# XS650E

M7-042

# 1978 SERVICE DATA

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| **MODEL – 13M I.D. NUMBER** | XS650EB / XS650EG – 2F0 |
| Initial Engine Number/Frame Number | 2F0-000101 / 2F0-000101 |
| Basic Color(s) | Star Black or Spruce Green Metallic |
| **ENGINE TYPE** | 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 |
| **AUTOLUBE** – Min. stroke/Color code | ϕ |
| Minimum Output @ 200 strokes | ϕ |
| Maximum Output @ 200 strokes | ϕ |
| **CARBURETOR** – mfr./type/I.D. number | Mikuni / BS38 / 2F0 00 |
| Main Jet/Pilot Jet | 135 / 27.5 |
| Needle Jet/Jet Needle-Clip Position | Z-2 / 502-3 |
| Slide Cutaway or Throttle Valve | 120 |
| Float Level | 24mm ± 1mm |
| Mixture Screw – turns out/idle rpm | 2¼ / 1200 ± 50 rpm |
| **SUSPENSION** | |
| 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 |
| **TRANSMISSION** – oil type/qty chg/qty reassemble | 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) |
| **ELECTRICAL** – System/Type | 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/Taillight/Signal Rating | 12V-50-40W / 12V-27-8W / 12V27W |
| Point Gap/Condenser Capacitance | 0.30 ~ 0.40mm / 0.22μF ± 10% |
| Spark Plug Type | Champion N7Y |
| Spark Plug Gap/Torque/Cap Ω | 0.7 ~ 0.8mm / 2.0kg-m / 10KΩ |
| Timing Static | 15° Mark |
| Dynamic | STD 15° @ 1200 rpm ADV 41.5° @ 3000 rpm |