



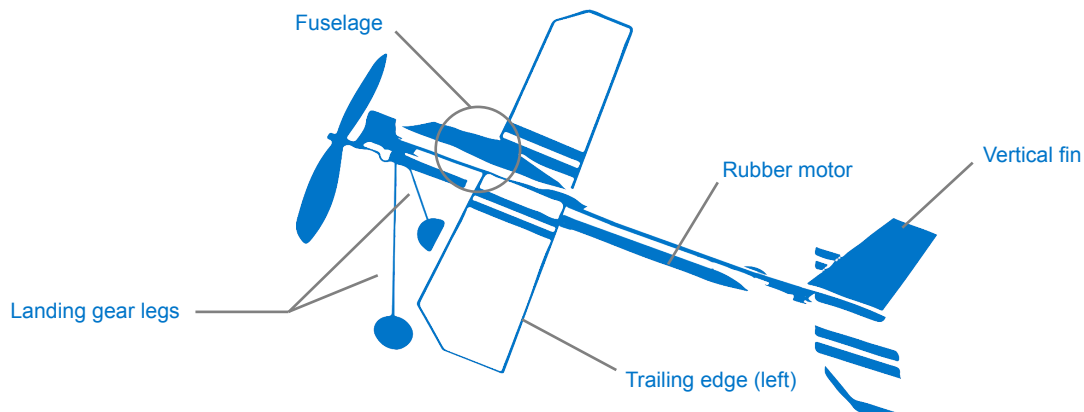
## TAG Event: Pylon Races

### Jetstream and Pylon Assembly Tips

#### Jetstream Assembly

1. Using scissors, carefully remove component parts from package. Take “ballerina twist” out of the landing gear legs.
2. Locate the front of the fuselage<sup>1</sup>, pilot slot side up and rear motor hook down.
3. Insert the gear legs into the red motor housing and slide them over the front of the fuselage. The fit should be tight—shim (wedge) it with a sliver of balsa wood, if necessary.
4. Insert and “center” the wing. Using tape, attach a small paper clip to the corner of the trailing edge<sup>2</sup> of the left wing.
5. Attach a band of tape to the right wing next to the fuselage to prevent centripetal force from moving the wing out of position.
6. Slide the vertical fin and horizontal stabilizer into place. If necessary, make the tail assembly permanent with just a drop of glue at each joint.
7. Discard the rubber motor that comes with the kit. Using the tan FAI rubber, cut a motor loop slightly longer than the fuselage and tie with one or two overhand knots.
8. For best flights, stretch-wind the motor approximately 800 to 900 turns.

**Pro Tip: Lubricate each motor with Armor All or similar rubber conditioner for less friction and longevity. Between uses, store in a plastic bag to avoid drying.**



[1] The main body of an aircraft responsible for holding the crew, passengers and cargo.

[2] The edge of the wing furthest from the front of the aircraft, where the airflow separated by the leading edge rejoins.

## Pylon Assembly

Materials needed:

Wastebasket

Block of wood

Hammer

Two large paper clips

Two small paper clips

Two washers

One long construction nail (or two-headed construction nail)

Soda straw

1. Cut a soda straw shorter than the length of the nail, leaving enough space for the nail to be successfully driven into the wood block.
2. With the nail upside down, assemble straw in the following order: first paper clip, first washer, second paper clip, second washer and finally the soda straw.

**Pro tip: Simplify the process by using a two-headed construction nail, inserting the paper clips between the two heads.**

3. Using a hammer, drive the nail into the block. The nail should be as vertical as possible. Secure the pylon to the bottom of an inverted wastebasket with tape.
4. Cut two string tethers (about two meters, from pylon to fuselage). Attach one end of the string to each of the pylon's paper clips and the other end to another small paper clip. Keep this paper clip slightly open to enable it to be easily hooked and unhooked to the aircraft's paper clip.

