

# MX100J

## 1982 SERVICE DATA

<b>MODEL - IBM I.D. NUMBER</b>	MX100J	3T0
Initial Engine Number / Frame Number	3T0-064857 / 3T0-064857	
Basic Color(s)	Clean White	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Regular / 4.5 Lit. / 0.3 Lit.	
Dry Vehicle Weight	77 kg	
<b>ENGINE TYPE</b>	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 / NA	
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 / ø	
Valve Clearance (Cold) Intake / Exhaust	ø	
Oil Pressure Hot / rpm	ø	
Oiling System	Autolube	
Capacity: Dry	1.0 Lit.	
Oil and Filter Change	ø	
Oil Change	ø	
Lubricant: Temp. Above 5°C (40°F)	Yamalube 2* or Equivalent	
Temp. Below 15°C (60°F)	Yamalube 2* or Equivalent	
<b>AUTOLUBE - Min Stroke / Color Code</b>	0.20 ~ 0.25mm / Green	
Minimum Output @ 200 Cycles	0.50cc ~ 0.62cc	
Maximum Output @ 200 Cycles	4.65cc ~ 5.15cc	
<b>CARBURETOR - Mfr. / Type / I.D. Number</b>	Mikuni / VM22SS / 3M1-00	
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 / Fuel Level	21mm ± 1mm / NA	
Idle rpm	ø	
Max CO* / Max HC* / Set CO	ø	
<b>SUSPENSION</b>		
Front Forks: Oil Type / Level / Qty	20 Wt. Fork Oil* / ø / 116cc	
Gas Pressure	ø	
Spring Length Std	418.5mm	
Monoshock: Oil Type / Qty	ø	
Gas Pressure	ø	
Minimum Brake Lining Thickness	Front: 2mm      Rear: 2mm	
Tire Size (Nominal Pressure)	F:2.50-18 (1.0 kg/cm <sup>2</sup> )    R:3.00-16 (1.2 kg/cm <sup>2</sup> )	
<b>TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble</b>	SAE 10W30 SE / 650cc / 600cc	
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	ø	
Final Gear Case Capacity	ø	
Gear Case Lubricant: Temp. Above 5°C (40°F)	ø	
Temp. Below 15°C (60°F)	ø	
All Weather Conditions	ø	

<b>CHARGING SYSTEM</b>	Flywheel Magneto
Battery: Model / Specific Gravity / Charge Rate	∅
Maximum Output	∅
<b>TROUBLESHOOTING</b>	
Field Coil Color Code / Ω	∅
Charge Coil Color Code / Ω	∅
<b>IGNITION SYSTEM</b>	Capacitor-Discharge Ignition
Ignition Timing	1.8mm BTDC
Spark Plug Type	NGK B7ES
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.8mm / 2.3 m-kG / 5K Ω ± 20%
Point Gap / Condenser Capacitance	∅
<b>TROUBLESHOOTING</b>	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 10% / 5.9K Ω ± 20%
Pulser Coil or Pickup Coil Color Code / Ω	Wht-Red ~ Gnd / 10 Ω ± 10%
Source Coil Color Code / Ω	Brn ~ Gnd / 300 Ω ± 10%
<b>LIGHTING SYSTEM</b>	
Headlight / Taillight / Signal Rating	∅
<b>TROUBLESHOOTING</b>	
Lighting Coil Color Code / Ω	∅
<b>TORQUE VALUES</b>	
Front Axle Nut	12 x 1.25: 4.3 m-kG
Front Axle Holder Nut	∅
Rear Axle Nut	10 x 1.25: 3.9 m-kG
Rear Axle Pinch Bolt	∅
Clutch Nut	12 x 1.0: 4.5 m-kG
Drain Plug	12 x 1.5: 2.5 m-kG
Cylinder Head Cover	∅
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

∅ = 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/Service Manual Assembly Manual	LIT-11626-03-08 LIT-11666-01-70	Same as MX100G, Supp. to MX100F (01-63) and DT100F (00-36)