SPECIFICATIONS

ITEM \ MODEL	TZ125H
A. General	
Dimensions:	
Overall length	1,830 mm (72.0 in)
Overall width	520 mm (20.5 in)
Overall height	895 mm (35.2 in)
Wheel base	1,245 mm (49.0 in)
Minimum ground clearance	155 mm (6.1 in)
Machine net weight	75 kg (165 lb)
B. Engine	
Description:	
Type	Water cooled, 2-stroke 5-port, piston valve
Displacement	123 cc
Bore x Stroke	56 x 50 mm (2.205 x 1.969 in)
Compression ratio	7.9 : 1
Starting system	Push to start
Ignition system	CDI magneto ignition
Lubrication system	Mixed gasoline

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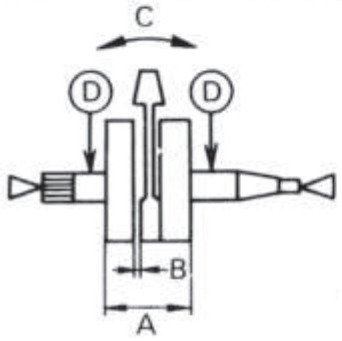
Cylinder head:	
Cylinder head volume	12.2 cc (N-82G spark plug)
Piston & Piston ring:	
Piston clearance	0.035 ~ 0.045 mm (0.0014 ~ 0.0018 in)
Ring end gap (Installed)	0.4 ~ 0.5 mm (0.016 ~ 0.019 in)
Crankshaft:	
Assembly width (A)	$56\ ^{-0.05}_{-0.10}$ mm ($2.205\ ^{-0.002}_{-0.004}$ in)
Big end side clearance (B)	0.2 ~ 0.7 mm (0.008 ~ 0.027 in)
Small end axial play (C)	Limit: 1.2 mm (0.047 in) 0.8 ~ 1.0 mm (0.031 ~ 0.039 in) Limit: 2.0 mm (0.08 in)
Deflection (D) (Limit)	0.03 mm (0.0012 in)
Clutch:	
Type	Air cooled, multiple disc
Primary reduction ratio, method	68/21 (3.238), Gear
Friction plate—Thickness/Q'ty	3.0 mm (0.118 in)
—Wear limit	2.7 mm (0.106 in)
Clutch plate warp, limit	None
Clutch spring free length	31.5 mm (1.24 in)
Service limit	30.5 mm (1.20 in)
Clutch housing axial play	0.05 ~ 0.10 mm (0.002 ~ 0.004 in)
Push rod bending limit	0.15 mm (0.006 in)



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Transmission:	
Type	Constant mesh, 6-speed
Gear ratio, 1st	29/15 (1.933)
2nd	26/18 (1.444)
3rd	28/23 (1.217)
4th	27/25 (1.080)
5th	23/23 (1.000)
6th	25/27 (0.925)
Gear oil quantity—Overhauling	700 cm^3
—Exchange	650 cm^3
Gear oil type	Yamalube 2-cycle oil or SAE 10W/30 motor oil "SE"
Carburetor:	
Type/Manufacturer	VM34SS/MIKUNI
I.D. Mark	5F600
Main jet	#300
Air jet	ϕ2.0
Power jet	#70
Jet needle-Clip position	6F22-3
Needle jet	0-6
Cutaway	2.0
Pilot jet	#70
Air screw (Turns out)	1-1/2

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Starter jet	#80
Float arm height	21.9 ± 1.0 mm (0.86 ± 0.04 in)
C. Chassis	
Steering system:	
Caster	27°
Trail	86 mm (3.39 in)
Lock to lock angle	43°
Head pipe bearing type	Taper roller bearing
Front suspension:	
Type	Telescopic fork
Damper construction	Coil spring and oil damper
Front fork travel	100 mm (3.94 in)
Front fork spring—Free length	363.5 mm (14.31 in)
—Spring constant	k = 0.43 kg/mm
Oil quantity/Grade	109 ± 4 cc (3.69 ± 0.14 oz) Yamaha fork oil 10wt, 20wt or SAE #5 motor oil
Rear suspension:	
Type	Swing arm (Yamaha Monocross suspension) (De Carbon System)

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Damper construction	Coil gas spring, oil damper
Gas properties	Nitrogen gas
Gas pressure	15 kg/cm^2
Absorber stroke	55 mm (2.17 in)
Rear wheel travel	120 mm (4.72 in)
Compression spring—Free length	235 mm (9.25 in)
—Set length	227 mm (8.94 in)
—Spring constant	k = 5.13 kg/mm
Swing arm free play (Rear end)	0 ~ 1 mm (0 ~ 0.004 in)
Fuel tank:	
Capacity	10.4 lit
Fuel grade	Mixed gasoline (15:1) (Premium gasoline: Yamalube "R", Castrol R30, Shell super M)
Wheel:	
Tire size (F)	2.50-18-4PR Yokohama Y920
(R)	2.50-18-4PR Yokohama Y921
Tire pressure (F)	18 bar (1.8 kg/cm^2)
(R)	19 bar (1.9 kg/cm^2)
Rim runout limit (Vertical)	(F) 1.0 mm (0.04 in)
	(R) 1.0 mm (0.04 in)
(Horizntal)	(F) 1.0 mm (0.04 in)
	(R) 1.0 mm (0.04 in)

