## DT100G 1980 SERVICE DATA

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MODEL - IBM I.D. NUMBER	DT100G-R	DT100G-S	3A3
Initial Engine Number/Frame Number	3A3-000101 / 3A3-000101		
Basic Color(s)	Maximum Red (R) Frost Silver (S)		
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Regular / 4.5 Lit. (1.2 Gal.) / 0.3 Lit. (0.07 Gal.)		
Dry Vehicle Weight	80 kg (176 lbs.)		
ENGINE TYPE	2-Stroke, Air-Cooled, Reed Valve		
Bore/Stroke/Number Cylinders/Displacement (cc)	52mm / 45.6mm / 1 / 97cc		
Compression Ratio/Compression Pressure min ~ max	9.7:1 (6.7:1 Corrected) / φ		
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 / $\phi$		
Valve Clearance (cold) Intake/Exhaust	φ		
Oil Pressure hot/rpm	φ		
Oiling System	Autolube		
Capacity: Dry	1.0 Lit. (1.1 Qt.)		
Oil and Filter Change	ф		
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	0.2 ~ 0.25mm / Green		
Minimum Output @ 200 cycles	0.50 ~ 0.63cc		
Maximum Output ● 200 cycles	4.65 ~ 5.15cc		
CARBURETOR - Mfr./Type/I.D. Number	Mikuni / VM20SS	5/3A360	
Main Jet/Pilot Jet	130 / 15		
Needle Jet/Jet Needle-Clip Position	0-6 / 4L17 - Fixed		
Slide Cutaway or Throttle Valve	2.0		
Float Level	21 ± 0.5mm		
Idle RPM	1300 ~ 1450 rpm		
CO % ● Idle (Diagnostic Use Only)	N/A		
SUSPENSION		777777	
Front Forks: Oil Type/Level/Qty.	10 Wt. Fork Oil*	/φ/116 ± 2cc	51
Gas Pressure	•		
Spring Length Std.	418.5mm (16.48")		
Monoshock: Oil Type/Qty.	ф		
Gas Pressure	φ		
Minimum Brake Lining Thickness	Front: 2mm Rear: 2mm		
Tire Size (Nominal Pressure)	F:2.50-18 (1.6kg/cm <sup>2</sup> /(22 psi) R:3.00-16 (2.0kg/cm <sup>2</sup> /(28 psi)		
TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble	Yamalube 4° or SAE 10W 30SE / 650cc / 650cc		
Primary Drive Type/Teeth/Ratio	Helical Gear / 74-19 / 3.895		
Secondary Drive Type/Teeth/Chain	Chain / 45-14 / RS420-102L		
Clutch Friction Plate Thickness Std ~ min.	3.0 ~ 2.7mm		
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		
	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		

Flywheel Magneto / Single Phase / Half Wave		
G.S. 6N4-2A-2 / 1.26 / 0.4A		
7.5V 3.5A @ 8000 rpm		
φ		
Grn-Red ~ Blk / 0.32 Ω ± 10%		
Capacitor Discharge Ignition		
21° BTDC @ 2000 rpm		
1.8mm BTDC		
NGK B-7ES		
$0.6 \sim 0.8$ mm $/ 2.5$ m-kg $/$ 5K $\Omega \pm 10\%$		
$\phi/\phi$		
6mm / 1.0 Ω ± 10% / 5.9K Ω ± 20%		
Wht ~ Red / 10 Ω ± 10%		
Brn ~ Gnd / 300 Ω ± 10%		
6V30-30W / 6V25-5.3W / 6V17W		
gi maha enduros com		
Yel-Blk / 2.2 Ω ± 10%		
12 x 1.25: 4.5 m-kg		
φ		
10 x 1.00:4.0 m-kg		
φ		
12 x 1.0: 5.0 m-kg		
12 x 1.5: 2.5 m-kg		
φ		
8 x 1.25: 2.5 m-kg		
8 x 1.25: 2.5 m-kg		
8 x 1.25: 2.5 m-kg		
10 x 1.25: 4.0 m-kg		

 $<sup>\</sup>phi$  Does Not Apply to This Model

<sup>\*</sup> Available From Yamaha Parts Distributors, Inc.