**Blanik L-23 Disassemble & Load Trailer**

**1. Position Trailer and Glider**

1.1 Chock trailer wheels and raise trailer lid and lower ramp door

1.2 Raise front wheel jack to lower the ramp door support rail against the ground and position 2 wooden ramps at ramp door edge

1.3 Position glider with nose pointing toward the trailer (a wing length back from trailer end) and place wing stands to level wings

1.4 Position fuselage dolly under the nose of the glider (centered on joint seam at mid-cockpit)

1.5 Raise tail and retract landing gear, and then lower tail to ground

**2. Remove and Stow Horizontal Tail (H/T)**

2.1 Open overhead H/T support fixture in trailer

2.2 Remove H/T from glider (following Section 8 of Flight Manual: remove locking pin, remove tail with leading edge 30 deg up and holding control stick to fair elevator)

2.3 Place H/T top-side up, mid-way in overhead support fixture (leading edge to right side of trailer and with trim tabs centered and unconstrained in support fixture)

2.4 Close and secure overhead support (cushioning upper surface when transporting)

**3. Remove and Stow Wings**

3.1 Remove wing-root anchor pegs mounted on aft end of trailer sidewalls

3.2 Position wing-tip dollies inside the trailer (about 5 ft) along the sidewalls & wing-root support stands near red marks on the floor inside the trailer

3.3 Remove one wing from fuselage

3.4 Carry wing into trailer and place on wing-tip dolly (about 2-3 ft from tip)

3.5 Roll wing forward, pin wing-tip dolly to trailer forward sidewall frame, and set wing on wing-root support stand

3.6 Reattach wing-root anchor peg to sidewall, and move wing fore and aft and move wing-root support stand fore and aft to position the height of the wing-root main-flange to easily fit the anchor peg, and then install peg attach bolt to secure wing-root main-pin flange to anchor peg

3.7 Remove other wing and load and secure in trailer, repeating steps 3.4 – 3.6

3.8 Position all wing dollies and stands as close as possible toward trailer sidewall to allow fuselage dolly clearance when moving the fuselage into the trailer

**4. Stow Fuselage**

4.1 Secure fuselage dolly to fuselage (strap to wing main pins) to prevent dolly slipping forward under fuselage

4.2 Support and roll fuselage into trailer to forward position (fuselage dolly fits in between wing-tip dollies), and lowering front wheel jack makes it easier to install fuselage

4.3 Connect and secure nose tow hook ring with quick-link connection to position glider nose firmly against the padded nose support ring to restrain fuselage from moving aft

4.4 Secure tail-boom tie-down strap (snug but not overly tight)

4.5 Secure tail wheel chock-strap to restrain fuselage from moving aft

4.6 Attach aileron locks and secure spoilers from opening with spoiler restraint straps

**5. Close Trailer**

5.1 Lower front wheel jack to allow raising the rear ramp door

5.2 Raise and secure rear ramp door

5.3 Lower and secure the trailer lid (assure wing support pads and sidewall clearance alignment, and assure the closed trailer lid has at least 2 inches clearance from the upper rudder trailing edge tip)

5.4 Close and secure front hatch cover

**CAUTIONS:**

**1. Landing gear must be retracted when fuselage is resting on the main fuselage dolly during assembly & disassembly and loading & unloading to preclude fuselage tipping from resting on main gear wheel.**

**2. Fuselage dolly must be secured to fuselage (strapped to main pins) to prevent fuselage from slipping aft off of dolly.**

**3. Wing support dollies and stands must be positioned as close as possible to the sidewalls to allow easy passage of fuselage dolly when loading/unloading the fuselage.**

**4. Fuselage must be positioned and restrained far enough forward in the trailer to preclude trailer lid from contacting rudder. Confirm by lowering the trailer lid and visually checking.**

**5. Horizontal tail must be loaded, unloaded, and stowed carefully in overhead support fixture to avoid damage to elevator and tail surfaces and to personnel.**

**6. Positioning of the wing-root support stands is critical to minimizing excess load onto the wing-root anchor pegs.**

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**Blanik L-23 Unload Trailer & Assemble**

**1. Position Trailer**

1.1 Chock trailer wheels and raise trailer lid and lower the ramp door

1.2 Raise front wheel jack to lower the ramp door support rail against the ground and position 2 wooden ramps at ramp door edge

**2. Remove Fuselage from Trailer**

2.1 Remove spoiler restraint straps

2.2 Disconnect tail wheel chock-strap connection

2.3 Disconnect tail-boom tie-down strap

2.4 Disconnect nose tow hook ring connection

2.5 Support fuselage and roll the fuselage out of the trailer to clear the dolly off the ramp (being careful to avoid dolly slipping forward under fuselage)

**3. Remove Wings from Trailer**

3.1 Disconnect wing-root main-pin flange from anchor peg and remove anchor peg from trailer sidewall

3.2 Remove pin holding wing-tip support dolly to trailer forward sidewall frame

3.3 Lift wing root and roll wing out of trailer and assemble to fuselage

3.4 Disconnect other wing and roll out of trailer and assemble to fuselage, repeating steps 3.1 - 3.3

**4. Remove Horizontal Tail (H/T) from Trailer**

4.1 Manually support H/T and open overhead support fixture

4.2 Support and slide H/T aft and carry out of trailer and assemble to fuselage (following Section 8 of Flight Manual: holding tail at 30 deg leading edge up and elevator faired and holding control stick to parallel alignment of connecting H/T pins and H/T insert holes, gently slide H/T onto connecting pins, insert locking pin and lockwire)

**5. Remove Fuselage Dolly**

5.1 Place wing stands to level wings

5.2 Raise tail and extend and lock landing gear, and then lower tail to ground and remove fuselage dolly from under fuselage (may have to slightly lift nose)

**CAUTIONS:**

**1. Landing gear must be retracted when fuselage is resting on the main fuselage dolly during assembly & disassembly and loading & unloading to preclude fuselage tipping from resting on main gear wheel.**

**2. Fuselage dolly must be secured to fuselage (strapped to main pins) to prevent fuselage from slipping aft off of dolly.**

**3. Horizontal tail must be loaded, unloaded, and stowed carefully in overhead support fixture to avoid damage to elevator and tail surfaces and to personnel.**

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