SPECIFICATIONS

Model	4W72 (weedless gearcase) 4B72 (standard	Propeller g ratio	gear	17:28 4W 12:25 4R'	72 Model 72 Model		
	gearcase)	Propeller o	drive	Part Num 13/16"	nber 203230 stainless ste	1/8" x	
*Horsepower (B.I.A certified)	4 hp at 4500 rpm	Propeller		4R72 Models - Standard - 8" diameter 2 5-1/2" pitch, 3 blade		eter x	
Full throttle oprange	4000 to 5000 rpm	EBAA		Optiona 3 blade 4W72 Mo	1 - 8" x 4-1/ dels -	/2'',	
Test tank rpm with test wheel	4100 rpm Part Number 316021 for 4W72 Part Number 316960 for 4R72	Speed cont	rol	5-1/2"	pitch, 3 blad	es	
		Speed control		throttle and spark			
		Weight		4W72 Mo 4R72 Mo	del - 34.0 lb del - 34.5 lb	s.	
Engine type	2 cylinder, 2 cycle						
Engine of po	alternate firing	Hi Lift vac fuel syste	uum	3 gal. tan	k and plug in	n hose	
Bore and stroke	1-9/16" bore x 1-3/8" stroke	Fuel capac	ity	3 gallons			
Piston displace-	5.28 cubic inches	Starter		Swing-Ar	m, self-rew	inding	
ment		Ignition		Flywheel	magneto		
Piston ring sets (2) standard	per set) Part Number 383920 Part Number 384312	Spark plug		AC-M440 - 14mm	C, Champion	J6J,	
.030" oversize		Spark plug	gap	.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		.020 inch			
Lbs. compression recommended	1.3 to 2.8 lbs.	Condenser Pa Capacity .1		Part Nun .18 to .22	Part Number 580321 .18 to .22 Mfd.		
when com-		COIL SPECIFICATIONS					
pressed		Part No. 5	Part No. 580416 Coil Test Specifications:				
Piston and ring ass	embly	Old Storen	Tester				
standard Part Number 384651 030" oversize Part Number 384666		Switch		Index Deading			
		Switte	en	Index	Reading		
top journal	journal .75207515 in.		A 2.0 - 2.5				
center journal	.68546849 in.	New Stevens Tester		Model No. M.A75			
bottom journal	.68546849 m.	Swite	ch	Index Adjustment			
Connecting rod crank pin	.62556250 in.	A		22			
Carburetion	Single barrel float feed, with high and low-speed adjust- ments manual choke	Merc-O-Tronic		Primary Secondary esistance Continuity			
Float level setting	Parallel with casting	Amperage		perage Min. Max. Min. M		ax.	
Inlat needle met	052 050 Has - #55	1.4	1.4 .4555 35 - 45		5		
iniet needle seat	drill as gage.	Graham Te	ester Mode	el 51			
Cooling system	Vari-volume (combination	Maximum Secondary	Maximur Primary	m Coil y Index	Minimum Coil Test	Gap Index	
	centrifugal pump).	5500	1.2	75	33	70	

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

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CLEARANCE CHART

POWER HEAD

Piston ring gap	.015 Max005 Min.
Piston ring - groove	.0040 Max0020 Min.
Cylinder and piston	.0020 Max0008 Min.
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	

		Weedless	Standard
Standard	Pinion & Bushing In Gear Case		.0018 Max0005 Min.
Weedless	Drive Shaft & Bushing In Gear Case	.003 Max001 Min.	
	Gear Housing Cap	.0015 Max0005 Min.	.0020 Max0005 Min.
	Propeller On Shaft	.0063 Max0020 Min.	.0055 Max003 Min.
	Gear Case Bushing To Propeller Shaft	noti "Manana h	.0020 Max0005 Min.

TORQUE CHART

POWER HEAD

Flywheel nut

Connecting rod screws

Cylinder head screws

Crankcase to cylinder screws upper, center, lower

Spark plugs

Pull at propeller shaft to tilt up lower unit

- 30 40 Foot-pounds
- 60 66 Inch-pounds
- 60 80 Inch-pounds
- 60 80 Inch-pounds

17-1/2 - 20-1/2 Foot-pounds

12 - 15 lbs.

STANDARD SCREWS

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	Inch-Pounds	Foot-Pounds
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



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 twothirds 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.