

DT175G

1980 SERVICE DATA

MODEL – IBM I.D. NUMBER	DT175G-R	DT175G-B	3J1
Initial Engine Number/Frame Number	3J1-000101 / 3J1-000101		
Basic Color(s)	Maxim Red (R)	Sapphire Blue (B)	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Regular / 6.8 Lit. (1.8 Gal.) / 0.9 Lit. (0.2 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	10.1:1 (6.8:1 Corrected) / ϕ		
Piston Skirt Clearance new/max.	0.040 ~ 0.045mm / 0.1mm		
Ring End Gap top/2nd/3rd	0.3 ~ 0.5mm / 0.3 ~ 0.5mm / ϕ		
Valve Clearance (cold) Intake/Exhaust	ϕ		
Oil Pressure hot/rpm	ϕ		
Oiling System	Autolube		
Capacity: Dry	0.9 Lit.		
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 / Gray		
Minimum Output @ 200 cycles	0.50cc		
Maximum Output @ 200 cycles	5.13cc		
CARBURETOR – Mfr./Type/I.D. Number	Mikuni / VM24SS / 3J100		
Main Jet/Pilot Jet	150 / 22.5		
Needle Jet/Jet Needle-Clip Position	N-4 / 5GL13 - Fixed		
Slide Cutaway or Throttle Valve	2.0		
Float Level	21.0 ± 0.5mm		
Idle RPM	1350 ~ 1500 rpm		
CO % @ Idle (Diagnostic Use Only)	NA		
SUSPENSION			
Front Forks: Oil Type/Level/Qty.	10 wt. Fork Oil* / ϕ / 186cc		
Gas Pressure	ϕ		
Spring Length Std.	546.5mm		
Monoshock: Oil Type/Qty.	Not Rebuildable		
Gas Pressure	15 kg/cm ²		
Minimum Brake Lining Thickness	Front: 2mm	Rear: 2mm	
Tire Size (Nominal Pressure)	F: 2.75-21 (1.7 kg/cm ² / 24 psi) R: 3.50-18 (2.0 kg/cm ² / 28 psi)		
TRANSMISSION – Oil Type/Qty Chg/Qty Reassemble	Yamalube 4* or SAE 10W30 SE / 650cc / 750cc		
Primary Drive Type/Teeth/Ratio	Helical Gear / 71-22 / 3.227		
Secondary Drive Type/Teeth/Chain	Chain / 49-16 / DID428HM-118L		
Clutch Friction Plate Thickness Std ~ min.	3.0mm ~ 2.8mm		
Clutch Spring Length Std ~ min.	33.0 ~ 32.0mm		
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		

CHARGING SYSTEM	Flywheel Magneto / Single Phase / Half Wave
Battery: Model / Spec. Grav. / Chg. Rate	G S 6N6-3B-1 (6V6AH) / 1.26 / 0.6A
Maximum Output	8.7V 2.5A @ 8000 rpm
TROUBLESHOOTING	
Field Coil Color Code / Ω	ϕ
Charge Coil Color Code / Ω	Grn-Wht ~ Blk / $0.30 \Omega \pm 10\%$
IGNITION SYSTEM	Capacitor Discharge Ignition
Ignition Timing	17.5° BTDC @ 3000 rpm (1.45mm BTDC)
Spark Plug Type	NGK B9ES
Spark Plug Gap / Torque / Cap Ω	0.6 ~ 0.8mm / 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 ~ Blk / $10 \Omega \pm 10\%$
Source Coil Color Code / Ω	Brn ~ Blk / $300 \Omega \pm 10\%$
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V35-35W / 6V25-5.3W / 6V17W
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel ~ Blk / $0.18 \Omega \pm 10\%$
TORQUE VALUES	
Front Axle Nut	10 x 1.25: 3.7 m-kg
Front Axle Holder Nut	ϕ
Rear Axle Nut	14 x 1.5: 8.5 m-kg
Rear Axle Pinch Bolt	ϕ
Clutch Nut	14 x 1.0: 5.5 m-kg
Drain Plug	12 x 1.5: 2.0 m-kg
Cylinder Head Cover	ϕ
Cylinder Head:	8 x 1.25: 2.5 m-kg
Engine Mounting Bolts: Front	8 x 1.25: 2.5 m-kg
Rear, Upper	8 x 1.25: 2.5 m-kg
Rear, Lower	10 x 1.25: 3.7 m-kg

ϕ Does Not Apply to This Model

* Available From Yamaha Parts Distributors, Inc.