

Grob 103 Assembly

Have enough manpower. At least 4 people on wings, and two to steady fuselage. Remove the fuselage from trailer first. Then remove wings.

1. Unlock spoiler handle in cockpit.
2. Make sure 4 spar locks are unlocked and retracted.
3. Clean and lubricate all fittings and pins.
4. Have at least 4 people on the wings, and two to steady the fuselage.
5. Install RIGHT wing. When inserting both wings, be careful to guide pushrods into the fuselage openings.
6. Align spar pins in fuselage fittings and pay attention to alignment of wing root with fuselage side. Insert wing spar into fuselage. Do not lock the drag spars pins yet.
7. Install LEFT wing. Insert the left wing spar into the fuselage, paying close attention to alignment of the main spar pin and its bearing in the opposite wing root.
8. Next, pay attention to the drag spar pins and their alignment with fittings.
9. Raise or lower the RIGHT wingtip so that proper alignment can be made with the left wing spar pins. Move the LEFT wingtip to get proper alignment.
10. Once the pins and bearings are properly aligned, steady the RIGHT wing and wiggle the LEFT wingtip to get the wing inserted.
11. It will also be necessary to wiggle the wing at the root.
12. It may also be necessary to gently rock the fuselage at the same time as the wings are being wiggled.
13. Once both wings are inserted, be sure to lock all 4 spar locks.
14. Connect aileron pushrods and air brake pushrod.

Horizontal stabilizer

1. Position horizontal stabilizer over the top of the fin. Keep the stabilizer horizontal.
2. Align the elevator actuator arm with the pushrod end.
3. Set the stabilizer onto the fin, and push rearward to engage the pins.
4. Screw the front locking pin into the fin fitting using the wing nut in the front of the stabilizer.
5. Do not over tighten. Finger tight, only. The wing nut aligns horizontally.
6. Close the locking pin door and tape.