XS650D

M6-052

1977 SERVICE DATA

MODEL – ISM I.D. NUMBER	XS650D 113		
Starting Engine and Frame Number	447-700101		
Basic Color (fuel tank)	Max. Maroon, Bountiful Blue		
Net Weight	467 lbs.		
ENGINE (type, induction system)	4-stroke, Twin, O.H.C., Air-cooled		
Bore x Stroke x Cylinder(s) Displacement	75 x 74mm x 2 653cc (39.85 CID)		
Compression Ratio (pressure)	8.4:1		
Piston Skirt Clearance (new/max.)	.050 ~ .055mm (.0020 ~ .0022") / 0.1mm (.004")		
Ring End Gap (top/2nd/3rd)	0.2 ~ 0.4mm (.008 ~ .016") / Same / φ		
Ring Groove Clearance (top/2nd/3rd)	.04 ~ .08mm (.0016 ~ .0032") / .03 ~ .07mm / φ		
Valve Clearance (eng. cold) (intake/Exhaust	IN: .05mm (.002") / EX: 0.15mm (.006")		
AUTOLUBE – Minimum Pump Stroke/Color Code	φ		
CARBURETOR (mfr.) (type) (I.D. number)	Mikuni / BS38 / 58400		
Main Jet	No. 122.5 / M.A.J. 1.0		
Needle Jet	Z-8		
Jet Needle/Clip Position	4M1-3		
Cutaway	No. 120		
Pilot Jet	No. 25		
Air Jet	(1.0) (1.4)		
Starter Jet	No. 1: No. 80 / No. 2: 0.5		
Air Screw (turns out) (idle speed)	1¾ ± ½ (mixture screw - with cap removed)		
Float Level	25.0 ± 1.0mm		
Air Filter (type & quantity)	Dry Foam Rubber x 2 1,200rpm		
DRIVE Primary (type) (teeth) (ratio)	Spur Gear	72/27	2.667
Secondary (type) (teeth) (ratio)	DK530HDS, 103L	34/17	2.000
Transmission Ratios 1st (teeth) (ratio) (O.A.)	32/13	2.461	11.039
2nd	27/17	1.588	8.470
3rd	26/20	1.300	6.933
4th	23/21	1.095	5.841
5th	22/23	0.956	5.101
6th	φ		
CAPACITIES – Transmission	(See Engine Oil) Yamalube 4-cycle* SAE20W40		
Oil Tank or Engine Sump	Change=2,000cc Total=2,500cc		
Fuel Tank	4.0 gals. Low Lead (Regular) or Unleaded		
Front Forks	168cc (5.7 oz.) 20wt. Fork Oil*		
Rear Shocks	φ		
Tires (size normal pressure)	Front: 3.50H-19/23psi Rear: 4.00H-18/28psi		
ELECTRICAL – Charging System (mfr.) (type)	Hitachi / Regulated A.C. Generator		
No Load Voltage Adj. (AC & DC generators)	14.5 ± 0.5V @ 3,000rpm		
Max. Generator (Magnetic) Output	14V 11A @ 2,000rpm		
Field Coil (and or) Charging Coil Resistance	N/A		
Battery (mfr.) (model) (rating) (charge rate)	YUASA / YB14L-A2 12V 14AH / 1.4A x 10 hrs		
Headlight/Taillight Ratings	12V50W/e0W / 12V8W		
Ign. Coil Min. Spark Gap/Pri. Res./Sec. Res.	7mm @ 7,000rpm 3.9Ω 8.0KΩ		
Source Coil Res./Pulse Coil Res.	φ		
Condenser Capacity	0.22μF		
Point Gap/Spark Plug (type/gap)	0.35mm (.014") NGK BP-7ES / 0.6 ~ 0.7mm		
Timing (advanced) (retarded)	(41.5° @ 3,300rpm) (13 ~ 17° @ 1,200rpm		