

YZ250D

1977 SERVICE DATA

MODEL – IBM I.D. NUMBER	YZ250D	1W3
Starting Engine and Frame Number	1W3-000101	1W3-000101
Basic Color (fuel tank)	Competition Yellow	
Net Weight	224 lbs.	
ENGINE (type, induction system)	2-stroke, 7-port, Single, Air-cooled, Reed Valve	
Bore x Stroke x Cylinder(s) Displacement	70 x 64mm x 1	246cc (15.0 CID)
Compression Ratio (pressure)	7.8:1	
Piston Skirt Clearance (new/max.)	.045 ~ .050mm(.0018 ~ .0020") / 0.1mm(.004")	
Ring End Gap (top/2nd/3rd)	0.4 ~ 0.5mm(.016 ~ .020") / ϕ / ϕ	
Ring Groove Clearance (top/2nd/3rd)	.03 ~ .05mm (.0012 ~ .0020") / ϕ / ϕ	
Valve Clearance (eng. cold) Intake/Exhaust	ϕ	
AUTOLUBE – Minimum Pump Stroke/Color Code	ϕ	
CARBURETOR (mfr.) (type) (I.D. number)	Mikuni / VM36SC	1W300
Main Jet	No. 360	
Needle Jet	P-6	
Jet Needle/Clip Position	6F15-2	
Cutaway	2.0	
Pilot Jet	No. 60	
Air Jet	2.5mm	
Starter Jet	No. 80	
Air Screw (turns out) (idle speed)	1½	
Float Level	18mm	
Air Filter (type x quantity)	Oiled Foam Rubber x 1	
DRIVE – Primary (type) (teeth) (ratio)	Helical Gear	64/24 2.666
Secondary (type) (teeth) (ratio)	DK520TR, 108L.	54/13 4.153
Transmission Ratios 1st (teeth) (ratio) (O.A.)	31/15	2.066 22.892
2nd	28/18	1.555 17.230
3rd	26/21	1.238 13.714
4th	23/23	1.000 11.076
5th	24/28	0.857 9.494
6th	ϕ	
CAPACITIES – Transmission	1,200cc(40.6oz.) SAE20W40 (Yamalube 4-cycle)	
Oil Tank or Engine Sump	ϕ	
Fuel Tank	2 gal. Premium & Yamalube R* (Mixed gas/oil 20:1)	
Front Forks	15 wt oil, 183mm from top: Air 14psi See Tech. Bull. M7-003	
Rear Shocks	See Technical Bulletin M7-003	
Tires (size/normal pressure)	Front: 3.00-21/13psi / Rear: 4.50-18/15 psi	
ELECTRICAL – Charging System (mfr.) (type)	Hitachi / C.D.I. / M100-21	
No Load Voltage Adj. (AC & DC generators)	ϕ	
Max. Generator (Magneto) Output	ϕ	
Field Coil (and/or) Charging Coil Resistance	ϕ	
Battery (mfr.) (model) (rating) (charge rate)	ϕ	
Headlight/Taillight Ratings	ϕ	
Ign. Coil Min. Spark Gap/Pri. Res./Sec. Res.	6mm / 0.6 Ω / 6.0K Ω	
Source Coil Res.	500 Ω Brown-red)	
Pulse Coil Res.	90 Ω (White-red/red)	
Point Gap/Spark Plug (type/gap)	ϕ / Champion N-2G / 0.6mm (.024")	
Timing (advanced) (retarded)	2.3 \pm 0.15mm B.T.D.C. / ϕ	

N/A = Information Not Available

ϕ = Does Not Apply To This Model

*Available from Yamaha Parts Distributors, Inc.