## SPECIFICATIONS

Model	4W71 (weedless gearcase) 4R71 (standard	Propeller ratio	gear		4W71 Model 4R71 Model		
411	gearcase)	Propeller	drive		Number 203230 6'' stainless st		
*Horsepower (B.I.A certified)	4 hp at 4500 rpm	Propeller		Stan	4R71 Models - Standard - 8" diameter x 5-1/2" pitch, 3 blade		
Full throttle oprange	4000 to 5000 rpm	and the second		3 bla	onal - 8" x 4-1 ide Models -	./2",	
Test tank rpm with test wheel	4200 rpm Part Number 316021 for 4W71			5-1/	8" diameter x 2" pitch, 3 bla		
	Part Number 316960 for 4R71	Speed control			Single lever, synchronized throttle and spark		
		Weight			Model - 35 lbs Model - 35 lbs		
Engine type	2 cylinder, 2 cycle alternate firing	Hi Lift vacuum fuel system		3 gal.	3 gal. tank and plug in hose		
Bore and stroke	1-9/16" bore x 1-3/8" stroke			2 malle			
Piston displace- ment	5.28 cubic inches	Fuel capacity Starter			3 gallons Swing-Arm, self-rewinding		
	mont		Ignition		Flywheel magneto		
Piston ring sets (2 standard .030" oversize	per set) Part Number 383920 Part Number 384312	Spark plug		AC-M - 14m	44C, Champion m	n J6J,	
Diameter of sing	1.502	Spark plug	gap	.030 ir	ich		
Diameter of ring	1.563 in. (standard)	Spark plug	torque	17-1/2	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 Capacity		Part Number 580321 .18 to .22 Mfd.			
when com- pressed			COIL SPECIFICATIONS				
		Part No. 580416 Coil Test Specifications:					
Piston less rings standard	Part Number 384651 Part Number 384666	Old Stevens Tester					
.030" oversize		Switch		Inc	Index Reading		
Crankshaft size		A		2.0 - 2.5			
top journal center journal	.75207515 in. .68546849 in.	New Stevens Testor		r Model No. M.A75			
bottom journal	.68546849 in.						
Connecting rod	.62556250 in.	Switch		Index Adjustment			
crank pin	10200 10200 III.	L			44		
Carburetion	Single barrel float feed, with high and low-speed adjust-			Second	ary		
Float level setting	ments manual choke	Operati Ampera		Resistance Min. Max	e Continu	ity	
	Parallel with casting	1.4 .4555 35 - 45   Graham Tester Model 51		.4555	35 - 4	5	
Inlet needle seat	.053050 Use a #55 drill as gage.						
Cooling system	Vari-volume (combination positive displacement and	Maximum Secondary	Maximu Primar			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

Pis	ton ring gap	.015 Max005 Min.
Pis	ton ring - groove	.0040 Max0020 Min.
Cyl	inder and piston	.0020 Max0008 Min.
Cra	nkshaft - Upper - Center - Lower	Needle Bearings .0023 Max0013 Min. .0023 Max0013 Min.
Cor	necting rod - Piston end - Crankshaft end	.0011 Max0004 Min. .0017 Max0007 Min.

		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	.0065 Max0020 Min.	.0055 Max003 Min.
	Gear Case Bushing To Propeller Shaft		.0020 Max0008 Min.

# TORQUE CHART

### POWER HEAD

3/8"

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220-240

Fly	wheel nut	30 - 40 Foot-pounds	
Connecting rod screws		60 - 66 Inch-pounds	
Cy	linder head screws	60 - 80 Inch-pounds	
Crankcase to cylinder screws - upper, center, lower		60 - 80 Inch-pounds	
Spa	ark plugs	17-1/2 - 20-1/2 Foot-pounds	
	ll at propeller shaft to tilt p lower unit	12 - 15 lbs.	
STANDARD S	CREWS	CAUTION	
No. 6 No. 8 No. 10 No. 12	Inch-Pounds Foot-Pounds 7-10 15-22 25-35 2-3 35-40 3-4	When tightening two or more screws on the same part, DO NOT tighten screws com- pletely, one at a time. To avoid distortion of the part, first tighten all screws together to one-third of specified torque, then to two-	

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.

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