

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 ± 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 ± 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 Ω \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 Ω \pm 10%
Point Gap / Condenser Capacitance	\emptyset / \emptyset
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω \pm 10% / 5.9K Ω \pm 20%
Pulser Coil or Pickup Coil Color Code / Ω	Wht-Red ~ Blk / 10 Ω \pm 10%
Source Coil Color Code / Ω	Brn ~ Gnd / 300 Ω \pm 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V30-30W / 6V25W-5.3W / 6V17W
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel-Blk / 2.2 Ω \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.
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SERVICE LITERATURE

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