

YZ80G

1980 SERVICE DATA

MODEL – IBM I.D. NUMBER	YZ80G	3R1
Initial Engine Number/Frame Number	3R1-000101 / 3R1-000101	
Basic Color(s)	Competition Yellow	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Premium 4.7 Lit. (1.2 Gals.) / ϕ	
Dry Vehicle Weight	62 kg (137 lbs.)	
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	49mm / 42mm / 1 / 79cc	
Compression Ratio/Compression Pressure min ~ max	8.1:1 / ϕ	
Piston Skirt Clearance new/max.	0.035 ~ 0.040mm / 0.1mm	
Ring End Gap top/2nd/3rd	0.2 ~ 0.4mm / ϕ / ϕ	
Valve Clearance (cold) Intake/Exhaust	ϕ	
Oil Pressure hot/rpm	ϕ	
Oiling System	Premix (Ratio 32:1)	
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 / VM26SS / 3R100	
Main Jet/Pilot Jet	210 / 35	
Needle Jet/Jet Needle-Clip Position	0-0 / 4J13-3	
Slide Cutaway or Throttle Valve	1.5	
Float Level	21 ± 1mm	
Idle RPM	ϕ	
CO % @ Idle (Diagnostic Use Only)	ϕ	
SUSPENSION		
Front Forks: Oil Type/Level/Qty.	10 Wt. Fork Oil* / ϕ / 150cc	
Gas Pressure	ϕ	
Spring Length Std.	541.7mm	
Monoshock: Oil Type/Qty.	Not Rebuildable	
Gas Pressure	17 kg / cm ²	
Minimum Brake Lining Thickness	Front: 1.5mm	Rear: 2mm
Tire Size (Nominal Pressure)	F:2.75-17 (1.0kg/cm ² / 14 psi) R:3.60-14 (1.0 kg/cm ² / 14 psi)	
TRANSMISSION – Oil Type/Qty Chg/Qty Reassemble	SAE 10W30 SE / 650cc / 700cc	
Primary Drive Type/Teeth/Ratio	Helical Gear / 66-21 / 3.143	
Secondary Drive Type/Teeth/Chain	Chain / 51-14 / DID428-108L	
Clutch Friction Plate Thickness Std ~ min.	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ min.	34.0 ~ 33.0mm	
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	1.0mm BTDC
Spark Plug Type	Champion N-2 or NGK B8ES
Spark Plug Gap / Torque / Cap Ω	0.7 ~ 0.8mm / 2.5 m-kG / 0 Ω
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:Red ~ Wht-Red / 500 Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	ϕ
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	ϕ
TORQUE VALUES	
Front Axle Nut	12 x 1.25: 7.4 m-kG
Front Axle Holder Nut	ϕ
Rear Axle Nut	12 x 1.25: 7.4 m-kG
Rear Axle Pinch Bolt	ϕ
Clutch Nut	12 x 1.0: 5.0 m-kG
Drain Plug	12 x 1.5: 2.0 m-kG
Cylinder Head Cover	ϕ
Cylinder Head:	7 x 1.0: 1.5 m-kG
Engine Mounting Bolts:	
Front, Upper	8 x 1.25: 3.5 m-kG
Rear, Upper	8 x 1.25: 3.5 m-kG
Rear, Lower	8 x 1.25: 3.5 m-kG

ϕ Does Not Apply to This Model

* Available From Yamaha Parts Distributors, Inc.