



IT175F 1979 SERVICE DATA

MOTORCYCLE
M8-039

MODEL – IBM I.D. NUMBER	IT175F	2W6
Initial Engine Number/Frame Number	2W6-000101 / 2W6-000101	
Basic Color(s)	Sky Blue	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Premium / 9.5 Lit. (2.5 Gal.) / 1.0 Lit. (0.3 Gal.)	
Dry Vehicle Weight	98 kg (216 lbs.)	
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	66mm / 50mm / 1 / 171cc	
Compression Ratio/Compression Pressure min ~ max	7.4:1 / ϕ	
Piston Skirt Clearance new/max.	0.040 ~ 0.045mm / 0.1mm	
Ring End Gap top/2nd/3rd	0.2 ~ 0.4mm / 0.2 ~ 0.4mm / 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 / VM34SS / 2W600	
Main Jet/Pilot Jet	360 / 70	
Needle Jet/Jet Needle-Clip Position	P-4 / 6F21-4	
Slide Cutaway or Throttle Valve	2.0	
Float Level	23.5 ± 1mm	
Idle RPM	ϕ	
CO % @ Idle (Diagnostic Use Only)	ϕ	
SUSPENSION		
Front Forks: Oil Type/Level/Qty.	10 wt. Fork Oil* / ϕ / 268.5cc	
Gas Pressure	ϕ	
Spring Length Std.	468mm	
Monoshock: Oil Type/Qty.	Not Rebuildable	
Gas Pressure	15 kg/cm ² (213 psi)	
Minimum Brake Lining Thickness	Front: 2mm Rear: 2mm	
Tire Size (Nominal Pressure)	F:3.00-21(1.0kg/cm ² /14 psi)R:4.10-18(1.2kg/cm ² /17 psi)	
TRANSMISSION – Oil Type/Qty Chg/Qty Reassemble	SAE 10W30 SE / 650cc / 750cc	
Primary Drive Type/Teeth/Ratio	Helical Gear / 71-22 / 3.227	
Secondary Drive Type/Teeth/Chain	Chain / 41-12 / DID520TR-96L	
Clutch Friction Plate Thickness Std ~ min.	3.0mm ~ 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	2.6mm BTDC
Spark Plug Type	Champion N-2G
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.7mm / 2.3 m-kG / φ
Point Gap / Condenser Capacitance	φ / φ
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 10% / 5.9K Ω ± 20%
Pulse Coil or Pick-up Coil Color Code / Ω	Wht-Red ~ Blk / 12.4 Ω ± 10%
Source Coil Color Code / Ω	Lo:Brn ~ Blk / 420 Ω ± 10% Hi: Red ~ Blk / 13.6 Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V25-25W / 6V5.3W / φ
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel-Red ~ Blk / 0.48 Ω ± 10%
TORQUE VALUES	
Front Axle Nut	14 x 1.5:8.5 m-kG
Front Axle Holder Nut	14 x 1.5:8.5 m-kG
Rear Axle Nut	14 x 1.5:8.5 m-kG
Rear Axle Pinch Bolt	φ
Clutch Nut	14 x 1.0:5.0 m-kG
Drain Plug	14 x 1.25:2.0 m-kG
Cylinder Head Cover	φ
Cylinder Head:	Nut - 8 x 1.25:2.5 m-kG
	Stud - 8 x 1.25:2.4 m-kG
Engine Mounting Bolts: Engine, Front	8 x 1.5:2.5 m-kG
	Rear, Upper
	8 x 1.5:2.5 m-kG
	Rear, Lower
	10 x 1.5:3.9 m-kG

φ Does Not Apply to This Model

* Available From Yamaha Parts Distributors, Inc.