

YZ250F

1979 SERVICE DATA

MODEL – IBM I.D. NUMBER	YZ250F	2X4
Initial Engine Number/Frame Number	2X4-000101 / 2X4-000101	
Basic Color(s)	Competition Yellow	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Premium / 7.6 Lit. (2 Gal.) / ϕ	
Dry Vehicle Weight	99 kg (203 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 / ϕ	
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 (Ratio 20:1)	
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 / VM38SS / 2X400	
Main Jet/Pilot Jet	400 / 50	
Needle Jet/Jet Needle-Clip Position	Q-0 / 6F16-4	
Slide Cutaway or Throttle Valve	3.0	
Float Level	18.1 ± 1mm	
Idle RPM	ϕ	
CO % @ Idle (Diagnostic Use Only)	ϕ / ϕ	
SUSPENSION		
Front Forks: Oil Type/Level/Qty.	15 wt. Fork Oil* / ϕ / 364cc	
Gas Pressure	0.8 kg/cm ²	
Spring Length Std.	579mm	
Monoshock: Oil Type/Qty.	Not Rebuildable	
Gas Pressure	17 kg/cm ²	
Minimum Brake Lining Thickness	Front: 2mm	Rear: 2mm
Tire Size (Nominal Pressure)	F:3.00-21 (0.9 kg/cm ² / 13 psi) R:4.50-18 (1.0 kg/cm ² / 14 psi)	
TRANSMISSION – Oil Type/Qty Chg/Qty Reassemble	SAE 10W30 SE / 850cc / 850cc	
Primary Drive Type/Teeth/Ratio	Helical Gear / 60-23 / 2.608	
Secondary Drive Type/Teeth/Chain	Chain / 50-13 / DID520TR-108L	
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	

Service Copy: _____ Service Mgr. _____ Mechanic _____ Mechanic _____ Mechanic _____ Binder _____

Office Copy: _____ General Mgr. _____ Sales _____ Parts _____ Binder _____

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	1.37mm BTDC
Spark Plug Type	Champion N-2G
Spark Plug Gap / Torque / Cap Ω	0.5mm / 2.2 m-kG / ϕ
Point Gap / Condenser Capacitance	ϕ / ϕ
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 0.6 Ω ± 10% / 6.2K Ω ± 20%
Pulse Coil or Pick-up Coil Color Code / Ω	Red-Wht ~ Red / 500 Ω ± 10%
Source Coil Color Code / Ω	Lo:Brn ~ Red / 1437 Ω ± 10% Hi:Wht-Red ~ Red / 500 Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	ϕ
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	ϕ
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	Use Lock Washer
Drain Plug	14 x 1.25: 2.5 m-kG
Cylinder Head Cover	ϕ
Cylinder Head:	Nut 8 x 1.25: 2.5 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, Upper	8 x 1.25: 3.0 m-kG
Rear, Lower	8 x 1.25: 3.0 m-kG
Lower	8 x 1.25: 3.0 m-kG

ϕ Does Not Apply to This Model

* Available From Yamaha Parts Distributors, Inc.