

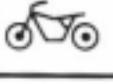
# YAMAHA TZ125G1/(G) 1995

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LIT-11626-09-61 4JT-28199-11

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

## ILLUSTRATED SYMBOLS (Refer to the illustration)

Illustrated symbols ① to ⑦ are designed as thumb tabs to indicate the chapter's number and content.

- ① General information
- ② Specifications
- ③ Regular inspection and adjustment
- ④ Engine
- ⑤ Chassis
- ⑥ Electrical
- ⑦ Tuning

Illustrated symbols ⑧ to ⑭ are used to identify the specifications appearing in the text.

- ⑧ With engine mounted
- ⑨ Special tool
- ⑩ Filling fluid
- ⑪ Lubricant
- ⑫ Tightening
- ⑬ Wear limit, clearance
- ⑭ Resistance ( $\Omega$ ), Voltage (V), Electric current (A)

Illustrated symbols ⑮ to ⑳ in the exploded diagram indicate grade of lubricant and location of lubrication point.

- ⑮ Apply gear oil
- ⑯ Apply engine mixing oil
- ⑰ Apply molybdenum disulfide oil
- ⑱ Apply lightweight lithium-soap base grease
- ⑲ Apply molybdenum disulfide grease
- ⑳ Apply locking agent (LOCTITE®)

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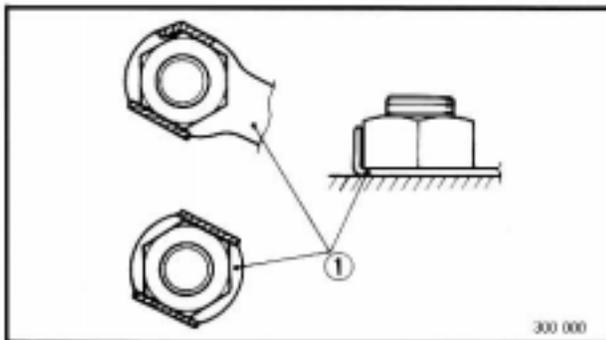


**ALL REPLACEMENT PARTS**

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

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

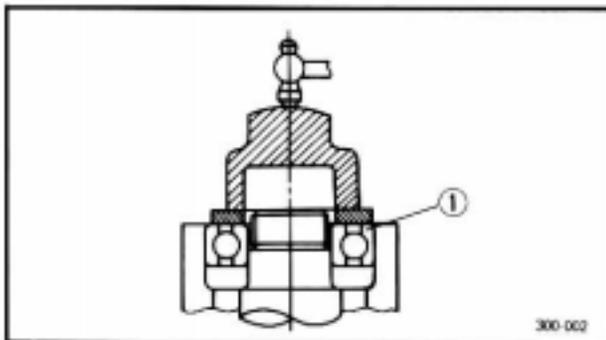
1. All gaskets, oil seals, and O-rings should be replaced when an engine is overhauled. All gasket surfaces, oil seal lips, and O-rings must be cleaned.
2. Properly oil all mating parts and bearings during reassembly. Apply grease to the oil seal lips.



300 000

**LOCK WASHERS, PLATES AND COTTER PINS**

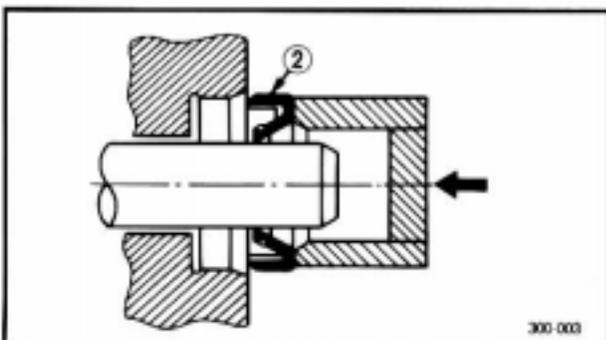
1. All lock washers/plates ① and cotter pins must be replaced when they are removed. Lock tab(s) should be bent along the bolt or nut flat(s) after the bolt or nut has been properly tightened.



300 002

**BEARINGS AND OIL SEALS**

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



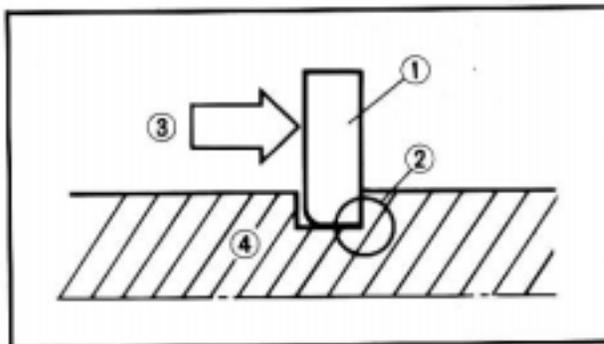
300 003

**CAUTION:**

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



1

**CIRCLIPS**

1. All circlips should be inspected carefully before reassembly. Always replace piston pin clips after one use. Replace distorted circlips. When installing a circlip (1), make sure that the sharp-edged corner (2) is positioned opposite to the thrust (3) it receives. See the sectional view.

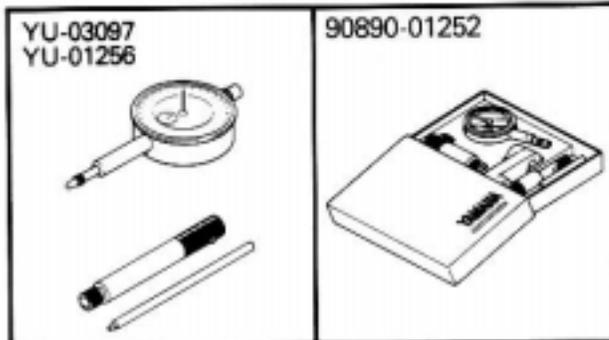
(4) Shaft

**SPECIAL TOOLS**

The following special tools are required to perform maintenance, adjustments, and repairs on your machine. These tools can be obtained through your Yamaha dealer.

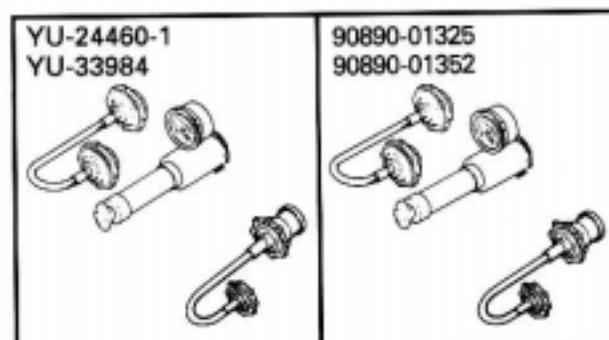
**NOTE:**

- For U.S.A. and Canada, use part number starting with "YM-" or "YU-".
- For others, use part number starting with "90890-".

**FOR TUNE UP**

1. Dial gauge and stand  
P/N. YU-03097, YU-01256  
90890-01252

These tools are used to set the ignition timing.

