Zephyr - Boat Tour & Fall 2020 projects

Zephyr - Boat Tour & Fall 2020 projects

Introduction

My Rhodes 22 was built in 1991 and the prior owner bought it refurbished from General Boats in 2013. When the prior owner bought it from the factory, he had a new Tohatsu 9.9 outboard put on with an electric start. He also bought it with a new Triad trailer. I bought the boat (formally known as Airpower and renamed to Zephyr) in July of 2019. I had started sailing by learning on dinghies at a local club in 2018. For the remainder of the season in 2019, I was just focused on the basics of learning how to manage the boat.

Some of the sailors rent a section of an old warehouse in an industrial area of downtown known as the "makerhood" that is made up of a variety of shops focused on woodwork, crafts, arts, etc. I put Zephyr in Boat Menders (the name of our shop) to work on it for a few months last fall. It's a great setup since there's a number of tools available for use such as a miter saw, table saw, band saw, sanders, etc. Last fall, I installed a new electric motor lift, made cockpit filler planks, applied a vinyl peel and stick layer on top of the plywood cockpit sole, applied the new boat name, and worked on some other smaller projects. I don't have a lot of background in this type of work so it has been a lot of learning as I go.

In the 2020 season I did some day and overnight anchoring at our local lake and also took a road trip to a larger lake. After some additional time using the boat in different circumstances, I decided to take on some additional projects this fall. It was a perfect way to escape the world events of this year by going to work on the boat. Some of the projects were bigger and required a level of commitment that made me nervous, but others were just minor ways of making a specific place for specific things so it's easier to store and find things on the boat. I find it gratifying to maximize use of space and that's important if you want to spend time overnighting on a 22' sailboat. The boat starts to feel a little bigger with each project that improves the use of space. About half of the projects I had planned for this season and the rest just came to mind while I was working on the boat.

Many of these projects were inspired by or similar versions of what other R22 owners have documented. Of course, there are my own ideas added in as well. Since I've found it so helpful to see what other R22 owners have done with their boats, I decided to document the project this fall and share it in case others may find it helpful.

For all of the hardware that I added or rebedded, I drilled through larger holes, filled with epoxy, then drilled through epoxy with the appropriate size holes for the bolts/screws. I added backing plates for all of the thru bolted hardware that I added or rebedded. I got some steel from the hardware store and used a grinder to cut the backing plates to size. On top of the backing plates, I used washers and nyloc nuts for all the bolts.

I experimented with a variety of epoxies, adhesives and sealants. For epoxies, I often used West System Gflex and sometimes added the 404 high density filler for second applications to the same area. I always used it unthickened first so it would soak and fill into any open areas. Whenever I put a hole through the deck, before applying epoxy, I would grind out the core from the edges using a Dremel. My goal is always to protect the deck core by creating an epoxy barrier between the fastener

and the core. I also used JB Weld Marine Epoxy and Total Boat Thixo in a few cases. Total Boat Thixo is by far the easiest to apply.

For strong adhesive, such as mounts for HDPE pieces in the lazarette, I used Loctite PL Marine which Practical Sailor indicates is similar to 3M 4200, but it is cheaper and available at Home Depot. For a sealant when rebedding some of the hardware and sealing the hatch, I used 3M 4000 UV, which was recommended by Boatworks Today for this type of application. For some hardware bedding, I used butyl tape.

Bow roller, Anchoring System and Lazarette Organization

Bow Roller

I added a bow roller with a 13 lb Mantus M2 anchor. I used a 21.5" anchor roller mounted to a ¼" stainless steel plate cut into a triangle. All of this is thru bolted with five ½ stainless steel bolts. I added the Mantus anchor guard which helps keep the anchor stable and helps keep the anchor away from the bow when raising it. I used rubber gasket material underneath the plate, and used a combination of Flex Paste and 3M 4000 UV for sealing the plate to the gasket and the gasket to the deck. I used DAP 18387 Premium Elastomeric Flexible All Purpose Waterproof Sealant at the top of the bolts and washers. For the holes in the deck, I drilled over sized holes and overfilled those with epoxy (first unthickened and then thickened) before drilling the appropriate size holes. I also pushed the bolts through Flexpaste to help with sealing out water. I'm sure there will be some condensation under the metal, but otherwise it's well sealed from water.

I was working around a lot of constraints when deciding on roller, anchor, placement, etc. My bow pulpit has a different mounting setup than some of the Rhodes I've seen and there is limited space with the pulpit, the solar fan, and the chocks. I also have to watch how far forward the roller and anchor extends due to the setup of the slip where it is stored during sailing season.

