DT100H 1981 SERVICE DATA

MODEL - IBM I.D. NUMBER	DT100H 3A3
Initial Engine Number / Frame Number	3A3-040101 / 3A3-040101
Basic Color(s)	Crystal Silver
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 / 9/cc
Compression Ratio/Compression Pressure Min~Max	
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	1.0 Lit. (1.1 Qt.)
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	0.2 ~ 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 / 3A3-60
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 / Fuel Level	21 ± 0.5mm / NA
	1300 ∼ 1450 rpm
Idle rpm Max CO ^o / Max HC ^o / Set CO	Ø
SUSPENSION Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / Ø / 116cc ± 2cc
Gas Pressure	Ø
Spring Length Std	418.5mm (16.48")
	Ø
Monoshock: Oil Type / Qty	Ø
Gas Pressure	Front: 2mm Rear: 2mm
Minimum Brake Lining Thickness	
Tire Size (Nominal Pressure)	F:2.50-18 (1.8 kg/cm²/22 psi) R:3.00-16 (2.0 kg/cm²/28 psi)
TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble	
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	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 / 1.26 / 0.4A°
Maximum Output	7.5V 3.5A @ 8000 rpm
TROUBLESHOOTING	
Field Coil Color Code / Q	Ø
Charge Coil Color Code / Q	Grn-Red ~ Blk / 0.32 Ω ± 10%
IGNITION SYSTEM	Capacitor-Discharge Ignition
Ignition Timing	21° BTDC @ 2000 rpm
- AUV 12	1.8mm BTDC
Spark Plug Type	NGK B7ES
Spark Plug Gap / Torque / Cap Q	$0.6\sim0.8$ mm / 2.5 m-kg / 5 K Ω \pm 10%
Point Gap / Condenser Capacitance	Ø/Ø
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 1.0 Ω ± 10% / 5.9K Ω' ± 20%
Pulser Coil or Pickup Coil Color Code / Ω	Wht ~ Blk / 10 Ω ± 10%
Source Coil Color Code / Ω	Brn ~ Gnd / 300 Ω ± 10%
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V30-30W / 6V25W-5.3W / 6V17W
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel-Blk / 2.2 Ω ± 10%
TORQUE VALUES	
Front Axle Nut	12 x 1.25: 4.5 m-kg
Front Axle Holder Nut	Ø
Rear Axle Nut	10 x 1.00: 4.0 m-kg
Rear Axle Pinch Bolt	Ø
Clutch Nut	12 x 1.0: 5.0 m-kg
Drain Plug	12 x 1.5: 2.5 m-kg
Cylinder Head Cover	Ø
Cylinder Head:	8 x 1.25: 2.5 m-kg
Mark Committee of the C	o n man and man
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	10 x 1.25: 4.0 m-kg
Mine	

Ø = Does Not Apply To This Model
NA = Information Not Available

^{*}Available From Yamaha Parts Distributors Inc.

•For Diagnostic Use Only