

## LEGAL EAGLE XL ENGINE CHOICES AND DATA

	1/2 VW	1/2 VW	Verner 3V	BSV23	BSV35
Horsepower	26-30	42-45	42	26-28	35
Engine RPM	3600	3600	2500	3600 - 4300	3600
Re-drive ratio	None **	None **	None **	1.8 : 1	1.8 : 1
Prop RPM	3600	3600	2500	2388	2000
Prop type	WOOD *	WOOD *	Wood or Warp Drive Ground Adjustable	Wood or Warp Drive Ground Adjustable	Wood or Warp Drive Ground Adjustable
Prop. diameter			67	WD 63" Culver wood 60"	WD 67"
Prop pitch		Tenn 58 x 20 PP 54 x 22	67 - 20	Culver 60 - 27	
Prop weight	N/A	2 lb 7.8 oz N/A	WD 7 lb. 14.3 oz	WD 7 lb. 13.1 oz Wood 4 lb. 15.5 oz	WD 7 lb. 14.3 oz
Starting type	Hand Prop.	Hand Prop.	Electric Start or Hand Prop	Elect. Start or Hand Prop ***	Electric Start
Fuel Burn GPH	1.7 gph cruise avg	2.4 gph cruise avg	2.1 gph cruise avg	1.9 gph cruise avg	2.4 gph cruise avg
Charging system	NONE	NONE	Generator in flywheel	Generator in flywheel	Generator in flywheel
Ignition type	009 VW with points and battery <u>or</u> magneto	009 VW with points and battery <u>or</u> magneto	3 @ CDI, 1 / Cylinder, Battery Required	Standard flywheel magneto ****	Standard flywheel magneto ****
Battery	Required for Points ign.	Required for Points ign.	Required for ignition and starting	Starting only	Starting only
Plugs per cyl.	1 or 2	1 or 2	1	1	1
Firewall Forward Weight, prop. Bolts, wires, batteries, ignition, eng. Mount ETC	<b>96 lbs.</b> with 009 ignition and LiFe PO lithium battery *****	<b>98 lbs. 10 oz</b> with magneto	<b>102 lbs 5 oz</b> w/starter <b>93 lbs 9 oz</b> w/out starter	<b>99 lbs.</b> with cast iron flywheel and charging system *****	158 lbs plus 8 lbs required on tail for wt. and bal. or total of <b>166 lbs.</b>
Cost of Engine, prop. and accessories	Approx. \$4,500	Approx. \$6,500	Approx. \$ 9,000	Approx. \$ 3,500	Approx. \$ 5,500

Notes:

- \* Wood prop only, power pulses will destroy other types of props
- \*\* No Redrives, power pulses will destroy redrive belt
- \*\*\* Hand prop with great speed to overcome compression release
- \*\*\*\* Comes standard with engine
- \*\*\*\*\* Lithium battery, 1 lb 1 oz to 1 lb 9 oz
- \*\*\*\*\* 89 lbs with aluminum flywheel and no charging system
- PP Performance Prop
- WD Warp Drive Prop