



ASSEMBLY INSTRUCTIONS

1 Begin construction by gluing the engine block in place. Smear white glue around the inside of the engine holder tube about 1/4" from one end. Insert the engine block into this end and push it back with a Mini engine until the engine block is recessed 1/4" inside the tube.

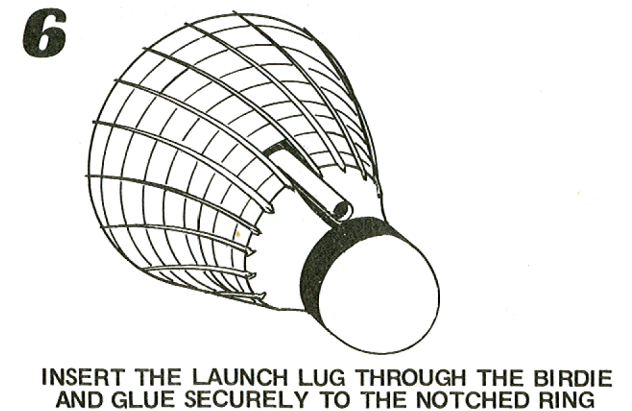
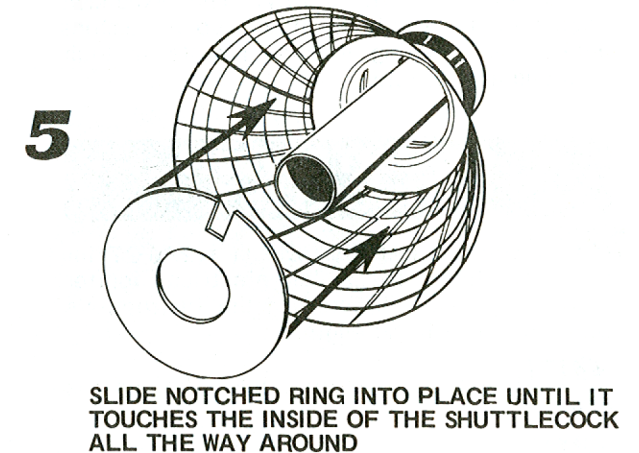
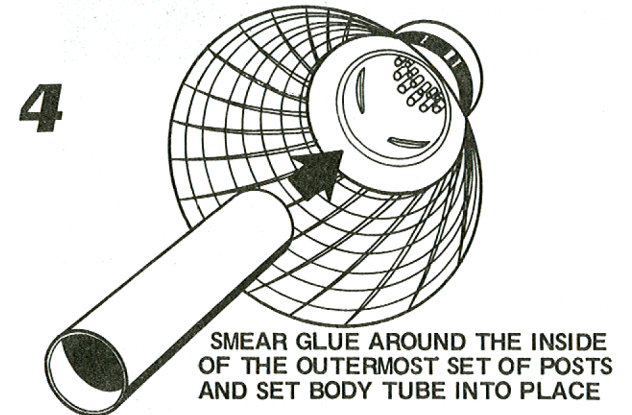
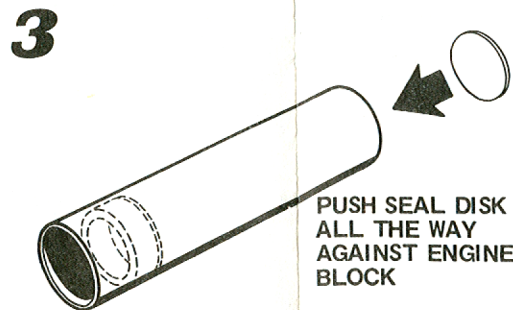
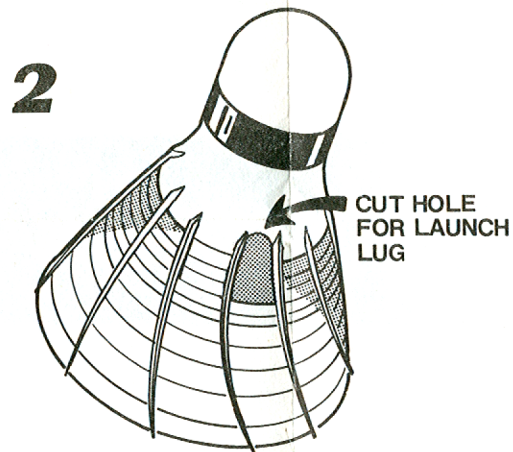
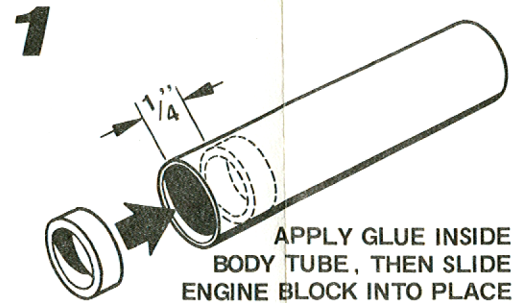
2 Cut a hole for the launch lug in the shuttlecock as shown in the drawing. The hole should be no wider than the space between two of the long plastic ribs.