This project was possible because my brother is a steamfitter and handled all the metalwork. He cut the steel plate, welded the roller to the plate, drilled through the plate, and also welded an eye to the plate that I could use if I get a Code 0 / UPS or spinnaker someday. He is very skilled and did a great job!

The anchor is secured to the roller with a ¼" towing coupler pin that goes through a hole that we drilled in the side of the anchor roller. I liked the system described by Peter Nyberg and decided to get an anchor turner to help rotate the anchor upon retrieval. I found a cheaper model but it turns out to be quite large. I still think it will work fine. I added a few links of chain behind the anchor turner and that goes to an anchor rode pin as a secondary means of securing the anchor to the boat. To add even more stability when trailering, I made a wooden block with slots for the anchor shank and the mounting

Zephyr - Boat Tour & Fall 2020 projects

pin. The anchor is extremely stable with that in place. To make the wood block, I glued and screwed together 3 pieces of pine board and applied oil based spar urethane.

I plan to try the technique described by Peter Nyberg of using a painter that goes from the eye on the bow and connects to the rode using a block, thereby taking the load off the roller. I screwed and glued together 3 pieces of pine board and used a hole saw to drill two holes, one for the rode and one for the painter. I applied coats of oil based spar urethane.

Zephyr - Boat Tour & Fall 2020 projects

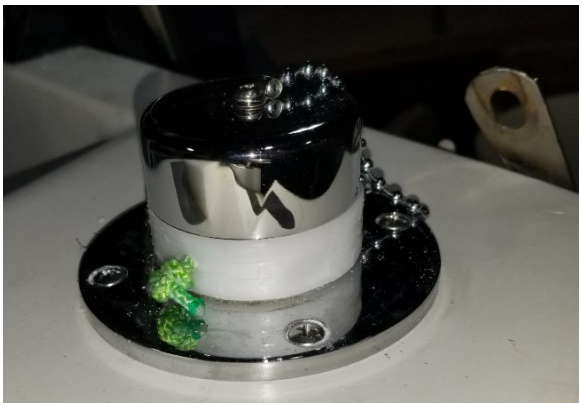
Zephyr - Boat Tour & Fall 2020 projects

Zephyr - Boat Tour & Fall 2020 projects

Running the rode to the Lazarette

When I plan on anchoring, I'll run the rode back to a folding midship horn cleat that I installed on the port side on the deck just forward of the cockpit. The chain will extend from the anchor until just forward of that cleat, where it transitions to 3 strand nylon that can be secured to the horn cleat. The rode goes back to the lazarette, where it enters Suncor top cap, goes through a plastic pipe that runs to the anchor rode bag. The Suncor top cap is screwed to a wooden backing plate under the deck, to which the plastic pipe is secured. The plastic pipe is a flexible gutter that I lined with aluminum tape to make it smooth for the rode to go through. The plastic pipe is secured in several ways as you can see from photos below. I used a messenger line that attaches to a plastic ring that goes around the base under the top of the piece on deck and then attaches to the anchor chain with a clip. I made the ring by cutting through HDPE with two different size hole saw bits. The rode goes into a West Marine anchor rode bag. The bag is secured to the top of the lazarette using Gear Ties (rubber coated metal wire - available at Home Depot) that run through eyes screwed into HDPE which screwed and glued to the boat. I had to cut some holes in the bag for the pipe and securing, etc. There is 180' of line which may be too much for the bag and I don't have a need for that much length normally where I sail. I might take some of the bitter end out and bundle it. The bitter end attaches to a horn cleat mounted on a board in the front of the transom. More on that in the next section. I covered the chain with 2" tubular nylon webbing from Strapworks. I sewed each end of the webbing to the chain using braided fishing line.

Midship cleat (shown in the folded down position)



Zephyr - Boat Tour & Fall 2020 projects

On the port side,
looking aft towards the transom.

West marine anchor rode back, secured at the top

Spare rode on starboard side

Zephyr - Boat Tour & Fall 2020 projects

Additional Lazarette Organization and Secondary Anchor / Rode Storage

Thanks to Chris Geankopolis for sharing how he organized the lazarette including an anchor mount and electronics cover. It was helpful to review his examples when I tackled this.

Electronics Cover

I made an HDPE cover for the electronics for the motor lift and secured all the electric lines. The cover is secured (but still easy to remove if needed) using spring locking hooks and eyes that are screwed into HDPE pieces glued to the hull with Loctite Marine Adhesive. Click here for a recap of the motor lift installation from last year.

Electronics area with cover removed.

