

Hovertoon™ Front Lift Fan Cage and Fencing

After the CAD drawings for the front fencing components were completed, the design was then built using 1.25 x1.25 inch wood to simulate aluminum tubing used in pontoon construction. The first picture is the lift fan test platform which will be removed completely and then rebuilt to simulate actual materials.



Original lift system test platform to be removed.



Two halves of the front lift fan cage and fencing. These required the two lift fans to be moved towards the outside by two inches per drawings requiring a complete rebuild of the front section.



Replaced the front 4x8 plywood with repositioned spindle and pulley holes.



Cut lift air exhaust openings in the 3/4 inch plywood.



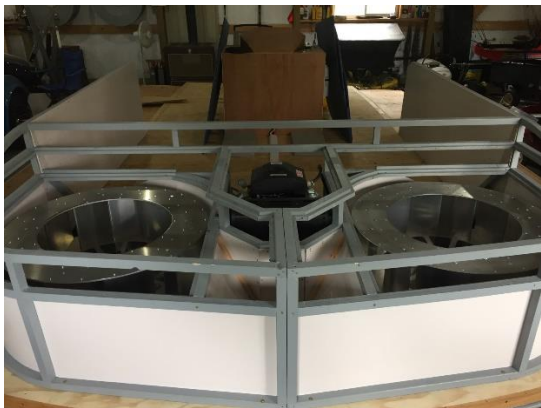
Remounted the 22 hp lift motor.



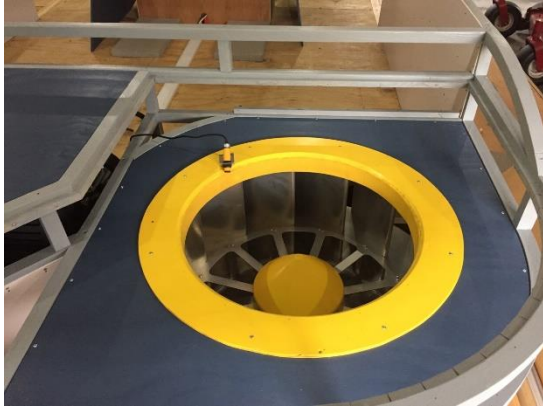
Added the fan spindles, pulleys and centrifugal clutch.



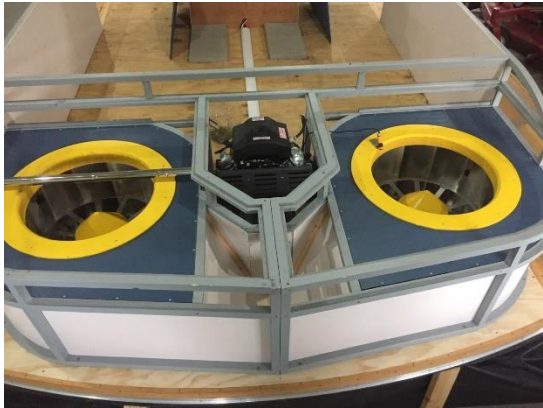
Added the two front fencing halves and the rear fence that ties the two halves together, positioned and screwed two halves together and screwed the assembly to the deck.



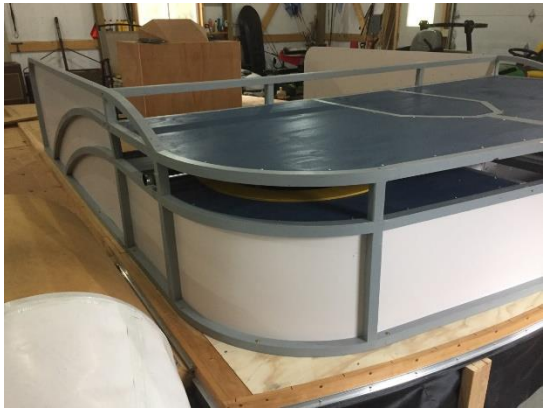
Dropped in the two centrifugal aluminum lift fans.



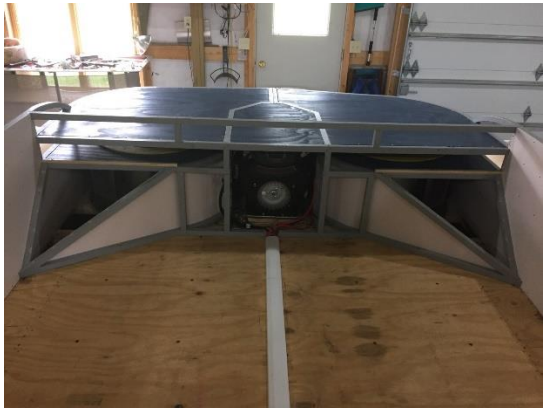
Added the fan enclosure cover, fan seal, fan spinner, and RPM IR sensor.



Added the right-side fan enclosure cover and lift engine exhaust.



The top deck is shown covering the two fans. The lift engine deck/hood is also shown. A suitable stainless-steel wire mesh will cover the air inlets to keep debris out of the fan intakes.



View of the front lift fan deck showing the exposed motor.



Rear fan cage cover in place with angled air diverters (not yet painted). This area will be hidden by a U-shaped seating arrangement.



Front view showing the covering for the rear of the fan cage in place.

Next phase of the development is a mock-up of the thrust section, featuring twin 42-inch ducted fans.