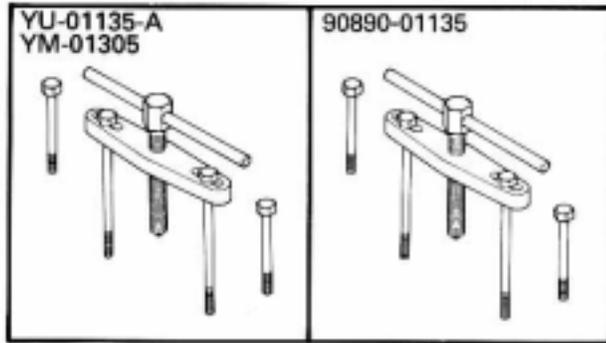
**FOR ENGINE SERVICE**

1. Radiator cap tester and adapter  
Radiator cap tester P/N. YU-24460-1  
90890-01325  
Adapter P/N. YU-33984  
90890-01352

These tools are used for checking the cooling system.

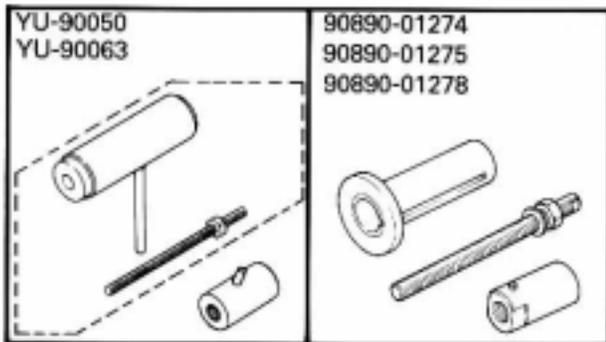


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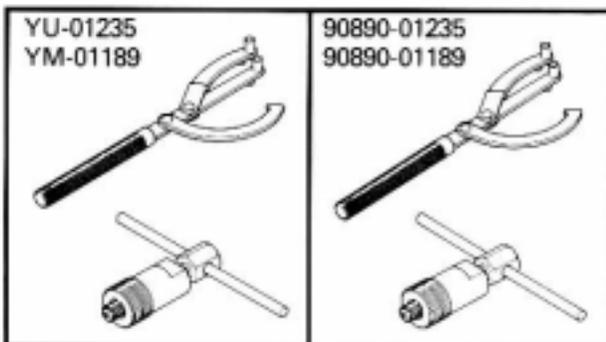
2. Crankcase separating tool  
P/N. YU-01135-A, YM-01305  
90890-01135, 90890-01305

This tool is used to split the crankcases as well as remove the crankshaft from either case.



3. Crankshaft installing tool  
Pot P/N. YU-90050, 90890-01274  
Bolt P/N. YU-90050, 90890-01275  
Adapter P/N. YU-90063, 90890-01278

These tools are used to install the crankshaft.

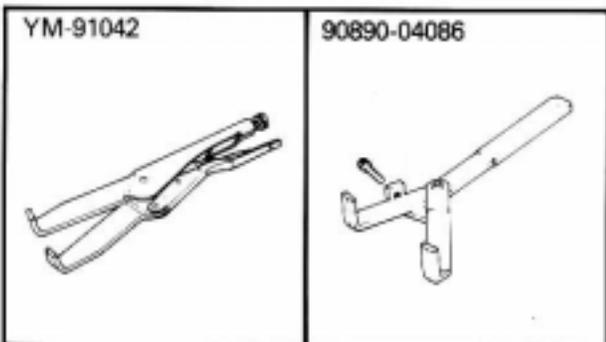


4. Rotor holder and rotor puller  
Holder P/N. YU-01235  
90890-01235

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

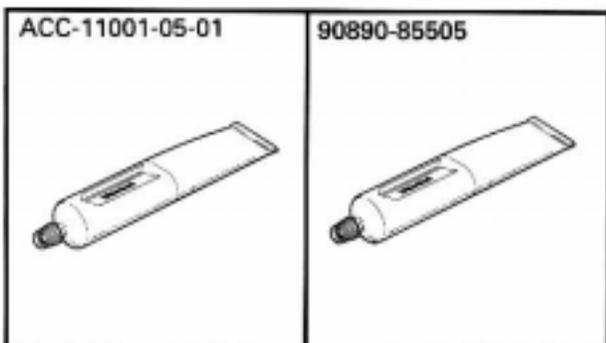
- Puller P/N. YM-01189  
90890-01189

This tool is used to remove the magneto.



5. Clutch holder  
P/N. YM-91042  
90890-04086

This tool is used to hold the clutch when removing or installing the clutch boss securing nut.



6. Quick gasket\*  
P/N. ACC-11001-05-01  
YAMAHA Bond No. 1215  
P/N. 90890-85505

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

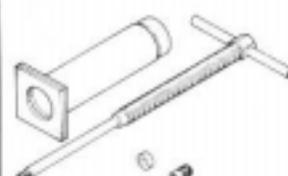


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YU-01304



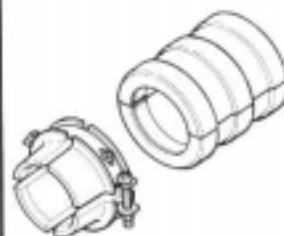
90890-01304



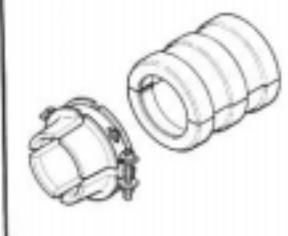
7. Piston pin puller  
P/N. YU-01304  
90890-01304

This tool is used to pull up the piston pin.

YM-01442



90890-01442

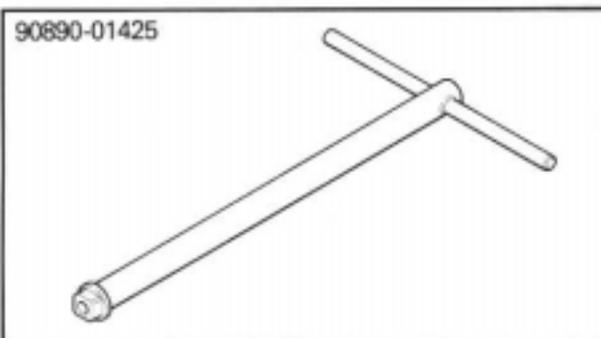


### FOR CHASSIS SERVICE

1. Fork seal driver  
P/N. YM-01442  
90890-01442

This tool is used when install the fork oil seal.

90890-01425



2. Damper rod holder  
P/N. 90890-01425

Use this tool to remove and install the damper rod.

YM-01441



90890-01441



3. Fork spring compressor  
P/N. YM-01441  
90890-01441

This tool is used to compress the fork spring.