Electronics area with cover in place

On the left, the stern side of the cover is shown. On the right, the forward (towards the bow) side of the cover is shown. Note that the fuel line runs through this to keep it secure, protected, and out of the way.

Zephyr - Boat Tour & Fall 2020 projects

Zephyr - Boat Tour & Fall 2020 projects

Thru Hull Protection

I taped together several 5x7 plastic picture frames to serve as protection over each thru hull: one for the depth sounder and one for the knot meter. These slide on from the side to some HDPE blocks that I cut for this purpose. Those HDPE blocks are glued to the hull with Loctite PL Marine Adhesive.

On the left you can see the covers are off. In between the thru hulls, you can see the inline check valve for the cockpit drain that I installed last fall. That project is documented at the link below:
http://rhodes-22.1065344.n5.nabble.com/installation-of-inline-check-valve-for-cockpit-drain-td56504.html#a56513

On the left the covers are off. On the right, the covers are in place. Below that is a side view.

Zephyr - Boat Tour & Fall 2020 projects

Secondary Anchor Mount

My boat came with an FX-7 Fortress anchor. I wanted to have one anchor easily at hand in the lazarette. I cut to size an edge glued pine panel that I secured to the front of the lazarette with 6 ½" stainless steel bolts and Loctite PL Marine Adhesive. I applied multiple coats of oil based spar urethane before installing the mounting plate in the lazarette. I used a 1" HDPE block glued to the base of the lazarette, with a hole drilled about ½" deep for one side of the anchor stock. The shank is secured to a door latch mounted vertically on HDPE blocks that are attached to the mounting board. The fluke on the bottom rests in an angled and notched HDPE block. The stock on the top, slides into a HDPE block with a notch. It's easier to demonstrate with the photos below. Once I had the mounting board in place, I found that it was a good place to stow the tiller extension and winch. After I took these photos, I also mounted a battery powered water alarm with the sensor a couple of inches above the bottom of the lazarette. I also added a battery powered water alarm in the bilge. These are the type of water alarms that are typically used for sumps in a house. My boat has been bone dry in these areas, but if something went wrong, I'd like to know as soon as possible.

The secondary rode is in a 3 gallon bucket stored on the starboard side. I have a small collapsible bucket for rinsing that sits on top of the rode in that bucket. I also store some rubber covered gardening gloves on top of that bucket for use with that rode.

Zephyr - Boat Tour & Fall 2020 projects

Top view looking down

Zephyr - Boat Tour & Fall 2020 projects

Hatch

I decided to add a hatch over the head (porta-potty). Having head room (pun intended) is helpful an it will provide extra ventilation while at anchor. This was the darkest part of the boat but the hatch added light and that makes a big difference. I decided that one hatch was enough since I think that will provide sufficient airflow and it's nice to have a spot without a hatch on one side for stepping on the deck.

I ordered a Pompanette Bowmar CRX series hatch from Voilet Yachts and over the phone consulting on installation was part of the purchase. Gustavo was very helpful and also provided a PDF with illustrations for guidance. I was nervous about cutting a giant hole in the deck and wanted to make sure I got this right. Fortunately, it all turned out well.

First, I used some posterboard and foam board to cut templates to use for placement. You have to consider the dimensions of the hole as well as the outside of the trim. I drew a grid on the template. First I tried putting the template on the top and then the bottom to guess where would fit best. Then I put the template on the deck and drilled holes going through the outside corners of the grid on the template and drilled all the way through the deck. I removed the template from the deck and inserted nails from the top, then took the template into the cabin and fitted the template onto the ceiling by placing the template so that the nails go through the holes that were made in the pattern. I had to try this a couple of times to get the right placement. There's not a lot of extra clearance since there is the mast step towards the center of the boat, and I had to leave clearance for the lower forward starboard shroud when opening the hatch. I couldn't place it too far back due to the bulkhead and lines that I have running from the mast organizer to a deck organizer (more on that in the rigging changes section of this document). I ended up placing the edge of the cut fairly close to the bulkhead. I used a cutting disk on my Dremel to trim the edge of the underside trim that goes by the bulkhead. I removed the original trim that was at the joint between the bulkhead and cabin top since that would be in the way.

I taped the border where the hole would go. In the photos below, the inside line of blue tape represented the cut line and then I taped over that with light masking tape to help keep the edges in place for a clean cut. First I drilled the corners with the hole saw. Then I used the circular saw and jig saw for the straight cuts. I used a metal cutting blade on the circular saw since I thought it would be a smoother cut due to the finer teeth. I used a fine wood cutting blade on a jigsaw to connect the holesaw cuts to the larger straight cuts from the circular saw. As I finished cutting each side, I would re-tape it on bottom and top so it would all stay level as I finished all the cuts. I didn't want it starting to sag and fall through as I finished the final cuts. Thanks to Gustavo for the tips on this process.

