

YZ100J

1982 SERVICE DATA

MODEL - IBM I.D. NUMBER	YZ100J	5X3
Initial Engine Number / Frame Number	5X3-000101 / 5X3-000101	
Basic Color(s)	Competition Yellow	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Premium / 8.2 Lit. / \emptyset	
Dry Vehicle Weight	87 kg	
ENGINE TYPE	2-Stroke, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	50mm / 50mm / 1 / 98cc	
Compression Ratio/Compression Pressure Min~Max	8.0:1 / \emptyset	
Piston Skirt Clearance New / Max	0.040 ~ 0.045mm / 0.1mm	
Ring End Gap Top / 2nd / 3rd	0.20 ~ 0.35mm / \emptyset / \emptyset	
Valve Clearance (Cold) Intake / Exhaust	\emptyset	
Oil Pressure Hot / rpm	\emptyset	
Oiling System	Premix 24:1 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*	
Cooling System / Capacity	Air / \emptyset	
Coolant / Mixing Ratio	\emptyset / \emptyset	
AUTOLUBE - Min Stroke / Color Code	\emptyset	
Minimum Output @ 200 Cycles	\emptyset	
Maximum Output @ 200 Cycles	\emptyset	
CARBURETOR - Mfr. / Type / I.D. Number	Mikuni / VM30SS / 5X3-00	
Main Jet / Pilot Jet	190 / 50	
Needle Jet / Jet Needle-Clip Position	Q-2 / 6DP10-2	
Slide Cutaway or Throttle Valve	2.5	
Float Level / Fuel Level	16.4mm \pm 1mm / NA	
Idle rpm	\emptyset	
Max CO* / Max HC* / Set CO	\emptyset	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / 170mm / 340cc	
Gas Pressure	0 kg/cm ²	
Spring Length Std	607.5mm	
Monoshock: Oil Type / Qty	Not Rebuildable	
Gas Pressure	15 kg/cm ²	
Minimum Brake Lining Thickness	Front: 2mm Rear: 2mm	
Tire Size (Nominal Pressure)	F:3.00-21 (1.0 kg/cm ²) R:4.10-18 (1.0 kg/cm ²)	
TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble	SAE 10W30 SE / 650cc / 750cc	
Primary Drive Type / Teeth / Ratio	Helical Gear / 62-18 / 3.44	
Secondary Drive Type / Teeth / Chain	Chain / 50-121 / DK520DS-106L	
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ Min	36.0 ~ 35.0mm	
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	0.8mm BTDC
Spark Plug Type	Champion N-84
Spark Plug Gap / Torque / Cap Ω	0.5mm ~ 0.6mm / 2.5 m·kg / ∅
Point Gap / Condenser Capacitance	∅ / ∅
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	5mm / 0.6 Ω ± 10% / 6.2K Ω ± 10%
Pulser Coil or Pickup Coil Color Code / Ω	Red ~ Wht-Red / 500 Ω ± 10%
Source Coil Color Code / Ω	Lo:Red~Brn/1440Ω ± 10% Hi:Red~Wht-Red/500Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	∅
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	∅
TORQUE VALUES	
Front Axle Nut	12 x 1.25: 7.4 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: 8.0 m·kg (Use Lock Washer)
Drain Plug	12 x 1.5: 2.0 m·kg (Use Lock Washer)
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
Rear, Upper	8 x 1.25: 3.0 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 / Service Manual Assembly Manual	LIT-11626-03-17 LIT-11666-03-17	Supp. to YZ/IT Basic Assembly Manual (03-31)