

DT100J

1982 SERVICE DATA

MODEL - IBM I.D. NUMBER	DT100J	3A3
Initial Engine Number / Frame Number	3A3-070101 / 3A3-070101	
Basic Color(s)	Crystal Silver	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Regular / 4.5 Lit. / 0.3 Lit.	
Dry Vehicle Weight	80 kg	
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	52mm / 45.6mm / 1 / 97cc	
Compression Ratio/Compression Pressure Min~Max	6.7:1 / $\emptyset$	
Piston Skirt Clearance New ~ Max	0.035 ~ 0.040mm / 0.1mm	
Ring End Gap Top / 2nd / 3rd	0.15 ~ 0.35mm / 0.15 ~ 0.35mm / $\emptyset$	
Valve Clearance (Cold) Intake / Exhaust	$\emptyset$	
Oil Pressure Hot / rpm	$\emptyset$	
Oiling System	Autolube	
Capacity: Dry	1.0 Lit.	
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	5.15cc	
CARBURETOR - Mfr. / Type / I.D. Number	Mikuni / VM20SS / 3A3-60	
Main Jet / Pilot Jet	130 / 15	
Needle Jet / Jet-Needle-Clip Position	0-6 / 4L17 Fixed	
Slide Cutaway or Throttle Valve	2.0	
Float Level / Fuel Level	21 $\pm$ 1.0mm / NA	
Idle rpm	1300 ~ 1450 rpm	
Max CO* / Max HC* / Set CO	$\emptyset$	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / $\emptyset$ / 116cc $\pm$ 2cc	
Gas Pressure	$\emptyset$	
Spring Length Std	418.5mm	
Monoshock: Oil Type / Qty	$\emptyset$	
Gas Pressure	$\emptyset$	
Minimum Brake Lining Thickness	Front: 2mm Rear: 2mm	
Tire Size (Nominal Pressure)	F:2.50-18 (1.6 kg/cm ²) R:3.00-16 (2.0 kg/cm ²)	
TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble	Yamalube 4* or SAE 10W30 SE / 600cc / 650cc	
Primary Drive Type / Teeth / Ratio	Helical Gear / 74-19 / 3.895	
Secondary Drive Type / Teeth / Chain	Chain / 45-14 / RS420-102L	
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ Min	31.5 ~ 30.5mm	
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 6N4-2A-2 / 1.26 / 0.4A
Maximum Output		7.5V 3.5A @ 8000 rpm
TROUBLESHOOTING		
Field Coil Color Code / Ω		$\emptyset$
Charge Coil Color Code / Ω		Grn-Red ~ Blk / $0.32 \Omega \pm 10\%$
IGNITION SYSTEM		Capacitor-Discharge Ignition
Ignition Timing		21° BTDC @ 2000 rpm
		1.8mm BTDC
Spark Plug Type		NGK B7ES
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 ~ Gnd / $300 \Omega \pm 10\%$
LIGHTING SYSTEM		
Headlight / Taillight / Signal Rating		6V30-30W / 6V25W-5.3W / 6V17W
TROUBLESHOOTING		
Lighting Coil Color Code / Ω		Yel-Blk / $2.2 \Omega \pm 10\%$
TORQUE VALUES		
Front Axle Nut		12 x 1.25: 4.3 m·kg
Front Axle Holder Nut		$\emptyset$
Rear Axle Nut		10 x 1.00: 4.0 m·kg
Rear Axle Pinch Bolt		$\emptyset$
Clutch Nut		12 x 1.0: 5.0 m·kg
Drain Plug		12 x 1.5: 2.5 m·kg
Cylinder Head Cover		$\emptyset$
Cylinder Head:		8 x 1.25: 2.5 m·kg
Engine Mounting Bolts: Front, Upper		8 x 1.25: 2.6 m·kg
Rear, Upper		8 x 1.25: 2.6 m·kg
Rear, Lower		10 x 1.25: 3.9 m·kg

$\emptyset$ = Does Not Apply To This Model
NA = Information Not Available

* Available From Yamaha Parts Distributors Inc.
• For Diagnostic Use Only

SERVICE LITERATURE

PUBLICATION	PART NUMBER	REMARKS
Owner's Manual	LIT-11626-03-04	Same as DT100G, H Same as DT100G, Supp. to DT100E (01-02)
Service Manual	LIT-11616-DT-1	
Assembly Manual	LIT-11666-01-67	
Consumer Information	LIT-11656-03-04	