

DT80J

1982 SERVICE DATA

MODEL • IBM I.D. NUMBER	DT80J	3J8
Initial Engine Number / Frame Number	3J8-150101 / 3J8-150101	
Basic Color(s)	Chappy Red	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Regular / 4.8 Lit. / 0.5 Lit.	
Dry Vehicle Weight	64 kg	
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve	
Bore/Stroke/Number Cylinders/Displacement (cc)	47mm / 42mm / 1 / 72cc	
Compression Ratio/Compression Pressure Min~Max	6.9:1 / NA	
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 / Ø	
Valve Clearance (Cold) Intake / Exhaust	Ø	
Oil Pressure Hot / rpm	Ø	
Oiling System	Autolube	
Capacity: Dry	0.7 Lit.	
Oil and Filter Change	Ø	
Oil Change	Ø	
Lubricant: Temp. Above 5°C (40°F)	Yamalube 2* or Equivalent	
Temp. Below 15°C (60°F)	Yamalube 2* or Equivalent	
AUTOLUBE • Min Stroke / Color Code	0.18 ~ 0.27mm / Yellow	
Minimum Output @ 200 Cycles	0.50cc	
Maximum Output @ 200 Cycles	4.28cc	
CARBURETOR • Mfr. / Type / I.D. Number	Telkel / 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 / Fuel Level	22.0mm ± 1.0mm / NA	
Idle rpm	1250 ~ 1400 rpm	
Max CO* / Max HC* / Set CO	Ø	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / Ø / 112cc ± 4cc	
Gas Pressure	Ø	
Spring Length Std	386mm	
Monoshock: Oil Type / Qty	Ø	
Gas Pressure	Ø	
Minimum Brake Lining Thickness	Front: 2.0mm Rear: 2.0mm	
Tire Size (Nominal Pressure)	F:2.50-15 (1.5 kg/cm²) R:2.75-14 (2.3 kg/cm²)	
TRANSMISSION • Oil Type/Qty Chg/Qty Reassemble	Yamalube 4* or SAE 10W30 SE / 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	Ø	
Final Gear Case Capacity	Ø	
Gear Case Lubricant: Temp. Above 5°C (40°F)	Ø	
Temp. Below 15°C (60°F)	Ø	
All Weather Conditions	Ø	

CHARGING SYSTEM		Flywheel Magneto / Single Phase / Half Wave
Battery: Model / Specific Gravity / Charge 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		$\emptyset$
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-k _g / $5K \Omega \pm 10\%$
Point Gap / Condenser Capacitance		$\emptyset$ / $\emptyset$
TROUBLESHOOTING		
Ignition Coil Test Gap / Primary Ω / Secondary Ω		6mm / $1.0 \Omega \pm 10\%$ / $5.9K \Omega \pm 20\%$
Pulser Coil or Pickup Coil Color Code / Ω		Wht-Red ~ Blk / $10 \Omega \pm 10\%$
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-k _g
Front Axle Holder Nut		$\emptyset$
Rear Axle Nut		12 x 1.25: 6.0 m-k _g
Rear Axle Pinch Bolt		$\emptyset$
Clutch Nut		12 x 1.0: 4.5 m-k _g
Drain Plug		12 x 1.5: 2.0 m-k _g
Cylinder Head Cover		$\emptyset$
Cylinder Head:		6 x 1.0: 1.0 m-k _g
Engine Mounting Bolts: Front, Upper		8 x 1.25: 2.5 m-k _g
Rear, Upper		8 x 1.25: 2.5 m-k _g
Rear, Lower		8 x 1.25: 2.5 m-k _g

$\emptyset$ = Does Not Apply To This Model
 NA = Information Not Available

* Available From Yamaha Parts Distributors Inc.
 • For Diagnostic Use Only

SERVICE LITERATURE

PUBLICATION	PART NUMBER	REMARKS
Owner's Manual	LIT-11626-03-05	Same as GT80G Same as GT80G, Supp. to GT80E (01-06)
Service Manual	LIT-11616-GT-81	
Assembly Manual	LIT-11666-01-68	
Consumer Information	LIT-11656-03-05	