

GT80G

1980 SERVICE DATA

MODEL – IBM I.D. NUMBER	GT80G 3J8
Initial Engine Number/Frame Number	3J8-000101 / 3J8-000101
Basic Color(s)	Maxim Red
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Regular / 4.8 lit. (1.3 gal.) / 0.5 lit. (0.1 gal.)
Dry Vehicle Weight	64 kg (141 lbs.)
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve
Bore/Stroke/Number Cylinders/Displacement (cc)	47mm / 42mm / 1 / 72cc
Compression Ratio/Compression Pressure min ~ max	9.5:1 (6.9:1 Corrected) / N/A
Piston Skirt Clearance new/max.	0.035 ~ 0.040mm / 0.1mm
Ring End Gap top/2nd/3rd	0.15 ~ 0.35mm / 0.15 ~ 0.35mm / ϕ
Valve Clearance (cold) Intake/Exhaust	ϕ
Oil Pressure hot/rpm	ϕ
Oiling System	Autolube
Capacity: Dry	0.7 lit. (0.74 qt.)
Oil and Filter Change	ϕ
Oil Change	ϕ
Lubricant: Temp above 5°C (40°F)	Yamalube 2* or equivalent
Below 15°C (60°F)	Yamalube 2* or Equivalent
AUTOLUBE – Min. Stroke/Color Code	0.20 ~ 0.25mm / Yellow
Minimum Output @ 200 cycles	0.50cc
Maximum Output @ 200 cycles	4.28cc
CARBURETOR – Mfr./Type/I.D. Number	Teikei / Y16P-3A / 3J8-60
Main Jet/Pilot Jet	86 / 32
Needle Jet/Jet Needle-Clip Position	2.095 / 3N21 - Fixed
Slide Cutaway or Throttle Valve	2.0
Float Level	22.0mm \pm 0.5mm
Idle RPM	1250 ~ 1400 rpm
CO % @ Idle (Diagnostic Use Only)	N/A
SUSPENSION	
Front Forks: Oil Type/Level/Qty.	10 Wt. Fork Oil* / ϕ / 112 \pm 4cc
Gas Pressure	ϕ
Spring Length Std.	386mm
Monoshock: Oil Type/Qty.	ϕ
Gas Pressure	ϕ
Minimum Brake Lining Thickness	Front: 2.0mm Rear: 2.0mm
Tire Size (Nominal Pressure)	F: 2.50-15 (1.5 kg/cm ² / 21 psi) R: 2.75-14 (2.3 kg/cm ² / 32 psi)
TRANSMISSION – Oil Type/Qty Chg/Qty Reassemble	Yamalube 4* or SAE 10W30SE / 550cc / 600cc
Primary Drive Type/Teeth/Ratio	Helical Gear / 68-19 / 3.578
Secondary Drive Type/Teeth/Chain	Chain / 41-14 / DK420-92L
Clutch Friction Plate Thickness Std ~ min.	3.5 ~ 3.2mm
Clutch Spring Length Std ~ min.	31.5 ~ 30.5mm
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

CHARGING SYSTEM	Flywheel Magneto / Single Phase / Half Wave
Battery: Model / Spec. Grav. / Chg. Rate	GS 6N4-2A-2 (6V-4A) / 1.26 / 0.4A
Maximum Output	7.5V 3.5A @ 8000 rpm
TROUBLESHOOTING	
Field Coil Color Code / Ω	ϕ
Charge Coil Color Code / Ω	Grn-Red ~ Gnd / $0.32 \Omega \pm 10\%$
IGNITION SYSTEM	Capacitor Discharge Ignition
Ignition Timing	21° BTDC @ 2000 rpm (1.8mm BTDC)
Spark Plug Type	NGK B7HS
Spark Plug Gap / Torque / Cap Ω	0.5 ~ 0.7mm / 2.5 m·kg / $5K \Omega \pm 10\%$
Point Gap / Condenser Capacitance	ϕ / ϕ
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / $1.0 \Omega \pm 10\%$ / $5.9K \Omega \pm 20\%$
Pulse Coil or Pick-up Coil Color Code / Ω	Wht-Red ~ Gnd / $10 \Omega \pm 10\%$
Source Coil Color Code / Ω	Brn ~ Gnd / $300 \Omega \pm 10\%$
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V30-30W / 6V25-5.3W / 6V17W
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel ~ Gnd / $0.22 \Omega \pm 10\%$
TORQUE VALUES	
Front Axle Nut	10 x 1.25: 4.0 m·kg
Front Axle Holder Nut	ϕ
Rear Axle Nut	12 x 1.25: 6.0 m·kg
Rear Axle Pinch Bolt	ϕ
Clutch Nut	12 x 1.0: 4.5 m·kg
Drain Plug	12 x 1.5: 2.0 m·kg
Cylinder Head Cover	ϕ
Cylinder Head:	6 x 1.0: 1.0 m·kg
Engine Mounting Bolts:	
Front, Upper	8 x 1.25: 2.5 m·kg
Rear, Upper	8 x 1.25: 2.5 m·kg
Rear, Lower	8 x 1.25: 2.5 m·kg

ϕ Does Not Apply to This Model

* Available From Yamaha Parts Distributors, Inc.