

# XS650E

## 1978 SERVICE DATA

M7-C42

<b>MODEL - I.D. NUMBER</b>	XS650EB / XS660EG - 2F0
Initial Engine Number/Frame Number	2F0-000101 / 2F0-000101
Basic Color(s)	Star Black or Spruce Green Metallic
<b>ENGINE TYPE</b>	4-stroke, air-cooled, SOHC
Bore/Stroke/Number Cylinders/Displacement (cc)	75mm / 74mm / 2 / 653cc
Compression Ratio/Compression Pressure min. ~ max.	8.5:1 / 128 ~ 156 psi
Piston Skirt Clearance new/max.	.050 ~ .055mm / 0.1mm
Ring End Gap top/2nd/3rd	0.2 ~ 0.4mm / same / 0.3 ~ 0.9mm
Valve Clearance (cold) Intake/Exhaust	0.10mm / 0.15mm
Oil Pressure hot/rpm	ϕ
Oil Tank or Engine Sump Capacity	Oil Chg 2000cc / Dry 2500cc
<b>AUTOLUBE - Min. stroke/Color code</b>	ϕ
Minimum Output @ 200 strokes	ϕ
Maximum Output @ 200 strokes	ϕ
<b>CARBURETOR - mfr./type/I.D. number</b>	Mikuni / BS18 / 2F0 00
Main Jet/Pilot Jet	135 / 27.5
Needle Jet/Jet Needle-Clip Position	2.2 / 502-3
Slide Cutaway or Throttle Valve	120
Float Level	24mm ± 1mm
Mixture Screw - turns out/idle rpm	2 1/4 / 1200 ± 50 rpm
<b>SUSPENSION</b>	
Front Forks: Oil type/level/qty	10 wt. Fork Oil / ϕ / 169cc
Gas Pressure	ϕ
Spring Length std	482mm
Monoshock: Oil type/qty	ϕ
Gas Pressure	ϕ
<b>TRANSMISSION - oil type/qty chg/qty reassemble</b>	SAE20W40 (Yamalube 4*) See ENGINE
Primary drive type	Spur Gear
Secondary type/teeth/chain	Chain / 34-17 / DK530HDS · 104L
Clutch Friction Plate Thickness std ~ min.	3.0mm ~ 2.7mm
Clutch Spring Length std ~ min.	34.6mm std
Tires size (nominal pressure)	Front: 3.50H19 (23psi) Rear: 4.00H18 (28psi)
<b>ELECTRICAL - System/Type</b>	AC Generator / Battery & Coil
Maximum Output	14V11A @ 2000 rpm
Field Coil Color Code/Ω	Rotor: 5.25Ω ± 10% Stator: 0.46Ω ± 10%
Charging Coil Color Code/Ω	ϕ
Source Coil Color Code/Ω	ϕ
Lighting Coil Color Code/Ω	ϕ
Pulse Coil or Pickup Coil Color Code/Ω	ϕ
Ignition Coil test gap / Primary Ω / Secondary Ω	6mm / 3.9Ω ± 10% / 8KΩ ± 20%
Battery-model/spec. grav./chg rate x hour	Yuasa YB14L (12V14AH) / 1.280 / 1.4A x 10 hr
Headlight/Tailight/Signal Rating	12V 50-40W / 12V 27-8W / 12V 27W
Point Gap/Condenser Capacitance	0.30 ~ 0.40mm / 0.22μF ± 10%
Spark Plug Type	Champion N7Y
Spark Plug Gap/Torque/Cip Ω	0.7 ~ 0.8mm / 2.0kg-m / 10KΩ
Timing Static	15° Mark
Dynamic	STD 15° @ 1200 rpm ADV 41.5° @ 3500 rpm