

SPECIFICATIONS

Models		Weight (without fuel tank)	Model V4S-20 - 232 pounds Model V4SL-20 - 236 pounds Model V4A-20 - 240-1/2 pounds Model V4AL-20 - 246 pounds (Fuel tank weight - 11 pounds net)
V4S-20	Manual Shift, Standard length		
V4SL-20	Manual Shift, 5" longer		
V4A-20	Electric Shift, Standard length		
V4AL-20	Electric Shift, 5" longer		
*Horsepower (O.B.C.-certified)	85 hp at 5000 rpm	Fuel capacity	6 gallons, suction type tank
Full throttle operating range	4000 to 5000 rpm (5500 Under Limited Conditions)	Electrical system	Alternating current generator
Tank test with test wheel	4700 R.P.M.	Starter	Electric and emergency rope
Engine type	90° V-type, 4 cylinder, 2 cycle	Starter amp draw when cranking	Maximum 140 amp
Bore and stroke	3-3/8" bore x 2-1/2" stroke	Ignition	CD Electronic Ignition System with Breaker Points
Piston displacement	89.5 cubic inches	Spark plug	Champion L19V
Piston ring sets (3 per set)		Spark plug torque	17-1/2 - 20-1/2 foot-pounds
standard	Part Number 380110	Breaker point gap	.010 inch
.020" oversize	Part Number 380111	Carburetion	Twin barrel, down draft, float feed, low-speed adjustment, automatic thermo electric choke
.040" oversize	Part Number 380112		
Diameter of ring	3.375 in. (standard)	Float level setting	Remove carburetor cover and turn upside down, so that weight of float closes float needle. With float arms straight, float should be parallel with face of casting (approximately 1/4" from casting).
Width of ring	.0935 - .0925 in.	Carburetor orifice plug	Hole size .064"
Lbs. compression recommended when compressed	9.7 to 13.7 lbs.	Inlet needle seat	.081" to .084". Use a #45 drill as gage
Piston less rings standard	Part Number 380569	Part No. 580688 Coil Test Specifications - New Stevens Tester Model No. M.A. - 75	
.020" oversize	Part Number 378814		
.040" oversize	Part Number 378815		
Crankshaft size		Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980	
top journal	1.2658 - 1.2653 in.		
center journal	1.3752 - 1.3748 in.		
bottom journal	1.1815 - 1.1810 in.		
Connecting rod crank pin	1.1828 - 1.1823		
Cooling system	Thermostatically controlled recirculating system		
Propeller gear ratio	20:23		
Propeller drive pin - standard	Part #307217, 9/32" x 2-5/32", stainless steel		
Propeller standard	10-1/4" diameter x 10" pitch		
Propeller options	9-1/2" diameter x 10" pitch 10" diameter x 9-1/4" pitch 10" diameter x 11" pitch 10" diameter x 12" pitch		
Speed control	Remote control only		
Gear shift control	Forward, Neutral, and Reverse - Model V4S - Manual or remote control Model V4A - Electramatic Single Lever remote control		
		Operating Amperage	Primary Resistance
		Min. - Max.	Min. - Max.
		.8 - 1.2	22.5 - 25
		Secondary Continuity	Min. - Max.
			22.5 - 25
		Graham Tester Model 51	
		Suggested test specifications for Coil #580688	
		Secondary Continuity	3,000 ohms max.
		Primary Continuity	1.2 ohms max.
		Coil Index	60
		Coil Test (Normal)	9 minimum
		Coil Test (Amplified)	80 minimum
		Gap Index	50 maximum

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