SPECIFICATIONS

Model Numbers . . . . . 20R69 - Standard length (15" transom)
20RL69 - 5" longer (20" transom)
*Horsepower (O.B.C.-certified) . . . . . 20 hp at 4500 rpm
Full throttle operating range . . . . . 4000 to 5000 rpm
Tank test with test wheel. . . . . 4450 rpm
Engine type . . . . . 2 cylinder, 2 cycle, alternate firing
Bore and stroke . . . . . 2-1/2" bore x 2-1/4" stroke
Piston displacement . . . . . 22.0 cubic inches
Piston ring sets (2 per set) standard . . . . . Part Number 383473
.020" oversize . . . . . Part Number 383474
.040" oversize . . . . . Part Number 383475
Diameter of ring . . . . . 2.5000 in. (standard)
Width of ring . . . . . .0625 - .0615 in.
Lbs. compression recommended
when compressed. . . . . 3 to 5-1/2 lbs.
Piston less rings standard . . . . . Part Number 383476
.020" oversize . . . . . Part Number 383477
.040" oversize . . . . . Part Number 383478
Crankshaft size
Top journal . . . . . 1.0000 - .9995 in.
Center journal . . . . . 1.0000 - .9995 in.
Bottom journal . . . . . 1.0000 - .9995 in.
Connecting rod crank pin . . . . . 1.0005 - 1.0000 in.
Carburetion . . . . . Single barrel, float feed, low-speed adjustment
Float level setting . . . . . Parallel to and 1/16 above gasket surface
Carburetor orifice plug 309517. . . . . .072"
Inlet needle seat . . . . . .065" - .062" Use a #52 drill as a gage
Cooling system . . . . . Vari-Volume (combination positive displacement and centrifugal pump). Thermostatically controlled by-pass system
Propeller gear ratio. 12:21
Propeller drive pin . . . . . Part Number 307949 3/16" x 1-25/64" stainless steel
Propeller, supplied with motor . . . . . 3 blade, 9" dia. x 10" pitch
Speed control . . . . . Twist grip, synchronized throttle and spark
Gear shift control . . . . . Forward, neutral and reverse
Weight (less fuel tank) . . . . . 20R69-80 lbs., 20RL69-82 lbs.
Fuel tank (net) . . . . . 11 lbs.
Fuel capacity . . . . . 6 gallons, suction type tank
Starter. . . . . Manual Self-rewinding
Ignition . . . . . Flywheel magneto
Spark plug . . . . . AC-M42K, Champion J4J, Auto-Lite A21X - 14 mm
Spark plug gap . . . . . .030 inch
Spark plug torque . . . . . 17-1/2 - 20-1/2 Foot-pounds
Breaker point gap . . . . . .020 inch
Condenser . . . . . Part Number 580422
Capacity . . . . . .25 - .29 Mfd.
Part No. 580197 Coil Test Specifications -

Old Stevens Tester

Switch	Index Reading
B	1.5 - 2.0

New Stevens Tester Model No. M.A.-75

Switch	Index Adjustment
A	22

Merc-O-Tronic

Operating Amperage	Primary Resistance		Secondary Continuity	
	Min.	Max.	Min.	Max.
1.40			42	52

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