

YZ100H

1981 SERVICE DATA

MODEL - IBM I.D. NUMBER	YZ100H	3R2
Initial Engine Number / Frame Number	3R2-020101 / 3R2-020101	
Basic Color(s)	Competition Yellow	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Premium / 5.0 Lit. (1.3 Gal.) / ∅	
Dry Vehicle Weight	84 kg (185 lbs.)	
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valves	
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 16:1 Using Yamalube R*	
Capacity: Dry	∅	
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	∅	
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 / Fuel Level	16.4mm ± 1mm / NA	
Idle rpm	∅	
Max CO* / Max HC* / Set CO	∅	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / ∅ / 258cc	
Gas Pressure	0 kg/cm ²	
Spring Length Std	496.5mm	
Monoshock: Oil Type / Qty	Not Rebuildable	
Gas Pressure	12 kg/cm ² (171 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 / 42-12 / DK520TR-100L	
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ Min	38.0 ~ 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 / Specific Gravity / Charge Rate	∅
Maximum Output	∅
TROUBLESHOOTING	
Field Coil Color Code / Ω	∅
Charge Coil Color Code / Ω	∅
IGNITION SYSTEM	Capacitor-Discharge Ignition
Ignition Timing	0.8mm BTDC
Spark Plug Type	Champion N-59G
Spark Plug Gap / Torque / Cap Ω	0.5mm ~ 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 Pickup Coil Color Code / Ω	Red ~ Wht-Red / 500 Ω ± 10%
Source Coil Color Code / Ω	Lx:Red~Bm / 1440 Ω ± 10% H: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

NA = Information Not Available

*Available From Yamaha Parts Distributors Inc.

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