

# SPECIFICATIONS

Model Numbers	40502 (Big Twin, standard length) 40503 (Big Twin, 5" longer) 40552 (Big Twin Electric, standard length) 40553 (Big Twin Electric, 5" longer) 40562, 40572 (Lark, standard length) 40563, 40573 (Lark, 5" longer)	Alternate propellers	10-3/8" diameter x 14" pitch 10-3/8" diameter x 12-1/2" pitch 10-3/8" diameter x 11-1/2" pitch
*Horsepower (O.B.C.-certified)	40 hp at 4500 rpm	Speed control	Big Twins - Knob on steering bracket or remote control Lark - Remote control Synchronized throttle and spark
Full throttle operating range	4000 to 5000 rpm	Gear shift control	Forward, neutral, reverse - Lark - Selectric push-button remote control
Engine type	2 cylinder, 2 cycle	Weight (without fuel tank)	Model 40502 - 132 lbs. Model 40503 - 138 lbs. Model 40552 - 145 lbs. Model 40553 - 151 lbs. Models 40562, 40572 - 159 lbs. Models 40563, 40573 - 164 lbs. (Fuel tank weight 12 lbs. net)
Bore and stroke	3-3/16" bore x 2-3/4" stroke	Fuel capacity	6 gallons, suction type tank
Piston displacement	43.9 cubic inches	Starter	Big Twin - Simplex self-rewinding Big Twin Electric and Lark-Electric
Piston ring sets (3 per set) standard Part Number 380108 .025" oversize Part Number 380109		Starter amp draw when cranking	120 amperes maximum
Diameter of ring	3.1875 in. (standard)	Ignition	Flywheel magneto
Width of ring	.0935 - .0925 in.	Spark plug	AC-M42K, Champion J4J, Auto-Lite A21X - 14mm
Lbs. compression recommended when compressed	7 to 10.4 lbs.	Spark plug gap	.030 inch
Piston less rings standard Part Number 378695 .025" oversize Part Number 378697		Spark plug torque	20 - 20-1/2 foot-pounds
Crankshaft size top journal 1.2500 - 1.2495 in. center journal 1.000 - .9995 in. bottom journal 1.000 - .9995 in.		Breaker point gap	.020 inch
Connecting rod crank pin	1.1828 - 1.1823 in.	Condenser capacity	.25 - .29 mfd.
Cooling system	Thermostatically controlled recirculating system	Carburetion	Float feed with low-speed adjustment. Spring-loaded choke (Big Twin) or automatic choke and manual lever (Big Twin Electric and Lark)
Propeller gear ratio	12.21	Float level setting	Remove float bowl, turn it upside down so weight of float closes needle; float should now be even with rim of casting.
Propeller drive pin	Part No. 304575, 1/4" x 1-15/32" stainless steel	Carburetor orifice plug	Hole size .064"
Propeller	10-3/8" diameter x 13-1/4" pitch, 3-blade	Inlet needle seat	.065 - .062 Use a #52 drill as gage.

\*Horsepower established at sea level. Allow 2% reduction per 1000' above sea level.