YM-01434



90890-01434

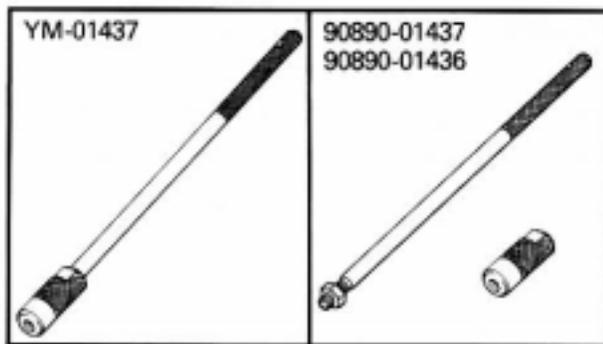


4. Rod holder  
P/N. YM-01434  
90890-01434

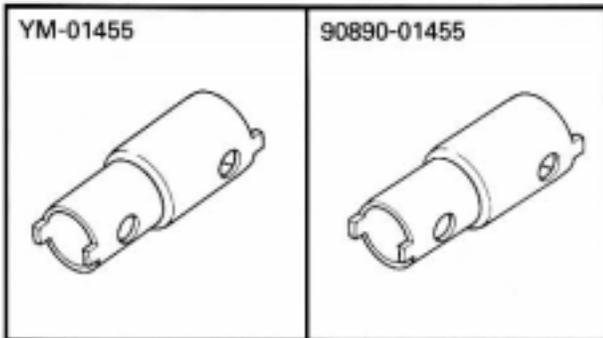
This tool is used to hold the fork spring.



1

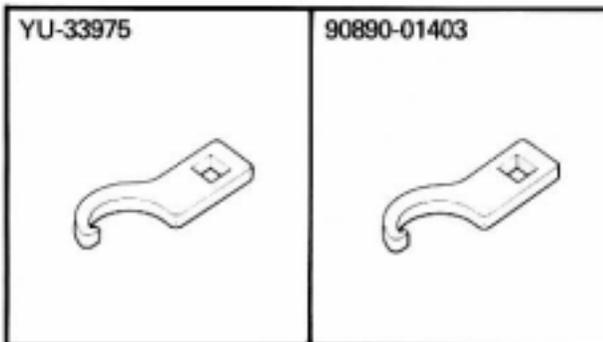


5. Rod puller and rod puller attachment  
 Rod puller P/N. YM-01437  
 90890-01437  
 Rod puller attachment P/N. 90890-01436  
 These tools are used to pull up the fork damper rod.



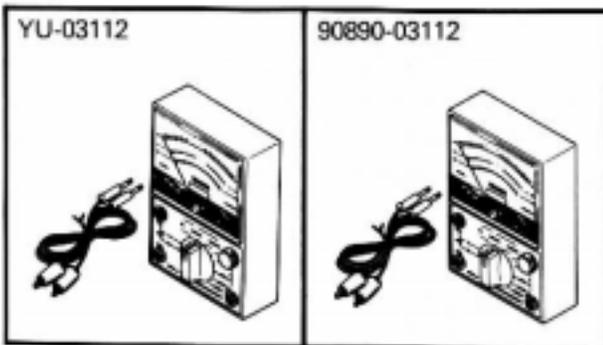
6. Pivot shaft wrench  
 P/N. YM-01455  
 90890-01455

This tool is used to loosen or tighten the pivot adjust bolt.



7. Ring nut wrench  
 P/N. YU-33975  
 90890-01403

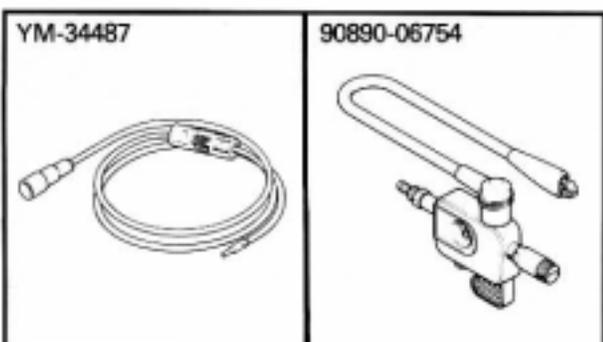
This tool is used when tighten the steering ring nut to specification.



#### FOR ELECTRICAL SERVICE

1. Yamaha pocket tester  
 P/N. YU-03112  
 90890-03112

Use this tool to inspect the coil resistance, output voltage and amperage.



2. Dynamic spark tester  
 P/N. YM-34487  
 Ignition checker  
 P/N. 90890-06754

This instrument is necessary for checking the ignition system components.



**FUEL AND ENGINE MIXING OIL**

Mix oil with the gas at the ratio specified below. Always use fresh, name-brand gasoline, and mix the oil and gas the day of the race. Do not use premix that is more than a few hours old.

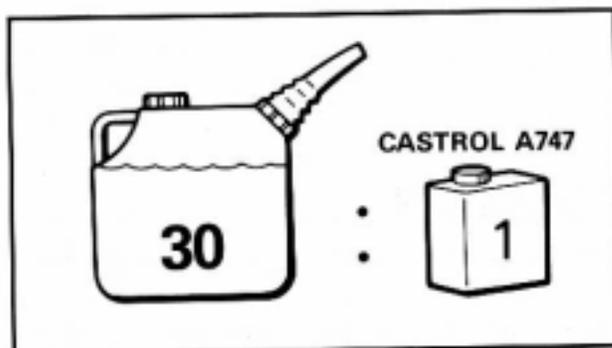
**1**



**Recommended fuel:**  
Premium leaded gasoline with a research octane number of 100 or higher.

**CAUTION:**

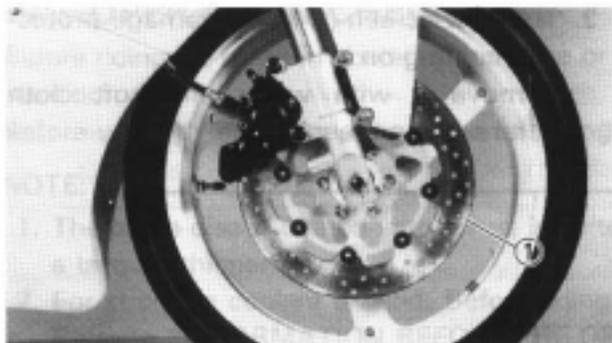
Never mix two types of oil in the same batch; clotting of the oil could result. If you wish to change oil types, be sure to drain the fuel tank and the carburetor float bowl of old premix prior to filling with the new type.



**Fuel tank capacity:**  
13.0 L  
(2.60 Imp gal, 3.43 US gal)



**Mixing oil**  
Recommended oil:  
Castrol A747  
Mixing ratio: 30 : 1



**INFORMATION BEFORE  
PRE-OPERATION**

**PRE-OPERATION CHECK**

1. The brake disc ① is coated with a rust-inhibiter.

Before riding the machine, thoroughly remove it using a lacquer thinner.

**⚠ WARNING**

- **LACQUER THINNER IS HIGHLY FLAMMABLE.**

Always turn off the engine while using lacquer thinner. Take care not to spill any lacquer thinner on the engine or exhaust system.

Never use it in the vicinity of an open flame, or while smoking.

- **LACQUER THINNER CAN CAUSE INJURY.**

Always use lacquer thinner in a well ventilated area. If you should swallow some lacquer thinner, inhale excess lacquer thinner vapors, or allow any lacquer thinner to get into your eyes, contact a doctor immediately.

