

DT80H

1981 SERVICE DATA

MODEL - IBM I.D. NUMBER	DT80H	3J8
Initial Engine Number / Frame Number	3J8-100101 / 3J8-100101	
Basic Color(s)	Chappy 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) / 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. (0.74 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	0.20 ~ 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 / Fuel Level	22.0mm ± 0.5mm / 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 / 112 ± 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/cm²/21 psi) R:2.75-14 (2.3 kg/cm²/32 psi)	
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	
Battery: Model / Specific Gravity / Charge Rate	Flywheel Magneto / Single Phase / Half Wave 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 $\sim$ Gnd / $0.32 \Omega \pm 10\%$
IGNITION SYSTEM	
Ignition Timing	Capacitor-Discharge Ignition 21° BTDC @ 2000 rpm (1.8mm BTDC)
Spark Plug Type	NGK B7HS
Spark Plug Gap / Torque / Cap Ω	0.5 $\sim$ 0.7mm / 2.5 m-kG / $5K \Omega \pm 10\%$
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 $\sim$ Gnd / $10 \Omega \pm 10\%$
Source Coil Color Code / Ω	Brn $\sim$ Gnd / $300 \Omega \pm 10\%$
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	6V30 30W / 5V25-5.3W / 6V17W
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Yel $\sim$ Gnd / $0.22 \Omega \pm 10\%$
TORQUE VALUES	
Front Axle Nut	10 x 1.25: 4.0 m-kG
Front Axle Holder Nut	$\emptyset$
Rear Axle Nut	12 x 1.25: 6.0 m-kG
Rear Axle Pinch Bolt	$\emptyset$
Clutch Nut	12 x 1.0: 4.5 m-kG
Drain Plug	12 x 1.5: 2.0 m-kG
Cylinder Head Cover	$\emptyset$
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

$\emptyset$ = Does Not Apply To This Model

NA = Information Not Available

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