

1976

Johnson

OUTBOARDS

SERVICE MANUAL

40 HP model

40R76

40E76

40RL76

40EL76



NATIONAL ASSOCIATION
OF SERVICE MANAGERS

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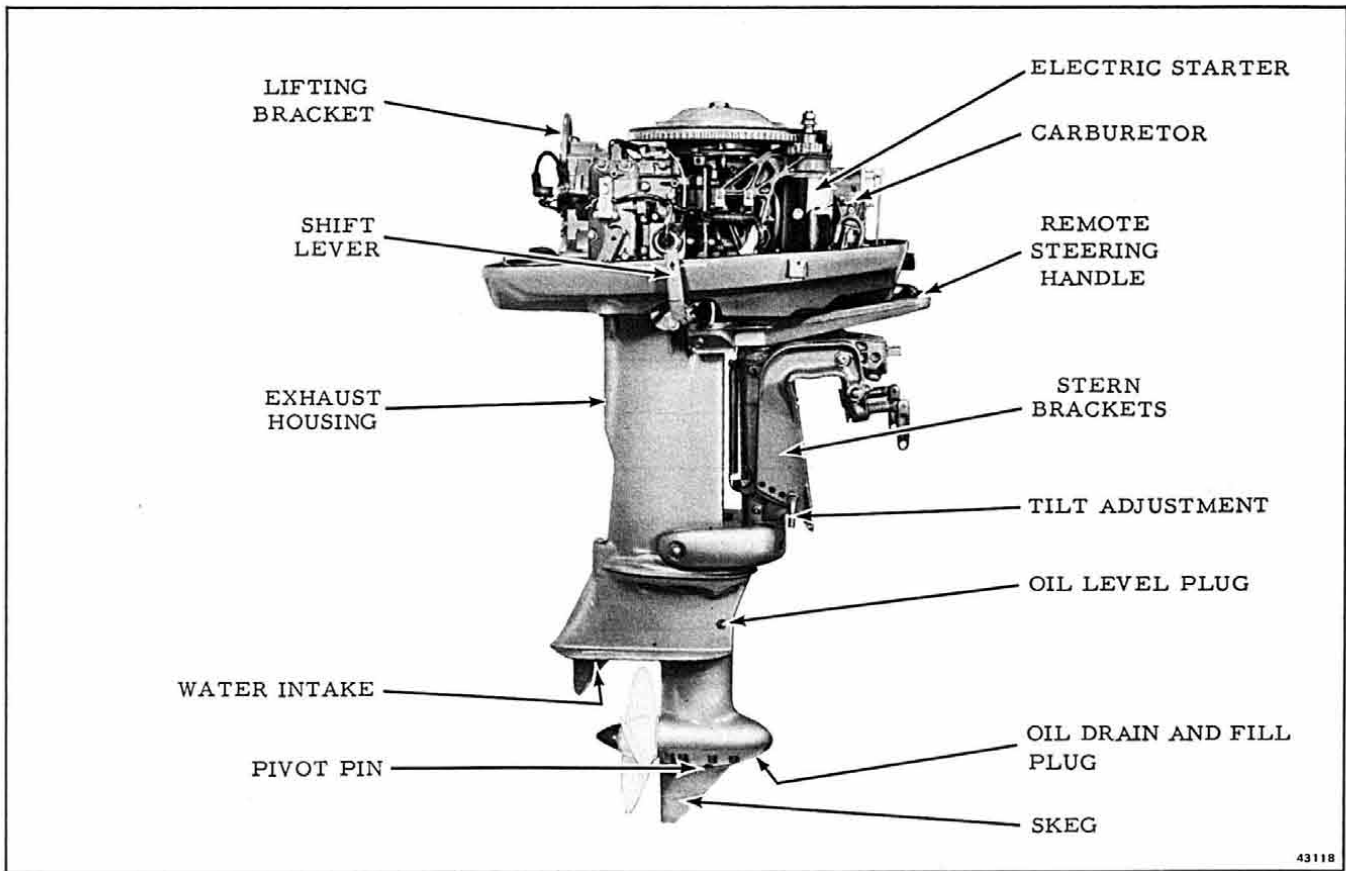


