



Fig. 1. Drill oversize holes using the hardware to be mounted or a template. Always "dry fit" the hardware and fastener; then apply wax or a mold release such as Evercoat™ to the bolt. Partially fill the hole with thickened epoxy .

Fig 2. Insert the bolt down the hole with a nut at the very end. It is important that the bolt be full-threaded in the hole. **Make sure it goes in a little deep to allow room to tighten the bolt.** The upper part needs to be stabilized, either with the hardware, a template, or another waxed nut. The lower nut gets bonded in. The epoxy hardens around the threads of the screw so that the epoxy also holds onto the bolt. Within a couple of hours after hardening, back off the bolt (it should come out readily because of the mold release or wax) and remove the hardware or template or stabilizing bolt.

Fig 3. Protect the area around the hole with masking tape. Re-insert the bolt, and using a syringe, top off the hole with more thickened epoxy. When the epoxy reaches the "hard cheese" stage, trim it flush with a smooth-bladed slightly flexible knife. When it has fully set up the screw is removable, leaving the threads cast in epoxy.

Fig. 4. Remove bolt. Install the hardware. Tighten gently. Let cure a couple of days and then tighten to recommended torque for the particular bolt or screw. It will be very strongly held in place. If you feel it is necessary you can re-coat the bolt in wax or mold release, then paint it with a thin coating of unthickened epoxy and screw it back in.

Note: Bedding into a horizontal surface is more difficult. The syringe would have to be inserted on the bottom and the thick epoxy inserted slowly so air would not be trapped.

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