

MOTORCYCLE  
MS-070

TY250C  
1976 SERVICE DATA

MODEL - IBM I.D. NUMBER	TY250C	493
Starting Engine and Frame Number	493-100101	493-100101
Basic Color (fuel tank)	White/French Blue	
Net Weight	205 lbs.	
ENGINE (type, induction system)	2-stroke, 7-port, Single, Air-cooled	
Bore x Stroke x Cylinder(s)	70 x 64mm x 1	248cc (10.01 CID)
Compression Ratio	6.0:1	
Piston Skirt Clearance (new/max.)	.040 ~ .045mm (.0016 ~ .0018") / 0.1mm (.004")	
Ring End Gap (top/2nd/3rd)	0.3 ~ 0.5mm (.012 ~ .020") / 0.2 ~ 0.4mm (.008 ~ .016") / $\phi$	
Ring Groove Clearance (top/2nd/3rd)	.03 ~ .08mm (.0012 ~ .0032") / Same / $\phi$	
Valve Clearance (eng. cold) Intake/Exhaust	$\phi$	
AUTOLUBE - Minimum Pump Stroke/Color Code	0.20 ~ 0.25mm (.008 ~ .010") / Gray	
Carburetor (mfr.) (type) (I.D. number)	Mikuni / VM255 / 49362	No. 150
Main Jet		No. 150
Needle Jet		N-8
Jet Needle/Clip Position		4L-B-3
Cutaway		3.0
Pilot Jet		No. 35
Air Jet		N/A
Starter Jet		No. 40
Air Screw (turns out)		1-1/8
Float Level		23.0 ± 1.0mm
Air Filter (type x quantity)		Oiled Foam Rubber x 1
DRIVE - Primary (type) (teeth) (ratio)		Helical Gear
Secondary (type) (teeth) (ratio)		D/D42BH, 11TL 53/14
Transmission Ratios 1st (teeth) (ratio) (O.A.)		38/14 2.7/14
2nd		35/17 2.058
3rd		32/21 1.523
4th		27/26 1.038
5th		21/32 0.656
6th		$\phi$
CAPACITIES - Transmission		1.000cc (34.0 oz.) Yamaha 4-cycle* or SAE 10W30 Oil
Oil Tank or Engine Sump		0.37 qts. Yamaha 2-cycle*
Fuel Tank		1.3 gals.
Front Forks		162cc (5.5 oz.) 10, 20 or 30 wt. Fork Oil*
Rear Shocks		$\phi$
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)		$\phi$
Max. Generator (Magneto) Output		$\phi$
Field Coil (and/or) Charging Coil Resistance		Yellow - 1.2 $\Omega$ / Yellow-Red - 0.4 $\Omega$
Battery (mfr.) (model) (charging rate)		$\phi$
Headlight/Tailight Ratings		6V35W/35W / 6V5.3W
Ign. Coil Min. Spark Gap/Pn. Res./Sec. Res.		6mm / 1.7 $\Omega$ 6.0K $\Omega$
Source Coil Res./Pulse Coil Res.		1.8 $\Omega$ / $\phi$
Condenser Capacity		0.30 $\mu$ F
Point Gap/Spark Plug (type/gap)		0.3 ~ 0.4mm (.012 ~ .016") / NGK B-7ES / 0.5 ~ 0.6mm
Timing (advanced) (retarded)		3.1 ± 0.15mm B.T.D.C.

N/A - Information Not Available  
 $\phi$  - Does Not Apply To This Model  
 \*Available from Yamaha Parts Distributors, Inc.

- NOTES:
- 1) Clean Where May
  - 2) Hi-Temp Flat Bl.
  - 3) Hi-Temp Glow B
  - 4) Start Black is ok
  - 5) Glow Black is ok

- NOTES:
- 1) Follow "between"
  - 2) Always use gloss, del
  - 3) Yamaha bare metal used as and even

OFFICIAL  
 French B

Paint Color	100
Chassis Green	
Cherry Red	
French Blue	
Green Green	
Black Red	
Orange Brown	
Cystal Blue	
New Programme Change	
Clear White	
Comp. Yellow	
14-Temp Flat Black	
14-Temp Gloss Black	
14-Temp Green Black	
14-Temp Green Blue	
14-Temp Green	
14-Temp Blue	
14-Temp Red	
14-Temp Yellow	
14-Temp Orange	
14-Temp Purple	
14-Temp Silver	
14-Temp Gold	
14-Temp Bronze	
14-Temp Copper	
14-Temp Nickel	
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T7250 B

