

DT250E

1978 SERVICE DATA

MODEL – IBM I.D. NUMBER	DT250E – 1M1
Initial Engine Number/Frame Number	1M1-100101 / 1M1-100101
Basic Color(s)	Crystal Silver
ENGINE TYPE	2-stroke, air-cooled, reed valve
Bore/Stroke/Number Cylinders/Displacement (cc)	70mm / 64mm / 1 / 246cc
Compression Ratio/Compression Pressure min.~max.	6.7:1 / ϕ
Piston Skirt Clearance new/max.	.035 ~ .040mm / 0.1mm
Ring End Gap top/2nd/3rd	0.2 ~ 0.4mm / same / ϕ
Valve Clearance (cold) Intake/Exhaust	ϕ
Oil Pressure hot/rpm	ϕ
Oil Tank or Engine Sump Capacity	1.1 liter Yamalube 2
AUTOLUBE – Min. stroke/Color code	0.25 ~ 0.30mm / Red
Minimum Output @ 200 strokes	0.5cc
Maximum Output @ 200 strokes	5.0cc
CARBURETOR – mfr./type/I.D. number	Mikuni / VM28SC / 1M101
Main Jet/Pilot Jet	140 / 50
Needle Jet/Jet Needle-Clip Position	N-8 / 5DP33-3
Slide Cutaway or Throttle Valve	1.5
Float Level	15.8mm \pm 1mm
Mixture Screw – turns out/idle rpm	2.0 / 1200 ~ 1300
SUSPENSION	
Front Forks: Oil type/level/qty	10, 20 or 30 wt. Fork Oil* / ϕ / 190cc
Gas Pressure	ϕ
Spring Length std	399mm
Monoshock: Oil type/qty	ϕ
Gas Pressure	ϕ
TRANSMISSION – oil type/qty chg/qty reassemble	SAE20W40 (Yamalube 4*) / 1100cc / 1200cc
Primary drive type	Helical Gear
Secondary type/teeth/chain	Chain / 47-14 / DID520DS - 104L
Clutch Friction Plate Thickness std ~ min.	3.0 ~ 2.7mm
Clutch Spring Length std ~ min.	34.9 ~ 33.9mm
Tires size (nominal pressure)	Front: 3.00-21 (18psi) Rear: 4.00-18 (21psi)
ELECTRICAL – System/Type	AC Magneto /External Flywheel
Maximum Output	7.6V 2.5A @ 8,000 rpm
Field Coil Color Code/ Ω	ϕ
Charging Coil Color Code/ Ω	Grn-Wht ~ Gnd / 0.36 Ω \pm 10%
Source Coil Color Code/ Ω	Blk - wht ~ Gnd / 1.65 Ω \pm 10%
Lighting Coil Color Code/ Ω	Yel ~ Gnd / 0.22 Ω \pm 10%
Pulse Coil or Pickup Coil Color Code/ Ω	ϕ
Ignition Coil test gap/Primary Ω / Secondary Ω	6mm / 1.0 Ω \pm 10% / 5.9K Ω \pm 20%
Battery—model/spec. grav./chg rate x hour	GS 6N6-3B-1 / 1.260 / 0.6A x 10 hr.
Headlight/Taillight/Signal Rating	6V35-35W / 6V25-5.3W / 6V17W
Point Gap/Condenser Capacitance	0.30 ~ 0.40mm / 0.25 μ F \pm 10%
Spark Plug Type	NGK B8ES or Champion N-2
Spark Plug Gap/Torque/Cap Ω	0.6 ~ 0.7mm / 2.0kg-m / 5K Ω \pm 10%
Timing Static	3.2mm \pm 0.15mm
Dynamic	Fixed at 23.4 $^{\circ}$ BTDC