

# DT400B

MOTORCYCLE  
M4-094

## 1975 SERVICE DATA



TECHNICAL BULLETIN

<b>MODEL – IBM I.D. NUMBER</b>	<b>DT400B</b>	<b>500</b>	
Starting Engine and Frame Number	501-000101		
Basic Color (fuel tank)	Competition Yellow		
Net Weight	272 lbs.		
<b>ENGINE (type, induction system)</b>	2-stroke, 7-port, Single, Reed Valve, Air-cooled		
Bore x Stroke x Cylinder Displacement	85 x 70mm x 1	397cc (24.22 CID)	
Compression Ratio	6.4:1		
Piston Skirt Clearance (new/max.)	.040 ~ .045mm (.0015 ~ .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 ~ .08mm (.0012 ~ .0032")/Same/φ		
Valve Clearance (eng. cold) Intake/Exhaust	φ		
<b>AUTOLUBE – Minimum Pump Stroke/Color Code</b>	0.20 ~ 0.25mm (.008 ~ .010")	Yellow	
<b>CARBURETOR (mfr) (type) (I.D. number)</b>	Mikuni	VM32SS	50061
Main Jet	No. 160		
Needle Jet	O-8		
Jet Needle/Clip Position	6F9-4		
Cut Away	3.0		
Pilot Jet	No. 40		
Air Jet	2.5mm		
Starter Jet	No. 60		
Air Screw (turns out)	1½		
Float Level	23.0 ± 1.0mm		
Air Filter (type x quantity)	Wet Foam Rubber x 1		
<b>DRIVE – Primary (type) (teeth) (ratio)</b>	Helical Gear	64/24	2.666
Secondary (type) (teeth) (ratio)	DID520DS, 97L	40/14	2.857
Transmission Ratios 1st (teeth) (ratio) (O.A.)	38/15	2.533	19.302
2nd	34/19	1.789	13.634
3rd	30/23	1.304	9.938
4th	26/26	1.000	7.619
5th	23/30	0.766	5.841
6th	φ		
<b>CAPACITIES – Transmission</b>	1000cc (33.8 oz.) SAE10W30 Oil (Yamalube 4-cycle)		
Oil Tank or Engine Sump	1.6 qts. Yamalube 2-cycle		
Fuel Tank	2.4 gals. Low Lead or Unleaded (Regular)		
Front Forks	175cc (5.9 oz.) 10, 20 or 30 wt. Fork and Shock Fluid*		
Rear Shocks	181cc (6.1 oz.) 7.5 or 10 wt. Fork and Shock Fluid*		
Tires (size/nominal pressure)	Front: 3.00-21/13psi** Rear: 4.00-18/16psi**		
<b>ELECTRICAL – Charging System (mfr) (type)</b>	Mitsubishi	CDI Magneto Outer Rotor	FOT02173
No Load Voltage Adj. (AC & DC generators)	φ		
Max. Generator (Magneto) Output	8.5V 3.2A @ 8,000rpm		
Field Coil (and/or) Charging Coil Resistance	Yellow: 0.23Ω / Green: 1.73Ω / Green Red: 0.54Ω		
Battery (mfr) (model) (rating)	G.S. or F.B.	6N4B-2A-3	6V4AH
Headlight/Taillight Ratings	6V35W/35W	6V5.3W/17W	
Ign. Coil Min. Spark Gap/Pri. Res./Sec. Res.	6mm	1.02Ω	6.0KΩ
Condenser Capacity	φ		
Point Gap /Spark Plug (type/gap)	φ / NGK B-9ES / 0.5 ~ 0.6mm (.019 ~ .023")		
Timing (advanced) (retarded)	2.9 ± 0.15mm BTDC / φ		

N/A = Information Not Available

φ = Does Not Apply to This Model

\*Available from Yamaha Parts Distributors, Inc.

\*\*Add 10psi for street riding.