3 Push the seal disk from the die cut card, edge first, halfway down the inside of the engine holder tube. Turn the disk with a pencil or dowel so it touches the inside of the tube all the way around. Push it the rest of the way forward with an engine casing. The disk should rest against the engine block. Smear some glue on the joint between the disk and engine block at the front end.

4 Inside the nose of the shuttlecock are a number of molded plastic posts. Smear some glue around the inside of the outermost set of posts and push the engine holder tube into place. It should make a tight fit inside the posts.

5 Slide the notched ring into place. The outer edge of the ring should touch the inside of the shuttlecock all the way around and the notch should match the hole in the side. Apply a line of glue to the joint between the ring and the tube.

6 Install the launching lug from the front as shown. Secure it by gluing it to the ring at the rear where it passes through the notch.



GENERAL INFORMATION

When preparing your model for flight, install an igniter as directed in the instructions which came with the engine. Slide the engine into place in the engine holder tube. It should fit just tightly enough to prevent its sliding out when it is on the launcher and the clips are attached. If it is too loose wrap tape on the rear of the engine until it will not slide out.

The Birdie uses featherweight recovery. At ejection, the engine is expelled from the engine holder tube. Since the model has relatively high drag and low weight without its engine, it falls slowly. The expended engine is not stable by itself, so it tumbles back. The tumbling motions results in high drag and a slow return.

COUNTDOWN CHECKLIST

10 Select an engine. Use a 1/2A3-2T for the first flight. Install an electrical igniter in the engine as directed in the instructions which came with the engine.

9 Insert the engine into the engine holder tube.

8 Place the BIRDIE on the launcher. Check to be sure the launch controller is disarmed. Clean and attach the micro-clips to the igniter leads.

7 Clear the launch area, check for low flying aircraft and alert recovery and tracking crews.

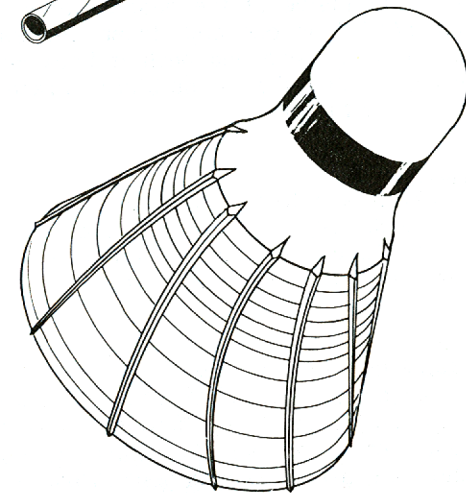
6 Arm the launch controller.

5
4
3
2
1

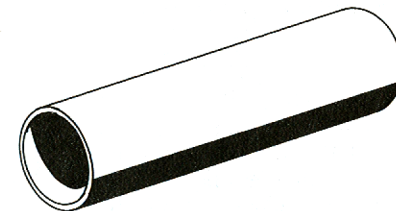
LAUNCH!

PARTS LIST

1 Launch lug
LL-2A



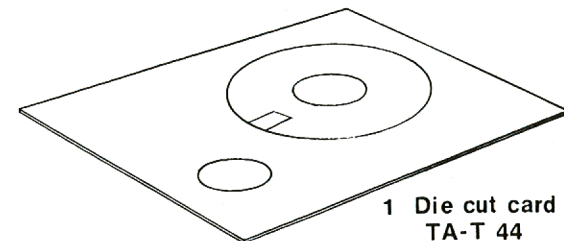
1 Shuttlecock
PF-1



1 Body Tube
BT-5BJ



1 Engine Block
EB-5B



1 Die cut card
TA-T 44



A SUBSIDIARY OF DAMON

Flying Model Rocket

60¢

mini- BROTE BIRDIE



- FLYING SHUTTLECOCK
- SPIN STABILIZATION
- EDUCATIONAL

SKILL LEVEL 1

1—Beginner 2—Intermediate 3—Craftsman 4—Advanced 5—Expert

SPECIFICATIONS

Length 2.8" (7.1cm.)

Weight 0.28 oz. (9 g.)

"Fin" Span 2.6" (6.6cm.)

Featherweight Recovery

RECOMMENDED ENGINES

1/4A3-2T 1/2A3-2T A3-2T

Use 1/2A3-2T for first flights.

Engines and launcher not included.

TK-44
#0644

ESTES INDUSTRIES
PENROSE, COLORADO 80450