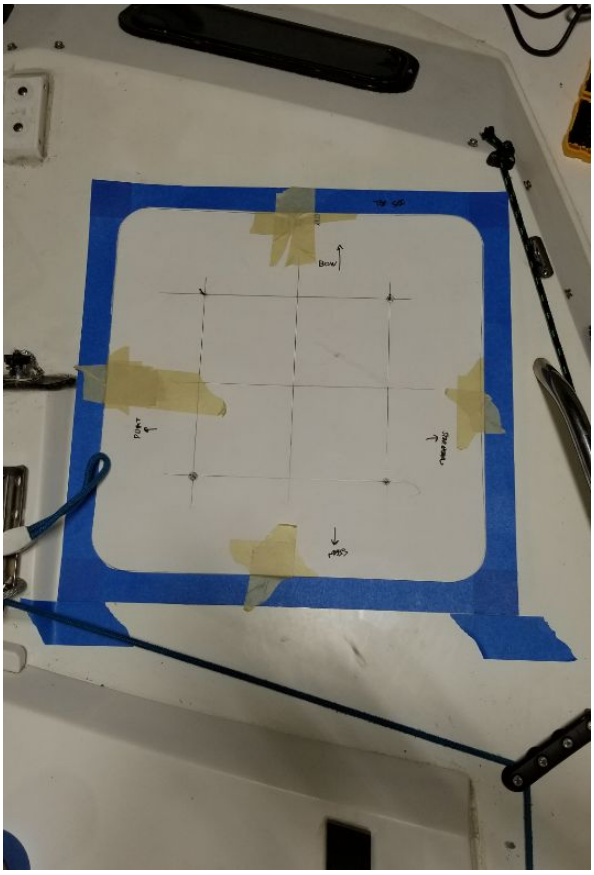
After removing the section that I cut out, I used a dremel to grind out the edges. The deck is made up of 3 layers of fiberglass. Between the deck and the middle piece of the fiberglass, there is what I think is some sort of rigid foam. Between the middle layer of fiberglass and the ceiling of the cabin, there is a sticky adhesive that can come off when not under pressure. First I applied a layer of unthickened West Systems GFlex epoxy. Then I applied a layer of thickened epoxy by adding the 404 hardener. I needed to fill in the edges, particularly the bottom layer, so I used a heavy covering of Bondo fiberglass resin jelly and then sanded that down. I think that would have been sufficient but I wanted an excuse yo learn how to work with fiberglass matting, so I applied Bondo fiberglass cloth with Bondo fiberglass

