10×1.25	35	3.5	25	
Oil pump	Panhead screw	2	M 5×0.8	8	0.8	5.8	
Reed valve	Panhead screw	4	M 3×0.5	1	0.1	0.7	
Carburetor joint	Bolt	4	M 6×1.0	8	0.8	5.8	
Exhaust pipe							
exhaust pipe	Nut	2	M 6×1.0	11	1.1	8	
cylinder	Stud bolt	2	M 6×1.0	0.5	0.05	0.36	
stay	Bolt	1	M 6×1.0	10	1	7.2	
frame mount	Bolt	1	M 6×1.0	10	1	7.2	
Transmission oil drain	Bolt	1	M12×1.5	20	2.0	14	
Crankcase cover (left)	Screw	6	M 6×1.0	10	1.0	7.2	
Crankcase cover (right)	Screw	9	M 6×1.0	10	1.0	7.2	
Oil pump cover	Screw	3	M 6×1.0	8	0.8	5.8	
Crankcase	Screw	12	M 6×1.0	8	0.8	5.8	
Kick crank boss	Bolt	1	M 8×1.25	23	2.3	17	
Oil seal retainer	Screw	1	M 8×1.25	10	1.0	7.2	
Primary drive gear	Nut	1	M12×1.0	60	6.0	43	
Clutch boss	Nut	1	M14×1.0	40	4.0	29	
Clutch spring	Bolt	4	M 5×0.8	6	0.6	4.3	
Clutch lever stopper	Bolt	1	M 8×1.25	10	1.0	7.2	
Clutch free play adjusting	Nut	1	M 6×1.0	8	0.8	5.8	
Plate bearing cover	Screw	2	M 6×1.0	10	1.0	7.2	
Plate cover	Bolt	2	M 6×1.0	10	1.0	7.2	
Drive sprocket	Nut	1	M16×1.0	55	5.5	40	
Tachometer housing	Screw	1	M 6×1.0	8	0.8	5.8	
Shifter stopper lever	Bolt	1	M 6×1.0	10	1.0	7.2	
Shifter adjusting nut	Nut	1	M 8×1.25	30	3.0	22	
Shift pedal	Bolt	1	M 6×1.0	11	1.1	8.0	
Neutral switch		1	M10×1.25	5	0.5	3.6	
CDI (CDI magneto)	Nut	1	M12×1.25	70	7.0	50	
Stator magneto	Screw	2	M 6×1.0	8	0.8	5.8	



CHASSIS

Model	DT175D
Steering system: Bearing type Bearing size (Quantity): Upper Lower	Ball bearing 3/16 in (22 pcs.) 1/4 in (19 pcs.)
Front suspension: Front fork travel Fork spring free length < Limit > Spring rate (K ₁) Stroke (K ₁) Optional spring Oil capacity Oil level Oil grade	200 mm (7.87 in) 428.5 mm (16.87 in) < 423 mm (16.65 in) > 6.0 N/mm (0.6 kg/mm, 4.3 lb/in) 0~200 mm (0~7.87 in) No. 254 cm ³ (8.94 Imp oz, 8.59 US oz) 467 mm (18.39 in) From top of inner tube fully extended without spring. Fork oil 10W or equivalent
Rear suspension: Shock absorber travel Spring free length < Limit > Fitting length Spring rate (K ₁) Stroke (K ₁) Optional spring Enclosed gas pressure	84 mm (3.31 in) 258 mm (10.16 in) < 256 mm (10.08 in) > 230 mm (9.06 in) 36.5 N/mm (3.65 kg/mm, 25 lb/in) 0~84 mm (0~0.14 in) No. 1176.8 kPa (12 kg/cm ² , 171 psi)
Swingarm: Free play limit (swingarm end)	1.0 mm (0.04 in) Move swingarm end side to side
Front wheel: Type Rim size Rim material Rim runout limit: Vertical Lateral	Spoke wheel 1.60 × 21 Steel 2.0 mm (0.08 in) 2.0 mm (0.08 in)
Rear wheel: Type Rim size Rim material Rim runout limit: Vertical Lateral	Spoke wheel 1.85 × 18 Steel 2.0 mm (0.08 in) 2.0 mm (0.08 in)



