

FALCON

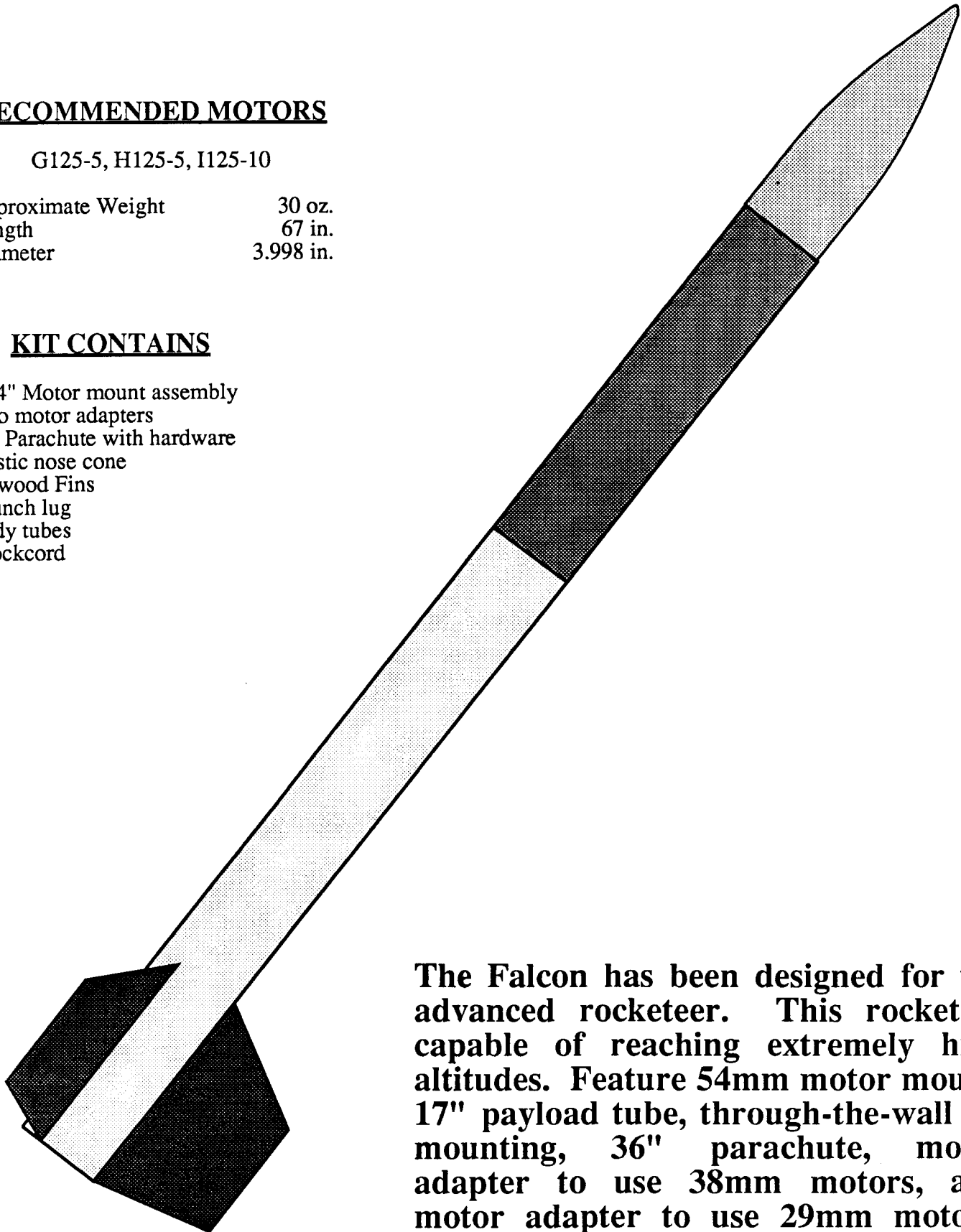
RECOMMENDED MOTORS

G125-5, H125-5, I125-10

Approximate Weight	30 oz.
Length	67 in.
Diameter	3.998 in.

KIT CONTAINS

- 2.14" Motor mount assembly
- Two motor adapters
- 36" Parachute with hardware
- Plastic nose cone
- Plywood Fins
- Launch lug
- Body tubes
- Shockcord



The Falcon has been designed for the advanced rocketeer. This rocket is capable of reaching extremely high altitudes. Feature 54mm motor mount, 17" payload tube, through-the-wall fin mounting, 36" parachute, motor adapter to use 38mm motors, and motor adapter to use 29mm motors.

