

LS-4 Assembly Checklist

The LS-4 should be kept in the trailer from Sunday evening until Saturday morning, if the glider is flown on Friday it may be left out for the weekend.

The glider trailer requires a 1 7/8" ball on for the hitch. For best stability, the trailer should be attached to a vehicle during glider assembly. The trailer is very light weight and will move as CG shifts on the trailer when parts are moved in and out.

Plan on at least three people to install the wings.

Assembly

1. A level parking area into the wind is preferred.
2. Position the fuselage ramp and jack it up to approximately 8-10 inches. Allow enough room to extend the gear and not rub the nose on the trailer when the glider is removed from the stand.
3. Preposition wing stands on either side of the trailer for easy access.
4. Carefully lift the tail of the glider and move the glider onto the ramp. **CAUTION:** The fuselage is easy to slide out/off the fuselage dolly. **USE CARE** as the dolly wheels roll from the trailer to the ramp as the fuselage could slip if the wheels are blocked. **USE CARE as the dolly reaches the end of the ramp.**
1. Clean / Grease Wing Pins and matching holes for installation, also fore and aft pins on each wing root. Place pins in cockpit for easy access.
2. Left wing is installed first. Steady left wing while installing right wing.
3. Right wing installed.
4. Wing Pins (2) installed and locked behind spring loaded peg.
5. Move wing sleeves to allow aileron connections.
6. Connect and check aileron and spoiler linkages, ensure the LS-sleeve is over the ball connection as far as possible. **DO NOT FORCE**

7. Install horizontal tail, check elevator linkage on installation. **CAUTION:** Turn the slotted nut until red mark on bracket is visible.
8. Remove wing sleeves and perform a **POSITIVE CONTROL CHECK.**
9. Tape wings and tail if desired.
10. Install TE Probe and tape.
11. **Put the landing gear down,** Close and latch canopy, remove wing stands, lower ramp jack and push the glider from the trailer dolly.
12. Attach tail dolly and move to tie down area, tie down requires at least one (left) wing sleeve to tie down. There are no holes in the wings for rope.

Disassembly

1. Remove tail dolly and position glider on fuselage dolly. Level with wing sleeves and wing stands. Wing sleeves should lock ailerons.
2. Disconnect aileron and spoiler controls.
3. Remove TE Probe and place in proper sleeve. Store in cockpit.
4. Remove horizontal tail and place in the rack in trailer. **NOTE:** Slotted nut could be lost down the tail if not careful. If spring clip fails to retain the nut, place the nut in the pilot seat.
5. Holding each wing, remove wing pins and place in sleeves.
6. Remove RIGHT wing and place in trailer.
7. Remove LEFT wing and place in trailer.
8. Double check all parts, remove battery if needed to recharge, check MASTER power is off (center), radio and speed to fly computer is off. **RETRACT GEAR.**
9. Close and lock **BOTH** Canopy Locks. **CAUTION:** If canopy is locked only on one side, the canopy could warp in the trailer with summer heat.
10. Carefully roll fuselage into trailer. Store ramp and wing stands.
11. Check wing tip position while closing the cover to ensure the cover locks the wing tips.