

shorten its life. Always use a tachometer to adjust peak rpm and then richen the mixture slightly for a 200 to 300 rpm drop from the peak reading. If your engine is inside a cowl (such as in a scale model), make sure you provide adequate ventilation. Ideally, the air-exit area should be at least twice the size of the air-entry area. Don't block the air outlet with the engine's muffler, or you'll greatly increase the engine's operating temperature.

Proper Compression Compression is important to a glow engine. As well as affecting the density of the fuel mixture, compression is also necessary for the glow plug to fire. If your engine becomes difficult (or impossible) to start, compression may be low. To fix this, check the glow-plug and engine-head bolts to make sure they are tightly fastened. You should also check the back plate attachment bolts. If the cylinder-head bolts are loose, air can leak into the combustion chamber, and this will affect performance. If you have been running your engine too lean, the piston and sleeve fit can be worn out, and this will prevent your having a tight seal. If this is the case, you'll have to replace the worn components.

Keep your engine clean If you fly off grass, there's always a chance that your airplane will nose over or overshoot the runway on landing. The odds are pretty good that debris will get onto and inside your engine. Always clean your engine after a mishap, and never turn the prop shaft until you're sure the engine's inside is clean. If they aren't removed, dirt and grit can impede engine cooling; even worse, ingested debris can ruin the interior of the engine. Clean the engine by plugging the muffler's outlet and the carburetor's venturi with small wads of paper towel. Stand the plane on its nose, and spray a mixture of dishwashing liquid and water onto the engine. Scrub the engine with a toothbrush, and use a toothpick to remove debris from between the cooling fins. Wipe the engine clean and let dry.

Engine corrosion Corrosion is the main enemy of our engines. It forms on the bearings and other ferrous components. The alcohol contained in glow fuel is hygroscopic (it attracts moisture). To prevent corrosion, at the end of the flying day, always run your engine until it is dry of fuel and use after-run oil. When you've finished flying for the day, empty the fuel tank, start the engine and let it run until it quits. This will ensure that there isn't any fuel residue left in the engine. Squirt after-run oil into the carburetor and the glow-plug opening, and turn the prop manually several times to fully coat the inside of the engine with

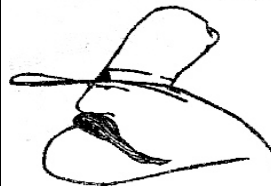
the protective oil. Before storing an engine for an extended period, remove it from your model, oil it well, wrap it in a cloth and place it in a sealable plastic bag for safekeeping.

How much fun we have when we fly our models is directly proportional to how well our engines behave. Taking proper care of them is the best way to keep them happy. It's time well spent and an investment that keeps paying us back. (Check out the "troubleshooting" chart on page 5.)

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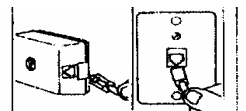


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Scale Plans, Laser Cut Kits & Wood Packs

Model	Price Wood Pack / Kit
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60" Edge 540 ARC - Kit **	\$424.95
60" Edge 540 & 'A'	\$118.00
60" Edge 540 & 'A' ARC - Kit **	\$695.95
72" Cap 230/231	\$ 55.00
72" Cap 230/231 ARC - Kit**	\$509.95
77" Cap 231ex/232	\$ 94.00
66" Cap 231ex/232	\$ 51.50
66" Dalotel DM-185	\$ 59.50
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60" Dalotel DM-185	\$ 55.00
60" Dalotel DM-185 ARC - Kit **	\$219.95
60" Dalotel DM-185 ARF - Kit **	\$269.95
60" D.H. 82 Tiger Moth	\$ 55.00
60" Stampe SV-4B	\$ 55.00
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52" Gizmo - Kit	\$110.95
52" Gizmo ARC - Kit **	\$209.95
50" Togo - Kit	\$131.95
56" Togo ARC - Kit **	\$305.95



All model plans \$31.00

Plans include B & V construction photos and building notes. Wood pack contains: ribs, fuselage bulkheads, wing seat doublers, top deck formers, etc. F/G cowls available for models. Canopies, wheel pants, & landing gear available for Cap, Edge, Dalotel, Gizmo & Togo. Have prewelded & fabricated cabins and landing gear for biplanes. Kits contain all wood to build models, F/G parts, & most hardware. Price includes postage (USA); send check or money order. ** Postage varies; call for best price on these items.

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