

IT250J

1982 SERVICE DATA

MODEL - IBM I.D. NUMBER	IT250J	4V5
Initial Engine Number / Frame Number	4V5-020101 / 4V5-020101	
Basic Color(s)	Sky Blue	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Premium / 13 Lit. / \emptyset	
Dry Vehicle Weight	106 kg	
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	70mm / 64mm / 1 / 246cc	
Compression Ratio/Compression Pressure Min~Max	7.8:1 / NA	
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 / \emptyset	
Valve Clearance (Cold) Intake / Exhaust	\emptyset	
Oil Pressure Hot / rpm	\emptyset	
Oiling System	Premix 24:1 Using Yamalube R*	
Capacity: Dry	800cc	
Oil and Filter Change	\emptyset	
Oil Change	750cc	
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 / VM36SS / 4V5-00	
Main Jet / Pilot Jet	400 / 50	
Needle Jet / Jet Needle-Clip Position	N-8 / 6F34-3	
Slide Cutaway or Throttle Valve	2.0	
Float Level / Fuel Level	24.0 \pm 1mm / NA	
Idle rpm	\emptyset	
Max CO* / Max HC* / Set CO	\emptyset	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / \emptyset / 423cc	
Gas Pressure	0 kg/cm ²	
Spring Length Std	615mm	
Monoshock: Oil Type / Qty	Not Rebuildable	
Gas Pressure	15 kg/cm ²	
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 / 750cc / 800cc	
Primary Drive Type / Teeth / Ratio	Helical Gear / 63-24 / 2.625	
Secondary Drive Type / Teeth / Chain	Chain / 50-14 / DID520VS-108L	
Clutch Friction Plate Thickness Std ~ Min	3.0mm ~ 2.7mm	
Clutch Spring Length Std ~ Min	36.4 ~ 35.4mm	
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	1.65mm BTDC
Spark Plug Type	Champion N-2G
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.7mm / 2.5 m-kG / 0K Ω
Point Gap / Condenser Capacitance	∅ / ∅
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 10% / 5.9K Ω ± 10%
Pulser Coil or Pickup Coil Color Code / Ω	Wht-Red ~ Blk / 9.0 Ω ± 10%
Source Coil Color Code / Ω	Lo: Brn~Gry / 360Ω ± 10% HI: Red~Blue / 14Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V25-25W / 6V5.3W / ∅
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel-Red ~ Blk / 0.48Ω ± 10%
TORQUE VALUES	
Front Axle Nut	14 x 1.5: 6.0 m-kG
Front Axle Holder Nut	6 x 1.0: 1.0 m-kG
Rear Axle Nut	18 x 1.5: 10.0 m-kG
Rear Axle Pinch Bolt	∅
Clutch Nut	20 x 1.0: 7.5 m-kG
Drain Plug	14 x 1.25: 2.0 m-kG
Cylinder Head Cover	∅
Cylinder Head:	8 x 1.25: 2.5 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
Rear, Upper	10 x 1.25: 6.5 m-kG
Stay, Front Nut	8 x 1.25: 3.0 m-kG
Bolt	8 x 1.25: 1.5 m-kG

∅ = Does Not Apply To This Model
NA = Information Not Available

* Available From Yamaha Parts Distributors Inc.
• For Diagnostic Use Only

SERVICE LITERATURE

PUBLICATION	PART NUMBER	REMARKS
Owner's Manual Assembly Manual	LIT-11626-03-12 LIT-11666-03-12	Combined with IT465J Supp. to LIT-11666-03-31