

YZ50G 1980 SERVICE DATA

MODEL – IBM I.D. NUMBER	YZ50G	3R0
Initial Engine Number/Frame Number	3R-000101 / 3R0-000101	
Basic Color(s)	Competition Yellow	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Premium / 3.0 Lit. (0.79 Gal.) / ϕ	
Dry Vehicle Weight	50 kg (110 lb.)	
ENGINE TYPE	2-Stroke, Air Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	40mm / 39.7mm / 1 / 49cc	
Compression Ratio/Compression Pressure min ~ max	7.8:1 / ϕ	
Piston Skirt Clearance new/max.	0.035 ~ 0.040mm / 0.1mm	
Ring End Gap top/2nd/3rd	0.15 ~ 0.35mm / 0.15 ~ 0.35mm	
Valve Clearance (cold) Intake/Exhaust	ϕ	
Oil Pressure hot/rpm	ϕ	
Oiling System	Pre-mix (20:1)	
Capacity: Dry	ϕ	
Oil and Filter Change	ϕ	
Oil Change	ϕ	
Lubricant: Temp above 5°C (40°F)	Yamalube R*	
Below 15°C (60°F)	Yamalube R*	
AUTOLUBE – Min. Stroke/Color Code	ϕ	
Minimum Output @ 200 cycles	ϕ	
Maximum Output @ 200 cycles	ϕ	
CARBURETOR – Mfr./Type/I.D. Number	Mikuni / VM20SH / 3R0-00	
Main Jet/Pilot Jet	170 / 27.5	
Needle Jet/Jet Needle-Clip Position	N-8 / 4J13-3	
Slide Cutaway or Throttle Valve	1.5	
Float Level	21mm \pm 1mm	
Idle RPM	ϕ	
CO % @ Idle (Diagnostic Use Only)	ϕ	
SUSPENSION		
Front Forks: Oil Type/Level/Qty.	20 Wt. Fork Oil* / ϕ / 60cc	
Gas Pressure	ϕ	
Spring Length Std.	417.9mm	
Monoshock: Oil Type/Qty.	Not Rebuildable	
Gas Pressure	20 kg/cm ²	
Minimum Brake Lining Thickness	Front: 1.5mm Rear: 1.5mm	
Tire Size (Nominal Pressure)	F: 2.50-14 (psi Opt.) R: 3.00-12 (psi Opt.)	
TRANSMISSION – Oil Type/Qty Chg/Qty Reassemble	SAE 10W 30SE / 650cc / 700cc	
Primary Drive Type/Teeth/Ratio	Helical Gear / 68-19 / 3.578	
Secondary Drive Type/Teeth/Chain	Chain / 43-12 / DK420-90L	
Clutch Friction Plate Thickness Std ~ min.	3.5 ~ 3.2mm	
Clutch Spring Length Std ~ min.	31.5 ~ 30.5mm	
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	Flywheel Magneto
Ignition Timing	1.8mm BTDC
Spark Plug Type	NGK B9ES
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.8mm / 2.5 m·kg / φ
Point Gap / Condenser Capacitance	0.35 ± 0.05mm / 0.25 μf ± 15%
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 15% / 5.9K Ω ± 15%
Pulse Coil or Pick-up Coil Color Code / Ω	φ
Source Coil Color Code / Ω	Brn-Wht ~ Blk / 1.12 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: 3.5 m·kg
Front Axle Holder Nut	φ
Rear Axle Nut	12 x 1.25: 4.0 m·kg
Rear Axle Pinch Bolt	φ
Clutch Nut	12 x 1.0: 6.0 m·kg
Drain Plug	12 x 1.5: 2.5 m·kg
Cylinder Head Cover	φ
Cylinder Head:	6 x 1.0: 1.0 m·kg
Engine Mounting Bolts:	
Front Upper	8 x 1.25: 2.4 m·kg
Rear Upper	8 x 1.25: 2.4 m·kg
Rear Lower	8 x 1.25: 2.4 m·kg

φ Does Not Apply to This Model

* Available From Yamaha Parts Distributors, Inc.