



# Replacing the Valve in your RAVE Sports Product

## Replacing a Halkey Roberts Valve

Halkey Roberts boat valves (shown at right) are made in two parts: the nut on the inside of the inflatable and the valve itself that screws into the nut from the outside of the inflatable. The seal between the inflatable and the valve body is achieved by tightening the inner and outer threaded pieces together, compressing the raised ridges on the valve halves down into the PVC fabric.

It is a rather simple procedure to replace a valve. At the factory, we install valves very tight since the inflatable material will take a set, or be permanently deformed by the ridges that are molded into the valve flange where they compress the fabric. The valve will be hard to break loose at first but can be easily turned with a pair of pliers.



## Replacement procedure

### Time required: Approx. 1-2 minutes

Let the air completely out of the inflatable tube. With the tube flat, grab hold of the inner valve body by bunching up the material around the valve. Be sure that the valve poppet on the inside of the valve is in the closed position. Depress and turn valve stem  $\frac{1}{4}$  turn counter clockwise if necessary.

Using a pair of channel lock pliers that are large enough to grab the outer circumference of the valve flange on the outside and gently break loose the valve from the nut, by turning the outer valve counter clockwise. Also be sure that you take care not to damage the inflatable material.





After the valve is cracked loose from the inflatable tube, you should be able to unscrew it the rest of the way by hand. When removing the outer valve body, ensure you maintain the position of the inner nut portion with respect to the hole in the fabric. Continue to hold tight onto the inner nut portion of the valve and do not allow the nut to move inside the tube or it will be very difficult to reposition it when installing the new valve.



After the valve is out visually check the inner nut to be sure that it is not cracked or damaged. If not, simply screw in the new valve by hand. Be careful when starting the new valve into the nut to ensure the valve and nut are not cross threaded.

**IMPORTANT:** RAVE uses valves from two different manufacturers. They are not interchangeable. Make sure you are replacing your valve with a "like color" valve to ensure a proper fit and seal.

Tighten the valve halves using the special wrench (shown at right) or using a needle nose pliers inserted into the valve with the tips of the pliers on opposite sides of the cross brace (shown below)

Tighten until the valve halves are snug against the fabric.



**CAUTION:** Do not over tighten. Over-tightening can crack the valve nut causing air leakage. Installation is complete. The product can be re-inflated and used immediately.