

Hobie Mirage Outback and Adventure drive well strengthening kit. **Not for other Hobie Mirage Models.**

Important note: Kits are for specific models and serial number ranges. Outbacks with serial numbers A3753 through F2853 and Adventure with serial numbers D0001 through D1875. This complete kit may not be needed for older Outback models due to the length of the camlock knob bolts. Outbacks built before August of 2003 (Serial number 3753) should not need the longer bolts. Those boats would have appropriate bolt lengths. Boats built after that serial number are suspect due to a change in the mold shape.

It has come to our attention that the camlock knobs can flex out of column under heavy loads. This may allow the knobs to “ratchet” loose. This in turn may allow the drive to come loose and slip forward in the well. The longer bolts provided in this kit stiffen up the knob connections. Additionally, we suggest installation of the included fiberglass molded part with Epoxy to insure strength of the forward contact point of the MirageDrive™.

Installing the MirageDrive cam lock knobs with “long” bolts:

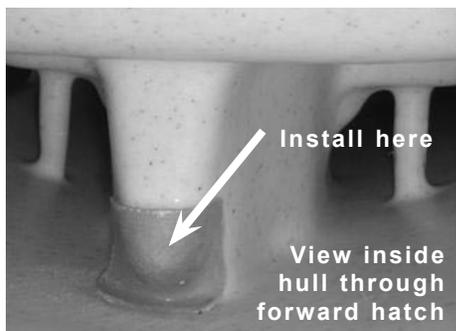
The longer, tapered bolts reduce the stress on the plastic that the bolts thread into. This helps to hold the cam knobs more securely which keeps the Mirage Drive from slipping forward.

Remove the old bolts and knobs using the included Allen wrench.

Install the new bolts with the new knobs provided (these are provided in case of previous damage to existing knobs) and tighten until the cam knobs just become slightly snug to twist in a 360 degree rotation. Do not over-tighten or the cam knobs will be too tight or you could possibly strip the plastic threads in the hull. Be sure the knobs can turn freely 360 degrees.

Additional Note:

If the boat has experienced repeated drive slippage, the drum shaft recess may have been compromised. A dremmel grinding tool may be used to reshape the recess slightly to better hold the shaft. Some Adventure models have a small bump of material in the forward side of the recess that should be removed.



Installing the Fiberglass MirageDrive well reinforcement:

Using the enclosed sand paper (on the inside of the kayak reaching through the hatch) rough up the area around the front of the MirageDrive well. Use the fiberglass Mirage well reinforcement part as a guide to determine where to sand. Ensure that the surface is good and roughed up, don't be shy with the sand paper. The Epoxy will better adhere to the plastic when the plastic is rough. Very rough is best.

Clean the area you just sanded with the enclosed alcohol pad to remove any grease, dirt, plastic dust or salt.

Mix and apply the Epoxy (per the package instructions / requires approx 1/3 oz of the epoxy). Holding the fiberglass part in your hand (wearing the provided glove) apply the Epoxy, liberally, to the side of the fiberglass molded part that will be in contact with the kayak. Be sure to cover all of the surface of the part with a thick layer of the Epoxy. Carefully press the fiberglass part onto the front of the Mirage well from the inside of the kayak. It should be a relatively snug fit. For best results, allow the Epoxy to cure for 24 hours before using the kayak. The fiberglass part will provide additional structure to hold the Mirage drive loads during heavy pedaling.

