

IT250G

1980 SERVICE DATA

MODEL – IBM I.D. NUMBER	IT250G	3R7
Initial Engine Number/Frame Number	3R7-000101 / 3R7-000101	
Basic Color(s)	Sky Blue	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Premium / 12 Lit. (3.2 Gal.) / ϕ	
Dry Vehicle Weight	109 kg (240 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 / N/A	
Piston Skirt Clearance new/max.	0.045 ~ 0.050mm / 0.1mm	
Ring End Gap Top/2nd/3rd	0.3 ~ 0.5mm / 0.3 ~ 0.5mm / ϕ	
Valve Clearance (cold) Intake/Exhaust	ϕ	
Oil Pressure Hot/rpm	ϕ	
Oiling System	Premix (32:1 with Yamalube R)	
Capacity: Dry	ϕ	
Oil and Filter Change	ϕ	
Oil Change	ϕ	
Lubricant: Temp above 5°C (40°F)	Yamalube R*	
Below 15°C (60°F)	Yamalube R*	
AUTOLUBE – Min. Stroke/Color Code	ϕ	
Minimum Output @ 200 cycles	ϕ	
Maximum Output @ 200 cycles	ϕ	
CARBURETOR – Mfr./Type/I.D. Number	Mikuni / VM36SS / 3R700	
Main Jet/Pilot Jet	400 / 70	
Needle Jet/Jet Needle-Clip Position	P-4 / 6F15-2	
Slide Cutaway or Throttle Valve	2.0	
Float Level	18.1 ± 1mm	
Idle rpm	ϕ	
CO % @ Idle (Diagnostic Use Only)	ϕ	
SUSPENSION		
Front Forks: Oil Type/Level/Qty.	10 Wt. Fork Oil* / ϕ / 326cc	
Gas Pressure	ϕ	
Spring Length Std.	593.5mm	
Monoshock: Oil Type/Qty.	Not Rebuildable	
Gas Pressure	15 kg/cm ² (213 psi)	
Minimum Brake Lining Thickness	Front: 2mm Rear: 2mm	
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 / 60-23 / 2.608	
Secondary Drive Type/Teeth/Chain	Chain Drive / 48-13 / DK520DS-102L	
Clutch Friction Plate Thickness Std ~ Min.	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ Min.	34.8 ~ 33.8mm	
Middle Gear Case Capacity	ϕ	
Final Gear Case Capacity	ϕ	
Gear Case Lubricant: Temp above 5°C (40°F)	ϕ	
Temp below 15°C (60°F)	ϕ	
All Weather Conditions	ϕ	

CHARGING SYSTEM	Flywheel Magneto
Battery: Model / Spec. Grav. / Chg. Rate	ϕ
Maximum Output	ϕ
TROUBLESHOOTING	
Field Coil Color Code / Ω	ϕ
Charge Coil Color Code / Ω	ϕ
IGNITION SYSTEM	Capacitor Discharge Ignition
Ignition Timing	2.4mm BTDC
Spark Plug Type	Champion N-2G
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.7mm / 2.2 m-kg / ϕ
Point Gap / Condenser Capacitance	ϕ / ϕ
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 $\Omega \pm 10\%$ / 5.9K $\Omega \pm 10\%$
Pulse Coil or Pick-up Coil Color Code / Ω	Wht-Red ~ Blk / 7.5 $\Omega \pm 10\%$
Source Coil Color Code / Ω	Low: Brn ~ Blk / 370 $\Omega \pm 10\%$ High: Red ~ Blu / 35 $\Omega \pm 10\%$
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V25-25W / 6V5.3W / ϕ
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel-Red ~ Blk / 0.43 $\Omega \pm 10\%$
TORQUE VALUES	
Front Axle Nut	15 x 1.5: 5.8 m-kg
Front Axle Holder Nut	ϕ
Rear Axle Nut	16 x 1.5: 7.8 m-kg
Rear Axle Pinch Bolt	ϕ
Clutch Nut	20 x 1.0: 7.5 m-kg
Drain Plug	14 x 1.25: 2.0 m-kg
Cylinder Head Cover	ϕ
Cylinder Head:	8 x 1.25: 2.5 m-kg
Engine Mounting Bolts: Front, Upper	8 x 1.25: 2.4 m-kg
Front, Lower	8 x 1.25: 2.4 m-kg
Rear, Upper	8 x 1.25: 2.4 m-kg
Rear, Lower	8 x 1.25: 2.4 m-kg

ϕ Does Not Apply to This Model

* Available From Yamaha Parts Distributors, Inc.