

MX175G

1980 SERVICE DATA

MODEL – IBM I.D. NUMBER	MX175G	3M2
Initial Engine Number/Frame Number	3M2-100101 / 3M2-100101	
Basic Color(s)	Clean White	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Regular / 6.8 Lit (1.8 Gal.) / 0.9 Lit. (0.2 Gal.)	
Dry Vehicle Weight	91 kg (200 lbs.)	
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	66mm / 50mm / 1 / 171cc	
Compression Ratio/Compression Pressure min ~ max	6.8:1 / ϕ	
Piston Skirt Clearance new/max.	0.040 ~ 0.045mm / 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 / Gray	
Minimum Output @ 200 cycles	0.50cc	
Maximum Output @ 200 cycles	5.13cc	
CARBURETOR – Mfr./Type/I.D. Number	Mikuni / VM24SS / 3M200	
Main Jet/Pilot Jet	130 / 27.5	
Needle Jet/Jet Needle-Clip Position	0-2 / 4L6-3	
Slide Cutaway or Throttle Valve	3.0	
Float Level	21.0 ± 1.0mm	
Idle RPM	ϕ	
CO % @ Idle (Diagnostic Use Only)	ϕ	
SUSPENSION		
Front Forks: Oil Type/Level/Qty.	10 wt. Fork Oil* / ϕ / 179cc	
Gas Pressure	ϕ	
Spring Length Std.	453.5mm	
Monoshock: Oil Type/Qty.	Not Rebuildable	
Gas Pressure	15 kg/cm ²	
Minimum Brake Lining Thickness	Front: 2mm Rear: 2mm	
Tire Size (Nominal Pressure)	F: 2.75-21 (0.9 kg/cm ² / 13 psi) R: 3.50-18 (1.1 kg/cm ² / 16 psi)	
TRANSMISSION – Oil Type/Qty Chg/Qty Reassemble	SAE 10W30 SE / 650cc / 750cc	
Primary Drive Type/Teeth/Ratio	Helical Gear / 71-22 / 3.227	
Secondary Drive Type/Teeth/Chain	Chain / 49-15 / DID428DSM-118L	
Clutch Friction Plate Thickness Std ~ min.	3.0 ~ 2.8mm	
Clutch Spring Length Std ~ min.	33.0 ~ 32.0mm	
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 B8ES
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.8mm / 2.0 m-kg / 5K Ω ± 10%
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 ~ Blk / 10 Ω ± 10%
Source Coil Color Code / Ω	Brn-Blk / 300 Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	ϕ
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	ϕ
TORQUE VALUES	
Front Axle Nut	10 x 1.25: 4.0 m-kg
Front Axle Holder Nut	ϕ
Rear Axle Nut	14 x 1.5: 8.5 m-kg
Rear Axle Pinch Bolt	ϕ
Clutch Nut	14 x 1.5: 5.0 m-kg
Drain Plug	12 x 1.5: 2.5 m-kg
Cylinder Head Cover	ϕ
Cylinder Head:	Nut 8 x 1.25: 2.5 m-kg
	Stud 8 x 1.25: 2.5 m-kg
Engine Mounting Bolts: Front	8 x 1.25: 2.5 m-kg
Rear, Upper	8 x 1.25: 2.5 m-kg
Rear, Lower	10 x 1.25: 4.0 m-kg

ϕ Does Not Apply to This Model

* Available From Yamaha Parts Distributors, Inc.