

YZ250G

1980 SERVICE DATA

MODEL – IBM I.D. NUMBER	YZ250G	3R4
Initial Engine Number/Frame Number	3R4-000101 / 3R4-000101	
Basic Color(s)	Competition Yellow	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Premium / 7.6 Lit. (2 Gal.) / ϕ	
Dry Vehicle Weight	97 kg (214 lbs.)	
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	70mm / 64mm / 1 / 246cc	
Compression Ratio/Compression Pressure min ~ max	8.1:1 / ϕ	
Piston Skirt Clearance new/max.	0.045 ~ 0.050mm / 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	Premix (32:1 with Yamalube R)	
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 / VM38SS / 3R400	
Main Jet/Pilot Jet	370 / 60	
Needle Jet/Jet Needle-Clip Position	P-8 / 6F16-3	
Slide Cutaway or Throttle Valve	3.0	
Float Level	27.0 ± 1.0mm	
Idle RPM	ϕ	
CO % @ Idle (Diagnostic Use Only)	ϕ	
SUSPENSION		
Front Forks: Oil Type/Level/Qty.	10 Wt. Fork Oil / ϕ / 414cc	
Gas Pressure	0 kg/cm ²	
Spring Length Std.	608mm	
Monoshock: Oil Type/Qty.	Not Rebuildable	
Gas Pressure	15 kg/cm ² (213 lbs.)	
Minimum Brake Lining Thickness	Front: 2mm	Rear: 2mm
Tire Size (Nominal Pressure)	F:3.00-21 (psi: Optional) R:5.10-18 (psi: Optional)	
TRANSMISSION – Oil Type/Qty Chg/Qty Reassemble	SAE 10W30 SE / 750cc / 800cc	
Primary Drive Type/Teeth/Ratio	Helical Gear / 63-24 / 2.625	
Secondary Drive Type/Teeth/Chain	Chain / 48-14 / DK520DS-106L	
Clutch Friction Plate Thickness Std ~ min.	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ min.	36.0 ~ 35.0mm	
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	0.6 ± 0.1mm BTDC
Spark Plug Type	Champion N-2G
Spark Plug Gap / Torque / Cap Ω	0.46 ~ 0.58mm / 2.2 m-kG / φ
Point Gap / Condenser Capacitance	φ / φ
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 0.6 Ω ± 10% / 6.2K Ω ± 20%
Pulse Coil or Pick-up Coil Color Code / Ω	Red-Wht ~ Red / 500 Ω ± 10%
Source Coil Color Code / Ω	Lo:Brn~Red / 1437 Ω ± 10% Hi:R~Wht-Red 500 Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	φ
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	φ
TORQUE VALUES	
Front Axle Nut	15 x 1.5: 5.8 m-kG
Front Axle Holder Nut	8 x 1.25:2.0 m-kG
Rear Axle Nut	16 x 1.5: 7.8 m-kG
Rear Axle Pinch Bolt	φ
Clutch Nut	20 x 1.0:7.5 m-kG
Drain Plug	14 x 1.25: 2.5 m-kG
Cylinder Head Cover	φ
Cylinder Head:	10 x 1.25:3.3 m-kG
Engine Mounting Bolts:	
Front Upper	8 x 1.25: 3.0 m-kG
Front Lower	8 x 1.25: 3.0 m-kG
Front Stay	8 x 1.25: 1.6 m-kG
Rear	10 x 1.25: 6.4 m-kG
Rear Stay	8 x 1.25: 1.6 m-kG

φ Does Not Apply to This Model

* Available From Yamaha Parts Distributors, Inc.