**NOTE:**

- When the machine is not in use for a long time, apply a rust-inhibiter to the brake disc.
- After riding in the rainy weather, wipe the moisture completely off the disc.
- If rust appears on the brake disc, carefully remove it using #400 sand paper.

**1**



2. The cooling system is filled with coolant at the factory to prevent rusting. Be sure to replace coolant with soft water before riding.

**CAUTION:**

Hard water or salt water is harmful to the engine parts. You may use distilled water, if you can't get soft water.



## SPECIFICATIONS

## GENERAL SPECIFICATIONS

Model	TZ125
Model name:	TZ125G1 (USA) TZ125(G) (OTHERS)
Model code number:	4JT2
Frame starting number:	4JT-004101 (OTHERS)
Vehicle identification number:	JYA4JTW0*SA004101 (USA, CDN, AUS, NZ, E)
Engine starting number:	4JT-004101
Dimensions:	
Overall length	1,800 mm (70.9 in)
Overall width	510 mm (20.1 in)
Overall height	1,010 mm (39.8 in)
Seat height	710 mm (28.0 in)
Wheelbase	1,220 mm (40.0 in)
Minimum ground clearance	110 mm (4.3 in)
Basic weight:	
With oil and full fuel tank	81 kg (179 lb)
Engine:	
Engine type	Liquid cooled 2-stroke, gasoline
Cylinder arrangement	Single cylinder, forward inclined
Displacement	124 cm <sup>3</sup> (4.36 Imp oz, 4.19 US oz)
Bore × Stroke	56.0 × 50.7 mm (2.205 × 1.996 in)
Compression ratio	8.3 : 1
Starting system	Push to start
Lubrication system:	Premix (30 : 1) (Castrol A747)
Oil type or grade (2-Cycle):	
Transmission oil	Castrol R30
Periodic oil change	0.30 L (0.26 Imp qt, 0.32 US qt)
Total amount	0.33 L (0.29 Imp qt, 0.35 US qt)
Cooling water capacity (including all routes):	0.89 L (0.78 Imp qt, 0.94 US qt)
Fuel:	
Type	Premium leaded gasoline with a research octane number of 100 or higher
Tank capacity	13.0 L (2.86 Imp gal, 3.43 US gal)
Carburetor:	
Type/Manufacturer	TM38SS/MIKUNI

2



Model	TZ125
Spark plug: Type/Manufacturer Gap	R6385-105P/NGK 0.5~0.6 mm (0.020~0.024 in)
Clutch type:	Dry, multiple-disc
Transmission: Primary reduction system Primary reduction ratio Secondary reduction system Secondary reduction ratio Transmission type Operation Gear ratio: 1st 2nd 3rd 4th 5th 6th	Spur gear 60/21 (2.857) Chain drive 36/17 (2.118) Constant mesh, 6-speed Left foot operation 30/15 (2.000) 27/17 (1.588) 26/19 (1.368) 27/22 (1.227) 26/23 (1.130) 29/27 (1.074)
Chassis: Frame type Caster angle Trail	Delta box 22.2° 81 mm (3.19 in)
Tire: Type Size (F) Size (R) Tire pressure (front and rear)	Tubeless 2.65/3.25-17 115/65-R17 190 kPa (1.9 kg/cm <sup>2</sup> , 27 psi)
Brake: Front brake type Operation Rear brake type Operation	Single disc brake Right hand operation Single disc brake Right foot operation
Suspension: Front suspension Rear suspension	Telescopic fork Swingarm (link type monocross suspension)
Shock absorber: Front shock absorber Rear shock absorber	Coil spring/oil damper Coil spring/gas, oil damper
Wheel travel: Front wheel travel Rear wheel travel	104 mm (4.09 in) 109 mm (4.29 in)
Electrical: Ignition system	CDI Magneto

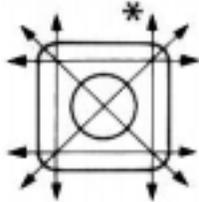
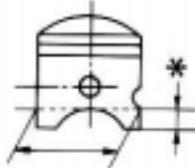
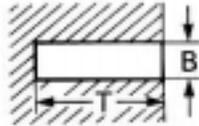
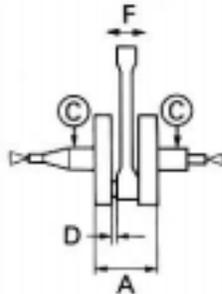
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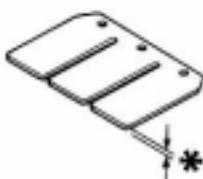
**MAINTENANCE SPECIFICATIONS**

**ENGINE**

**2**

Model	TZ125
Cylinder head: Warp limit 	<0.03 mm (0.0012 in)> *Lines indicate straightedge measurement.
Cylinder: Bore size Wear limit Taper limit Out of round limit	56.000 ~ 56.020 mm (2.2047 ~ 2.2055 in) 56.1 mm (2.209 in) <0.05 mm (0.0020 in)> <0.01 mm (0.0004 in)>
Piston: Piston size/ Measuring point* Piston clearance <Limit> Piston offset	 55.950 ~ 55.970 mm (2.2028 ~ 2.2035 in) / 19 mm (0.75 in) 0.045 ~ 0.055 mm (0.0018 ~ 0.0022 in) <0.1 mm (0.004 in)> 1.0 mm (0.039 in), EX-side
Piston pin: Piston pin outside diameter/ <Limit>	15.995 ~ 16.000 mm (0.6297 ~ 0.6299 in) / <15.975 mm (0.6289 in)>
Piston ring: Sectional sketch  End gap (installed)/ <Limit> Side clearance (installed)/ <Limit>	Plain B = 1.0 mm (0.039 in) T = 2.2 mm (0.087 in) 0.20 ~ 0.35 mm (0.008 ~ 0.014 in) / <0.55 mm (0.022 in)> 0.03 ~ 0.07 mm (0.0012 ~ 0.0028 in) / <0.1 mm (0.0039 in)>
Crankshaft:  Crank width "A" Runout limit "C" Connecting rod big end side clearance "D" Small end free play "F"	52.90 ~ 52.95 mm (2.083 ~ 2.085 in) <0.03 mm (0.0012 in)> 0.2 ~ 0.7 mm (0.008 ~ 0.028 in) 0.8 ~ 1.0 mm (0.031 ~ 0.039 in)
Clutch: Friction plate thickness/Quantity <Wear limit> Clutch plate thickness/Quantity <Warp limit>	2.9 ~ 3.1 mm (0.114 ~ 0.122 in) × 6 <2.7 mm (0.106 in)> 1.4 ~ 1.8 mm (0.055 ~ 0.071 in) × 5 <0.1 mm (0.004 in)>