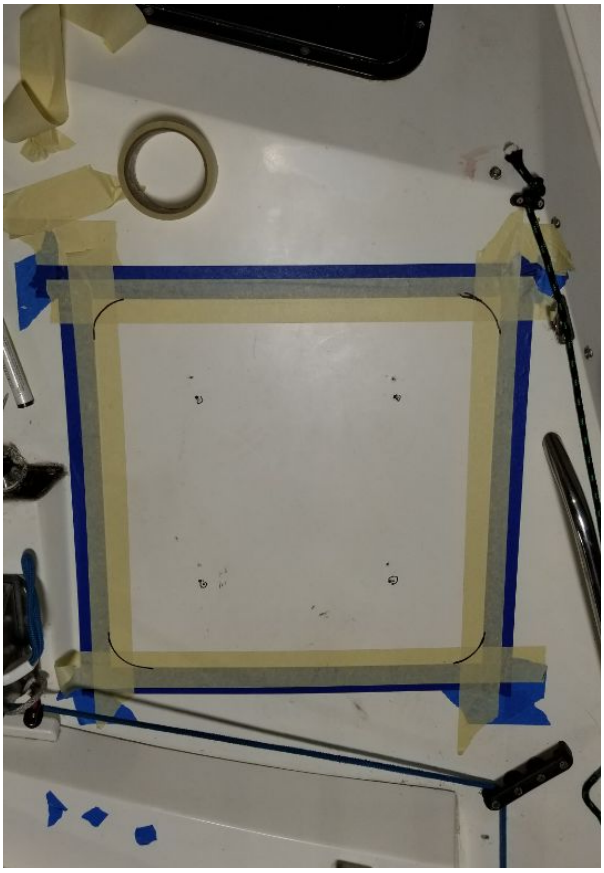
Zephyr - Boat Tour & Fall 2020 projects

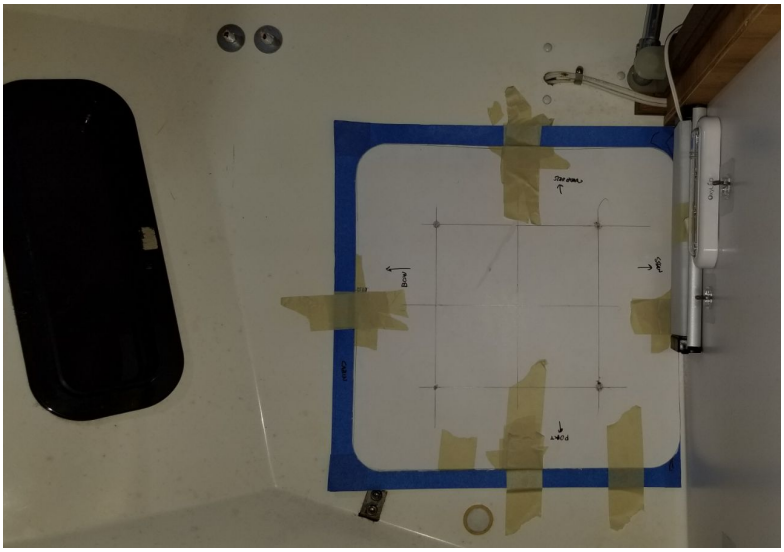
resin (this is a thin resin which is different from the jelly). I sanded this and then applied some spray paint. I screwed in the bottom trim for the hatch and then used Loctite Marine Epoxy to fill some gaps between the edge of the cut on top and the underside trim. The edge around this hole is now very strong. I erred on the side of excess for reinforcement and waterproofing.

I used the normal drill fill drill technique with epoxy for the screw holes on the base of the hatch on the deck. Since the deck is slightly curved from the center to the outside, I was concerned about screwing it flush around all the edges since it seems the hatches are intended for flat surfaces. I used two layers of thin rubber gasket on the center and outside edges, and a more flexible high density foam window gasket on the forward and aft edges. The window gasket compresses more at the middle and extends more to fill the gap as it goes away from the middle. Then I screwed in the hatch and sealed the edges with 3M 4000 UV. I'm happy with how it turned out. See below for photos of the installation and result.

