

DT400D

1977 SERVICE DATA

MODEL – IBM I.D. NUMBER	DT400D	1M2
Starting Engine and Frame Number	1M2-000101	1M2-000101
Basic Color (fuel tank)	Brick Red	
Net Weight	268 lbs.	
ENGINE (type, induction system)	2-stroke, 7-port, single, air-cooled	
Bore x Stroke x Cylinder(s) Displacement	85 x 70mm x 1	397cc (24.22 CID)
Compression Ratio (pressure)	6.4:1	
Piston Skirt Clearance (new/max.)	.040 ~ .045mm (.0016 ~ .0018")/0.1mm(.004")	
Ring End Gap (top/2nd/3rd)	0.3 ~ 0.5mm (.012 ~ .020")/Same/φ	
Ring Groove Clearance (top/2nd/3rd)	.03 ~ .05mm (.0012 ~ .0020")/Same/φ	
Valve Clearance (eng. cold) Intake/Exhaust	φ	
AUTOLUBE – Minimum Pump Stroke/Color Code	0.25 ~ 0.30 (.010 ~ .012")/Yellow	
CARBURETOR (mfr.) (type) (I.D. number)	Mikuni/VM34SC/1M200	
Main Jet	No. 170 (new specification)	
Needle Jet	0-2	
Jet Needle/Clip Position	6F9-5 (new specification)	
Cutaway	2.5	
Pilot Jet	No. 60 (new specification)	
Air Jet	2.5	
Starter Jet	No. 60	
Air Screw (turns out) (idle speed)	2.0 (new specification) Idle Speed 1,450 rpm	
Float Level	23mm	
Air Filter (type x quantity)	Oiled Foam Rubber x 1	
DRIVE – Primary (type) (teeth) (ratio)	Helical Gear	65/23 2.826
Secondary (type) (teeth) (ratio)	DK520D 102L	43/16 2.688
Transmission Ratios 1st (teeth) (ratio) (O.A.)	38/14	2.714 20.616
2nd	34/19	1.789 13.589
3rd	26/20	1.300 9.875
4th	23/23	1.000 7.596
5th	20/26	0.769 5.841
6th	φ	
CAPACITIES – Transmission	1,200cc (40 oz.) Yamalube 4-cycle* or SAE 10W/30 Oil	
Oil Tank or Engine Sump	1.2 qt. Yamalube 2-cycle*	
Fuel Tank	2.4 gal. Low Lead (Regular) or Unleaded	
Front Forks	190cc (6.4 oz.) 20 or 30 wt. Fork Oil*	
Rear Shocks	φ (DeCarbon monoshock)	
Tires (size/normal pressure)	Front: 3.00-21/18 psi	Rear: 4.00-18/21 psi
ELECTRICAL – Charging System (mfr.) (type)	Mitsubishi/C.D.I. Magneto	
No Load Voltage Adj. (AC & DC generators)	φ	
Max. Generator (Magneto) Output	φ	
Field Coil (and/or) Charging Coil Resistance	Yellow: 0.22Ω /Green/White: 0.38Ω (all ± 10%)	
Battery (mfr.) (model) (rating) (charge rate)	G.S./6N6-3B-1/6V .6A x 10 hours	
Headlight/Taillight Ratings	6V 30/30W 5V 5.3W	
Ign. Coil Min. Spark Gap/Pri. Res./Sec. Res.	6mm @ 500rpm/1Ω/5.9KΩ	
Source Coil Res.	Brown: 170Ω ± 10%	
Pulse Coil Res.	Red/White: 3.4Ω ± 10%	
Point Gap/Spark Plug (type/gap)	φ / NGK B8ES / 0.6 ~ 0.7mm	
Timing (advanced) (retarded)	2.9 ± 0.15mm B.T.D.C.	

N/A = Information Not Available
φ = Does Not Apply To This Model

*Available from Yamaha Parts Distributors, Inc.