Model	TZ125
Clutch spring free length/Quantity <Limit> Clutch housing thrust clearance Clutch housing radial clearance Clutch release method	36.0 mm (1.417 in) × 5 <35.0 mm (1.378 in)> 0.07~0.18 mm (0.003~0.007 in) 0.009~0.071 mm (0.0004~0.0028 in) Inner push, cam push
Transmission: Main axle deflection limit  Drive axle deflection limit	 <0.01 mm (0.0004 in)>  <0.01 mm (0.0004 in)>
Shifter: Shifting type Guide bar bending limit	Cam drum and guide bar <0.04 mm (0.0016 in)>
Carburetor: Type/Manufacturer I.D. Mark Main jet (M.J.) Jet needle-clip position (J.N.) Main nozzle (N.J.) Cutaway (C.A.) Pilot jet (P.J.) Pilot air screw (P.A.S.) Valve seat size (V.S.) Starter jet (G.S.) Power jet (P.W.J.) Float level height (F.H.)	TM38SS/MIKUNI 4JT10 #560 6DFI2-61-3 R-7 3.5 #20 1-1/2 φ3.5 1.0 #60 15.2~17.2 mm (0.60~0.68 in)
Reed valve: Thickness* reed valve 1 reed valve 2 Valve stopper height Valve bending limit	 0.42 mm (0.017 in) 0.34 mm (0.013 in) 10.6~11.0 mm (0.417~0.433 in) 0.2 mm (0.008 in)
Cooling: Radiator core size: Width Height Thickness Radiator cap opening pressure  Radiator capacity Water pump: Type	  300 mm (11.81 in) 197.8 mm (7.79 in) 32 mm (1.26 in) 95~125 kPa (0.95~1.25 kg/cm <sup>2</sup> , 13.5~17.8 psi) 0.55 L (0.48 Imp qt, 0.58 US pt)  Single-suction centrifugal pump

2



Parts to be tightened	Thread size	Q'ty	Tightening torque		
			Nm	m•kg	ft•lb
Spark plug	M14S × 1.25	1	19	1.9	1.3
Cylinder head (bolt)	M 6 × 1.0	6	11	1.1	8.0
Cylinder (nut)	M 8 × 1.25	4	20	2.0	14
Cylinder (stud)	M 8 × 1.25	4	15	1.5	11
Power valve cover	M 5 × 0.8	4	4	0.4	2.9
holder 1	M 5 × 0.8	1	4	0.4	2.9
pulley	M 5 × 0.8	1	4	0.4	2.9
cable stay	M 5 × 0.8	2	7	0.7	5.1
Air bleed bolt (cylinder)	M 6 × 1.0	1	12	1.2	8.7
Balance weight gear	M14 × 1.0	1	50	5.0	36
Water pump housing cover	M 6 × 1.0	3	11	1.1	8.0
Radiator	M 6 × 1.0	3	7	0.7	5.1
Radiator and thermo sensor	M16 × 1.5	1	7	0.7	5.1
Radiator hose clamp	—	6	2	0.2	1.4
Oil pump cover	M 5 × 0.8	1	4	0.4	2.9
Oil pump assembly	M 6 × 1.0	2	7	0.7	5.1
Carburetor joint	M 6 × 1.0	6	11	1.1	8.0
Clamp (carburetor joint)	M 4 × 0.7	1	2	0.2	1.4
Reed valve	M 3 × 0.5	6	1	0.1	0.7
Exhaust pipe	M 8 × 1.25	1	21	2.1	15
Silencer	M 6 × 1.0	2	11	1.1	8.0
Crankcase	M 6 × 1.0	13	11	1.1	8.0
Transmission housing	M 6 × 1.0	7	14	1.4	10
Holder (crankshaft oil seal)	M 8 × 1.25	1	16	1.6	11
Blind plug	M 8 × 1.25	1	11	1.1	8.0
Oil drain bolt	M12 × 1.5	1	23	2.3	17
Oil check bolt	M 6 × 1.0	1	9	0.9	6.5
Crankcase cover (left)	M 6 × 1.0	3	11	1.1	8.0
Crankcase cover (right)	M 6 × 1.0	10	11	1.1	8.0
Primary drive gear	M10 × 1.25	1	55	5.5	40
Clutch boss	M14 × 1.0	1	50	5.0	36
Clutch spring	M 5 × 0.8	5	6	0.6	4.3
Push rod adjuster	M 6 × 1.0	1	6	0.6	4.3
Seat plate (push lever)	M 6 × 1.0	1	11	1.1	8.0
Bearing plate cover	M 6 × 1.0	6	8	0.8	5.8
Bearing plate cover (shift cam)	M 5 × 0.8	2	8	0.8	5.8
Drive sprocket	M16 × 1.0	1	60	6.0	43
Stopper lever	M 6 × 1.0	1	11	1.1	8.0
Shift arm	M 6 × 1.0	1	14	1.4	10
Joint rod 1 and shift rod	M 6 × 1.0	1	9	0.9	6.5
Joint rod 2 and shift rod	M 6 × 1.0	1	9	0.9	6.5
Joint rod 1,2	M 6 × 1.0	2	11	1.1	8.0

2



## CHASSIS

Model	TZ125
Steering system: Steering bearing type	Taper roller bearing
Front suspension: Front fork travel Fork spring free length/ <Limit> Spring rate, STD Optional spring Oil capacity Oil level <Min. Max.> (From top of outer tube with inner tube and damper rod fully compressed without spring.) Oil grade Inner tube outer diameter Front fork top end	104 mm (4.09 in) 195 mm (7.68 in)/193 mm (7.60 in) K=5.88 N/mm (0.588 kg/mm, 32.9 lb/in) No 282 cm <sup>3</sup> (9.9 Imp oz, 9.5 US oz) 110 mm (4.33 in) 80~140 mm (3.15~5.51 in) Suspension oil "01" 36 mm (1.42 in) 15 mm (0.59 in)
Rear suspension: Shock absorber travel Spring free length Fitting length <Min. ~ Max. > Spring rate, STD Optional spring Enclosed gas pressure	50 mm (1.97 in) 130 mm (5.12 in) 120 mm (4.72 in) 110~123 mm (4.33~4.84 in) 72 N/mm (7.2 kg/mm, 403 lb/in) No 1,200 kPa (12 kg/cm <sup>2</sup> , 171 psi)
Swingarm: Swingarm free play limit End Side clearance	<1.0 mm (0.04 in)> <0.05~0.35 mm (0.002~0.014 in)>
Wheel: Front wheel type Rear wheel type Front rim size/Material Rear rim size/Material Wheel runout limit: Vertical Lateral	Cast wheel Cast wheel 2.50 × 17/Aluminum 3.50 × 17/Aluminum <1.0 mm (0.04 in)> <0.5 mm (0.02 in)>

2



Model	TZ125
<b>Drive chain:</b> Type/Manufacturer Number of links Chain slack	RK415HR/RK EXCLE 115 links + Joint 30~40 mm (1.2~1.6 in)
<b>Front disc brake:</b> Disc outside dia. × Thickness/<Limit> Deflection limit Pad thickness <Limit> Master cylinder inside dia. Caliper cylinder inside dia. Brake fluid type	282 × 4.0 mm (11.10 × 0.16 in)/<3.5 mm (0.14 in)> 0.3 mm (0.01 in) 5.5 mm (0.22 in) <1.0 mm (0.04 in) > 12.7 mm (0.500 in) 33.96 + 27 mm (1.337 + 1.063 in) DOT #4
<b>Rear disc brake:</b> Disk outside dia. × Thickness/<Limit> Deflection limit Pad thickness <Limit> Master cylinder inside dia. Caliper cylinder inside dia. Brake fluid type	185 × 4.0 mm (7.28 × 0.16 in)/<3.5 mm (0.14 in)> 0.3 mm (0.01 in) 4.0 mm (0.16 in) <1.0 mm (0.04 in)> 12.7 mm (0.500 in) 25.4 mm (1.000 in) DOT #4
<b>Brake pedal:</b> Brake pedal position	148~152 mm (5.9~6.0 in)
<b>Clutch lever free play/Position:</b>	2~3 mm (0.08~0.12 in)/at lever pivot

