

1976 SERVICE DATA

MODEL – IBM I.D. NUMBER	TY175C	525
Starting Engine and Frame Number	525-100101	525-100101
Basic Color (fuel tank)	White/New Portuguese Orange	
Net Weight	179 lbs.	
ENGINE (type, induction system)	2-stroke, 7-port, Single, Air-cooled	
Bore x Stroke x Cylinder(s) Displacement	66 x 50mm x 1	171cc (10.43 CID)
Compression Ratio	5.8:1	
Piston Skirt Clearance (new/max.)	.040 ~ .045mm (.0016 ~ .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 ~ .05mm (.0012 ~ .0020") / Same / ϕ	
Valve Clearance (eng. cold) Intake/Exhaust	ϕ	
AUTOLUBE – Minimum Pump Stroke/Color Code	0.20 ~ 0.25mm (.008 ~ .010") / Sky Blue	
CARBURETOR (mfr.) (type) (I.D. number)	Mikuni / VM22SS / 52561	
Main Jet	No. 240	
Needle Jet	O-0	
Jet Needle/Clip Position	4L6-4	
Cutaway	3.0	
Pilot Jet	No. 25	
Air Jet	2.5	
Starter Jet	No. 40	
Air Screw (turns out)	1½	
Float Level	21.0 ± 1.0mm	
Air Filter (type x quantity)	Oiled Foam Rubber x 1	
DRIVE – Primary (type) (teeth) (ratio)	Helical Gear	74/19 3.894
Secondary (type) (teeth) (ratio)	DID428H, 111L	51/13 3.923
Transmission Ratios 1st (teeth) (ratio) (O.A.)	34/11	3.091 47.227
2nd	32/13	2.462 37.611
3rd	30/16	1.875 28.649
4th	27/19	1.421 21.713
5th	23/23	1.000 15.279
6th	20/26	0.769 11.753
CAPACITIES – Transmission	650cc (22.0 oz.) Yamalube 4-cycle* or SAE 10W/30 Oil	
Oil Tank or Engine Sump	0.3 qts. Yamalube 2-cycle*	
Fuel Tank	1.1 gals. Low Lead or Unleaded (Regular)	
Front Forks	126cc (4.3 oz.) 10, 20 or 30 wt. Fork Oil*	
Rear Shocks	ϕ	
Tires (size/nominal pressure)	Front: 2.75-21/18psi / Rear: 4.00-18/18psi	
ELECTRICAL – Charging System (mfr.) (type)	Hitachi / Flywheel Magneto	
No Load Voltage Adj. (AC & DC generators)	ϕ	
Max. Generator (Magneto) Output	ϕ	
Field Coil (and/or) Charging Coil Resistance	Yellow - 1.07 Ω ± 10% / Yellow-Red - 0.49 Ω ± 10%	
Battery (mfr.) (model) (charging rate)	ϕ	
Headlight/Taillight Ratings	6V25W/25W / 6V5.3W	
Ign. Coil Min. Spark Gap/Pri. Res./Sec. Res.	6mm / 4.5 Ω / 6.0K Ω	
Source Coil Res./Pulse Coil Res.	1.6 Ω / ϕ	
Condenser Capacity	0.30 μ F	
Point Gap/Spark Plug (type/gap)	0.3 ~ 0.4mm (.012 ~ .016") / NGK B-7ES / 0.5 ~ 0.6mm	
Timing (advanced) (retarded)	1.8 ± 0.15mm B.T.D.C.	

N/A = Information Not Available

* Available from Yamaha Parts Distributors, Inc.

 ϕ = Does Not Apply To This Model