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Secondary drive:	
Type	Chain/DK248HD
Number o links	107 links + Joint
Chain free play	20 ~ 25 mm (0.8 ~ 1.0 in)
Reduction ratio	35/16 (2.188)
Brake:	
Type	Hydraulic disc brake
Disc diameter/thickness	Front: 298 mm/5 mm (11.7 in/0.19 in)
	Rear: 229 mm/4 mm (9.0 in/0.15 in)
Pad thickness/Wear limit	Front: 4.5 mm/0.5 mm (0.18 in/0.02 in)
	Rear: Outer 4.5 mm (0.18 in)/0.5 mm (0.0197 in)
	R Inner 4.5 mm (0.18 in)/0.5 mm (0.0197 in)
Brake fluid type	DOT #30
D. Electrical	
Ignition system:	
Type	CDI magneto (Inner rotor)
Model/Manufacturer	M100-20/HITACHI
Pulser/Charge coil resistance	500Ω ± 15% (20°C, 68°F), Br-R
	85Ω ± 15% (20°C, 68°F), W/R-R
Ignition timing (B.T.D.C.):	0.6 ± 0.15 mm (0.024 ± 0.006 in)/10,000 r/min

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Ignition coil:	
Model/Manufacturer	CM61-20CY/HITACHI
Winding resistance—Primary coil	0.60Ω ± 10% (20°C, 68°F)
—Secondary	6.2KΩ ± 20% (20°C, 68°F)
Spark plug:	
Type/Manufacturer	N-82G/CHAMPION
Spark plug gap	0.5 ~ 0.6 mm (0.019 ~ 0.023 in)
CDI unit:	
Type/Manufacturer	TIA02-01/HITACHI

E. Tightening torque

Engine:		
Cylinder head	M8	2.3 m-kg (17 ft-lb)
Spark plug	M14	2.5 m-kg (18 ft-lb)
Primary drive gear	M12	5 m-kg (36 ft-lb)
Clutch boss	M12	4 m-kg (30 ft-lb)
Clutch spring	M5	0.7 m-kg (5.0 ft-lb)
Drive sprocket	M16	4.5 m-kg (35 ft-lb)
Rotor nut	M12	5 m-kg (36 ft-lb)

Water check plug	M6	1.0 m-kg (7.5 ft-lb)
Oil drain bolt	M14	4.3 m-kg (31 ft-lb)
Chassis:		
Front wheel axle nut	M14	8 m-kg (60 ft-lb)
Front wheel axle pinch bolt	M8	1.8 m-kg (13 ft-lb)
Inner tube cap bolt	M25	2.5 m-kg (18 ft-lb)
Handle crawn fitting bolt	M14	9.5 m-kg (62 ft-lb)
Brake hose fitting bolt	M10	2.6 m-kg (19 ft-lb)
Caliper fitting bolt	M12	8.5 m-kg (62 ft-lb)
Caliper fitting bolt	M10	4.5 m-kg (33 ft-lb)
Handle fitting bolt	M8	1.8 m-kg (13 ft-lb)
Engine mounting, front	M8	3.0 m-kg (22 ft-lb)
rear upper	M8	3.0 m-kg (22 ft-lb)
under	M10	7 m-kg (50 ft-lb)
stay, front	M8	3.0 m-kg (22 ft-lb)
Rear arm pivot shaft	M16	7.5 m-kg (55 ft-lb)
Rear wheel axle nut	M14	8 m-kg (58 ft-lb)
Driven sprocket	M8	3.0 m-kg (22 ft-lb)
Brake disc	M8	2.5 m-kg (18 ft-lb)
Rear shock absorber, front	M12	6 m-kg (34 ft-lb)
Caliper fitting bolt	M10	2.5 m-kg (18 ft-lb)
Front cawling stay	M8	1.5 m-kg (11 ft-lb)
Footrest	M10	2.5 m-kg (18 ft-lb)

CLEANING AND STORAGE

Cleaning

Frequent thorough cleaning of your motorcycle will not only enhance its appearance, but will improve general performance and extend the useful life of many components.

1. Before cleaning the machine:
   Block off end of exhaust pipe to prevent water entry; a plastic bag and strong rubber band may be used.
2. If engne case is excessively greasy, apply degreaser with a paint brush. Do not apply degreaser to chain, sprockets, or wheel axles.
3. Rinse dirt and degreaser off with garden hose, using only enough hose pressure to do the job. Excessive hose pressure may cause water seepage and contamination of wheel bearings, front forks, brake drums, and transmission seals. Many expensive repair bills will result from improper high-pressure detergent applications such as those available in coin-operated car washes.
4. Once the majority of dirt has been hosed off, wash all surfaces with warm water and mild detergent-type soap. An old toothbrush or bottle brush is handy to reach those hard-to-get-to places.
5. Rinse machine off immediately with clean water and dry all surfaces with a chamois skin, clean towel, or soft absorbent cloth.
6. Immediately after washing, remove excess moisture from chain and lubricate to prevent rust.
7. Clean the seat with a vinyl upholstery cleaner to keep the cover pliable and glossy.
8. Automotive-type wax may be applied to all painted and chrome-plated surfaces. Avoid combination cleaner-waxes.