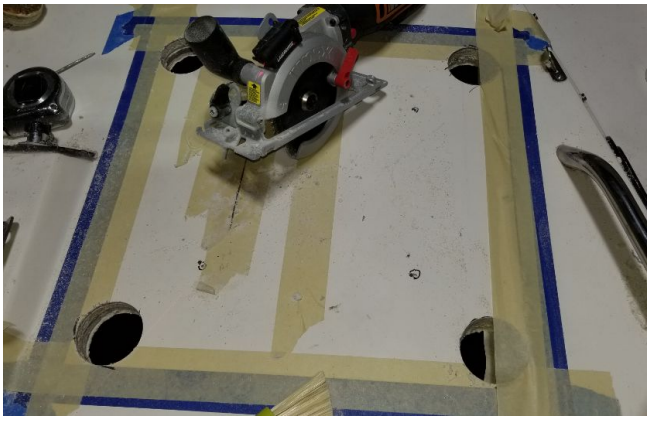
Zephyr - Boat Tour & Fall 2020 projects



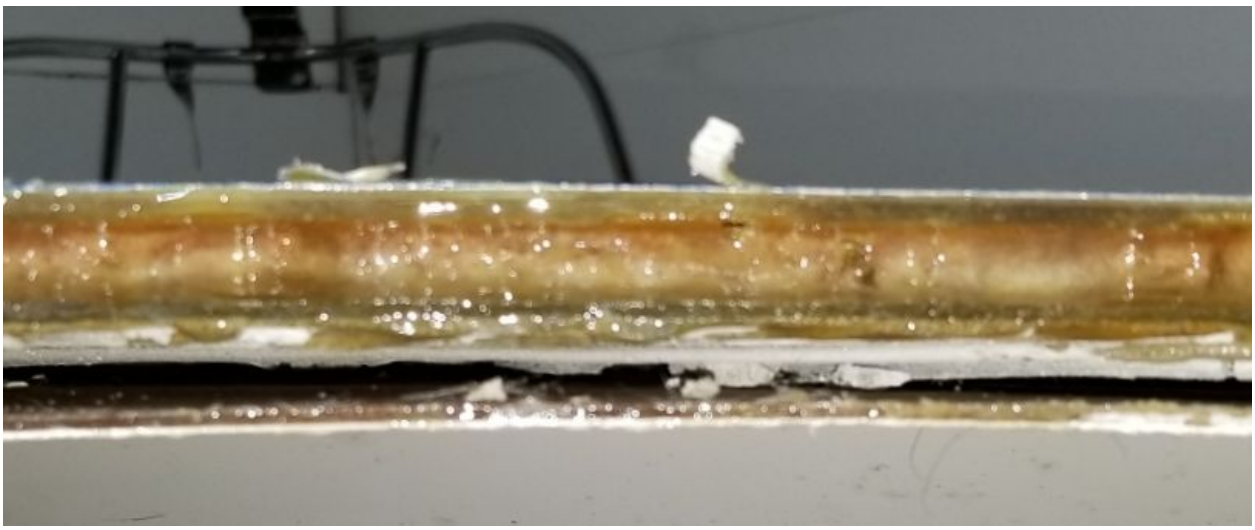




Zephyr - Boat Tour & Fall 2020 projects

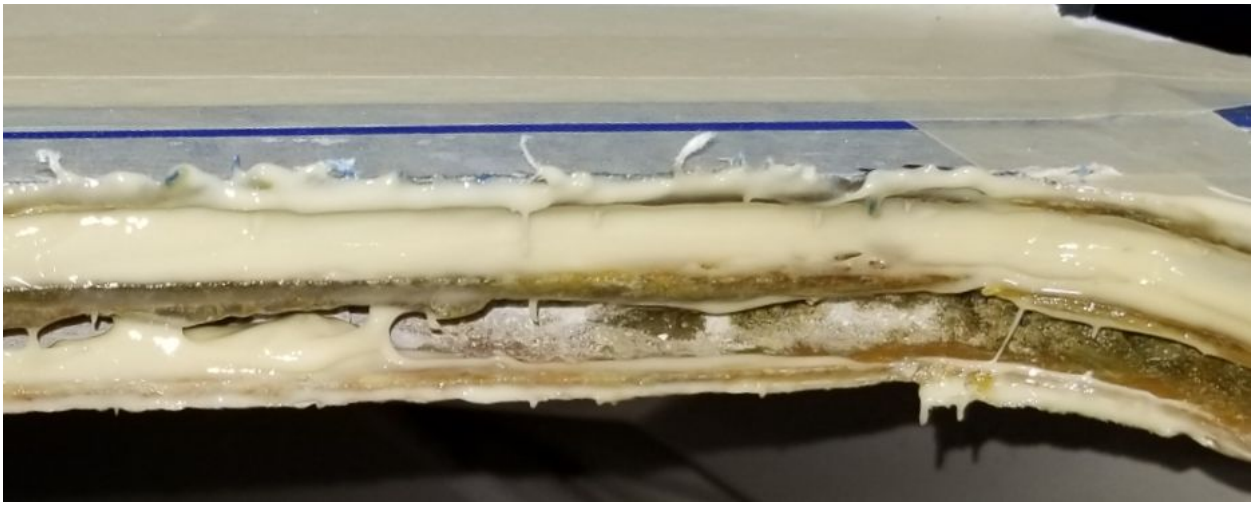


After unthickened epoxy



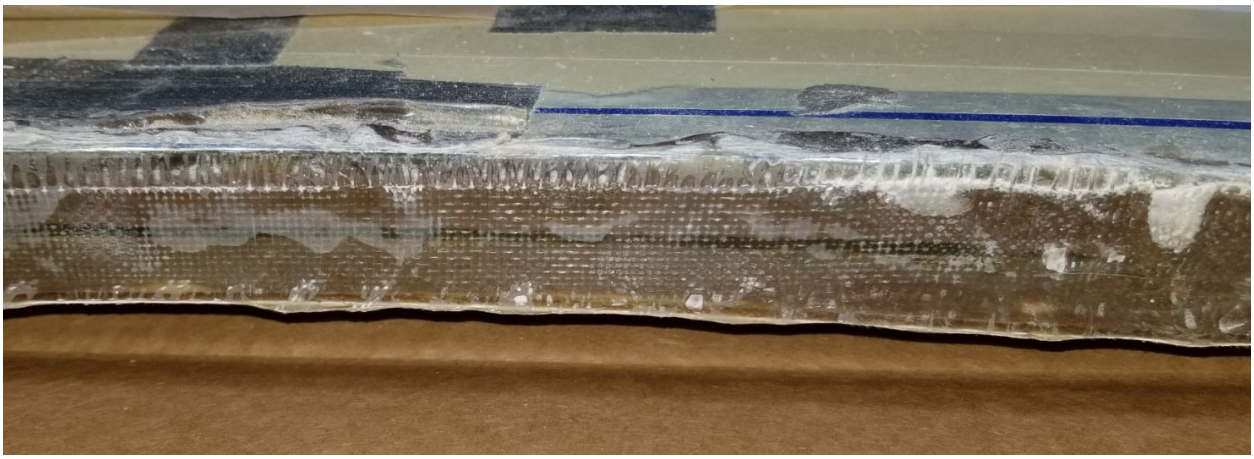
Zephyr - Boat Tour & Fall 2020 projects

After thickened epoxy



After Bondo Fiberglass Resin Jelly that has been sanded

After Bondo fiberglass cloth with fiberglass resin

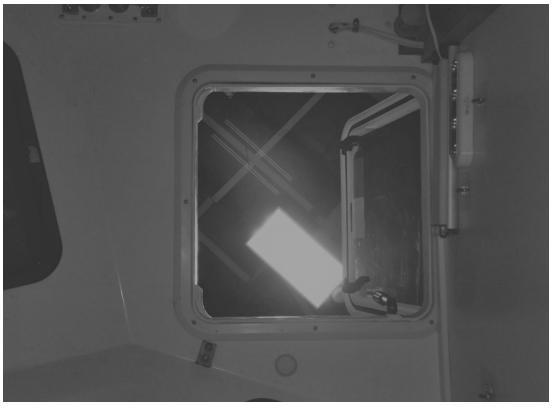


Zephyr - Boat Tour & Fall 2020 projects

Painted edges before the trim is applied

Gasket material in place

Views from the cabin looking up



Zephyr - Boat Tour & Fall 2020 projects

Rigging changes

I decided to try running the outhaul and furler for my mainsail to the cabin top, like Peter Nyberg documented in his youtube video: https://youtu.be/YS1MIEcvkPs. I installed a halyard organizer (Dwyer part # DH288) under the tabernacle to hang blocks. On each side, I also added a deck organizer and an extra cleat on the cabin top. In addition to the outhaul and furler for the mainsail, I'll run the topping lift and an extra halyard back to the cabin. If I get a UPS or spinnaker in the future then I can use the extra halyard for that purpose. For all the hardware, I used the drill fill drill process to protect the deck core by screwing into epoxy plugs. The dyneema line in the photo of the tabernacle is for attaching a boom vang that I use on occasion. I also added some blocks to the boom and tabernacle.

Zephyr - Boat Tour & Fall 2020 projects

Inject-a-deck

There was a soft area on the port side of the foredeck where there had been some delamination. I decided trying to use Injectadeck Marine Structural Foam to reinforce this area. More info on their product is at https://injectadeck.com/. I drilled 5 holes about 10" apart on the top of the deck. These holes went through the first two layers of fiberglass, but not through the ceiling of the v-berth. I also drilled a couple of exhaust holes (only through the ceiling, not two layers of fiberblass above) in the ceiling of the v-berth to allow for excess foam to exit. The ceiling in the port side of the v-berth