Tightening torque:					Remarks
Parts to be tightened	Thread size	Tightening torque			
		Nm	m•kg	ft•lb	
Handle crown and inner tube	M10×1.25	34	3.4	24	See "NOTE".
Handle crown and steering shaft (upper)	M14×1.25	54	5.4	39	
Handle crown and steering shaft (side)	M 8×1.25	23	2.3	17	
Handlebar holder	M 8×1.25	15	1.5	11	
Steering shaft and locknut	M25×1.0	6	0.6	4.3	
Handle crown pinch bolt	M 8×1.25	23	2.3	17	
Engine stay (front) and frame	M 8×1.25	32	3.2	23	
Engine and frame (rear upper)	M 8×1.25	32	3.2	23	
Engine and frame (rear lower)	M10×1.25	39	3.9	28	
Pivot shaft and frame	M12×1.25	53	5.3	38	
Rear shock absorber and frame	M10×1.25	32	3.2	23	
Chain guide	M 6×1.0	7	0.7	5.1	
Chain cover	M 6×1.0	4	0.4	2.9	
Fuel tank	M 6×1.0	5	0.5	3.6	
Seat bracket	M 8×1.25	15	1.5	11	
Front wheel axle	M10×1.25	39	3.9	28	
Rear wheel axle and nut	M14×1.5	85	8.5	61	
Camshaft lever bolt	M 6×1.0	8	0.8	5.8	
Wheel sprocket and hub	M10×1.25	39	3.9	25	
Sidestand	M10×1.25	40	4.0	29	
Sidestand switch	M 5×0.8	4	0.4	2.9	
Cap bolt	M30×1.0	23	2.3	17	
Damper rod (bolt)	M10×1.0	23	2.3	17	

NOTE:

1. First, tighten the ring nut approximately 38 Nm (3.8 m•kg, 27 ft•lb) by using the torque wrench, then loosen the ring nut one turn.
2. Retighten the ring nut to specification.



ELECTRICAL

Model	DT175D
Voltage:	12V
Ignition system: Ignition timing (B.T.D.C.) Advancer type	18° at 3,000 r/min Electrical type
CDI: Magneto model/Manufacturer CDI unit model/Manufacturer Pickup coil resistance (color) Source coil resistance (color)	F4T202/YAMAHA 3BN/YAMAHA 8 ~ 12Ω at 20°C (68°F) (White/Red—White/Green) 270 ~ 330Ω at 20°C (68°F) (Black/Red—Black)
Ignition coil: Model/Manufacturer Minimum spark gap Primary coil resistance Secondary coil Resistance	F06T41174/MITSUBISHI 6 mm (0.24 in) 0.8 ~ 1.2Ω at 20°C (68°F) 4.72 ~ 7.08kΩ at 20°C (68°F)
Spark plug cap: Type Plug cap resistance	Rubber type 5.46 ~ 7.34kΩ at 20°C (68°F)



MAINTENANCE SPECIFICATIONS

SPEC

Model	DT175D																											
Charging system:	Flywheel magneto																											
Flywheel magneto: Model/Manufacturer Charging coil resistance (color) Lighting coil resistance Standard output	F4T202/YAMAHA 0.24 ~ 0.36Ω at 20°C (68°F) (White/Green—Black) 0.14 ~ 0.22Ω at 20°C (68°F) (Yellow—Black) 12V 1.1A at 2,500 r/min When "LIGHT" switch is turned to "OFF".																											
<table border="1"><caption>Graph Data: Output Current (A) vs Engine Speed (x1,000 r/min)</caption><thead><tr><th>Engine Speed (x1,000 r/min)</th><th>Day Output Current (A)</th><th>Night Output Current (A)</th></tr></thead><tbody><tr><td>1</td><td>0.5</td><td>0.5</td></tr><tr><td>2</td><td>1.5</td><td>1.2</td></tr><tr><td>3</td><td>2.5</td><td>1.8</td></tr><tr><td>4</td><td>3.2</td><td>2.2</td></tr><tr><td>5</td><td>3.8</td><td>2.4</td></tr><tr><td>6</td><td>4.2</td><td>2.5</td></tr><tr><td>7</td><td>4.4</td><td>2.5</td></tr><tr><td>8</td><td>4.5</td><td>2.5</td></tr></tbody></table>		Engine Speed (x1,000 r/min)	Day Output Current (A)	Night Output Current (A)	1	0.5	0.5	2	1.5	1.2	3	2.5	1.8	4	3.2	2.2	5	3.8	2.4	6	4.2	2.5	7	4.4	2.5	8	4.5	2.5
Engine Speed (x1,000 r/min)	Day Output Current (A)	Night Output Current (A)																										
1	0.5	0.5																										
2	1.5	1.2																										
3	2.5	1.8																										
4	3.2	2.2																										
5	3.8	2.4																										
6	4.2	2.5																										
7	4.4	2.5																										
8	4.5	2.5																										
Voltage regulator: Type	Semi conductor—short circuit type																											
Rectifier: Model/Manufacturer Capacity	EHU-01TR27/MATSUSHITA 8A																											
Battery: Specific gravity	1.280																											
Horn: Type Quantity Model/Manufacturer Maximum Amperage	Plane type 1 pc. MF-12/NIKKO 1.5A																											

