

# RS100B

## 1975 SERVICE DATA

<b>MODEL – IBM I.D. NUMBER</b>	<b>RS100B</b>	<b>465</b>
Starting Engine and Frame Number	465-000101	
Basic Color (fuel tank)	Competition Green Metallic	
Net Weight	196 lbs.	
<b>ENGINE (type, induction system)</b>	2-stroke, 7-port, Single, Reed Valve, Air-cooled	
Bore x Stroke x Cylinder Displacement	52 x 45.6mm x 1	97cc (5.92 CID)
Compression Ratio	6.8:1	
Piston Skirt Clearance (new/max.)	.030 ~ .035mm (.0012 ~ .0014")/0.1mm (.004")	
Ring End Gap (top/2nd/3rd)	0.15 ~ 0.35mm (.006 ~ .014")/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")	Black
<b>CARBURETOR (mfr) (type) (I.D. number)</b>	Mikuni VM20SH	46390
Main Jet	No. 110	
Needle Jet	O-6	
Jet Needle/Clip Position	4F10-3	
Cut Away	2.0	
Pilot Jet	No. 22.5	
Air Jet	0.5	
Starter Jet	No. 30	
Air Screw (turns out)	1½	
Float Level	21.0 ± 1.0mm	
Air Filter (type x quantity)	Wet Foam Rubber x 1	
<b>DRIVE – Primary (type) (teeth) (ratio)</b>	Helical Gear	74/19 3.894
Secondary (type) (teeth) (ratio)	DK428, 102L	36/15 2.400
Transmission Ratios 1st (teeth) (ratio) (O.A.)	34/12	2.833 26.484
2nd	30/16	1.875 17.526
3rd	26/19	1.368 12.791
4th	24/22	1.091 10.197
5th	22/23	0.956 8.941
6th	φ	
<b>CAPACITIES – Transmission</b>	700cc (23.7 oz.) SAE 10W30 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	157cc (5.3 oz.) 10, 20 or 30 wt. Fork Oil*	
Rear Shocks	φ	
Tires (size/nominal pressure)	Front: 2.50-18/23psi	Rear: 2.75-18/28psi
<b>ELECTRICAL – Charging System (mfr) (type)</b>	Mitsubishi	Flywheel Magneto FOT02772
No Load Voltage Adj. (AC & DC generators)	φ	
Max. Generator (Magneto) Output	N/A	
Field Coil (and/or) Charging Coil Resistance	Yellow: 0.28Ω / Green: .08Ω / Green Red: 0.37Ω	
Battery (mfr) (model) (rating)	G.S. or F.B.	6N4A-4D 6V4AH
Headlight/Taillight Ratings	6V25W/25W	6V5.3W
Ign. Coil Min. Spark Gap/Pri. Res./Sec. Res.	6mm	4.5Ω 6.0KΩ
Condenser Capacity	0.30μf	
Point Gap /Spark Plug (type/gap)	0.3 ~ 0.4mm/NGK B-8HS or Champion L-78/0.5 ~ 0.6mm	
Timing (advanced) (retarded)	1.8 ± 0.15mm BTDC/φ	

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

\*Available from Yamaha Parts Distributors, Inc.