

DT125F

1979 SERVICE DATA

MODEL – IBM I.D. NUMBER	DT125F-B	DT125F-Y	2N4
Initial Engine Number/Frame Number	2N4-000101 / 2N4-000101		
Basic Color(s)	Diamond Blue (B)	Competition Yellow (Y)	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Regular / 6.8 Lit. (1.8 Gal.) / 0.9 Lit. (0.2 Gal.)		
Dry Vehicle Weight	97 kg (212 lbs.)		
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve		
Bore/Stroke/Number Cylinders/Displacement (cc)	56mm / 50mm / 1 / 123cc		
Compression Ratio/Compression Pressure min ~ max	10.6: 1 (corrected: 7.2:1) / ϕ		
Piston Skirt Clearance-new/max.	0.035 ~ 0.040mm / 0.1mm		
Ring End Gap top/2nd/3rd	0.3 ~ 0.5mm / 0.3 ~ 0.5mm / ϕ		
Valve Clearance (cold) Intake/Exhaust	ϕ		
Oil Pressure hot/rpm	ϕ		
Oiling System	Autolube		
Capacity: Dry	1.0 Lit.		
Oil and Filter Change	ϕ		
Oil Change	ϕ		
Lubricant: Temp above 5°C (40°F)	Yamalube 2* or Equivalent		
Below 15°C (60°F)	Yamalube 2* or Equivalent		
AUTOLUBE – Min. Stroke/Color Code	0.18 ~ 0.27mm / Green		
Minimum Output @ 200 cycles	0.50cc		
Maximum Output @ 200 cycles	5.16cc		
CARBURETOR – Mfr./Type/I.D. Number	Mikuni / VM24SS / 2N400		
Main Jet/Pilot Jet	125 / 22.5		
Needle Jet/Jet Needle-Clip Position	N-4 / 5GL8-3		
Slide Cutaway or Throttle Valve	2.0		
Float Level	21.0 ± 1mm		
Idle RPM	1350 ~ 1500 rpm		
CO % @ Idle (Diagnostic Use Only)	6% or Less		
SUSPENSION			
Front Forks: Oil Type/Level/Qty.	10 wt. Fork Oil* / ϕ / 186cc		
Gas Pressure	ϕ		
Spring Length Std.	546.5mm		
Monoshock: Oil Type/Qty.	Not Rebuildable		
Gas Pressure	15 kg/cm ² (213 psi)		
Minimum Brake Lining Thickness	Front: 2mm	Rear: 2mm	
Tire Size (Nominal Pressure)	F: 2.75-21 (1.7 kg/cm ² / 24 psi) R: 3.50-18 (2.0 kg/cm ² / 28 psi)		
TRANSMISSION – Oil Type/Qty Chg/Qty Reassemble	Yamaha 4* or SAE 10W30 SE / 650cc / 750cc		
Primary Drive Type/Teeth/Ratio	Helical Gear / 71-22 / 3.227		
Secondary Drive Type/Teeth/Chain	Chain / 49-14 / DID428HM-118L		
Clutch Friction Plate Thickness Std ~ min.	3.0mm ~ 2.8mm		
Clutch Spring Length Std ~ min.	33.0 ~ 32.0mm		
Middle Gear Case Capacity	ϕ		
Final Gear Case Capacity	ϕ		
Gear Case Lubricant: Temp above 5°C (40°F)	ϕ		
Temp below 15°C (60°F)	ϕ		
All Weather Conditions	ϕ		

CHARGING SYSTEM	Flywheel Magneto / Single Phase / Half Wave
Battery: Model / Spec. Grav. / Chg. Rate	G.S. 6N6-3B-1 (6V6AH) / 1.26 / 0.6AH
Maximum Output	7.6V2.4A @ 8000 rpm
TROUBLESHOOTING	
Field Coil Color Code / Ω	ϕ
Charge Coil Color Code / Ω	Grn-Wht ~ Gnd / $0.27 \Omega \pm 10\%$
IGNITION SYSTEM	Flywheel Magneto - External Rotor
Ignition Timing	19.5° BTDC @ Idle (1.8mm BTDC)
Spark Plug Type	Champion N-3
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.8mm / 2.5 m-kg / $5K \Omega \pm 10\%$
Point Gap / Condenser Capacitance	0.3 ~ 0.4mm / $0.25 \mu F \pm 10\%$
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / $1.0 \Omega \pm 10\%$ / $5.9K \Omega \pm 20\%$
Pulse Coil or Pick-up Coil Color Code / Ω	ϕ
Source Coil Color Code / Ω	Blk-Wht ~ Gnd / $2.14 \Omega \pm 10\%$
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V35-35W / 6V25W-5.3W / 6V17W
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel ~ Gnd / $0.19 \Omega \pm 10\%$
TORQUE VALUES	
Front Axle Nut	10 x 1.25: 4.0 m-kg
Front Axle Holder Nut	ϕ
Rear Axle Nut	14 x 1.5: 8.5 m-kg
Rear Axle Pinch Bolt	ϕ
Clutch Nut	14 x 1.5: 5.0 m-kg
Drain Plug	12 x 1.5: 2.5 m-kg
Cylinder Head Cover	ϕ
Cylinder Head:	Nut 8 x 1.25: 2.5 m-kg Stud 8 x 1.25: 2.4 m-kg
Engine Mounting Bolts: Front	8 x 1.25: 2.5 m-kg
Rear, Upper	8 x 1.25: 2.5 m-kg
Rear, Lower	10 x 1.25: 4.0 m-kg

ϕ Does Not Apply to This Model

* Available From Yamaha Parts Distributors, Inc.