

# YZ125H

## 1981 SERVICE DATA

<b>MODEL - IBM I.D. NUMBER</b>	YZ125H	4V2
Initial Engine Number / Frame Number	4V2-000101 / 4V2-000101	
Basic Color(s)	Competition Yellow	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Premium / 6.5 Lit. (1.7 Gal.) / ∅	
Dry Vehicle Weight	NA	
<b>ENGINE TYPE</b>	2-Stroke, Liquid-Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	56mm / 50mm / 1 / 123cc	
Compression Ratio/Compression Pressure Min~Max	8.1:1 / ∅	
Piston Skirt Clearance New / Max	0.060 ~ 0.065mm / 0.1mm	
Ring End Gap Top / 2nd / 3rd	0.30 ~ 0.50mm / ∅ / ∅	
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*	
<b>AUTOLUBE - Min Stroke / Color Code</b>	∅	
Minimum Output @ 200 Cycles	∅	
Maximum Output @ 200 Cycles	∅	
<b>CARBURETOR - Mfr. / Type / I.D. Number</b>	Mikuni / VM34SS / 4V2-10	
Main Jet / Pilot Jet	340 / 80	
Needle Jet / Jet Needle-Clip Position	P-8 / 6F21-4	
Slide Cutaway or Throttle Valve	2.5	
Float Level / Fuel Level	23.5 ± 1.0mm / 36.5 ± 1.0mm	
Idle rpm	∅	
Max CO <sup>∅</sup> / Max HC <sup>∅</sup> / Set CO	∅	
<b>SUSPENSION</b>		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / 200mm With Forks Compres	
Gas Pressure	0 kg/cm <sup>2</sup> (14.2 psi)	
Spring Length Std	658mm	
Monoshock: Oil Type / Qty	Not Rebuildable	
Gas Pressure	15 kg/cm <sup>2</sup> (213 psi)	
Minimum Brake Lining Thickness	Front: 2.0mm      Rear: 2.0mm	
Tire Size (Nominal Pressure)	F:3.00-21 (psi Optional) R:4.10-18 (psi Optional)	
<b>TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble</b>	SAE 10W30 SE / 750cc / 800cc	
Primary Drive Type / Teeth / Ratio	Helical Gear / 62-18 / 3.444	
Secondary Drive Type / Teeth / Chain	Chain / 48-12 / DK520DS-104L	
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ Min	36mm ~ 35mm	
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	∅	

<b>CHARGING SYSTEM</b>	Flywheel Magneto
Battery: Model / Specific Gravity / Charge Rate	∅
Maximum Output	∅
<b>TROUBLESHOOTING</b>	
Field Coil Color Code / Ω	∅
Charge Coil Color Code / Ω	∅
<b>IGNITION SYSTEM</b>	Capacitor-Discharge Ignition
Ignition Timing	2.27mm BTDC
Spark Plug Type	Champion N-2G
Spark Plug Gap / Torque / Cap Ω	0.7mm / 2.5 m-kg / 0 Ω
Point Gap / Condenser Capacitance	∅ / ∅
<b>TROUBLESHOOTING</b>	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 0.60 Ω ± 10% / 6.2K Ω ± 20%
Pulser Coil or Pickup Coil Color Code / Ω	Red ~ Wht-Red / 270 Ω ± 10%
Source Coil Color Code / Ω	Brn ~ Red / 1437 Ω ± 10%
<b>LIGHTING SYSTEM</b>	
Headlight / Taillight / Signal Rating	∅
<b>TROUBLESHOOTING</b>	
Lighting Coil Color Code / Ω	∅
<b>TORQUE VALUES</b>	
Front Axle Nut	14 x 1.5: 8.5 m-kg
Front Axle Holder Nut	8 x 1.25: 1.0 m-kg
Rear Axle Nut	14 x 1.5: 8.5 m-kg
Rear Axle Pinch Bolt	∅
Clutch Nut	14 x 1.5: 5.0 m-kg Use Lock Washer
Drain Plug	14 x 1.25: 2.5 m-kg
Cylinder Head Cover	∅
Cylinder Head:	Nut 8 x 1.25: 3.0 m-kg Stud 8 x 1.25: 2.5 m-kg
Engine Mounting Bolts: Front, Upper	8 x 1.25: 3.0 m-kg
Rear, Lower	8 x 1.25: 3.0 m-kg
Front, Stay	8 x 1.25: 3.0 m-kg
Pivot Shaft	16 x 1.50: 8.5 m-kg

∅ = Does Not Apply To This Model

NA = Information Not Available

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