

MX100G

1980 SERVICE DATA

MODEL – IBM I.D. NUMBER	MX100G	3T0
Initial Engine Number/Frame Number	3T0-000101 / 3T0-000101	
Basic Color(s)	Clean White	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Regular / 4.5 Lit. (1.2 Gal) / 0.3 Lit. (0.08 Gal.)	
Dry Vehicle Weight	77 kg (170 lb.)	
ENGINE TYPE	2-Stroke, Air Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	52 / 45.6mm / 1 / 97cc	
Compression Ratio/Compression Pressure min~max	6.7:1 / N/A	
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*	
Below 15°C (60°F)	Yamalube 2*	
AUTOLUBE – Min. Stroke/Color Code	0.20 ~ 0.25mm / Green	
Minimum Output @ 200 cycles	0.50 ~ 0.62 cc	
Maximum Output @ 200 cycles	4.65 ~ 5.15 cc	
CARBURETOR – Mfr./Type/I.D. Number	Mikuni / VM22SS / 3M100	
Main Jet/Pilot Jet	130 / 17.5	
Needle Jet/Jet Needle-Clip Position	0-6 / 4L6-3	
Slide Cutaway or Throttle Valve	2.0	
Float Level	21 ± 1mm	
Idle rpm	ϕ	
CO % @ Idle (Diagnostic Use Only)	ϕ	
SUSPENSION		
Front Forks: Oil Type/Level/Qty.	20 wt. Fork Oil / ϕ / 116cc	
Gas Pressure	ϕ	
Spring Length Std.	418.5mm	
Monoshock: Oil Type/Qty.	ϕ	
Gas Pressure	ϕ	
Minimum Brake Lining Thickness	Front: 2mm Rear: 2mm	
Tire Size (Nominal Pressure)	F: 2.50-18 (1.0kg/cm ² /14 psi) R: 3.00-16(1.2kg/cm ² /17 psi)	
TRANSMISSION – Oil Type/Qty Chg/Qty Reassemble	SAE 10W30 SE / 650 cc / 650 cc	
Primary Drive Type/Teeth/Ratio	Helical Gear / 74-19 / 3.895	
Secondary Drive Type/Teeth/Chain	Chain / 48-14 / RS420-104L	
Clutch Friction Plate Thickness Std ~ Min.	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ Min.	31.5 ~ 30.5mm	
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
Battery: Model / Spec. Grav. / Chg. Rate	φ
Maximum Output	φ
TROUBLESHOOTING	
Field Coil Color Code / Ω	φ
Charge Coil Color Code / Ω	φ
IGNITION SYSTEM	Capacitor Discharge Ignition
Ignition Timing	1.8mm BTDC
Spark Plug Type	NGK B-7ES
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.8mm / 2.3 m·kg / 5K Ω ± 20%
Point Gap / Condenser Capacitance	φ
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 10% / 5.9K Ω ± 20%
Pulse Coil or Pick-up Coil Color Code / Ω	Wht-Red ~ Gnd / 10 Ω ± 10%
Source Coil Color Code / Ω	Brn ~ Gnd / 300 Ω ± 10% 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	φ
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	φ
TORQUE VALUES	
Front Axle Nut	12 x 1.25: 4.3 m·kg
Front Axle Holder Nut	φ
Rear Axle Nut	10 x 1.25: 3.9 m·kg
Rear Axle Pinch Bolt	φ
Clutch Nut	12 x 1.0: 4.5 m·kg
Drain Plug	12 x 1.5: 2.5 m·kg
Cylinder Head Cover	φ
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

φ Does Not Apply to This Model

* Available From Yamaha Parts Distributors, Inc.