

YZ400D

1977 SERVICE DATA

MODEL – IBM I.D. NUMBER	YZ400D	1W4
Starting Engine and Frame Number	1W4-000101	1W4-000101
Basic Color (fuel tank)	Competition Yellow	
Net Weight	229 lbs.	
ENGINE (type, induction system)	2-stroke, 7-port, air-cooled, reed valve, single	
Bore x Stroke x Cylinder(s) Displacement	85 x 70mm x 1	397cc (24.22 CID)
Compression Ratio (pressure)	7.6:1	
Piston Skirt Clearance (new/max.)	.055 ~ .060mm (.0022 ~ .0024") / 0.1mm(.004")	
Ring End Gap (top/2nd/3rd)	0.3 ~ 0.5mm (.012 ~ .020") / Same / ϕ	
Ring Groove Clearance (top/2nd/3rd)	.06 ~ 0.10mm (.0024 ~ .0040") / Same / ϕ	
Valve Clearance (eng. cold) Intake/Exhaust	ϕ	
AUTOLUBE – Minimum Pump Stroke/Color Code	ϕ	
CARBURETOR (mfr.) (type) (I.D. number)	Mikuni / VM38SC / 1W400	
Main Jet	No. 370	
Needle Jet	Q-0	
Jet Needle/Clip Position	6F16-3	
Cutaway	3.0	
Pilot Jet	No. 60	
Air Jet	2.5	
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 106L.	50/14 3.571
Transmission Ratios 1st (teeth) (ratio) (O.A.)	32/14	2.286 21.763
2nd	29/17	1.706 16.242
3rd	26/20	1.300 12.376
4th	23/23	1.000 9.526
5th	21/25	0.840 7.997
6th	ϕ	
CAPACITIES – Transmission	1,200cc (40.6oz.) SAE 20W40 (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	DeCarbon monoshock See Tech. Bull. M7-003	
Tires (size/normal pressure)	Front: 3.00-21/13psi / Rear: 4.50-18/15psi	
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	ϕ	
Battery (mfr.) (model) (rating) (charge rate)	ϕ	
Headlight/Taillight Ratings	ϕ	
Ign. Coil Min. Spark Gap/Pri. Res./Sec. Res.	6mm / 1.0 Ω / 5.9K Ω	
Source Coil Res.	174 Ω (Brown-black)	
Pulse Coil Res.	3.4 Ω (White/green - white/red)	
Point Gap/Spark Plug (type/gap)	ϕ / Champion N-3G / 0.7mm (.028")	
Timing (advanced) (retarded)	2.7 ± 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.