bulged slightly due to foam expansion. I had to add a small extension to the center side of the table holder on the ceiling to accommodate and still slide the table in. I used masking tape to cover the whole port side of the foredeck before applying this. It worked well and I now have a solid foredeck on both sides. I had a friend help me with cleanup during the application. It worked so well that he's going to buy some of the excess cartridges from me to address soft spots on his boat. A day after the application, I drilled out the original holes, filled them with Thixo epoxy, then a layer of MarineTex epoxy and applied some touchup paint on top of that. I don't have texture where the holes were, but it's not noticeable and I'm happy with how it turned out.

I also rebedded the hardware on the foredeck using the drill fill drill process with epoxy and used 3M 4000 UV for sealant. There had been some staining on the gel coat around the bow cleat from what looked like corrosion so I wet sanded that with 600 grit and progressively finer grit which took care of that. You can see the difference in the before and after photos below. The bow pulpit bolts were already encased in some sort of epoxy so I just ran a bead of 3M 4000 UV around the base.

Zephyr - Boat Tour & Fall 2020 projects

Cabin

Drawer under companionway step

My boat just had the single large drawer that slides on the cabin sole out from under the step under the companionway. I built a drawer to go over that using ½" plywood as a base with 1x4 boards along the edge. I used brackets to fasten the wood together. I mounted the drawer on soft close tracks because I worried that the drawer would not stay put with normal tracks. I notched the fiberglass so the drawer could extend all the way back. It's 33" deep so it provides a lot of extra storage. I initially planned to fit the drawer and then take it back off to finish the wood in stain or paint. It was a challenge to get the drawer on the tracks. I had to mount a temporary handle on the base to get it into place. After all the salty language it took to mount the drawer, I decided that it was fine to leave this hidden drawer with raw wood.

