

PW50J

1982 SERVICE DATA

| MODEL - IBM I.D. NUMBER | PW50J | PW50J | 4X4 |
|---|--|-------|-----|
| Initial Engine Number / Frame Number | 4X4-200101 / 4X4-200101 | | |
| Basic Color(s) | Competition Yellow | | |
| Fuel Type / Fuel Tank Capacity / Reserve Capacity | Regular / 2.0 Lit. / ∅ | | |
| Dry Vehicle Weight | 37 kg | | |
| ENGINE TYPE | 2-Stroke, Air-Cooled, Reed Valve | | |
| Bore/Stroke/Number Cylinders/Displacement (cc) | 40mm / 39.2mm / 1 / 49cc | | |
| Compression Ratio/Compression Pressure Min~Max | 6.0:1 / ∅ | | |
| Piston Skirt Clearance New ~ Max | 0.035 ~ 0.047mm / 0.1mm | | |
| Ring End Gap Top / 2nd / 3rd | 0.15 ~ 0.35mm / 0.15 ~ 0.35mm / ∅ | | |
| Valve Clearance (Cold) Intake / Exhaust | ∅ | | |
| Oil Pressure Hot / rpm | ∅ | | |
| Oiling System | Autolube | | |
| Capacity: Dry | 0.3 Lit. | | |
| Oil and Filter Change | ∅ | | |
| Oil Change | ∅ | | |
| Lubricant: Temp. Above 5°C (40°F) | Yamalube R* | | |
| Temp. Below 15°C (60°F) | Yamalube R* | | |
| AUTOLUBE - Min Stroke / Color Code | 0.25 ~ 0.30 / Yellow | | |
| Minimum Output @ 200 Cycles | ∅ | | |
| Maximum Output @ 200 Cycles | ∅ | | |
| CARBURETOR - Mfr. / Type / I.D. Number | Mikuni / VM12SC / 4X4-00 | | |
| Main Jet / Pilot Jet | 70 / 40 | | |
| Needle Jet / Jet Needle-Clip Position | E-2 / 3X1-2 | | |
| Slide Cutaway or Throttle Valve | 4.0 | | |
| Float Level / Fuel Level | 16.5 ± 1.0mm / 22.0mm | | |
| Idle rpm | 1700 | | |
| Max CO* / Max HC* / Set CO | ∅ | | |
| SUSPENSION | | | |
| Front Forks: Oil Type / Level / Qty | ∅ / ∅ / ∅ | | |
| Gas Pressure | ∅ | | |
| Spring Length Std | 115mm | | |
| Monoshock: Oil Type / Qty | ∅ | | |
| Gas Pressure | ∅ | | |
| Minimum Brake Lining Thickness | Front: 1.5mm Rear: 1.5mm | | |
| Tire Size (Nominal Pressure) | F:2.50-10 (1.0 kg/cm ²) R:2.50-10 (1.0 kg/cm ²) | | |
| TRANSMISSION • Oil Type/Qty Chg/Qty Reassemble | SAE 10W30 SE / 300cc / 350cc | | |
| Primary Drive Type / Teeth / Ratio | Spur Gear / 63-33 / 1.909 | | |
| Secondary Drive Type / Teeth / Chain | Shaft Drive / ∅ / ∅ | | |
| Clutch Friction Plate Thickness Std ~ Min | ∅ (Centrifugal Shoe Type) | | |
| Clutch Spring Length Std ~ Min | ∅ | | |
| Middle Gear Case Capacity | ∅ | | |
| Final Gear Case Capacity | Grease: Approx. 10g | | |
| Gear Case Lubricant: Temp. Above 5°C (40°F) | ∅ | | |
| Temp. Below 15°C (60°F) | ∅ | | |
| All Weather Conditions | Wheel Bearing Grease | | |

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|--|-------------------------------------|
| CHARGING SYSTEM | ∅ |
| 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 | 0.94mm BTDC (16° BTDC @ 5000 rpm) |
| Spark Plug Type | NGK BP4HS or Nippon Denso W14-FPL |
| Spark Plug Gap / Torque / Cap Ω | 0.7 ~ 0.8mm / 2.0 m·kg / 5K Ω ± 20% |
| Point Gap / Condenser Capacitance | ∅ / ∅ |
| TROUBLESHOOTING | |
| Ignition Coil Test Gap / Primary Ω / Secondary Ω | 7mm / 1.6 Ω ± 10% / 6.6K Ω ± 20% |
| Pulser Coil or Pickup Coil Color Code / Ω | Wht-Red ~ Blk / 20 Ω ± 20% |
| Source Coil Color Code / Ω | Blk-Red ~ 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 | 12 x 1.25: 6.0 m·kg |
| Rear Axle Pinch Bolt | ∅ |
| Clutch Nut | ∅ |
| Drain Plug | ∅ |
| Cylinder Head Cover | ∅ |
| Cylinder Head: | 6 x 1.25: 1.0 m·kg |
| Engine Mounting Bolts: Front | 10 x 1.25: 5.0 m·kg |
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∅ = 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-11626-03-10 LIT-11666-02-49 | Same as PW50H |