



INSTRUCTIONS

The Mini-Hogan '45' is especially designed for small "A" engines with constant high performance as the prime objective. The construction is relatively simple, but the model must be carefully built and aligned to obtain top performance.

WING AND STABILIZER
The wings should be built directly over the plan in the usual manner. Note that the center panel drawing is used to lay out both the left and right panels. Assemble and install dihedral angle per WING ASSEMBLY DETAIL. The stabilizer is similar in construction.

FIREWALL
Follow the step-by-step fuselage assembly details. Note that the bottom of the fuselage is covered with diagonal strips of sheet balsa.

BALANCE POINT
Assemble the model completely. Attach wing with rubber thread. Support the model with each index finger under the wing at the pylon. Model should balance within 1/8" of balance point shown on the plans. If model balances otherwise, add clay or lead to the nose or tail as required.

CHECK SURFACE ALIGNMENT
To check the alignment of both the wing and engine, insert a pin exactly in the top center of the fuselage at R-2. With a piece of string around the pin, measure the distance to the outer center panel rib on both the left and right. The same pin and string may be used to measure the propeller tips for engine down and right thrust. Also note that the rudder should be offset slightly for left turn.

MADE TO ORDER
Build the model in flying position and get the "feel" of launching several times before actually releasing the model. When launched it should glide for 50 to 60 feet at its natural gliding speed. It should have a slight tendency to turn to the left. If model turns right, tilt up the right wing panel by a wedge under the pylon. If model stalls, put a 1/32" wedge under the trailing edge of the wing. Increase size of wedge up to 1/16" until the stall disappears.

POWER PLIGHTS
Run engine rich and slowly for the first flights. Glow plug engines can be slowed down easily by inserting a strip of balsa in the intake tube. The best way to climb the model is nearly straight. The complete right turn during the power-on part of the flight will produce the fastest rate of climb and best "roll-out" for the glide. The model should always be adjusted to turn to the right under power and to the left in the glide. The engine can be adjusted for power-on characteristics by using washers between the engine and firewall.

GENERAL INFORMATION
Vertical surfaces must be avoided. Be-dope and twist out any warps before flying. A little castor oil added to the dope will make it more flexible. Avoid a sloppy fit of the wing and stabilizer to their platforms. Use thin pieces of sheet balsa to remedy any rocking tendency. Always use a dethermalizer when flying with an engine run of ten seconds or more.

WGHT FOR .074 CU. IN. 8 OZ., .099 CU. IN. 10 OZ.
FOR .074-.099 CU. IN. MOTORS FREE FLIGHT

MINI HOGAN '45'

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DRAWN BY HENRY STRUCK
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