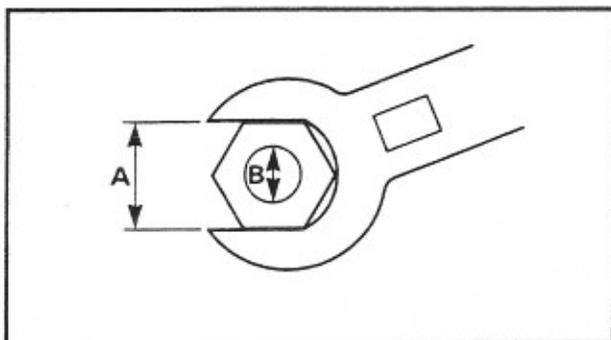


Model	DT175D
Flasher relay: Type Model/Manufacturer Self cancelling device Flasher frequency Wattage	Condenser type FZ249SD/NIPPONDENSO No 75 ~ 95 cycle/min 21W × 2 + 3.4W
Ignition control unit: Model/Manufacturer	F6T/YAMAHA
Oil level switch: Model/Manufacturer	3J0/STANLEY
Circuit breaker: Type	Fuse
Circuit (fuse): "MAIN"	10A (1 pc.)

GENERAL TORQUE SPECIFICATIONS

This chart specifies torque for standard fasteners with standard I.S.O. pitch threads. Torque specifications for special components or assemblies are included in the applicable sections of this book. To avoid warpage, tighten multi-fastener assemblies in a crisscross fashion, in progressive stages, until full torque is reached. Unless otherwise specified, torque specifications call for clean, dry threads. Components should be at room temperature.

A (Nut)	B (Bolt)	General torque specifications		
		Nm	m•kg	ft•lb
10 mm	6 mm	6	0.6	4.3
12 mm	8 mm	15	1.5	11
14 mm	10 mm	30	3.0	22
17 mm	12 mm	55	5.5	40
19 mm	14 mm	85	8.5	61
22 mm	16 mm	130	13.0	94



A: Distance across flats
B: Outside thread diameter



LUBRICATION POINTS AND LUBRICANT TYPE

ENGINE

Lubrication Points (Part name)	Lubricant Type
Oil seal lips (all)	
O-rings (all)	
Bearing retainer Crankshaft bearings (left and center) Needle bearings (connecting rod) Main axle bearings Drive axle bearings Push lever bearing	
Crank pins	
Piston rings, piston pins and pistons	
Warm shaft (Autolube pump)	
Kick idle gear	
Kick axle	
Primary driven gear (clutch housing)	
Push rod	
Push lever axle	
Sliding gear (transmission)	
Free movement gear (transmission)	
Guide bar (shift forks)	
Crankcase mating surfaces	Yamaha bond No. 1215®

