



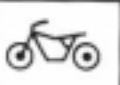

















YAMAHA TZ125G1/(G) 1995

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

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 (Ω), 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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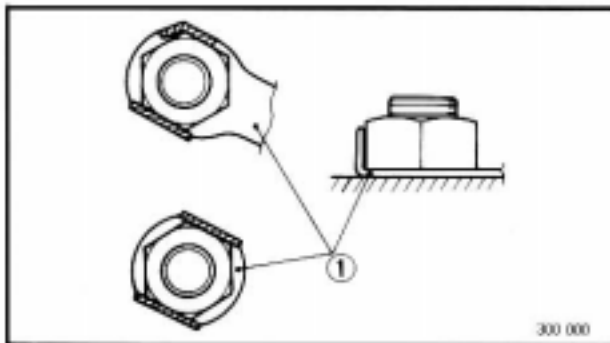


ALL REPLACEMENT PARTS

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

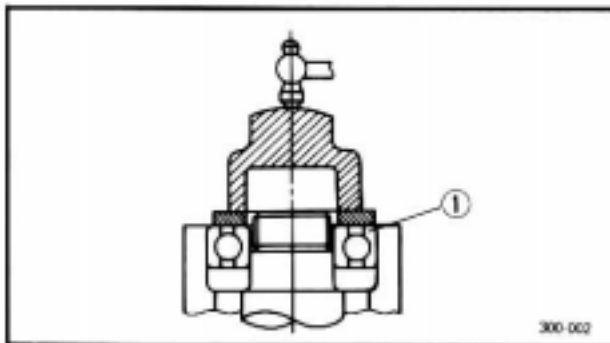
GASKETS, OIL SEALS AND O-RINGS

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.



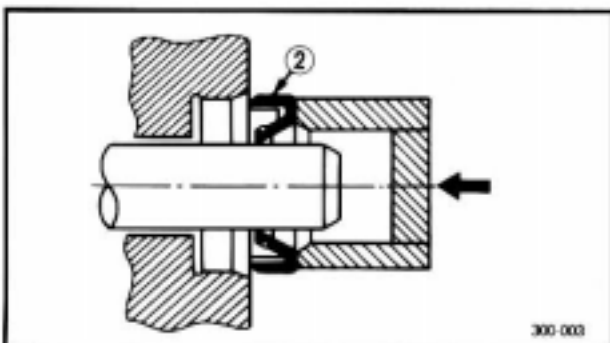
LOCK WASHERS, PLATES AND COTTER PINS

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) (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.

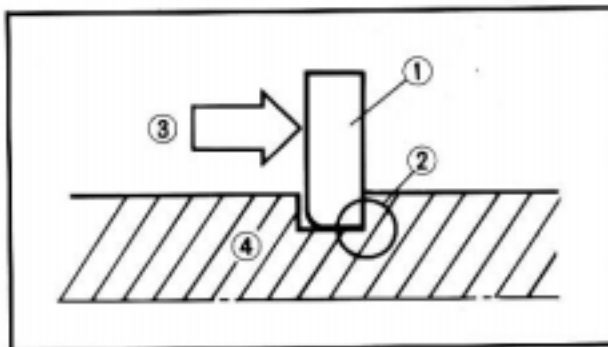


CAUTION:

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.

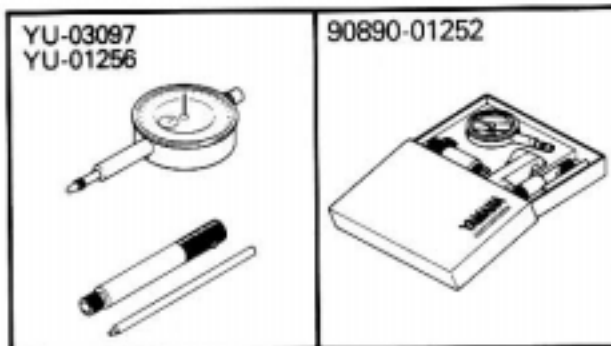
(4) Shaft

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.

