

YZ250H

1981 SERVICE DATA

MODEL - IBM I.D. NUMBER	YZ250H	4V3
Initial Engine Number / Frame Number	4V3-000101 / 4V3-000101	
Basic Color(s)	Competition Yellow	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Premium / 7.6 Lit. (2 Gal.) / ∅	
Dry Vehicle Weight	99 kg (218 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	7.9:1 / ∅	
Piston Skirt Clearance New / Max	0.055 ~ 0.060mm / 0.1mm	
Ring End Gap Top / 2nd / 3rd	0.3 ~ 0.5mm / 0.3 ~ 0.5mm / ∅	
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 / VM38SS / 4V3-00	
Main Jet / Pilot Jet	380 / 80	
Needle Jet / Jet Needle-Clip Position	Q-Q / 6F16-4	
Slide Cutaway or Throttle Valve	3.0	
Float Level / Fuel Level	27.0mm / 33.0 ± 1.0mm	
Idle rpm	∅	
Max CO* / Max HC* / Set CO	∅	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / 150mm With Forks Corr	
Gas Pressure	0 kg/cm ² (14.2 psi)	
Spring Length Std	553mm	
Monoshock: Oil Type / Qty	Not Rebuildable	
Gas Pressure	15 kg/cm ² (213 psi)	
Minimum Brake Lining Thickness	Front: 2.0mm Rear: 2.0mm	
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 / 800cc / 850cc	
Primary Drive Type / Teeth / Ratio	Helical Gear / 63-24 / 2.625	
Secondary Drive Type / Teeth / Chain	Chain / 48-14 / DK520DS-110L	
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ Min	36.4 ~ 35.4mm	
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	0.6 ± 0.1mm BTDC
Spark Plug Type	Champion N2G
Spark Plug Gap / Torque / Cap Ω	0.46 ~ 0.58mm / 2.2 m-kG / ∅
Point Gap / Condenser Capacitance	∅ / ∅
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 0.6 Ω ± 10% / 6.2K Ω ± 20%
Pulser Coil or Pickup Coil Color Code / Ω	Red-Wht ~ Red / 500 Ω ± 10%
Source Coil Color Code / Ω	Lo.Brn~Red/1437Ω ± 10% Hi:Red~Wht-Red/500Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	∅
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	∅
TORQUE VALUES	
Front Axle Bolt	14 x 1.50: 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	∅
Clutch Nut	20 x 1.0: 7.5 m-kG
Drain Plug	14 x 1.25: 2.5 m-kG
Cylinder Head Cover	∅
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: 3.0 m-kG
Rear	10 x 1.25: 6.4 m-kG
Rear, Stay	8 x 1.25: 2.3 m-kG

∅ = Does Not Apply To This Model

NA = Information Not Available

* Available From Yamaha Parts Distributors Inc.

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