

IT125H

1981 SERVICE DATA

MODEL - IBM I.D. NUMBER	IT125H	3R9
Initial Engine Number / Frame Number	3R9-050101 / 3R9-050101	
Basic Color(s)	White	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Premium / 8.5 Lit. (2.2 Gal.) / 1.3 Lit. (1.4 Qt.)	
Dry Vehicle Weight	92 kg (203 lbs.)	
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement	56mm / 50mm / 1 / 123cc	
Compression Ratio/Compression Pressure Min~Max	8.1:1 / \emptyset	
Piston Skirt Clearance New / Max	0.045 ~ 0.050mm / \emptyset	
Ring End Gap Top / 2nd / 3rd	0.3 ~ 0.5mm / 0.3 ~ 0.5mm / \emptyset	
Valve Clearance (Cold) Intake / Exhaust	\emptyset	
Oil Pressure Hot / rpm	\emptyset	
Oiling System	Premix (16:1 Using Yamalube R*)	
Capacity: Dry	\emptyset	
Oil and Filter Change	\emptyset	
Oil Change	\emptyset	
Lubricant: Temp. Above 5°C (40°F)	Yamalube R*	
Temp. Below 15°C (60°F)	Yamalube R*	
AUTOLUBE - Min. Stroke / Color Code	\emptyset	
Minimum Output @ 200 Cycles	\emptyset	
Maximum Output @ 200 Cycles	\emptyset	
CARBURETOR - Mfr. / Type / I.D. Number	Mikuni / VM30SS / 3R9-00	
Main Jet / Pilot Jet	200 / 35	
Needle Jet / Jet Needle-Clip Position	P-4 / 6DP19-2	
Slide Cutaway or Throttle Valve	2.0	
Float Level / Fuel Level	16.4 ± 1.0mm / NA	
Idle rpm	\emptyset	
Max CO* / Max HC* / Set CO	\emptyset	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / \emptyset / 258cc	
Gas Pressure	0 kg/cm ²	
Spring Length Std	541.5mm	
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 / 71-22 / 3.277	
Secondary Drive Type / Teeth / Chain	Chain Drive / 46-12 / DK520DS-100L	
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ Min	34 ~ 33mm	
Middle Gear Case Capacity	\emptyset	
Final Gear Case Capacity	\emptyset	
Gear Case Lubricant: Temp. Above 5°C (40°F)	\emptyset	
Temp. Below 15°C (60°F)	\emptyset	
All Weather Conditions	\emptyset	

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	1.5mm BTDC
Spark Plug Type	Champion N-2G
Spark Plug Gap / Torque / Cap Ω	0.44 ~ 0.58mm / 2.5 m-kg / ∅
Point Gap / Condenser Capacitance	∅ / ∅
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 10% / 5.9K Ω ± 20%
Pulser Coil or Pickup Coil Color Code / Ω	Wht-Red ~ Blk / 12.4 Ω ± 10%
Source Coil Color Code / Ω	Lr: Brn ~ Blk / 420 Ω ± 10% Hr: Red ~ Blk / 13.6 Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V25-25W / 6V5W / ∅
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel-Red ~ Blk / 0.48 Ω ± 10%
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	14 x 1.0: 5.5 m-kg
Drain Plug	14 x 1.25: 2.0 m-kg
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	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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