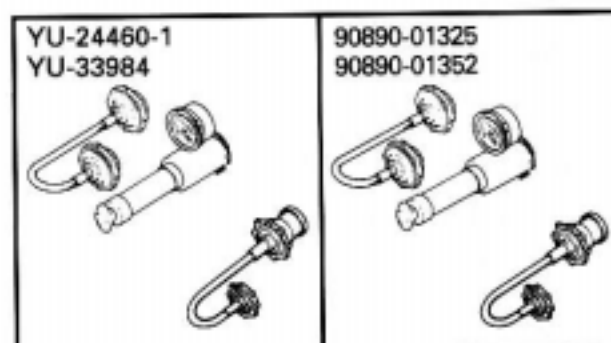
NOTE:

- 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.

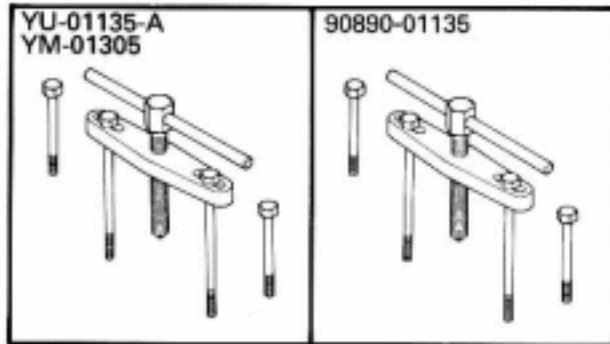
**FOR ENGINE SERVICE**

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.

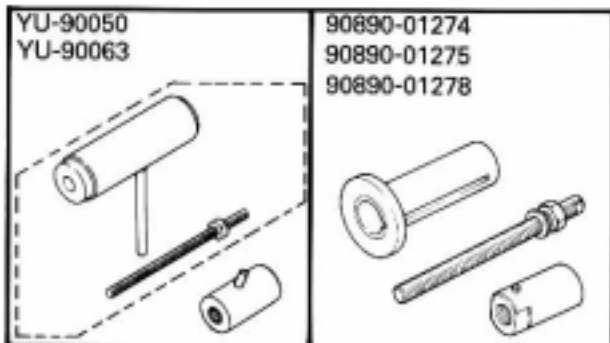


1



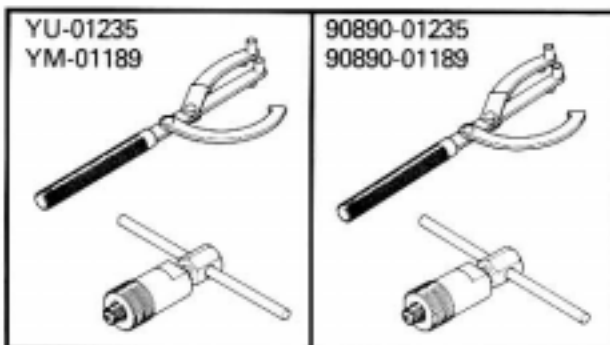
2. Crankcase separating tool
P/N. YU-01135-A, YM-01305
90890-01135, 90890-01305

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.

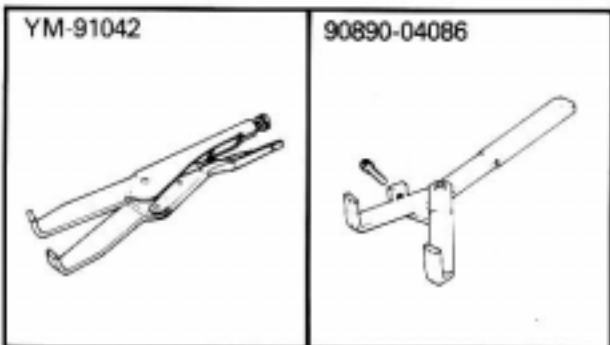


4. Rotor holder and rotor puller
Holder P/N. YU-01235
90890-01235

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

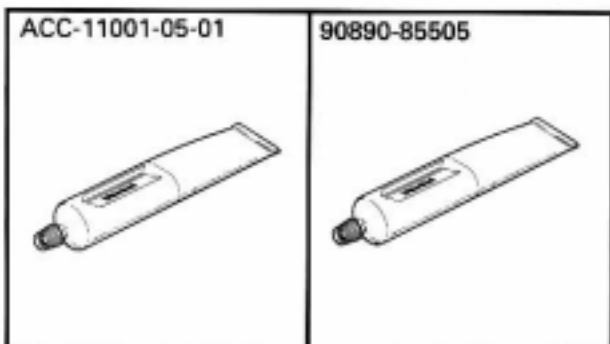
- Puller P/N. YM-01189
90890-01189

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.

