

MX175H

1981 SERVICE DATA

MODEL - IBM I.D. NUMBER	MX175H	3M2
Initial Engine Number / Frame Number	3M2-200101 / 3M2-200101	
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 / \emptyset	
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 / \emptyset	
Valve Clearance (Cold) Intake / Exhaust	\emptyset	
Oil Pressure Hot / rpm	\emptyset	
Oiling System	Autolube	
Capacity: Dry	1.0 Lit. (1.0 Qt.)	
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 / Gray	
Minimum Output @ 200 Cycles	0.50cc	
Maximum Output @ 200 Cycles	5.13cc	
CARBURETOR - Mfr. / Type / I.D. Number	Mikuni / VM24SS / 3M2-00	
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 / Fuel Level	21.0mm \pm 1.0mm / NA	
Idle rpm	\emptyset	
Max CO* / Max HC* / Set CO	\emptyset	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / \emptyset / 179cc	
Gas Pressure	\emptyset	
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	\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	∅
Maximum Output	∅
TROUBLESHOOTING	
Field Coil Color Code / Ω	∅
Charge Coil Color Code / Ω	∅
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	∅
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 ~ Blk / 10 Ω ± 10%
Source Coil Color Code / Ω	Brn-Blk / 300 Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	∅
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	∅
TORQUE VALUES	
Front Axle Nut	10 x 1.25: 4.0 m-kG
Front Axle Holder Nut	∅
Rear Axle Nut	14 x 1.5: 8.5 m-kG
Rear Axle Pinch Bolt	∅
Clutch Nut	14 x 1.5: 5.0 m-kG
Drain Plug	12 x 1.5: 2.5 m-kG
Cylinder Head Cover	∅
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

∅ = Does Not Apply To This Model

NA = Information Not Available

*Available From Yamaha Parts Distributors Inc.

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