

YZ100G

1980 SERVICE DATA

MODEL - IBM I.D. NUMBER	YZ100G	3R2
Initial Engine Number / Frame Number	3R2-000101 / 3R2-000101	
Basic Color(s)	Competition Yellow	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Premium / 5.2 Lit. (1.37 Gal.) / ∅	
Dry Vehicle Weight	84 kg (185 lbs.)	
ENGINE TYPE	2-Stroke, Air Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	50mm / 50mm / 1 / 98cc	
Compression Ratio/Compression Pressure Min~Max	8.4:1 / ∅	
Piston Skirt Clearance New/Max	0.040 ~ 0.045mm / 0.1mm	
Ring End Gap Top / 2nd / 3rd	0.20 ~ 0.40mm / ∅ / ∅	
Valve Clearance (Cold) Intake/Exhaust	∅	
Oil Pressure Hot/rpm	∅	
Oiling System	Premix (32:1) Yamalube R*	
Capacity: Dry	∅	
Oil and Filter Change	∅	
Oil Change	∅	
Lubricant: Temp. above 5°C (40°F)	Yamalube R*	
Below 15°C (60°F)	Yamalube R*	
AUTOLUBE - Min. Stroke / Color Code	∅	
Minimum Output @ 200 Cycles	∅	
Maximum Output @ 200 Cycles	∅	
CARBURETOR - Mfr./Type/I.D. Number	Mikuni / VM30SS / ∅ / 3R2-00	
Main Jet / Pilot Jet	210 / 40	
Needle Jet / Jet Needle-Clip Position	Q-2 / 6DP10-2	
Slide Cutaway or Throttle Valve	2.5	
Float Level	16.4 ± 1mm	
Idle rpm	∅	
CO % @ Idle (Diagnostic Use Only)	∅	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	15 Wt. Fork Oil* / ∅ / 262cc	
Gas Pressure	0 kg/cm ²	
Spring Length Std.	496.5mm	
Monoshock: Oil Type / Qty	Not Rebuildable	
Gas Pressure	14 kg/cm ² (199 psi)	
Minimum Brake Lining Thickness	Front: 2mm Rear: 2mm	
Tire Size (Nominal Pressure)	F:3.00-21 (psi - Opt.) R:4.10-18 (psi - Opt.)	
TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble	SAE 10W30 SE / 650cc / 750cc	
Primary Drive Type / Teeth / Ratio	Helical Gear / 74-19 / 3.895	
Secondary Drive Type / Teeth / Chain	Chain Drive / 42-12 / DK520TR-100L	
Clutch Friction Plate Thickness Std ~ Min.	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ Min.	36.0 ~ 35.0mm	
Middle Gear Case Capacity	∅	
Final Gear Case Capacity	∅	
Gear Case Lubricant: Temp above 5°C (40°F)	∅	
Temp below 15°C (60°F)	∅	
All Weather Conditions	∅	

CHARGING SYSTEM	Flywheel Magneto
Battery: Model / Spec. Grav. / Chg. Rate	∅
Maximum Output	∅
TROUBLESHOOTING	
Field Coil Color Code / Ω	∅
Charge Coil Color Code / Ω	∅
IGNITION SYSTEM	Capacitor Discharge Ignition
Ignition Timing	0.8mm BTDC
Spark Plug Type	Champion N-59G
Spark Plug Gap / Torque / Cap Ω	0.5 ~ 0.6mm / 2.5 m-kG / ∅
Point Gap / Condenser Capacitance	∅ / ∅
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 0.6 Ω ± 10% / 6.2K Ω ± 10%
Pulser Coil or Pick-up Coil Color Code / Ω	Red ~ Wht-Red / 500 Ω ± 10%
Source Coil Color Code / Ω	Low: Red ~ Brn / 1440 Ω ± 10% High: Red ~ Wht-Red 500 Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	∅
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	∅
TORQUE VALUES	
Front Axle Nut	10 x 1.25: 4.9 m-kG
Front Axle Holder Nut	∅
Rear Axle Nut	14 x 1.5: 8.5 m-kG
Rear Axle Pinch Bolt	∅
Clutch Nut	12 x 1.0: 5.5 m-kG Use Lock Washer
Drain Plug	14 x 1.25: 2.0 m-kG Use Lock Washer
Cylinder Head Cover	∅
Cylinder Head:	Nut 8 x 1.25: 2.5 m-kG
	Stud 8 x 1.25: 2.4 m-kG
Engine Mounting Bolts: Front, Upper	8 x 1.25: 3.0 m-kG
Rear, Upper	8 x 1.25: 3.0 m-kG
Rear, Lower	10 x 1.25: 4.9 m-kG

∅ Does Not Apply To This Model

*Available From Yamaha Parts Distributors, Inc.