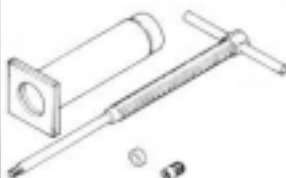


6. Quick gasket*
P/N. ACC-11001-05-01
YAMAHA Bond No. 1215
P/N. 90890-85505

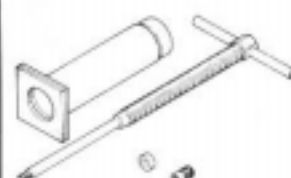
This sealant (Bond) is used for crankcase mating surfaces, etc.


1

YU-01304



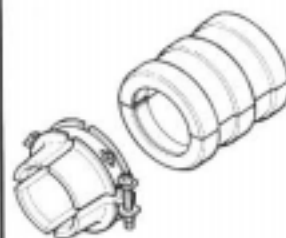
90890-01304



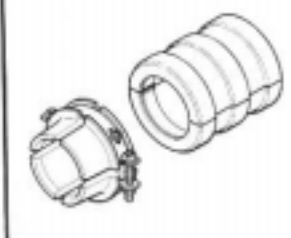
7. Piston pin puller
P/N. YU-01304
90890-01304

This tool is used to pull up the piston pin.

YM-01442



90890-01442

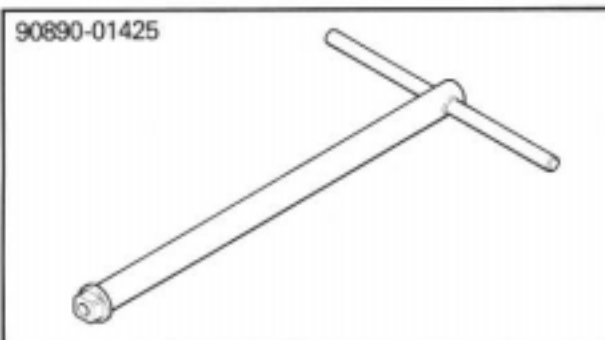


FOR CHASSIS SERVICE

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

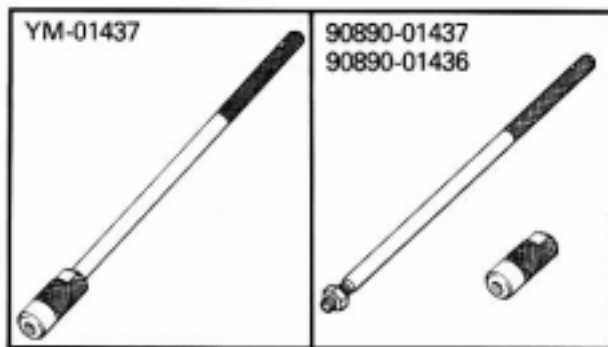


4. Rod holder
P/N. YM-01434
90890-01434

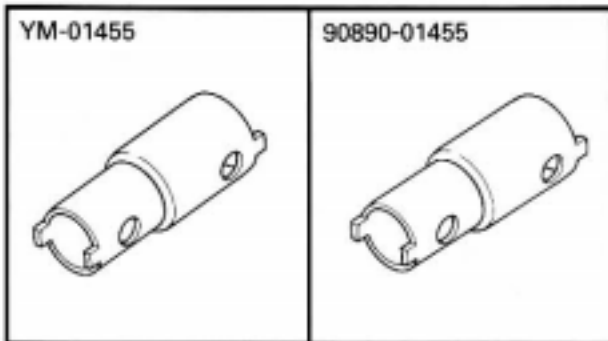
This tool is used to hold the fork spring.



1

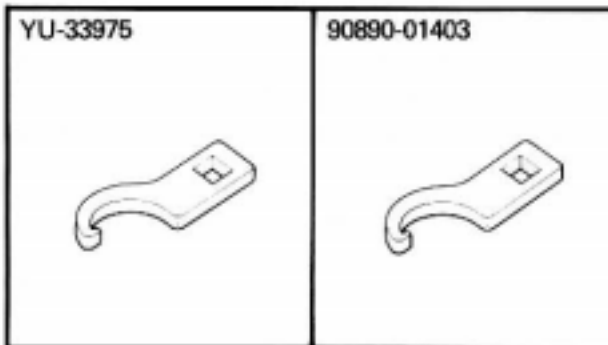


5. Rod puller and rod puller attachment
 Rod puller P/N. YM-01437
 90890-01437
 Rod puller attachment P/N. 90890-01436
 These tools are used to pull up the fork damper rod.