2



Parts to be tightened	Thread size	Q'ty	Tightening torque		
			Nm	m•kg	ft•lb
△ Handle crown and outer tube	M 8 × 1.25	2	15	1.5	11
△ Under bracket and outer tube	M10 × 1.25	2	20	2.0	14
△ Handle crown and steering shaft	M14 × 1.25	1	40	4.0	29
△ Handlebar and handle bracket	M 6 × 1.0	2	8	0.8	5.8
△ Handle bracket and outer tube	M 8 × 1.25	2	15	1.5	11
△ Steering shaft pinch bolt	M 8 × 1.25	1	20	2.0	14
△ Steering ring nut	M25 × 1.0	1	Refer to NOTE		
Steering damper and frame	M 8 × 1.25	1	18	1.8	13
Steering damper and damper bracket	M 6 × 1.0	1	5	0.5	3.6
Steering damper stay and outer tube	M 6 × 1.0	1	7	0.7	5.1
Clutch lever holder	M 5 × 0.8	2	5	0.5	3.6
△ Front master cylinder and master cylinder bracket	M 6 × 1.0	2	8	0.8	5.8
Brake lever (bolt)	M 6 × 1.0	1	1	0.1	0.7
Brake lever (nut)	M 6 × 1.0	1	6	0.6	4.3
Front fork and cap bolt	M40 × 1.0	2	23	2.3	17
Front fork and damper rod	M12 × 1.25	2	40	4.0	29
Cap bolt and damper rod	M10 × 1.0	2	15	1.5	11
Front fork and front fender	M 6 × 1.0	4	8	0.8	5.8
△ Front wheel axle and nut	M14 × 1.5	1	48	4.8	35
△ Front wheel axle holder	M 8 × 1.25	2	20	2.0	14
△ Front brake disc and wheel hub	M 8 × 1.25	6	23	2.3	17
△ Brake hose (front and rear) and union bolt (master cylinder)	M10 × 1.25	2	26	2.6	19
△ Brake hose (front and rear) and adapter	M10 × 1.25	2	14	1.4	10
△ Brake caliper (front and rear) and adapter	M10 × 1.25	2	26	2.6	19
△ Front brake caliper and front fork	M10 × 1.25	2	35	3.5	25
△ Front brake caliper and pad pin	M10 × 1.25	1	10	1.0	7.2
△ Rear brake caliper and pad pin	M10 × 1.25	1	18	1.8	13
△ Front brake caliper and bleed screw	M 8 × 1.25	2	7	0.7	5.1
△ Rear brake caliper and bleed screw	M 8 × 1.25	2	6	0.6	4.3
Front brake reservoir tank and handle crown	M 6 × 1.0	1	5	0.5	3.6
Footrest bracket and frame	M 8 × 1.25	4	20	2.0	14
Footrest and footrest bracket	M 6 × 1.0	2	12	1.2	8.7
△ Brake pedal and rear master cylinder	M 6 × 1.0	1	12	1.2	8.7
△ Rear master cylinder and footrest bracket	M 8 × 1.25	2	20	2.0	14
Rear master cylinder and reservoir connector	M 4 × 0.7	1	2	0.2	1.4
Rear brake reservoir tank and frame	M 6 × 1.0	1	3	0.3	2.2
△ Rear brake caliper and caliper bracket	M 8 × 1.25	2	23	0.3	17

2

**NOTE:**

1. First, tighten the ring nut approximately 46 Nm (4.6 m•kg, 33 ft•lb) by using the torque wrench, then loosen the ring nut one turn.
2. Retighten the ring nut 1 Nm (0.1 m•kg, 0.7 ft•lb)



Parts to be tightened	Thread size	Q'ty	Tightening torque		
			Nm	m•kg	ft•lb
△ Rear wheel axle and nut	M18 × 1.5	1	63	6.3	45
△ Driven sprocket and bolt	M 8 × 1.25	3	32	3.2	23
△ Rear brake disc and wheel hub	M 8 × 1.25	3	23	2.3	17
Chain puller adjust bolt and locknut	M 8 × 1.25	2	16	1.6	11
Chain puller adjust bolt	M 8 × 1.25	2	2	0.2	1.4
Engine mounting					
△ Engine and frame (front)	M10 × 1.25	1	30	3.0	22
△ Engine and frame (upper)	M10 × 1.25	1	30	3.0	22
△ Engine and frame (lower)	M10 × 1.25	1	30	3.0	22
△ Pinch bolt (engine mounting bolt)	M 6 × 1.0	4	11	1.1	8.0
△ Pivot shaft and nut	M16 × 1.5	1	63	6.3	45
Pivot adjust bolt	M22 × 1.0	1	5	0.5	3.6
△ Relay arm and frame	M10 × 1.25	1	34	3.4	24
△ Relay arm and connecting rod	M10 × 1.25	1	34	3.4	24
△ Connecting rod and swingarm	M10 × 1.25	1	34	3.4	24
△ Rear shock absorber and upper bracket	M10 × 1.25	1	34	3.4	24
△ Rear shock absorber and relay arm	M10 × 1.25	1	34	3.4	24
Rear shock absorber and locknut (preload)	M46 × 1.5	1	40	4.0	29
△ Seat height adjuster and locknut	M22 × 1.0	1	38	3.8	27
△ Seat height adjuster and upper bracket	M10 × 1.25	1	30	3.0	22
Swingarm and seal guard	M 5 × 0.8	4	2	0.2	1.4
Swingarm and brake hose holder	M 6 × 1.0	2	8	0.8	5.8
Cowling stay bracket and frame	M 6 × 1.0	2	8	0.8	5.8
Cowling stay and cowling stay bracket	M 6 × 1.0	2	8	0.8	5.8
Cowling stay (left and right) and frame	M 6 × 1.0	2	8	0.8	5.8
Upper cowl and screen	M 4 × 0.7	7	4	0.4	2.9
△ Fuel tank and fuel cock	M 6 × 1.0	2	7	0.7	5.1
Rear frame and seat	M 6 × 1.0	4	8	0.8	5.8
△ Rear frame and frame	M 8 × 1.25	4	23	2.3	17
Radiator stay and frame	M 6 × 1.0	1	8	0.8	5.8

**NOTE:**

△ - marked portion shall be checked for torque tightening after break-in or before each race.



