

# YZ80F

## 1979 SERVICE DATA

<b>MODEL – IBM I.D. NUMBER</b>	YZ80F	2X6
Initial Engine Number/Frame Number	2X6-000101 / 2X6-000101	
Basic Color(s)	Competition Yellow	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Premium / 4.6 Lit. (1.2 Gal.) / $\phi$	
Dry Vehicle Weight	65 kg (143 lbs.)	
<b>ENGINE TYPE</b>	2-Stroke, Air-Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	49mm / 42mm / 1 / 79cc	
Compression Ratio/Compression Pressure min ~ max	7.0:1 / $\phi$	
Piston Skirt Clearance new/max.	0.035 ~ 0.040mm / 0.1mm	
Ring End Gap top/2nd/3rd	0.4 ~ 0.5mm / 0.4 ~ 0.5mm / $\phi$	
Valve Clearance (cold) Intake/Exhaust	$\phi$	
Oil Pressure hot/rpm	$\phi$	
Oiling System	Premix (Ratio 20:1)	
Capacity: Dry	$\phi$	
Oil and Filter Change	$\phi$	
Oil Change	$\phi$	
Lubricant: Temp above 5°C (40°F)	Yamalube R*	
Below 15°C (60°F)	Yamalube R*	
<b>AUTOLUBE – Min. Stroke/Color Code</b>	$\phi$	
Minimum Output @ 200 cycles	$\phi$	
Maximum Output @ 200 cycles	$\phi$	
<b>CARBURETOR – Mfr./Type/I.D. Number</b>	Mikuni / VM26SS / 2X6-60	
Main Jet/Pilot Jet	190 / 35	
Needle Jet/Jet Needle-Clip Position	0-0 / 4J13-4	
Slide Cutaway or Throttle Valve	1.5	
Float Level	21 ± 1mm	
Idle RPM	$\phi$	
CO % @ Idle (Diagnostic Use Only)	$\phi$ / $\phi$	
<b>SUSPENSION</b>		
Front Forks: Oil Type/Level/Qty.	20 wt. Fork Oil* / $\phi$ / 150cc	
Gas Pressure	$\phi$	
Spring Length Std.	515.2mm	
Monoshock: Oil Type/Qty.	Not Rebuildable	
Gas Pressure	14 kg/cm <sup>2</sup>	
Minimum Brake Lining Thickness	Front: 1.5mm	Rear: 2mm
Tire Size (Nominal Pressure)	F:2.50-16 (1.0 kg/cm <sup>2</sup> / 14 psi) R:3.60-14 (1.0 kg/cm <sup>2</sup> / 14 psi)	
<b>TRANSMISSION – Oil Type/Qty Chg/Qty Reassemble</b>	SAE 10W30 SE / 650cc / 700cc	
Primary Drive Type/Teeth/Ratio	Helical Gear / 66-21 / 3.143	
Secondary Drive Type/Teeth/Chain	Chain / 51-14 / DID428-108L	
Clutch Friction Plate Thickness Std ~ min.	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ min.	34.0 ~ 33.0mm	
Middle Gear Case Capacity	$\phi$	
Final Gear Case Capacity	$\phi$	
Gear Case Lubricant: Temp above 5°C (40°F)	$\phi$	
Temp below 15°C (60°F)	$\phi$	
All Weather Conditions	$\phi$	

<b>CHARGING SYSTEM</b>	Flywheel Magneto
Battery: Model / Spec. Grav. / Chg. Rate	ϕ
Maximum Output	ϕ
<b>TROUBLESHOOTING</b>	
Field Coil Color Code / Ω	ϕ
Charge Coil Color Code / Ω	ϕ
<b>IGNITION SYSTEM</b>	Capacitor Discharge Ignition
Ignition Timing	0.8mm BTDC
Spark Plug Type	Champion N-2 or NGK B8ES
Spark Plug Gap / Torque / Cap Ω	0.7 ~ 0.8mm / 2.3 m·kg / 5K Ω ± 20%
Point Gap / Condenser Capacitance	ϕ / ϕ
<b>TROUBLESHOOTING</b>	
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:Red ~ Wht-Red / 500 Ω ± 10%
<b>LIGHTING SYSTEM</b>	
Headlight / Taillight / Signal Rating	ϕ
<b>TROUBLESHOOTING</b>	
Lighting Coil Color Code / Ω	ϕ
<b>TORQUE VALUES</b>	
Front Axle Nut	12 x 1.25: 7.4 m·kg
Front Axle Holder Nut	ϕ
Rear Axle Nut	12 x 1.25: 7.4 m·kg
Rear Axle Pinch Bolt	ϕ
Clutch Nut	12 x 1.0: 5.0 m·kg Use Lock Washer
Drain Plug	12 x 1.5: 2.0 m·kg
Cylinder Head Cover	ϕ
Cylinder Head:	7 x 1.0: 1.4 m·kg
Engine Mounting Bolts: Front, Upper	8 x 1.25: 3.5 m·kg
Rear, Upper	8 x 1.25: 3.5 m·kg
Rear, Lower	8 x 1.25: 3.5 m·kg

ϕ Does Not Apply to This Model

\* Available From Yamaha Parts Distributors, Inc.