

YAMAHA Service Data

Model FS1E_{78,79}

SPECIFICATIONS	UNIT	
Engine Displacement	cc	49
Bore × Stroke	mmxmm	40 × 39.7
Compression Ratio (2 stroke)		6.9:1
Head Gasket Thickness (2 stroke)	mm	0.50
Cylinder Material and Sleeve		Cast Iron
Ring Type	Keystone	
Ring Groove Side Clearance	mm	0.03–0.04
Valve Clearance (Cold)	mm	in ex
Lubrication, Minimum Pump Stroke	mm	0.20–0.25
Oil Pump Colour Code		
Pump Cable Adjustment		At idle
Oil Tank Capacity	Litres	1.15
Clutch Type	Oil Bath	Multiplate
Clutch Friction Plate Thickness and Wear Limit	mm/mm	3.5/3.2
Clutch Plate Warp Limit	mm	0.05
Clutch Spring Length	mm	34
Carburettor Type and Manufacturer	Mikun	VM 16 SC
Main Jet		150
Air Jet		0.5
Jet Needle — Clip Position		3G9–3
Needle Jet		E–4
Slide Cutaway		1.5
Pilot Jet		25
Air Screw (Turns Out)		1¾
Starter Jet		50
Float Height	mm	23 ± 1.0

SPECIFICATIONS	UNIT	
Ignition Timing	Dial Gauge	1.8mm BTDC
Suppressor Cap Resistance	Kohms	5.0
Spark Plug Type and Gap	NGK/mm	B7HS/0.6-0.7
Point Gap and Dwell	mm/0°	0.30-0.40
Condenser Capacity	μf	0.25
Minimum Spark Gap	mm	6
Ignition Coil Type		F6T40177
Primary Coil Resistance	Ohms	1.02
Secondary Coil Resistance	Kohms	6.0
Lighting/Charging Coil Resistance	Ohms	Y 0.3 G 0.3
Charge Coil/Pulse Oil Resistance	Ohms/Ohms	N/A
Battery Type and Capacity	Volt/amps	6V/4Ah
Head Light Bulb Wattage (High/Low)	Watts	18/18
Tail Light/Stop Light Wattage	Watts	5/21
Indicator Bulb Wattage	Watts	10
Main Fuse Rating	Amps	10A
Electro Magnet Resistance	Ohms	N/A
Crankshaft Width A	mm	38
Crankshaft Width B	mm	
Crankshaft Deflection C	mm	0.03
Big End Con Rod Clearance	mm	0.2-0.5
Big End Bearing Type		Needle Roller
Small End Bearing Type		Needle Roller

SPECIFICATIONS	UNIT	
Frame Type	Steel	Pressed back bone
Front Suspension Type	Telescopic	Oil filled
Front Fork Travel	mm	85
Front Fork Spring Free Length	mm	
Front Fork Oil Capacity	cc/SAE	137/20 or 30
Rear Suspension Type		Swinging arm
Rear Spring Free Length	mm	
Shock Absorber Travel	mm	65
Machine Weight	Kg	71
Seat Height	mm	775
Fuel Tank Capacity	Litres	6.5
Wheel Type		Spoke
Tyre Size and Pressures	.../psi	2.50-17/26 2.50-17/28
Rim Runout (Vertical and Lateral)	mm	2/2
Drive Chain Free Play	cm	2-2.5
Chain Type and Pitch and No of Links	DID520DS	95 links
Front Brake Type	Disc	
Rear Brake Type		Drum
Shoe/Pad Wear Limit		2mm/To safety line
Brake Fluid Type	DOT	3
Torque Settings	Kg/M	
Cylinder Head/Barrel Bolts		0.8-1.0
Drive Sprocket		5.0-7.0
Clutch Boss		5.0-7.0
Crankshaft Drive Pinion		5.0-8.0