

## 14. Wing Tip Vents



**Section Objective:** The correct installation of the fuel tank vent system.

**Required Parts:** Andair Check valve #CK250HB, 12" of 1/4" fuel line, Bulkhead fitting ALW-0070

**Required Hardware:** 4 Hose clamps, 5 minute epoxy and flox

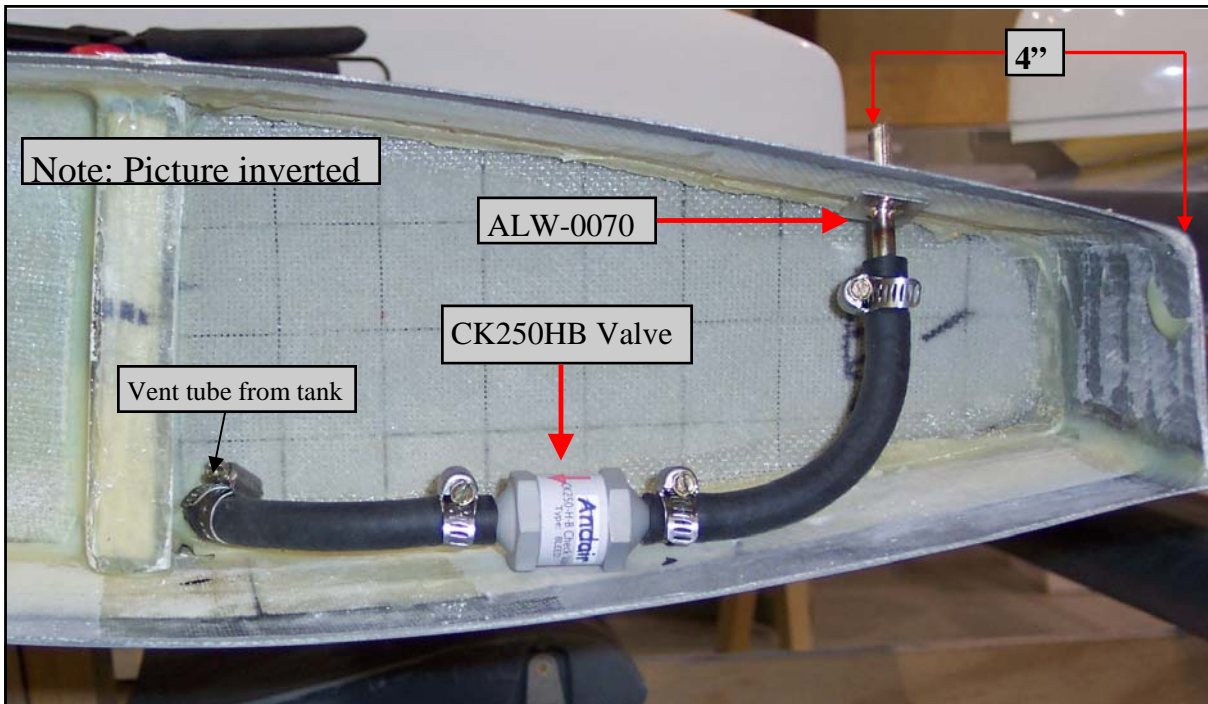
**Required tools:** Straight blade screw driver, side cutters, 1/8" drill bit, 1/4" drill bit, sand paper, epoxy mixing supplies. Metal cut off tool.

**Required Conditions:** None

**Skills or Training:** Ability to mix 5 minute epoxy. Read simple instructions.

Date  
Complete

1. The vent exit should be located to allow the fuel line not to kink when Installed. Measure forward 4 inches from the bottom side of the rear of the wing and 1 inch out from the rib.
2. Drill a 1/8" pilot hole. Than drill out to 1/4".
3. Locate the Wing tip vent ALW-0070. Cut a 45 degree angle in one side.
4. The angled portion will stick out the bottom of the wing into the airflow.
5. Sand lightly the part of the tip vent plate which will contact the inside of the wing skin.
6. Sand lightly the inside of the wing skin where the vent will contact
7. Mix a small amount of 5 minute epoxy and flox mixture. Cover the plate with 5 minute epoxy mix and press into the hole. Clean up the excess glue if needed.



8. Near the upper skin at the back of the spar there will be a 1/4" aluminum vent tube coming from the tank.
9. Carefully bend it so that the out let points rearward.
10. Using the correct lengths of 1/4" fuel line and the check valve, assemble the vent system as shown in the photo.
11. The check valve has a red arrow on it. This arrow must point at the tank as this is the direction the air can flow thru the valve.
12. Use hose clamps at each joint and tighten.
13. Both wings are the same, complete these steps for the opposite wing.