**ELECTRICAL**

Model	TZ125
Ignition system: Ignition timing (B.T.D.C) Advancer type	2.1 mm (0.083 in) Electrical
CDI: Magneto-model/Manufacturer Source coil resistance (color) Pickup coil resistance (color) CDI unit-model/Manufacturer	4JT-00/NIPPONDENSO 1.3~1.9Ω at 20°C (68°F) (White-White) 94~140Ω at 20°C (68°F) (White/Black-White/Green) 4JT-00/NIPPONDENSO
Ignition coil: Model/Manufacturer Minimum spark gap Primary winding resistance Secondary winding resistance	TJ0294/NIPPONDENSO 5 mm (0.20 in) or more 0.14~0.18Ω at 20°C (68°F) 5.0~7.4kΩ at 20°C (68°F)

**2**

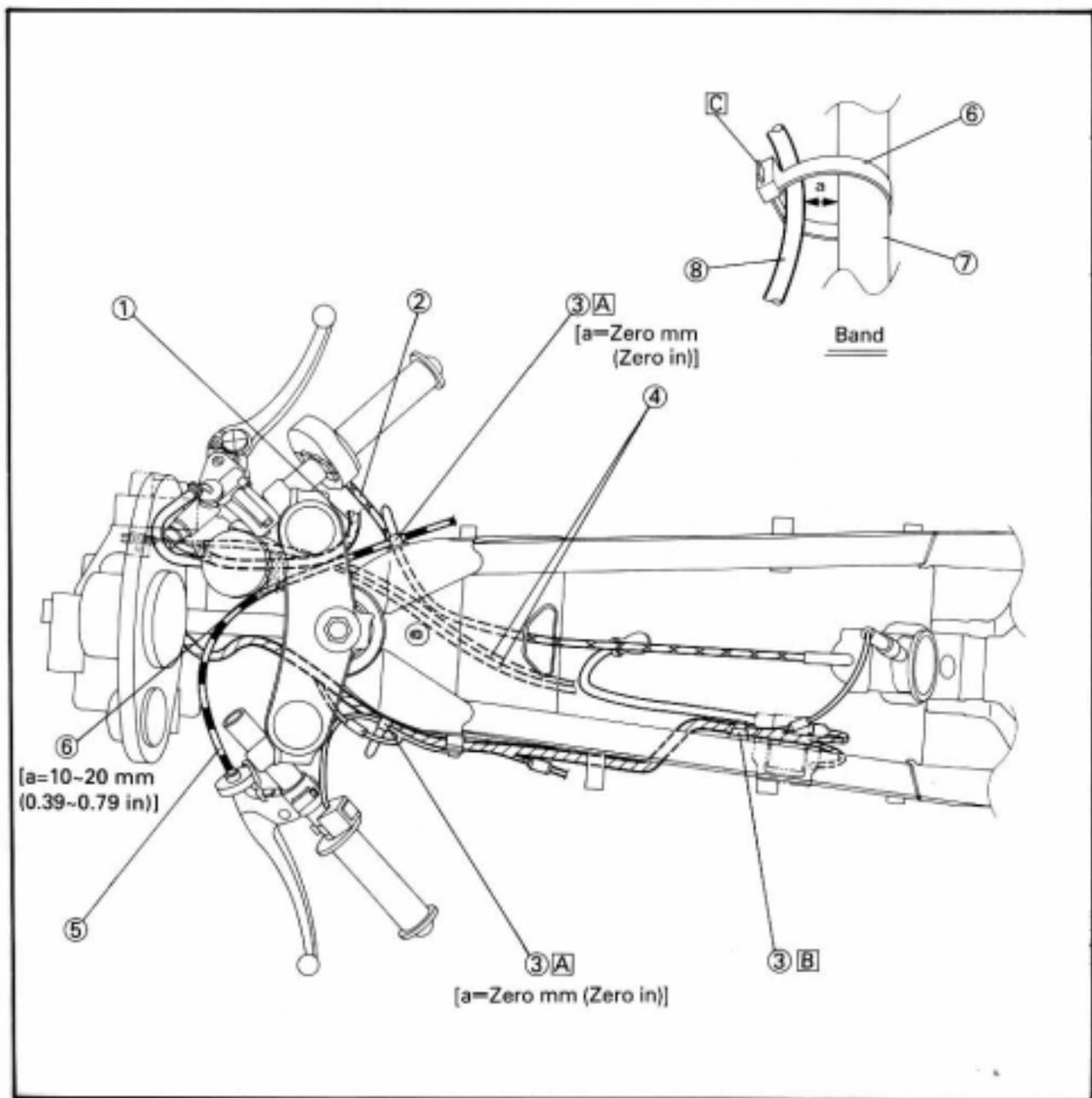
Parts to be tightened	Thread size	Q'ty	Tightening torque		
			Nm	m•kg	ft•lb
Stator	M 6×1.0	2	7	0.7	5.1
Rotor	M12×1.25	1	53	5.3	38
Pickup coil	M 4×0.7	2	2	0.2	1.4
CDI unit	M 6×1.0	2	8	0.8	5.8
Servo motor pulley	M 5×0.8	1	8	0.8	5.8
Servo motor	M 6×1.0	2	8	0.8	5.8
Ignition coil	M 6×1.0	2	8	0.8	5.8
Voltage regulator	M 6×1.0	2	7	0.7	5.1



CABLE ROUTING DIAGRAM

- ① Front brake hose
- ② Throttle cable
- ③ Clamp
- ④ YPVS cable
- ⑤ Clutch cable
- ⑥ Band
- ⑦ Frame
- ⑧ Cable

- A Do not cut the end of the clamp.
- B Install the clamp with its open ends facing upward.
- C Cut the band so that the protruding portion is less than 5 mm (0.20 in).



