

# SPECIFICATIONS

Model Numbers 40402 - Standard length (15" transom)  
 40403 - 5" longer (20" transom)  
 40452 - Standard length (15" transom)  
 40453 - 5" longer (20" transom)

**NOTE:** The recommended full power operating range for your outboard motor is from 4000 - 5000 R.P.M. In order to get the best performance from your outboard the upper end of this range, from 4500 - 5000 R.P.M., is the engine speed to use in selecting the proper propeller. The R.P.M. should be measured with your expected average load in the boat.

Horsepower (B.I.A. certified) 40 hp at 4500 rpm

Full throttle operating range 4000 to 5000 rpm

Tank test with test wheel 4500 rpm Part Number 378566

Engine type 2 cyl., 2 cycle, alternate firing

Bore and stroke 3-3/16" bore x 2-3/4" stroke

Piston displacement 43.9 cubic inches

Piston ring sets (2 per set)

standard Part Number 384699

.030" oversize Part Number 384718

Diameter of ring 3.1875 in. (standard)

Width of ring Upper - .0900 - .0895 in.  
 Lower - .0615 - .0625 in.

Lbs. compression recommended when compressed Upper - 1.0 to 3.0 lbs.  
 Lower - 4 to 8 lbs.

Piston less rings

standard Part Number 384692

.030" oversize Part Number 384715

Crankshaft size

Top journal 1.4979 - 1.4974

Center journal 1.3752 - 1.3748

Bottom journal 1.1815 - 1.1810

Connecting rod crank pin 1.1828 - 1.1823 in.

Carburetion Single barrel, float feed, fixed high speed adjustable low-speed, manual or electric choke

High speed orifice plug Part Number 317183  
 Identification Number 67C  
 Check with #51 drill

Float level setting Flush with rim of casting

Inlet needle seat .065 - .062  
 Use #52 drill as gage

Cooling system Centri-matic (combination positive displacement and centrifugal pump)

Propeller gear ratio 12:21

Propeller drive pin Part Number 304757, 1/4" x 1-15/32" stainless steel

Propeller supplied with motor 3 blade, 10-1/2" dia. x 13" pitch

Propeller options	3 blade, 10-3/8" dia. x 11-1/2" pitch 3 blade, 10-1/2" dia. x 12" pitch 3 blade, 10-3/8" dia. x 14" pitch 3 blade, 11" dia. x 9" pitch
Speed control	On steering handle - Manual Start. Knob on steering bracket or remote control - Electric Start. Synchronized throttle and spark
Gear shift control	Forward, neutral, and reverse
Weight (without fuel tank)	Model 40402 - 128 lbs. Model 40403 - 131 lbs. Model 40452 - 137 lbs. Model 40453 - 140 lbs. (Fuel tank weight 11 pounds net)
Fuel capacity	6 gallons
Electrical system (Electric start models only)	5 amp flywheel alternator
Starter	Manual - Self-winding Electric - 12 volt, Key start and emergency rope
Starter amperage draw while cranking	120 AMPS Max.
Ignition	Low tension magneto
Spark plug	Champion UL4J, 14mm
Spark plug gap	.030 inch
Spark plug torque	17-1/2 - 20-1/2 foot-pounds
Breaker point	Gap .020 inch
Condenser Capacity Coil	Part Number 580422 .25 - 29 Mfd. Part No. 581407

## COIL TEST SPECIFICATIONS

New Stevens Tester Model No. M.A.-75 or M.A.-80 with M.A.-14 Adapter in Series with High Tension Lead

Switch	Index Adjustment
B	25

## Merc-O-Tronic

Operating Amperage	Primary Resistance		Secondary Continuity	
	Min.	Max.	Min.	Max.
1.7	0.8	1.2	60	70

## Graham Tester Model

Maximum Secondary	Maximum Primary	Coil Index	Minimum Coil Test	Gap Index
20,000 ohms	14.0 ohms	50	24	45

## COIL OHMMETER TEST

Primary (Low Ohms)	Secondary (High Ohms)
1.35 ± .3	13500 ± 1500

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