

YZ400F

1979 SERVICE DATA

MODEL – IBM I.D. NUMBER	YZ400F 2X5
Initial Engine Number/Frame Number	2X5-000101 / 2X5-000101
Basic Color(s)	Competition Yellow
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Premium / 7.6 Lit. (2.0 Gal.) / ϕ
Dry Vehicle Weight	102 kg (225 lbs.)
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve
Bore/Stroke/Number Cylinders/Displacement (cc)	82mm / 75mm / 1 / 396
Compression Ratio/Compression Pressure min ~ max	7.4:1 / ϕ
Piston Skirt Clearance new/max.	0.050 ~ 0.055mm / 0.1mm
Ring End Gap top/2nd/3rd	0.40 ~ 0.55mm / 0.40 ~ 0.55mm / ϕ
Valve Clearance (cold) Intake/Exhaust	ϕ
Oil Pressure hot/rpm	ϕ
Oiling System	Premix (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 / 2X500
Main Jet/Pilot Jet	420 / 85
Needle Jet/Jet Needle-Clip Position	Q-4 / 6F8-2
Slide Cutaway or Throttle Valve	4.0
Float Level	18.1 ± 1mm
Idle RPM	ϕ
CO % @ Idle (Diagnostic Use Only)	ϕ
SUSPENSION	
Front Forks: Oil Type/Level/Qty.	15 wt. Fork Oil* / ϕ / 364cc
Gas Pressure	0.9 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 (psi opt.) R: 5.10-18 (psi opt.)
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 / 50-14 / DID520TR-108L
Clutch Friction Plate Thickness Std ~ min.	3.0 ~ 2.7mm
Clutch Spring Length Std ~ min.	36.0 ~ 35.0mm
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	3.1mm BTDC
Spark Plug Type	Champion N-3
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.7mm / 2.2 m-kg / φ
Point Gap / Condenser Capacitance	φ
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 10% / 5.9K Ω ± 10%
Pulse Coil or Pick-up Coil Color Code / Ω	Wht-Red ~ Blk / 4.0 Ω ± 10%
Source Coil Color Code / Ω	Brn ~ Blk / 250 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	www.legends-yamaha-enduros.com
Clutch Nut	20 x 1.0: 7.5 m-kg Use Lock Washer
Drain Plug	14 x 1.25: 2.5 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: 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.