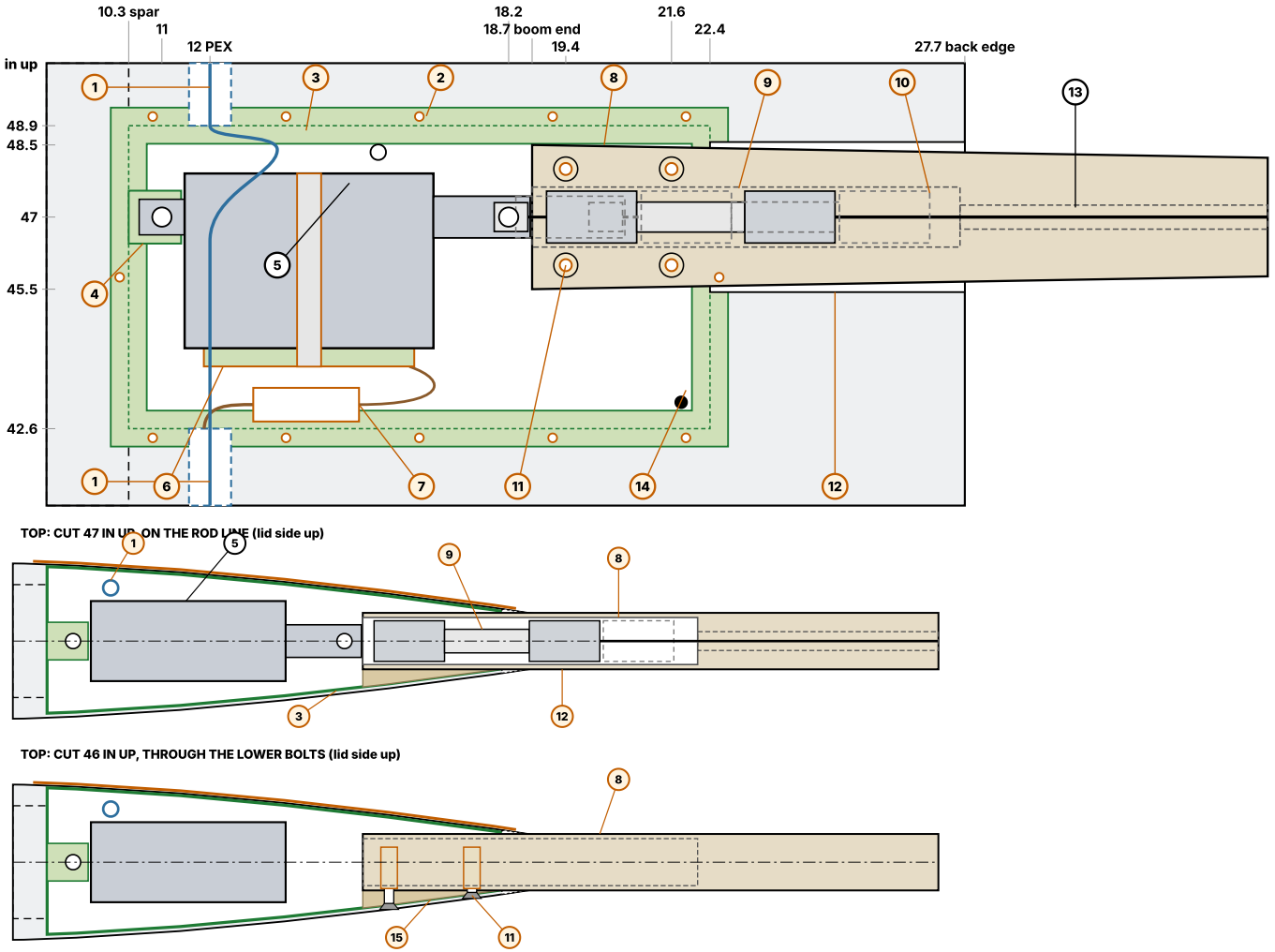
BOOM-ROOT POCKET, MADE SIMPLE

side view lid off, about 1 : 2.9; two top views about 1 : 3.2 · inches back of the nose, inches up from the root

Oct 28, 2026 · idea, not decided



1 **Two PEX tubes,** 12 in back, ending in the pocket's bottom and top walls.

2 **Rectangle lid** and four straight G10 strips (1/8 × 3/4 in) under its edge; #10-24 screws into rivet nuts, about 12.

3 **Rectangle pocket,** 10.3 to 22.4 in back, 42.6 to 48.9 in up. All foam inside it comes out; walls and floor get 2 layers of biax. Foam outside it stays.

4 **Rear lug** on the spar's back face; rear pin 11 in.

5 **Actuator,** hanging, on the centerline, rod line 47 in up.

6 **Cradle and strap** under the motor.

7 **Plug** on the actuator lead.

8 **Boom: the guide's plain box,** 1-1/2 in wide, straight taper, only 3 in deep at the root instead of 2-1/2. Its front end starts 18.7 in back, inside the pocket.

9 **Link tube:** a 1-1/4 in fiberglass tube set in the boom's core when the boom is built, 18.7 to 27.6 in. The spring link rides in it, unchanged.

10 **Fully out** (gray dashed): the link's back cap reaches 27 in, still inside the tube.

11 **Four 1/4-20 316 bolts in through the far skin** (flat heads, flush) into threaded inserts set in solid epoxy plugs in the boom root. Nothing on the lid side.

12 **Notch:** a plain rectangle cut out of the wing's back edge, 22.4 in to the back edge, just big enough for the boom. Cut faces glassed; gasket round the boom.

13 **One rod:** the link's rod runs on as the pushrod, in a 3/8 PEX liner in the boom.

14 **Drain** (black) at the low back corner; breather (open circle) at the top.

15 **Bedding:** thickened epoxy between the boom root and the far skin, with the boom wrapped in release tape and bolted down while it sets. No shaping.