ASSEMBLY INSTRUCTIONS

Thank you for purchasing the Falcon model rocket kit. We hope that you will have many enjoyable hours flying your new Tiffany Hobbies rocket kit.

Please read these instructions before assembling, so that you will become familiar with how the kit is to be assembled.

Before assembling, check the kit for completeness. This kit should contain the following parts:

- | | |
|--|--------------------------------|
| (1) BT34-3.9 Body tube | (7) MT-2.14 Motor mount tube |
| (1) 17" Payload tube | (1) P-36 Parachute |
| (1) LL-.5 Launch lug | (1) PNC-3.9 Nose cone |
| (1) CR1-3.9-2.14 Centering ring | (3) Plywood fins |
| (1) CR1-3.9-2.14 Centering ring
with shock cord & mount | (1) MA-1.52-2.14 Motor Adapter |
| (1) Payload coupler assemble | (1) MA-1.14-2.14 Motor Adapter |

NOTE: If any parts are missing or damaged, please contact us before assembling the kit.

To complete the kit you will need the following items:

- 5 minute Epoxy
- Sanding sealer
- Ruler
- Sandpaper (80, 220, and 400)

- Cyanoacrylate Adhesive
- Sharp modeling knife
- Sanding block

ASSEMBLY

1) Sand the fins with 130 grit sandpaper on a sanding block to the pattern as shown. Fine sand the entire fin smooth with 320 grit sandpaper.

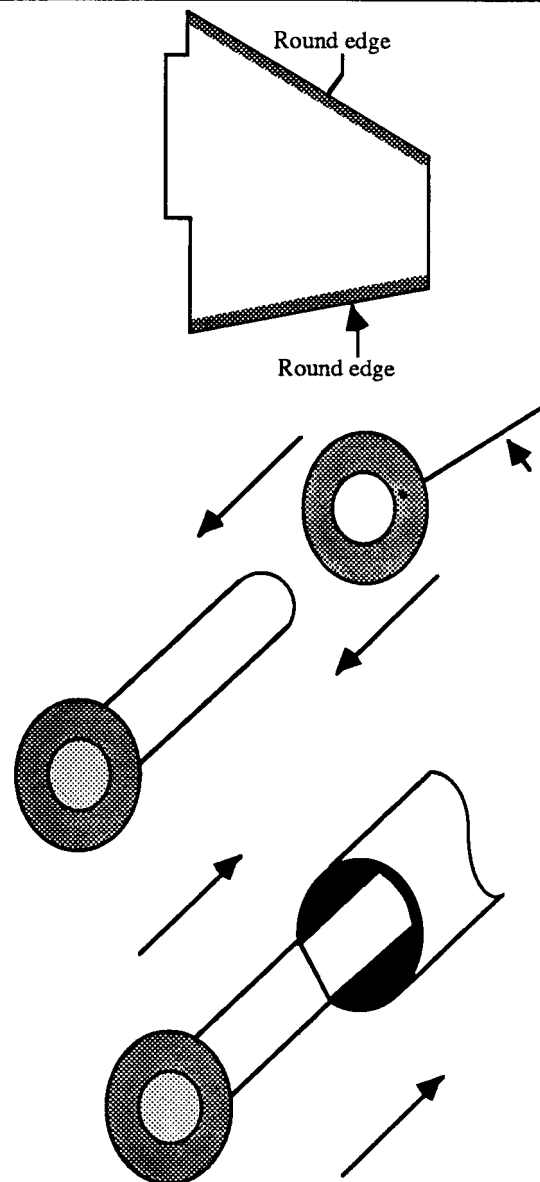
2) Cover the fin mount tabs with masking tape so that the sanding sealer won't seep onto the area to be glued. Seal the fins with sanding sealer, lightly sanding between coats. This will fill the grain of the plywood to obtain a smooth finish.

4) Epoxy the centering rings on the motor tube. Glue the centering ring with the shock cord mount extending away from the motor mount assembly.