Figure 1-1. Starboard Side, 40 HP Electric Start

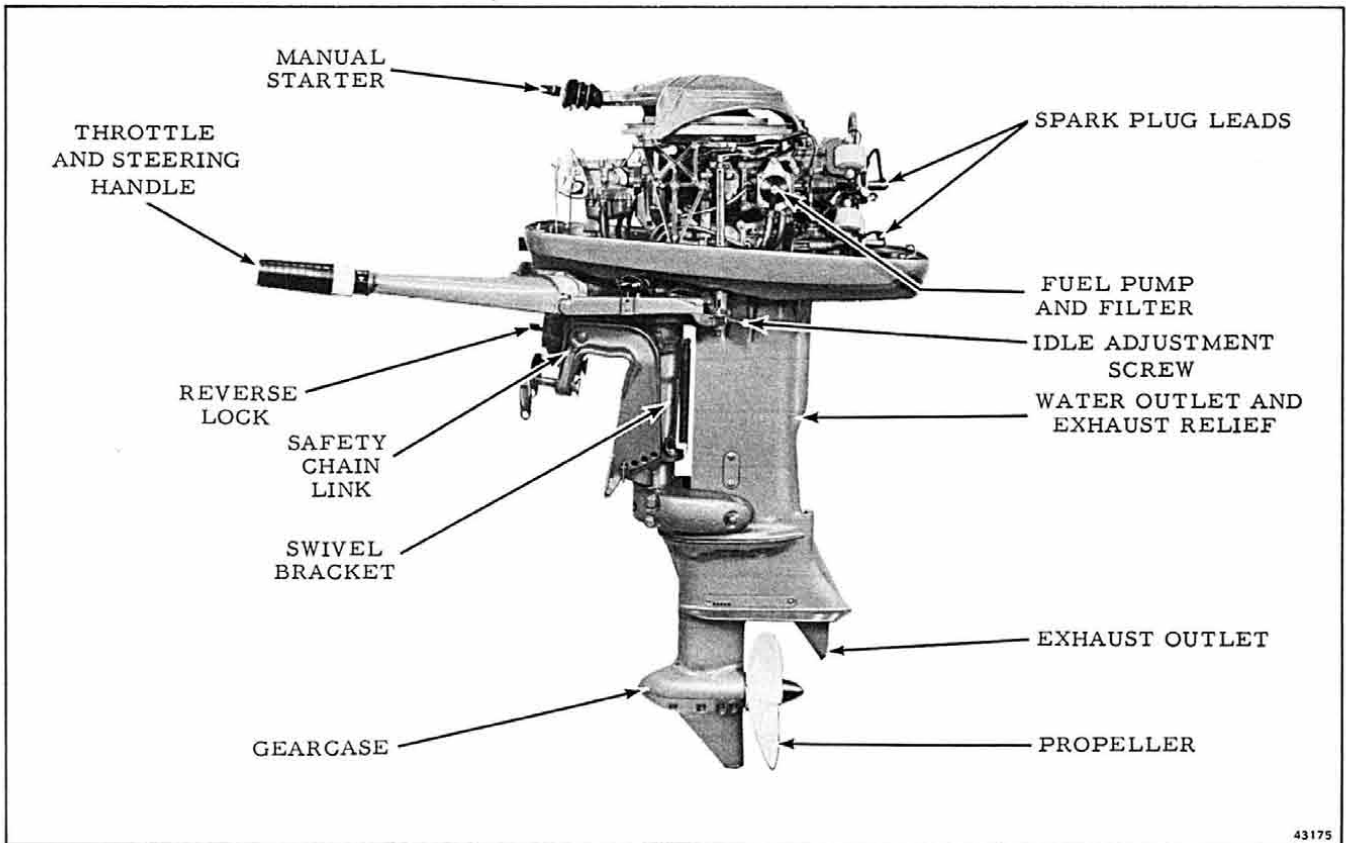


Figure 1-2. Port Side, 40 HP Manual Start

SPECIFICATIONS

Model Numbers 40R76 - Standard length (15" transom)
 40RL76 - 5" longer (20" transom)
 40E76 - Standard length (15" transom)
 40EL76 - 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 319534
 Identification Number 67D
 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, 10-3/4" dia. x 11" pitch.
 3 blade, 10-3/8" dia. x 11-1/2" pitch
 3 blade, 10-1/2" dia. x 12" 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 40R76 - 128 lbs.
 Model 40RL76 - 131 lbs.
 Model 40E76 - 137 lbs.
 Model 40EL76 - 140 lbs.
 (Fuel tank weight 11 pounds net)

Fuel capacity 6 gallons

Electrical system 5 amp flywheel alternator (Electric start models only)

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 L4J, 14mm

Spark plug gap .030 inch

Spark plug torque 17-1/2 - 20-1/2 foot-pounds

Breaker point Gap .020 inch

Driver coil Rope 1.45 ± .4 OHM
 Elec 2.70 ± .7 OHM

Condenser Part Number 581419
 Capacity .25 - 29 Mfd.
 Ignition coil Part No. 581370

IGNITION COIL TEST SPECIFICATIONS

Stevens Model ST-75				
Reverse Polarity (Switch Setting Standard)				1.3
Stevens Tester Model 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 with 55-980 CDA Adapter				
Operating Amperage	Primary Resistance Min. Max.		Secondary Continuity 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			13,5000 ± 1500	

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