MODEL - IBM I.D. NUMBER	TY250A	434
STARTING ENGINE/F FRAME NUMBER	434-000101	434-000101
BASIC COLOR (FUEL TANK)	Competition Yellow / Toba Pearl	
NET WEIGHT	205 lbs.	
ENGINE (TYPE) (INDUCTION SYSTEM)	Air-cooled, two-stroke, 7-port, Reed Valve, Single	
BORE/STROKE/CYLINDERS/DISPLACEMENT	70mm x 64mm x 1 246cc (15.01 CID)	
COMPRESSION RATIO/NOMINAL PRESSURE	N/A	
PISTON SKIRT CLEARANCE (NEW) (MAX.)	0.040 ~ 0.045mm (.0016 ~ .0018") / .004"	
RING END GAP (TOP) (2ND) (3RD)	0.20 ~ 0.40mm (.008 ~ .016") / .020 ~ 0.40mm/φ	
RING GROOVE CLEARANCE (TOP) (2ND) (3RD)	N/A / 0.03 ~ 0.07mm (0.0012 ~ 0.0028") / φ	
VALVE CLEARANCE (ENG. COLD) INTAKE/EXHAUST	φ	
AUTO LUBE - MINIMUM PUMP STROKE/COLOR CODE	0.20 ~ 0.25mm (.008 ~ .010") Pink	
CARBURETOR (MFR) (TYPE) (I.D. NUMBER)	Teikel Y26P 43461	
MAIN JET	No. 112	
NEEDLE JET	S-85	
JET NEEDLE/CLIP POSITION	5C9Z-3	
CUT AWAY	No. 3.0	
PILOT JET	No. 50	
AIR JET	2.5	
STARTER JET	No. 90	
AIR SCREW (TURNS OUT)	1½	
FLOAT LEVEL	21 ± 1.0mm	
AIR FILTER (TYPE) (QUANTITY)	Wet, foam rubber x 1 pc.	
DRIVE - PRIMARY (TYPE) (TEETH) (RATIO)	Helical Gear 68/20 3,400:1	
SECONDARY (TYPE) (TEETH) (RATIO)	DID 428H 112 Links 53/14 3,785:1	
TRANSMISSION RATIOS 1ST (TEETH) (RATIO) (O.A.)	38/14	2.714 34.937
2ND	35/17	2.058 26.500
3RD	32/21	1.523 19.614
4TH	26/26	1.000 12.871
5TH	21/32	0.656 8.447
6TH	φ	φ φ
CAPACITIES - TRANSMISSION (QUANTITY) (TYPE)	1000 ± 50cc Yamalube 4-cycle	
OIL TANK OR ENGINE SUMP (QUANTITY) (TYPE)	350cc Yamalube 2-cycle	
FUEL TANK (QUANTITY) (MINIMUM OCTANE)	1.6 gal. Low Lead	
FRONT FORKS (QUANTITY) (TYPE)	175cc (5.9 oz.) SAE 10W30 Motor Oil "SE"	
REAR SHOCKS (QUANTITY) (TYPE)	φ	
TIRES FRONT/REAR (SIZE) (NOMINAL PRESSURE)	2.75 21/13 psi 400-18/16 psi	
ELECTRICAL - CHARGING SYSTEM (MFR) (TYPE)	Flywheel Magneto	Hitachi F-X161
NO LOAD VOLTAGE ADJ. (AC & DC GENERATORS)	φ	
MAX. MAGNETO OUTPUT (CHARGING) (LIGHTING)	N/A	
FIELD COIL (and/or) CHARGING COIL RESISTANCE	N/A	
BATTERY (MFR) (MODEL) (RATING)	φ	
HEADLIGHT/TAILLIGHT RATINGS	6V 35W/35W 6V 5.3W/17W	
IGN. COIL SPARK GAP (MIN)/PRI. RES./SEC. RES.	7mm @ 300 rpm / 1.7 Ω / 6.0 K Ω	
CONDENSER CAPACITY	0.30 μ /	
POINT GAP (NOMINAL)/SPARK PLUG (TYPE) (GAP)	0.3 ~ 0.4mm (.012 ~ .016") / NGK B-7ES/0.4 ~ 0.5mm	
TIMING (ADVANCED) (RETARDED)	3.1mm BTDC	

290  
N8  
4VI-2

35