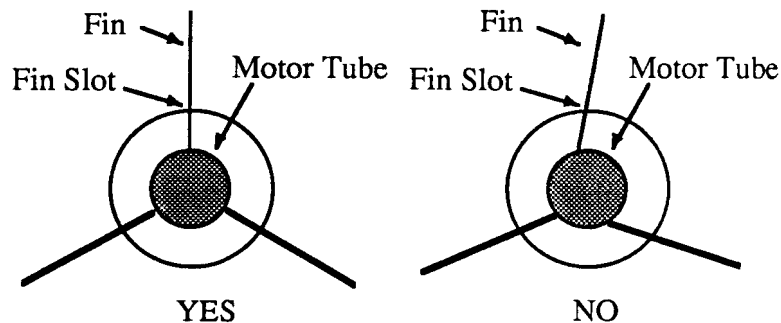
5) With a sharp knife cut out the fin slots. The fin slots are marked out on the body tube (use several passes with the knife to cut all the way through).

6) Tie the shock cord to the shock cord cable from the motor mount. Apply a drop of cyanoacrylate adhesive on the knot.

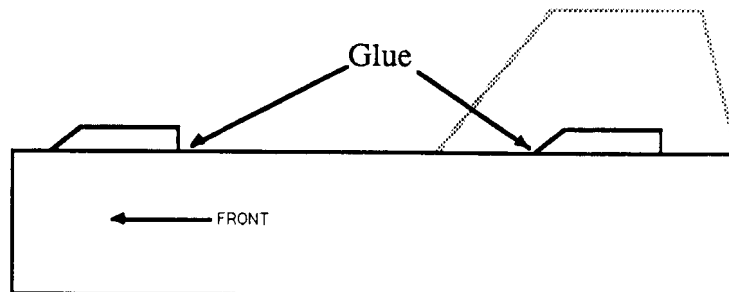
7) You must check the fit of the motor mount before gluing. To do this, insert the motor mount into the back end of the body tube where the fin slots have been cut. If the fit is too tight, sand the centering rings until a smooth fit is obtained. Then epoxy the motor mount into the body tube so that the bottom centering ring is flush with the end of the body tube and the shock cord mount extends to the top of the body tube.



8) Epoxy the fins into the fin slots in the body tube. Make sure they are straight with the body tube. For maximum strength give the fins a good fillet coat of epoxy.

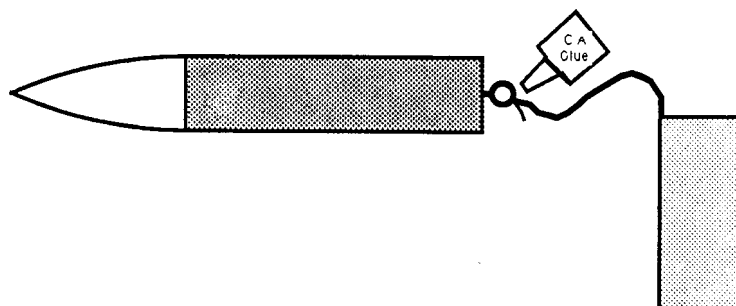


9) Cut the launch lug in half at an angle. Lightly sand the two marked areas on the body tube and the launch lug where they are to be glued together. With epoxy, glue the launch lugs directly over the two marked areas. Make sure that they are in line to each other and the body tube. Apply a good coat of epoxy as a fillet for maximum strength.



10) Lightly sand the nose cone to remove the mold line.

11) Tie one end of the shock cord to the screw eye on the payload tube. Apply a drop of cyanoacrylate adhesive on the knot. Tie the other end to the shock cord mount cable on the body tube. Attach the parachute to the screw eye on the payload tube.



12) Check the fit of the payload tube into the body tube. If the payload tube is too tight, sand it down to a nice smooth fit. The nose cone should be snug in the payload.

13) Paint the rocket in your choice of colors.

PREPARING FOR FLIGHT

- 1) Place a generous amount of recovery wadding in the body tube. Slide the wadding down into the body tube (do not pack the wadding).
- 2) Fold the parachute and insert it into the body tube. Slide the nose cone into the body tube.
- 3) Wrap 3/4" masking tape around the nozzle end of the motor so that the diameter is equal to the outside diameter of the motor tube. Friction fit the motor into the motor tube.

FLYING INSTRUCTIONS

- 1) Always follow motor manufacturers instructions when preparing and flying this rocket.
- 2) Always follow all local laws and ordinances when flying.
- 3) F.A.A. approval may be required to fly this rocket.

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