

DT125H

1981 SERVICE DATA

MODEL - IBM I.D. NUMBER	DT125H	3J0
Initial Engine Number / Frame Number	3J0-050101 / 3J0-050101	
Basic Color(s)	Sapphire Blue	
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 (214 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 (7.2:1.Corrected) / $\emptyset$	
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 / $\emptyset$	
Valve Clearance (Cold) Intake / Exhaust	$\emptyset$	
Oil Pressure Hot / rpm	$\emptyset$	
Oiling System	Autolube	
Capacity: Dry	0.9 Lit. (0.9 Qt.)	
Oil and Filter Change	$\emptyset$	
Oil Change	$\emptyset$	
Lubricant: Temp. Above 5°C (40°F)	Yamalube 2* or Equivalent	
Temp. Below 15°C (60°F)	Yamalube 2* or Equivalent	
AUTOLUBE - Min Stroke / Color Code	0.20 ~ 0.25mm / Green	
Minimum Output @ 200 Cycles	0.50cc	
Maximum Output @ 200 Cycles	5.13cc	
CARBURETOR - Mfr. / Type / I.D. Number	Mikuni / VM22SS / 3J0-00	
Main Jet / Pilot Jet	120 / 20	
Needle Jet / Jet Needle-Clip Position	N-8 / 5GL11 Fixed	
Slide Cutaway or Throttle Valve	2.5	
Float Level / Fuel Level	21.0 $\pm$ 0.5mm / NA	
Idle rpm	1350 ~ 1500 rpm	
Max CO* / Max HC* / Set CO	$\emptyset$	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / $\emptyset$ / 183cc	
Gas Pressure	$\emptyset$	
Spring Length Std	453.5mm	
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	Yamalube 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	3.0 ~ 2.8mm	
Clutch Spring Length Std ~ Min	33.0 ~ 32.0mm	
Middle Gear Case Capacity	$\emptyset$	
Final Gear Case Capacity	$\emptyset$	
Gear Case Lubricant: Temp. Above 5°C (40°F)	$\emptyset$	
Temp. Below 15°C (60°F)	$\emptyset$	
All Weather Conditions	$\emptyset$	

CHARGING SYSTEM		Flywheel Magneto / Single Phase / Half Wave
Battery: Model / Specific Gravity / Charge Rate		GS 6N6-3B-1 (6V 6AH) / 1.26 / 0.6AH
Maximum Output		8.7V 2.5A @ 8000 rpm
TROUBLESHOOTING		
Field Coil Color Code / Ω		$\emptyset$
Charge Coil Color Code / Ω		Grn-Wht ~ Gnd / $0.3 \Omega \pm 10\%$
IGNITION SYSTEM		Capacitor-Discharge Ignition
Ignition Timing		17.5° BTDC @ 3000 rpm (1.45mm BTDC)
Spark Plug Type		NGK B8ES
Spark Plug Gap / Torque / Cap Ω		0.6 ~ 0.8mm / 2.5 m-kG / $5K \Omega \pm 10\%$
Point Gap / Condenser Capacitance		$\emptyset$ / $\emptyset$
TROUBLESHOOTING		
Ignition Coil Test Gap / Primary Ω / Secondary Ω		6mm / $1.0 \Omega \pm 10\%$ / $5.9K \Omega \pm 20\%$
Pulser Coil or Pickup Coil Color Code / Ω		Wht-Red ~ Blk / $10 \Omega \pm 10\%$
Source Coil Color Code / Ω		Brn ~ Blk / $300 \Omega \pm 10\%$
LIGHTING SYSTEM		
Headlight / Taillight / Signal Rating		6V35-35W / 6V25W-5.3W / 6V17W
TROUBLESHOOTING		
Lighting Coil Color Code / Ω		Yel ~ Gnd / $0.18 \Omega \pm 10\%$
TORQUE VALUES		
Front Axle Nut		10 x 1.25: 3.7 m-kG
Front Axle Holder Nut		$\emptyset$
Rear Axle Nut		14 x 1.5: 8.5 m-kG
Rear Axle Pinch Bolt		$\emptyset$
Clutch Nut		14 x 1.5: 5.5 m-kG
Drain Plug		12 x 1.5: 2.0 m-kG
Cylinder Head Cover		$\emptyset$
Cylinder Head:		8 x 1.25: 2.5 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: 3.7 m-kG

$\emptyset$ = Does Not Apply To This Model

NA = Information Not Available

*Available From Yamaha Parts Distributors Inc.

*For Diagnostic Use Only