



# IT175D 1977 SERVICE DATA

<b>MODEL – IBM I.D. NUMBER</b>	IT175D	1W2
Starting Engine and Frame Number	1W2-000101	1W2-000101
Basic Color (fuel tank)	Sky Blue	
Net Weight	216 lbs.	
<b>ENGINE (type, induction system)</b>	2-stroke, 7-port, single, air-cooled	
Bore x Stroke x Cylinder(s)      Displacement	66mm x 50mm x 1	171cc
Compression Ratio      (pressure)	7.4:1	
Piston Skirt Clearance (new/max.)	0.040 ~ 0.045mm (.0015 ~ .0017") / 0.1mm (.004")	
Ring End Gap (top/2nd/3rd)	0.3 ~ 0.5mm (.012 ~ .020") / Same / $\phi$	
Ring Groove Clearance (top/2nd/3rd)	0.02~0.06mm(.0007~.002")/0.03~0.07mm(.001~.002")/ $\phi$	
Valve Clearance (eng. cold) Intake/Exhaust	$\phi$	
<b>AUTOLUBE – Minimum Pump Stroke/Color Code</b>	$\phi$	
<b>CARBURETOR (mfr.) (type) (I.D. number)</b>	Mikuni / VM34SS / 1W200	
Main Jet	No. 360	
Needle Jet	P-4	
Jet Needle/Clip Position	6F21-3	
Cutaway	2.0	
Pilot Jet	No. 60	
Air Jet	2.5	
Starter Jet	No. 80	
Air Screw (turns out)      (idle speed)	1½	
Float Level	23.5mm	
Air Filter (type x quantity)	Oiled Foam Rubber x 1	
<b>DRIVE – Primary (type) (teeth) (ratio)</b>	Helical Gear	71/22      3.227
Secondary (type) (teeth) (ratio)	DID520TR, 94L	41/12      3.417
Transmission Ratios 1st (teeth) (ratio) (O.A.)	34/11	3.090      34.081
2nd	31/15	2.066      22.788
3rd	27/18	1.500      16.539
4th	25/21	1.190      13.126
5th	23/23	1.000      11.026
6th	21/25	0.840      9.262
<b>CAPACITIES – Transmission</b>	650cc (21.9oz.) SAE10W30 Oil or Yamalube 4-cycle*	
Oil Tank or Engine Sump	$\phi$	
Fuel Tank	2.5 gal. (Premium gas and Yamalube R) premix 20:1	
Front Forks	262cc, 20 wt. fork oil*	
Rear Shocks	DeCarbon Monoshock: See Tech. Bull. M7-003	
Tires (size/normal pressure)	Front: 3.00-21/13psi / Rear: 4.10-18/15psi	
<b>ELECTRICAL – Charging System (mfr.) (type)</b>	Mitsubishi / CDI Magneto	
No Load Voltage Adj. (AC & DC generators)	$\phi$	
Max. Generator (Magneto) Output	$\phi$	
Field Coil (and/or) Charging Coil Resistance	0.39 $\Omega$ (Yellow-red/black)	
Battery (mfr.) (model) (rating) (charge rate)	$\phi$	
Headlight/Taillight Ratings	6V 25W/25W    6V 5.3W	
Ign. Coil Min. Spark Gap/Pri. Res./Sec. Res.	6mm / 1.0 $\Omega$ 5.9K $\Omega$ $\pm$ 20%	
Source Coil Res.	420 $\Omega$ (Brown-black)	
Pulse Coil Res.	12.4 $\Omega$ $\pm$ 10%	
Point Gap/Spark Plug (type/gap)	$\phi$ / Champion N2G / 0.6 ~ 0.7mm (.023 ~ .027")	
Timing (advanced) (retarded)	2.3 $\pm$ 0.15mm B.T.D.C. / $\phi$	

N/A = Information Not Available  
 $\phi$  = Does Not Apply To This Model

\*Available from Yamaha Parts Distributors, Inc.