LUBRICATION POINTS AND LUBRICANT TYPE

SPEC



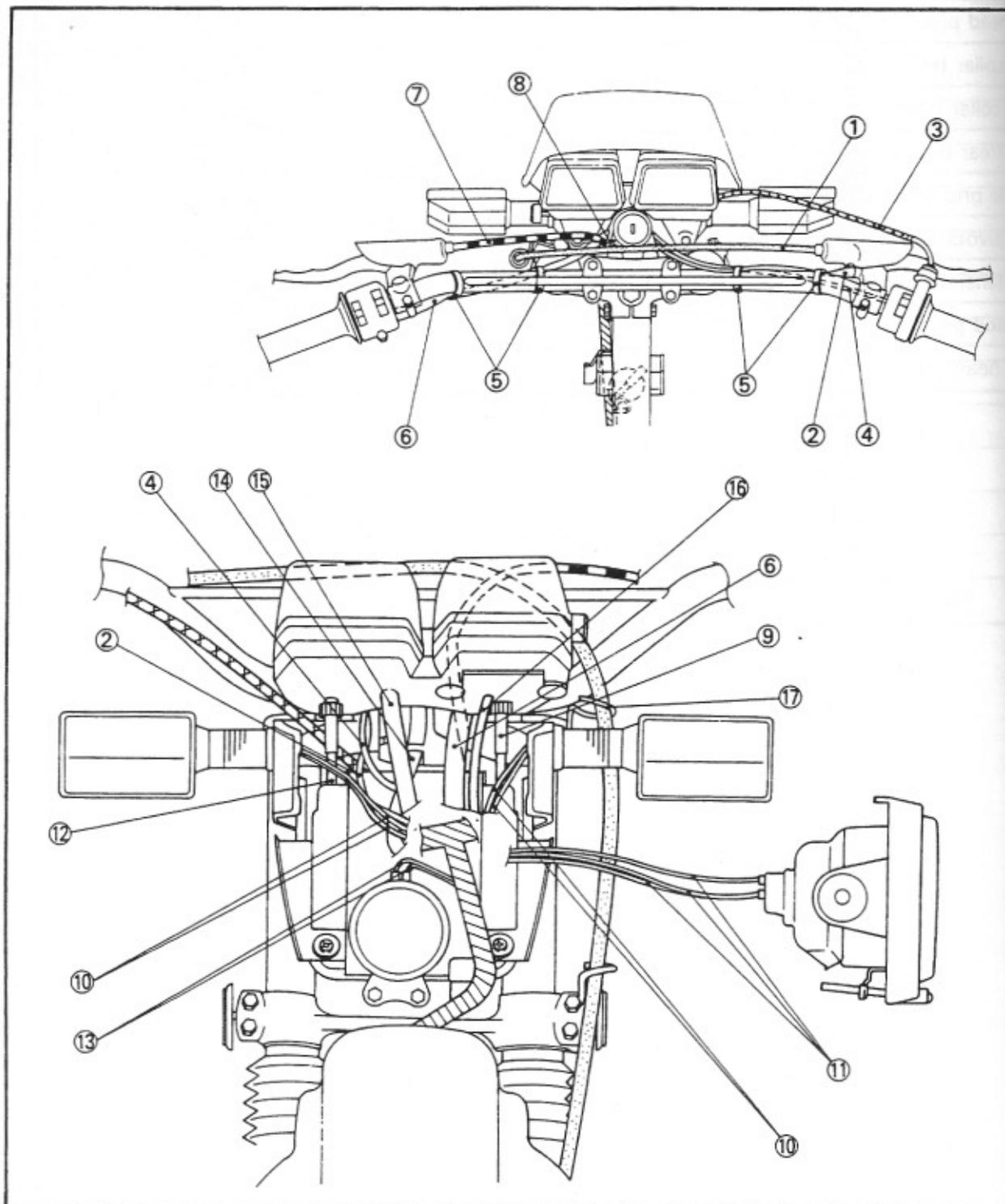
CHASSIS

Lubrication Points (Part name)	Lubricant Type
Ball bearing (steering shaft)	
Oil seal (front wheel)	
Gear (speedometer)	
Camshaft (front and rear brake)	
Oil seal (rear wheel)	
Arm head pipe (rear arm)	
Inner collar (rear arm)	
Outer collar (rear arm)	
Shaft (rear brake pedal)	
Throttle grip inner surface	
Lever pivots and cable end (clutch brake)	
Boss (tensioner arm)	
Sidestand pivot	
Frame head pipe	



CABLE ROUTING

- | | |
|--------------------------------|----------------------------|
| ① Front brake cable | ⑩ Front flasher light lead |
| ② Front brake switch lead | ⑪ Headlight lead |
| ③ Throttle cable | ⑫ Tachometer cable |
| ④ "ENGINE STOP" switch lead | ⑬ Horn lead |
| ⑤ Band | ⑭ Main switch lead |
| ⑥ Handlebar switch (left) lead | ⑮ Tachometer lead |
| ⑦ Clutch cable | ⑯ Speedometer lead |
| ⑧ Cable guide | ⑰ Cable guide |
| ⑨ Speedometer cable | |



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