

MX100H

1981 SERVICE DATA

| MODEL - IBM I.D. NUMBER | MX100H | 3T0 |
|---|---|-----|
| Initial Engine Number / Frame Number | 3T0-060101 / 3T0-060101 | |
| 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 lbs.) | |
| 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. (1.0 Qt.) | |
| 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/cm ² /14 psi) R:3.00-16 (1.2 kg/cm ² /17 psi) | |
| 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 | |

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| CHARGING SYSTEM | Flywheel Magneto |
| 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 B7ES |
| Spark Plug Gap / Torque / Cap Ω | 0.6 ~ 0.8mm / 2.3 m-k _g / 5K Ω \pm 20% |
| Point Gap / Condenser Capacitance | ∅ |
| TROUBLESHOOTING | |
| Ignition Coil Test Gap / Primary Ω / Secondary Ω | 6mm / 1.0 Ω \pm 10% / 5.9K Ω \pm 20% |
| Pulser Coil or Pickup Coil Color Code / Ω | Wht-Red ~ Gnd / 10 Ω \pm 10% |
| Source Coil Color Code / Ω | Brn ~ Gnd / 300 Ω \pm 10% |
| LIGHTING SYSTEM | |
| Headlight / Taillight / Signal Rating | ∅ |
| TROUBLESHOOTING | |
| Lighting Coil Color Code / Ω | ∅ |
| TORQUE VALUES | |
| Front Axle Nut | 12 x 1.25: 4.3 m-k _g |
| Front Axle Holder Nut | ∅ |
| Rear Axle Nut | 10 x 1.25: 3.9 m-k _g |
| Rear Axle Pinch Bolt | ∅ |
| Clutch Nut | 12 x 1.0: 4.5 m-k _g |
| Drain Plug | 12 x 1.5: 2.5 m-k _g |
| Cylinder Head Cover | ∅ |
| Cylinder Head: | 8 x 1.25: 2.5 m-k _g |
| | |
| Engine Mounting Bolts: Front, Upper | 8 x 1.25: 2.6 m-k _g |
| Rear, Upper | 8 x 1.25: 2.6 m-k _g |
| Rear, Lower | 10 x 1.25: 3.9 m-k _g |
| | |
| | |

∅ = Does Not Apply To This Model

NA = Information Not Available

*Available From Yamaha Parts Distributors Inc.

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