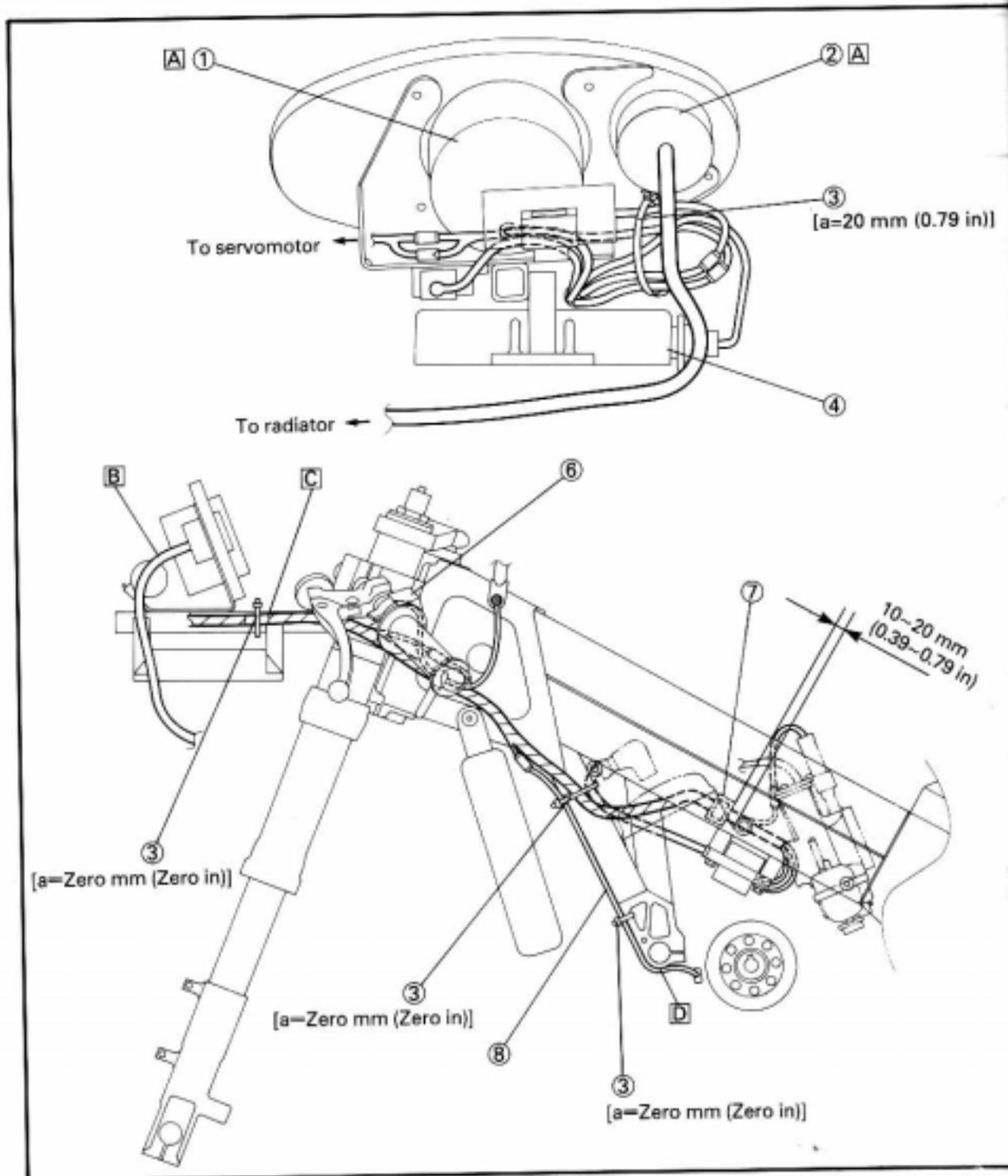
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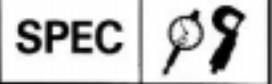
- ① Tachometer
- ② Water temperature gauge
- ③ Band
- ④ CDI unit
- ⑤ Condenser
- ⑥ "ENGINE STOP" button
- ⑦ Clamp
- ⑧ CDI magneto lead

- A Install the tachometer and water temperature gauge with their figures standing upright.
- B Route the water temperature gauge conductor so that the conductor does not contact the cowling and others.
- C Align the white tape on the wireharness with the CDI unit mounting boss.
- D Install the CDI magneto lead so that it is not loose.

**2**



# CABLE ROUTING DIAGRAM



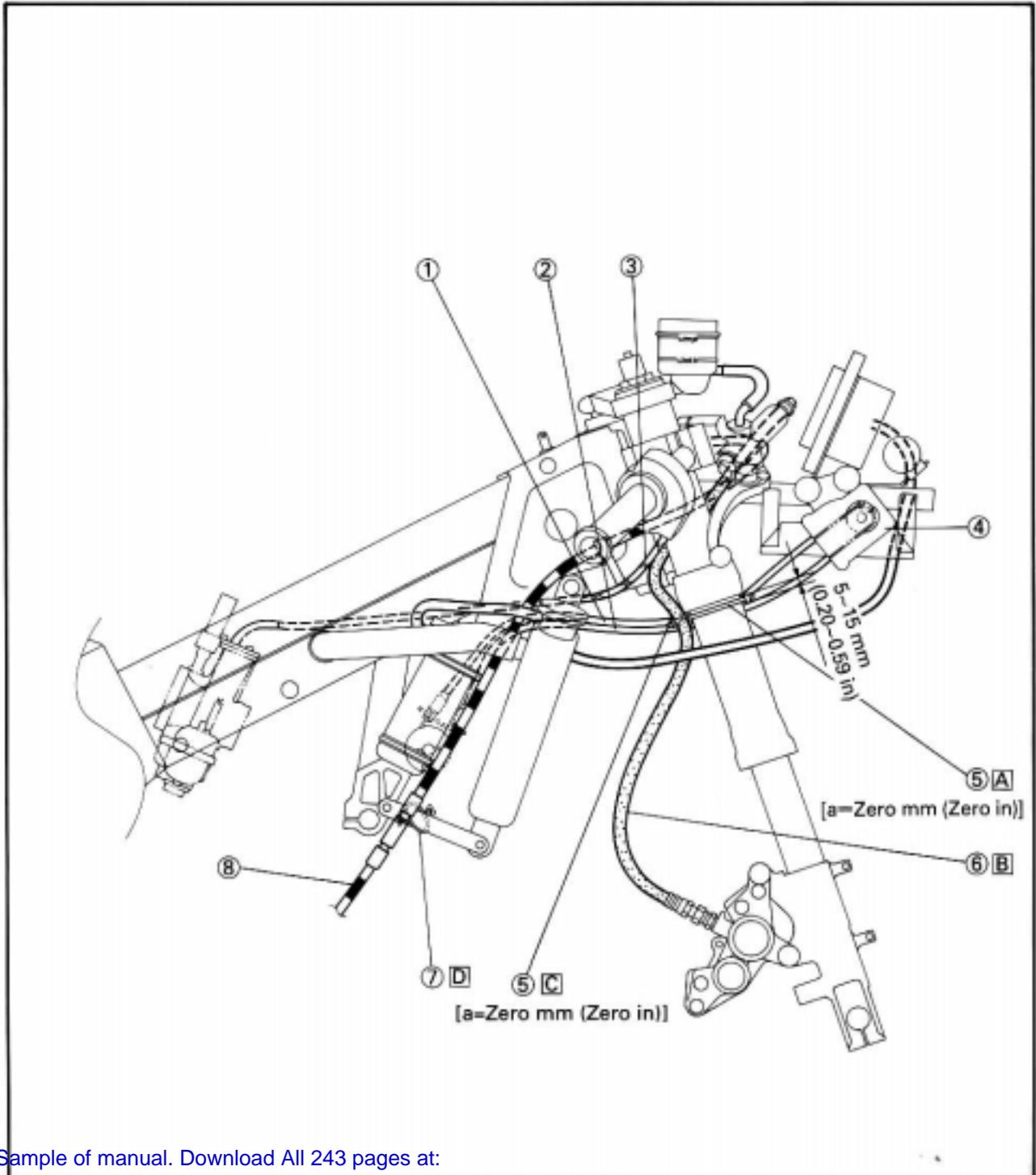
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- ① YPVS cable 1 (silver)
- ② YPVS cable 2 (black)
- ③ Throttle cable
- ④ Servo motor
- ⑤ Band
- ⑥ Front brake hose
- ⑦ Clamp
- ⑧ Clutch cable

- A Position the end of the band to the front of the front fork.
- B Be sure the brake hose is not twisted.
- C Do not tighten the band too much.
- D Clamp the clutch cable at its adjusting portion.

2



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