SPECIFICATIONS

Model	4W74 (weedless	Propeller gear ratio			17:28 4W74 Model 12:25 4R74 Model		
	gearcase) 4R74 (standard						
- N	gearcase)	Propeller drive			Part Number 316558 1/8" x 1.234" stainless steel		
*Horsepower (B.I.A certified)	4 hp at 4500 rpm	Propeller			4R74 Models - Standard - 7-1/2" dia x 6" pitch, 3 blade LEXAN		
Full throttle oprange Test tank rpm	4000 to 5000 rpm				4W74 Models - 6-1/4" diameter x 6" pitch, 2 blades LEXAN		
with test wheel	4100 rpm Part Number 316021 for 4W74 4550 rpm Part Number 317738 for 4R74	Speed cont	rol			ver, synchro	nized
		Weight			throttle and spark 4W74 Model - 34.0 lbs. 4R74 Model - 32.3 lbs.		
Engine type	2 cylinder, 2 cycle alternate firing	Hi Lift vacuum			3 gal. tank and plug in hose		
Bore and stroke	1-9/16" bore x 1-3/8" stroke	fuel system Fuel capacity			3 gallons		
CALL TO SERVICE STATE OF THE S	5.28 cubic inches	Starter			Swing-Arm, self-rewinding		
ment		Ignition			Flywheel magneto		
Piston ring sets (2 per set) standard Part Number 383920		Spark plug			J6J,		
.030" oversize	Part Number 383920 Part Number 384312	Spark plug gap			- 14mm .030 inch		
Diameter of ring	1.563 in. (standard)						
		Spark plug torque			17-1/2 - 20-1/2 foot-pounds		
Width of ring	.06250615 in.	Breaker point gap Condenser			.020 inch Part Number 580321		
Lbs. compression recommended	1.3 to 2.8 lbs.	Capacity Coil			.18 to .22 Mfd. Part No. 580971		
when com- pressed				-			
		C	OIL TE	ST SF	PECIFIC	ATIONS	
Piston and ring ass standard	Part Number 384651	Old Stevens Tester					
.030" oversize	Part Number 384666	Switch			Index Reading		
Crankshaft size		A			2.0 - 2.5		
top journal center journal	.75207515 in. .68546849 in.	New Stevens Tester Switch		er Mo	Model No. M.A75		
bottom journal	.68546849 in.				Index Adjustment		
Connecting rod	.62556250 in.	A			22		
crank pin Carburetion	Single barrel float feed, with	Merc-O-Tronic					
Suz suz susui	high and low-speed adjust- ments manual choke	Operating R		Resi	Primary Secondary Continuity Min. Max.		
Float level setting	Parallel with casting			240000000			
Inlet needle seat	.053050 Use a #55	1.7 Graham Tester Mode					
Cooling system	Vari-volume (combination positive displacement and centrifugal pump).	Maximum	Maxin	num	Coil	Minimum Coil Toot	Max. Gap
3 3		Secondary	Prim	100	Index	Coil Test	Index
		5500	1.2	4	75	33	75

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

CLEARANCE CHART

POWER HEAD		1
Piston ring gap	.015 Max005 Min.	
Piston ring - groove	.0040 Max0020 Min.	
Cylinder and piston	.0020 Max0008 Min.	Mag.
Crankshaft - Upper - Center - Lower	Needle Bearings .0023 Max0013 Min. .0023 Max0013 Min.	
Connecting rod - Piston end - Crankshaft end	.0011 Max0004 Min. .0017 Max0007 Min.	
LOWER UNIT		
Standard Pinion & Bushing In Gear Case	Weedless Standard	OF Min

		Weedless	Standard
Standard	Pinion & Bushing In Gear Case		.0018 Max0005 Min.
Weedless	Drive Shaft & Bushing In Gear Case	.003 Max001 Min.	
	Gearcase Head & Bushing Assembly	.0015 Max0005 Min.	.0022 Max0007 Min.
	Propeller On Shaft	.0053 Max0020 Min.	.0067 Max0022 Min.
	Gear Case Bushing To Propeller Shaft		.0022 Max0007 Min.

220-240

18-20

TORQUE	CHART	
POWER HEAD		
Flywheel	nut	30 - 40 Foot-pounds
Connecting rod screws		60 - 66 Inch-pounds
Cylinder head screws		60 - 80 Inch-pounds
Crankcase to cylinder screws - upper, center, lower		60 - 80 Inch-pounds
Spark pl	ıgs	17-1/2 - 20-1/2 Foot-pounds
Pull at propeller shaft to tilt up lower unit		12 - 15 lbs.
STANDARD SCREW	7S	NOTE
No. 6 No. 8 No. 10 No. 12 1/4"	ch-Pounds Foot-Pound 7-10 15-22 25-35 2-3 35-40 3-4 60-80 5-7 120-140 10-12	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 has been

run and has reached operating temperature, and has cooled comfortable to touch.

3/8"