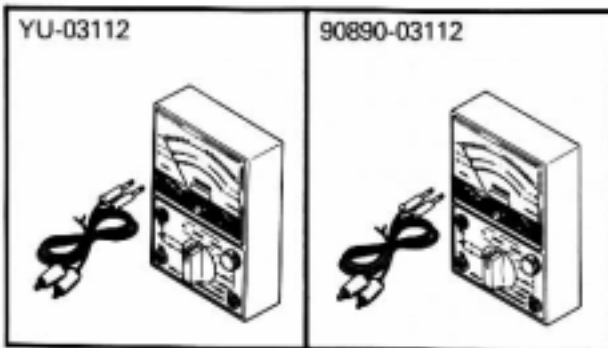
6. Pivot shaft wrench
 P/N. YM-01455
 90890-01455

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



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

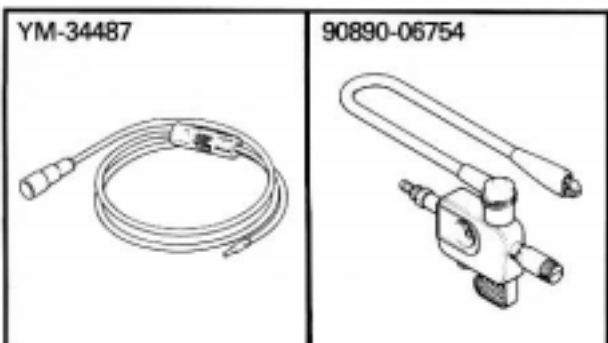
This tool is used when tighten the steering ring nut to specification.



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

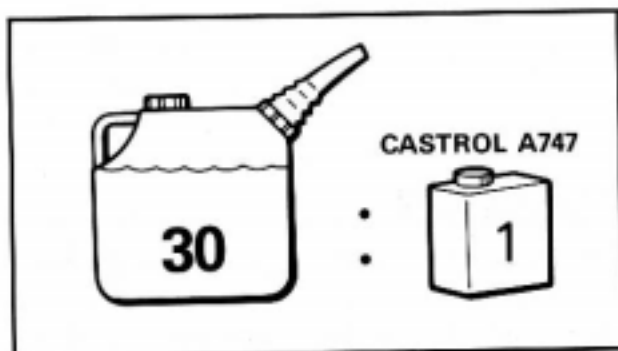


Recommended fuel:

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.



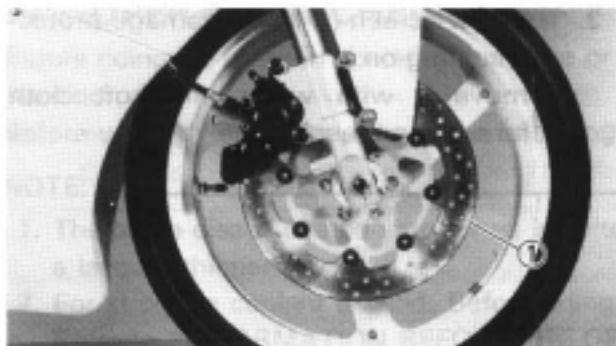
Fuel tank capacity:

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 ³ (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



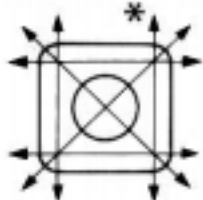
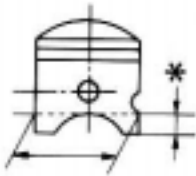
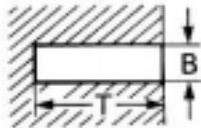
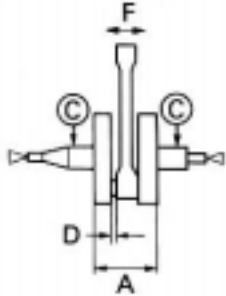
Model	TZ125
Spark plug: Type/Manufacturer Gap	R6385-105P/NGK 0.5--0.6 mm (0.020--0.024 in)
Clutch type:	Dry, multiple-disc
Transmission: Primary reduction system Primary reduction ratio Secondary reduction system Secondary reduction ratio Transmission type Operation Gear ratio: 1st 2nd 3rd 4th 5th 6th	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 ² , 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

2



MAINTENANCE SPECIFICATIONS

ENGINE

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)>