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# 1. SPECIFICATIONS

## SPECIFICATIONS

Name & Model		BA10AB.AC	
Overall length (mm)		1850	
Overall width (mm)		685	
Overall height (mm)		1075	
Wheel base (mm)		1270	
Engine type		Air cooled 2-stroke	
Displacement (cc)		49.5 cc	
Net weight (kg)	Front wheel	37	
	Rear wheel	58.5	
	Total	95.5	
Seating capacity		2 riders (110kg)	
Gross weight(kg)	Front wheel	79	
	Rear wheel	126.5	
	Total	205.5	
Tires	Front wheel	70/90-16 42J	
	Rear wheel	90/90-16 54J	
Ground clearance (mm)		175	
Braking distance (m) (Initial speed Km/h)		4.4m (30km/h)	
Min. turning radius (mm)		1900	
Starting system		Starting motor & kick starter	
Fuel type		Gasoline, 2-stroke motor oil	
Cylinder arrangement		Single cylinder, flat	
Combustion chamber type		Semi-sphere	
Valve arrangement		Reed valve & piston	
Bore x stroke (mm)		39 x 41.4	
Compression ratio		10.3:1 ±0.2	
Compression pressure (kg/cm <sup>2</sup> rpm)		11.8kg/cm <sup>2</sup> ±2	
Max. output (kw/r/min)		1.765/5400 kw/r/min	
Max. torque (kg m/rpm)		0.33/4600 kg m/rpm	
Port timing	Intake	Open	Automatic controlled
		Close	Automatic controlled
	Exhaust	Open	□
		Close	□
	Scavenge	Open	□
		Close	□
Idle speed (rpm)		2000±100	
Lubrication type		Separate type	
Oil pump type		Plunger type	
Oil filter type		Full-flow filtration	

Lubrication oil capacity (liter)		1.1	
Air cleaner type & No.		Wet, single	
Fuel capacity (liter)		5.8	
Carburetor	Type	Plunger type	
	Piston dia. (mm)	□	
	Venturi dia. (mm)	16	
Ignition system type		CDI electromagnetic Ignition	
Ignition timing F mark		8°~14°±1.5°BTDC/2000 rpm	
Spark plug	NGK	BR8HSA	
	ND		
Spark plug gap (mm)		0.6_ 0.7	
Battery capacity		12V4AH	
Power to transmission gear		Power-transmission gear-clutch	
Reduction ratio of power to transmission		□	
Clutch type		Dry multi-disc clutch	
Transmission gear operation type		Automatic centrifugal type	
Transmission ratio		1 speed	
Reduction gear	Type	Two-stage reduction	
	1st reduction ratio	3.113~0.895	
	2nd reduction ratio	14.69	
Transmission gear type		Non-stage transmission	
Tire pressure (kg/cm <sup>2</sup> )	Front	1.75 kg/cm <sup>2</sup> ≤	
	Rear wheel	2.0 kg/cm <sup>2</sup> ≤	
Turning angle		Right & left 45°	
Brake svstem type	Front	Expanding/hydraulic	
	Rear wheel	Expanding	
Suspension type	Front	Telescope	
	Rear wheel	Unit swing	
Shock absorber type	Front	Telescope	
	Rear wheel	Unit swing	
Frame type		Pipe under bone	