

SPECIFICATIONS

ENGINE SPECIFICATIONS

B.I.A. H.P.	4 @ 5250 RPM	Bore and Stroke	2" x 1-19/32" (5.08 x 3.90 cm)
I.S.O. Power	2.8 KW @ 5250 RPM	Displacement	10.0 cu. in. (81.9 c.c.)
Recommended Operating Range	4750-5750 RPM	Compression	115-130 PSI (7.7 - 8.75 kg/cm)
Idle RPM In Gear	800-1000 RPM (Engine tank tested using propeller not test wheel.)	Spark Plug	Champion L-86 - U.S.A. Champion RL-86 - Canada
Engine Type	2 Cycle, 1 Cylinder	Spark Plug Gap	.030" (0.76 mm)
		Point Gap	.020" (0.50 mm)

TORQUE CHART

SPECIAL ITEMS		STANDARD HARDWARE	
Flywheel Screw	17 ft. lbs. (2.4 kg/m)	Screw or Nut Size	
Connecting Rod Screw	80 in. lbs. (92 kg/cm)	6-32	9 in. lbs. (10 kg/cm)
Stern Bracket Bolt	180 in. lbs. (207 kg/cm)	8-32	20 in. lbs. (23 kg/cm)
Fuel Tank Screws	90 in. lbs. (104 kg/cm)	10-24	30 in. lbs. (34 kg/cm)
Gear Housing Plug, Lower	40-50 in. lbs. (46-58 kg/cm)	10-32	35 in. lbs. (40 kg/cm)
Gear Housing Plug, Upper	30 in. lbs. (35 kg/cm)	12-24	45 in. lbs. (51 kg/cm)
Gear Housing to Motor Leg Bolts	110 in. lbs. (126 kg/cm)	1/4-20	70 in. lbs. (80 kg/cm)
Cylinder Head Bolts	130 in. lbs. (150 kg/cm)	5/16-18	160 in. lbs. (184 kg/cm)
Spark Plug	120-180 in. lbs. (138-207 kg/cm)	3/8-16	270 in. lbs. (310 kg/cm)

CAPACITIES

Gear Housing	4 oz. (0.12 litres)
Fuel Tank	4 pt. (2 litres)

ELECTRICAL SPECIFICATIONS

LIGHTING COIL OUTPUT

1.0 AMP. (Min.) @ 2000 RPM
3.5 AMP (Min.) @ 4000 RPM
Lighting Coil Cut-In RPM - 1000 RPM Max.

Use the Correct Main Fuel Jet to Compensate for Altitude Horsepower		
MAIN FUEL JET PART NUMBER	SIZE	ALTITUDE
10096 (STD.)	.039	Sea Level — 3,000 ft.
10093	.038	3,000 - 5,000 ft.
10086	.037	5,000 - 7,000 ft.
10094	.036	7,000 ft. & up

Table 6. Main Fuel Jet Sizes. 3.5 H.P.

Use the Correct Main Fuel Jet to Compensate for Altitude Horsepower		
MAIN FUEL JET PART NUMBER	SIZE	ALTITUDE
10093 (STD.)	.038	Sea Level — 3,000 ft.
10086	.037	3,000 - 5,000 ft.
10094	.036	5,000 - 7,000 ft.
10095	.035	7,000 ft. & up

Table 7. Main Fuel Jet Sizes. 4 H.P.