## SPECIFICATIONS

40 40	el Numbers 40R74 - Standard length (15" transom) 40RL74 - 5" longer (20" transom) 40E74 - Standard length (15" transom) 40EL74 - 5" longer (20" transom)		options		3 blade, 10-3/8" dia. x 11-1/2" pitch 3 blade, 10-1/2" dia. x 12" pitch			
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				3 blade, 10-3/8" dia. x 14" pitch 3 blade, 11" dia. x 9" pitch				
		Kn rei		steering handle - Manual Start, nob on steering bracket or emote control - Electric Start, nchronized throttle and spark				
		Gear shift control Fo		Forv	rward, neutral, and reverse			
		fuel tank) Model Model Model		1 40R74 - 128 lbs. 1 40RL74 - 131 lbs. 1 40E74 - 137 lbs. 1 40EL74 - 140 lbs. el tank weight 11 pounds net				
Piston displacement 43.9 cubic inches		Fuel capa	city	6 gallons				
Piston ring sets (2 standard .030" oversize	per set) Part Number 384699 Part Number 384718	Electrical (Electri models	c start	art		eel alternator		
Diameter of ring	3.1875 in. (standard)	The state of the s		Manu	nual - Self-winding			
Width of ring	Upper09000895 in. Lower06150625 in.	Elec		Elec	ectric - 12 volt, Key start and mergency rope			
Lbs. compression recommended	Upper - 1.0 to 3.0 lbs. Lower - 4 to 8 lbs.	8			w 20 AMPS Max.			
when compressed				Low tension magneto				
Piston less rings	D N 204000	Spark plug gap .030 Spark plug torque 17-1 Breaker point Gap		mpion UL4J, 14mm				
standard .030" oversize	Part Number 384692 Part Number 384715			.030	) inch			
Crankshaft size				17-1	17-1/2 - 20-1/2 foot-pounds Gap .020 inch Part Number 580422			
Top journal Center journal Bottom journal	1.4979 - 1.4974 1.3752 - 1.3748 1.1815 - 1.1810							
Connecting rod	1.1828 - 1.1823 in.	Capacity Coil		.25 - 29 Mfd. Part No. 581407				
Carburetion	Single barrel, float feed, fixed high speed adjustable low-	COIL TEST SPECIFICATIONS						
High speed orifice	speed, manual or electric choke Part Number 317183	New Stevens Tester Model No. M.A. with M.A14 Adapter in Series with H Switch Index A						
plug	Identification Number 67C Check with #51 drill			Index Adjustment				
Float level setting	Flush with rim of casting	B			ndex Adjustment 25			
Inlet needle seat	.065062	Merc-O-Tronic						
miet needle Seat	Use #52 drill as gage	Operating Primary		Resis				
Cooling system	Centri-matic (combination positive displacement and	Amperage 1.7						
4	centrifugal pump)	Graham Tester Model						
Propeller gear ratio	12:21	Maximum Secondary		imum nary	Coil Index	Minimum Coil Test	Gap Index	
Propeller drive	Part Number 304757, 1/4" x 1-15/32" stainless steel	20,000 ohn	ns 14.0	ohms	50	24	45	
pin		COIL OHMMETER TEST						
Propeller supplied	3 blade, 10-1/2" dia. x 13" pitch	Primary (Low Ohms) Secondary (Hig			ondary (High O	hms)		
	with motor		1.35 ± .3			13500 ± 1500		

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

## CLEARANCE CHART

POWER HEAD		LOWER UNIT	
Piston ring gap	.017 Max007 Min.	Propeller shaft in front gear bushing	.0020 Max0010 Min.
Piston ring groove clearance, lower	.0040 Max0015 Min.	bushing	
		Rear reverse gear to rear bushing	.0020 Max0005 Min.
Piston pin to piston - loose en	.0010 Max0001 Min.		
Cylinder and piston	.0050 Max0030 Min.	Reverse gear bushing to propeller shaft	.0015 Max0005 Min.
Crankshaft end	.011 Max003 Min.		
play		Propeller on shaft at drive pin hole	.007 Max003 Min.
		Carried Contract	
		Propeller on shaft - above the shoulder	.0069 Max0034 Min.

## TORQUE CHART

POWER HEAD	LOWER UNIT
Flywheel nut  100 - 105 Foot-pounds  Connecting rod screw  348 - 372 Inch-pounds (29 - 31 Foot-pounds)  Cylinder head screws  Crankcase to cylinder screws-upper and lower center  150 - 170 Inch-pounds  Electric starter through bolts  Spark plug  17-1/2 - 20-1/2 Foot-pounds  Starter housing screws  96 - 120 Inch-pounds  8 - 10 Foot-pounds)	Side mounts - 150 - 170 Inch-pounds upper and (12 - 14 Foot-pounds) lower nuts  Front mount - 240 - 320 Inch-pounds upper nut (20 - 26 Foot-pounds)  Pilot shaft to 120 - 140 Inch-pounds steering (10 - 12 Foot-pounds) bracket screws  Slip Clutch Propeller 180 Foot-pounds Min.  *Pull at propeller shaft for tilt up lower units 30 - 40 lbs.  *Pull at propeller shaft to over-come reverse lock 260 - 310 lbs.
NOTE  When tightening two or more screws on the same part, DO NOT tighten screws completely, one at a time. To avoid distortion of the part, first tighten all screws together to one-third of specified torque, then to two-thirds of specified torque, then torque down completely.  Re-check torque on cylinder head screws and spark plugs after motor has been run, has reached operating temperature, and motor has cooled comfortable to touch.	No. 6   7-10   No. 8   15-22   No. 10   25-35   2-3   No. 12   35-40   3-4   1/4"   60-80   5-7   5-16"   120-140   10-12   3/8"   220-240   18-20

<sup>\*</sup>Standard length lower unit.