

DT400E

1978 SERVICE DATA

M7-036

MODEL — IBM I.D. NUMBER	DT400E — 1M2
Initial Engine Number/Frame Number	1M2-100101 / 1M2-100101
Basic Color(s)	Competition Yellow
ENGINE TYPE	2-stroke, air-cooled, reed valve
Bore/Stroke/Number Cylinders/Displacement (cc)	85mm / 70mm / 1 / 397cc
Compression Ratio/Compression Pressure min.~max.	6.4:1 / ϕ
Piston Skirt Clearance new/max.	.040 ~ .045mm / 0.1mm
Ring End Gap top/2nd/3rd	0.3 ~ 0.5mm / 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 / Yellow
Minimum Output @ 200 strokes	0.5cc
Maximum Output @ 200 strokes	5.0cc
CARBURETOR — mfr./type/I.D. number	Mikuni / VM34SS / 1M200
Main Jet/Pilot Jet	190/80
Needle Jet/Jet Needle-Clip Position	0-2 / 6F9-3
Slide Cutaway or Throttle Valve	2.5
Float Level	23.0 $\pm$ 1mm
Mixture Screw — turns out/idle rpm	1½ / 1300-1400
SUSPENSION	
Front Forks: Oil type/level/qty	20 or 30wt 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 / 43-16 / DID520DS-102L
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 CDI / External Flywheel
Maximum Output	7.6V-2.5A @ 8000 rpm
Field Coil Color Code/ Ω	ϕ
Charging Coil Color Code/ Ω	Yel ~ Gnd/0.22 $\Omega \pm 10\%$ / Grn-Wht ~ Gnd/0.36 $\Omega \pm 10\%$
Source Coil Color Code/ Ω	Brn ~ Gnd / 166 $\Omega \pm 10\%$
Lighting Coil Color Code/ Ω	See Charging Coil
Pulse Coil or Pickup Coil Color Code/ Ω	Red-Wht ~ Gnd / 3.4 $\Omega \pm 10\%$
Ignition Coil test gap / Primary Ω / Secondary Ω	6mm @ 500rpm / 1 $\Omega \pm 10\%$ / 5.9K $\Omega \pm 20\%$
Battery—model/spec. grav./chg rate x hour	GS 6N6-3B-1 / 1.260 / .6A x 10 hr.
Headlight/Taillight/Signal Rating	6V35-35W / 6V5.3-25W / 6V17W
Point Gap/Condenser Capacitance	ϕ / ϕ
Spark Plug Type	NGK B8ES or Champion N-2
Spark Plug Gap/Torque/Cap Ω	0.6 ~ 0.7mm / 2.0m·kg/5K $\Omega \pm 10\%$
Timing Static	2.9mm $\pm$ 0.15mm BTDC
Dynamic	Center line @ 4000rpm