SPECIFICATIONS

Model Numbers	6R72 - Standard length (15" transom)	Propeller drive pin Propeller		Part Number 307949, 3/16" x 1-25/64" stainless steel 8" diameter x 7-1/4" pitch, 2 blade		
	6RL72 - 5" longer (20" transom)					
(B.I.A certified)	6 hp at 4500 rpm	Speed control		Twist-grip, synchronized throttle and spark		
Full throttle operating	4000 - 5000 rpm	Gear shift control		Forward, neutral, and revers		
range Tank test with test wheel	4000 rpm Part Number 380757	Weight (without fuel tank)		Model 6R72 - 51 pounds Model 6RL72 - 52 pounds (Fuel tank weight 11 pounds net)		s
Engine type	2 cylinder, 2 cycle, alternate firing	Fuel capacity		6 gallons		
Bore and stroke	1-15/16" bore x 1-1/2" stroke	Starter		Manual, self-rewinding		
Piston displace-	8.84 cubic inches	Ignition		Flywheel magneto		
ment		Spark plug		AC-M44C, Champion J6J,		
Piston ring sets (3) standard .030" oversize	per set) Part Number 378432 Part Number 384336	Spark plug			.030 inch	
Diameter of ring	1.9375 in. (standard)	Spark plug torque		17-1/2 - 20-1/2 Foot-pounds		
Width of ring	.09350925 in.	Breaker point gap		.020 inch		
Lbs. compression recommended when compressed	2 to 4 lbs.	Condenser Capacity		Part Number 580321 .1822 Mfd.		
Piston less rings		Part No. 5	80416 Coil	Test Specif	ications -	
standard .030" oversize	Part Number 376994 Part Number 384335	Old Stevens Tester				
Crankshaft size	.80808075 in. .80808075 in. .80808075 in.	Switch	Index Reading			
center journal bottom journal		A	2.0 -	2.5		
Connecting rod	.66906685 in.	New Stevens Tester Model No. M.A75				
Carburetion	Single barrel, float feed, low-	Switch	Index Adjustment			
Float level	speed adjustment Flush with rim of casting	A 22 Merc-O-Tronic				
setting Carburetor orifice plug	Hole size .044"	Operating Primary Secon		Second		
Inlet needle seat	.053" to .050". Use a #55 drill as gage	I		Resistance Continuity Min Max. Min Max. .4555 35 - 45		
Cooling system	Vari-Volume (combination positive displacement and centrifugal pump) Thermostatically controlled	Graham Tester Model 51 Maximum Maximum Coil Minimum Gap Secondary Primary Index Coil Test Index				
Propeller gear ratio	15:26	5500	1.2	75	33	70

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

CLEARANCE CHART

POWER HEAD		LOWER UNIT	LOWER UNIT		
Piston ring gap	.015 Max005 Min.	Gearcase head and propeller shaft	.0020 Max0010 Min.		
Piston ring groove clearance	.0035 Max0010 Min.	Bearing housing bushing to drive- shaft	.0030 Max0015 Min.		
Cylinder and piston	.003 Max0018 Min.	Propeller shaft in front gear bushing	.0015 Max0005 Min.		
Crankshaft bushings Upper Center	.0025 Max0015 Min. .0025 Max0015 Min.	Propeller shaft to reverse gear bushing	.0015 Max0005 Min.		
Lower	.0025 Max0015 Min.	Front gear to gearcase bearing	.0022 Max0010 Min.		
Connecting rod bearings Piston end	.0010 Max0003 Min.	Rear reverse gear bushing	.0020 Max0005 Min.		
Crankshaft end	Needle bearing	Propeller hub on	.009 Max007 Min.		
Piston and wrist pin loose end	.0007 Max0000 Min.	shaft			

TORQUE CHART

POWER HEAD		Pull at propeller	120-140 pounds		
Connecting rod screws	60-66 Inch-pounds	shaft to over- come reverse lock*			
Flywheel nut	40-45 Foot-pounds	Slip clutch 70 Foot-pounds			
Cylinder head screws	60-80 Inch-pounds	propeller *Standard length lower unit. STANDARD SCREWS			
Crankcase to cylinder screws	THE RESERVE AND ADDRESS OF THE PARTY.				
Upper Center Lower	60-80 Inch-pounds 60-80 Inch-pounds 60-80 Inch-pounds		Inch-Pounds	Foot-Pounds	
Spark plugs	17-1/2 - 20-1/2 Foot-pounds	No. 6	7-10		
	1 . 1 = 10 1 / 1 1 000 Pounds	No. 8	15-22	2-3	
		No. 10 No. 12	25-35 35-40	3-4	
		1/4"	60-80	5-7	
LOWER UNIT		5/16"	120-140	10-12	
	STATE OF THE STATE	3/8"	220-240	18-20	
Side mount nuts - upper and lower	150-170 Inch-pounds (12-14 Foot-pounds)	9.01.01.00.0	NOTE		
Lower mount housing to pilot shaft screws	72-96 Inch-pounds	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. NOTE Re-check torque on cylinder head screws and spark plugs after motor test has been completed and motor has cooled comfortable to touch.			
Pilot shaft to steering bracket screws	60-80 Inch-pounds (5-7 Foot-pounds)				
Pull at propeller shaft for tilt up lower units*	25-30 pounds				