XS850G
1980 SERVICE DATA

MODEL - IBM I.D. NUMBER	XS850G-8 XS850G-R 3J3
Initial Engine Number / Frame Number	3J3-000101 / 3J3-000101
Basic Color(s)	Black Blue (B) New Ruby Red (R)
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Regular / 17 Lit. (4.5 Gal.) / 3.0 Lit. (0.8 Gal.)
Dry Vehicle Weight	241 kg (531 lbs.)
ENGINE TYPE	4-Stroke, DOHC, Air Cooled, Transverse Triple
Bore, Stroke/Number Cylinders, Displacement (cc)	71.5mm / 68.6mm 3 826cc
Compression Ratio Compression Pressure Min~Max	9.2: 1 9 ~ 11 kg/cm²
Piston Skirt Clearance New Max	0.050 ~ 0.055mm / 0.1mm
Ring End Gap Top 2nd 3rd	0.2 ~ 0.4mm / 0.2 ~ 0.4mm / 0.3 ~ 0.9mm
Valve Clearance (Cold) Intake Exhaust	0.11 ~ 0.15mm / 0.21 ~ 0.25mm
Oil Pressure Hot rpm	2.0 kg/cm² @ 60°C / 1100 rpm @ Oil Pessure Switch
Oiling System	Wet Sump
Capacity: Dry	3700cc
Oil and Filter Change	3100cc
Oil Change	2800cc
Lubricant: Temp. above 5°C (40°F)	Yamalube 4° or SAE 20W40 SE Motor Oil
Below 15°C (60°F)	SAE 10W30 SE Motor Oil
AUTOLUBE - Min. Stroke / Color Code	∅
Minimum Output @ 200 Cycles	∅
Maximum Output @ 200 Cycles	∅
CARBURETOR - Mfr./Type/I.D. Number	Hitachi / HSC34-10 3J3-00
Main Jet / Pilot Jet	#42 40
Needle Jet / Jet Needle Clip Position	2.6 / Y-01 Fixed
Slide Cutaway or Throttle Valve	1.3° (#130)
Float Level	12.5 ± 1.0mm
Idle rpm	1100 ± 50 rpm
CO % @ Idle (Diagnostic Use Only)	NA
SUSPENSION	
Front Forks: Oil Type / Level Qty	10 Wt. Fork Oil° or Equivalent ∅ / 195cc
Gas Pressure	0.4 kg/cm² (5.7 psi)
Spring Length Std.	508.5mm
Monoshock: Oil Type Qty	∅
Gas Pressure	∅
Minimum Brake Lining Thickness	Front 6.0mm Rear 6.0mm
Tire Size (Nominal Pressure)	F 3.25H19(1.8kg/cm² 26psi) R 4.50H17(2.0kg/cm² 28psi)
TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble	See ENGINE above
Primary Drive Type / Teeth Ratio	Spur Gear Silent Chain / 45 27 1.666
Secondary Drive Type Teeth Chain	Shaft Drive / 35-31 x 19-18 x 32-11 ∅
Clutch Friction Plate Thickness Std. ~ Min.	2.8 ~ 2.6mm
Clutch Spring Length Std. ~ Min.	42.8 ~ 41.5mm
Middle Gear Case Capacity	375cc
Final Gear Case Capacity	300cc
Gear Case Lubricant: Temp. above 5°C (40°F)	SAE 90 Hypoid Gear Oil GL 4
Temp. below 15°C (60°F)	SAE 80 Hypoid Gear Oil GL 4
All Weather Conditions	SAE 80W90 Hypoid Gear Oil GL 4

CHARGING SYSTEM	AC Generator / 3 Phase / Full Wave
Battery Model · Spec. Grav. · Chg. Rate	Yuasa YB14L (12V 14AH) / 1.28 / 1.4A
Maximum Output	14V20A @ 5000 rpm
TROUBLESHOOTING	
Field Coil Color Code · Ω	Rotor:Grn~Blk/3.5Ω ± 10% Stator:Wht~Wht/0.48Ω ± 10%
Charge Coil Color Code · Ω	ø
IGNITION SYSTEM	Transistor Controlled Ignition
Ignition Timing	10° Mark
	Std: 10° @ 1100 rpm Adv: 34° @ 4000 rpm
Spark Plug Type	NGK BP-7ES or Champion N-7Y
Spark Plug Gap · Torque · Cap Ω	0.7 ~ 0.8mm · 2.0 m-kg 5K Ω ± 20%
Point Gap · Condenser Capacitance	ø / ø
TROUBLESHOOTING	
Ignition Coil Test Gap Primary Ω · Secondary Ω	6mm 2.75 Ω ± 10% / 7.9K Ω ± 20%
Pulser Coil or Pick up Coil Color Code · Ω	Org ~ Blk / Yel ~ Blk / Gry ~ Blk · 700 Ω ± 20%
Source Coil Color Code · Ω	ø
LIGHTING SYSTEM	
Headlight · Taillight · Signal Rating	12V60/55W / 12V27/8W / 12V27W
TROUBLESHOOTING	
Lighting Coil Color Code · Ω	ø
TORQUE VALUES	
Front Axle Nut	14 x 1.5: 10.0 m-kg
Front Axle Holder Nut	8 x 1.25: 2.0 m-kg
Rear Axle Nut	18 x 1.5: 16.0 m-kg
Rear Axle Pinch Bolt	8 x 1.25: 0.6 m-kg
Clutch Nut	24 x 1.5: 11.0 m-kg
Drain Plug	14 x 1.5: 4.3 m-kg
Cylinder Head Cover	6 x 1.0: 1.0 m-kg
Cylinder Head	10 x 1.25: 3.5 m-kg (Use Oil)
	8 x 1.25: 2.3 m-kg (Use Oil)
Engine Mounting Bolts Front	10 x 1.25: 5.5 m-kg
Rear	12 x 1.25: 2.6 m-kg

ø Does Not Apply To This Model

*Available From Yamaha Parts Distributors, Inc.