

XS750F

1979 SERVICE DATA

M8-042

MODEL - IBM I.D. NUMBER	XS750F-BU	XS750F-BG	2F3
Initial Engine Number/Frame Number	1J7-240101 / 1J7-240101		
Basic Color(s)	Vintage Burgundy (BU) Black Gold (BG)		
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Regular / 17 Lit. (4.5 Gal.) / 2.6 Lit. (0.7 Gal.)		
Dry Vehicle Weight	237 kg (523 lbs.)		
ENGINE TYPE	4-Stroke, DOHC, Air-Cooled		
Bore/Stroke/Number Cylinders/Displacement (cc)	68mm / 68.6mm / 3 / 747cc		
Compression Ratio/Compression Pressure min ~ max	9.2: 1 / 9 ~ 11 kg/cm ²		
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 / 0.2 ~ 0.9mm		
Valve Clearance (cold) Intake/Exhaust	0.16 ~ 0.20mm / 0.21 ~ 0.25mm		
Oil Pressure hot/rpm	2.0 kg/cm ² @60°C/1100rpm @ Oil Pressure Switch		
Oiling System	Wet Sump		
Capacity: Dry	3500cc		
Oil and Filter Change	3100cc		
Oil Change	2800cc		
Lubricant: Temp above 5°C (40°F)	Yamalube 4* or SAE 20W40SE Motor Oil		
Below 15°C (60°F)	SAE 10W30SE Motor Oil		
AUTOLUBE - Min. Stroke/Color Code	∅		
Minimum Output @ 200 cycles	∅		
Maximum Output @ 200 cycles	∅		
CARBURETOR - Mfr./Type/I.D. Number	Mikuni / BS34-II / 2F3-00		
Main Jet/Pilot Jet	130 / 42.5		
Needle Jet/Jet Needle-Clip Position	Y-O / 5HX6-3		
Slide Cutaway or Throttle Valve	135		
Float Level	25.7 ± 1.0mm		
Idle RPM	1000 rpm		
CO % @ Idle (Diagnostic Use Only)	3 ± 2%		
SUSPENSION			
Front Forks: Oil Type/Level/Qty.	Yamaha 10 wt. Fork Oil* or Equivalent / 190cc		
Gas Pressure	∅		
Spring Length Std.	498mm		
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/cm ² /26 psi) R: 4.00H18(2.0kg/cm ² /28 psi)		
TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble	See ENGINE above		
Primary Drive Type/Teeth/Ratio	Silent Chain / 45-27 / 1.666		
Secondary Drive Type/Teeth/Chain	Shaft Drive / 35-30 x 19-18 x 32-11 / ∅		
Clutch Friction Plate Thickness Std ~ min.	3.0 ~ 2.8mm		
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	A.C. Generator / Three Phase / Full Wave
Battery: Model / Spec. Grav. / Chg. Rate	Yuasa YB14L (12V14AH) / 1.28 / 1.4A
Maximum Output	14.5V 18A @ 5000 rpm
TROUBLESHOOTING	
Field Coil Color Code / Ω	Rotor: Grn ~ Blk / $3.5 \Omega \pm 10\%$ Stator: Wht ~ Wht / $0.48 \Omega \pm 10\%$
Charge Coil Color Code / Ω	ϕ
IGNITION SYSTEM	Transistor Controlled: Battery and Coil
Ignition Timing	10° Mark
	Std: 10° @ 1000 rpm Adv: 34° @ 4000 rpm
Spark Plug Type	NGK BP-7ES or Champion N-7Y
Spark Plug Gap / Torque / Cap Ω	0.7 ~ 0.8 / 2.0 m·kg / $5K \Omega$
Point Gap / Condenser Capacitance	ϕ
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / $2.75 \Omega \pm 10\%$ / $7.9K \Omega \pm 20\%$
Pulse Coil or Pick-up Coil Color Code / Ω	Org ~ Blk / Yellow ~ Blk / Gry ~ Blk / $560 \Omega \pm 20\%$
Source Coil Color Code / Ω	ϕ
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	12V60-55W / 12V27-8W / 12V27W
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	ϕ
TORQUE VALUES	
Front Axle Nut	14 x 1.5: 10.7 m·kg
Front Axle Holder Nut	8 x 1.25: 2.0 m·kg
Rear Axle Nut	18 x 1.5: 15.0 m·kg
Rear Axle Pinch Bolt	8 x 1.25: 0.6 m·kg
Clutch Nut	24 x 1.5: 11.5 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 (oil)
	8 x 1.25: 2.0 m·kg (oil)
Engine Mounting Bolts:	Front: 10 x 1.25: 5.5 m·kg
	Rear: 12 x 1.25: 9.5 m·kg

ϕ Does Not Apply to This Model

* Available From Yamaha Parts Distributors, Inc.