MX100J
1982 SERVICE DATA

MODEL - IBM I.D. NUMBER	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
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 / 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
AUTOLUBE - Min Stroke / Color Code	0.20 ~ 0.25mm / Green
Minimum Output @ 200 Cycles	0.50cc ~ 0.62cc
Maximum Output @ 200 Cycles	4.65cc ~ 5.15cc
CARBURETOR - Mfr. / Type / I.D. Number	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
SUSPENSION	
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/cm²) R:3.00-16 (1.2 kg/cm²)
TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble	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

CHARGING SYSTEM	Flywheel Magneto
Battery: Model / Specific Gravity / Charge Rate	ø
Maximum Output	ø
TROUBLESHOOTING	
Field Coil Color Code / Ω	ø
Charge Coil Color Code / Ω	ø
IGNITION SYSTEM	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	ø
TROUBLESHOOTING	
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%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	ø
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	ø
TORQUE VALUES	
Front Axle Nut	12 x 1.25: 4.3 m-kg
Front Axle Holder Nut	ø
Rear Axle Nut	10 x 1.25: 3.9 m-kg
Rear Axle Pinch Bolt	ø
Clutch Nut	12 x 1.0: 4.5 m-kg
Drain Plug	12 x 1.5: 2.5 m-kg
Cylinder Head Cover	ø
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

ø = 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)