Zephyr - Boat Tour & Fall 2020 projects

Bulkhead by Galley

Starting the top left, you can see a 12V fan that the prior owner added. It's wired to the light on the front side of the bulkhead (the fan works instead of the light). It's conveniently placed and works great. I added a bottle opener just under the mast step. There's a digital barometer just to the right of that. To the right you can see a hand bearing compass on a hook, and a paper towel holder that I added. I used a spice rack to mount a first aid kit so it is easily accessible. I often have new people on the boat and didn't want to have to explain where to find bandaids buried in a pile of stuff deep in a drawer. I moved the fire extinguisher from beneath the galley to the bulkhead where it is easily visible. I have another fire extinguisher in one of the storage containers under the cockpit benches. Beneath the fire extinguisher, you can see a flip up cup holder (currently closed). To the right, I added some plastic holders which contain binoculars and an anemometer. Just in front of the sink, there's a towel holder under the galley rail. On the ceiling, I added a dimmable battery powered LED light which is angled to help illuminate the drawers under the companionway step when they are opened. At the bottom, you can see new PVC trim which I had left over after replacing the trim that covers the interior of the hull to deck joint.

Zephyr - Boat Tour & Fall 2020 projects

Galley Cabinet

I bought two sets of plastic drawers, one smaller set for the forward side and one larger set for the aft side of the cabinet. I mounted the drawers on ½" plywood with braces on the corners. This prevents the drawers from moving side to side or backward (when heeling towards port). The drawers are kept shut by the sliding doors of the galley cabinet. I glued some mounting blocks for a coffee container (not used for coffee, it was just a convenient size for that spot) on top of the small set of drawers and I have a dish set that goes on top of the larger set of drawers. In between the sets of drawers, I have a set of stacking containers. Last year, I installed a new stove because the old one was no longer working. I mounted a spice rack under the stove for extra storage. There was already a fire extinguisher mount in the galley but I used that for a container with denatured alcohol, which can be used in the Triangia alcohol stove that is part of the cookset that contains the pots and pans onboard. I had that left over from gear that I used for bicycle touring and figured it could be a backup to the butane stove.

Zephyr - Boat Tour & Fall 2020 projects

Head Area

I discovered that the small shelf behind the porta potty was just wedged in place and you can slide it out to access a small storage area. I added hooks and eyes to secure this, because I added eyes in the front of the vertical piece to hook a bungee cord that goes around the head to help secure it. I also added eyes to the floor beneath the head and hooks on the head and attached those with clips to help keep the head extra secure when heeling. It is top heavy when filled with clean water up top and empty on the bottom.

Zephyr - Boat Tour & Fall 2020 projects

I added an additional shelf above the one that was already in place behind the head. I used some cardboard to rough fit and then I got some practice with angled cuts. I might add some netting that would extend from the ledge and hook into eyes screwed in to the trim above. This would be good for good storage for bulky items.

Storage for Hatches

Insect Screen for Hatch on Deck

I used a miter bit on my dremel and some spare trim to make a U shaped holder for the insect screen for the overhead head hatch, since I would only use the insect screen while at anchor. It's out of the way and easy to access.

Companionway Hatch Cover

I had previously stowed the companionway hatch in the v-berth, but that was not ideal because it could slide around. I mounted a small section of plywood at the base of the front of the bulkhead so that it was flush with the trim but left a slot for the companionway hatch cover. I also added a small piece of PVC trim higher up that extended far enough to serve as a brace. I screwed in an eye into the PVC piece and used a velcro loop to attach to the hatch handle. The hatch fits perfectly in this space. You can't see it from this photo but there is a hook attached to an eye screwed into the shelf, and this hook goes around the hinge on top side of the companionway. The shelf is set back a bit so you can slide the companionway at an angle and then it fits snugly. This will be a secure and out of the way place to stow the companionway hatch.

Zephyr - Boat Tour & Fall 2020 projects

My boat came with a board that can be mounted over the head to extend the V berth for sleeping. I had to cut that to allow for the new shelf and the screen mount. I haven't used this board yet, but I went ahead and modified it so it can be used.

I also added a handle in the front of the cabin roof. At the beginning of the session, there was an incident where a shroud was hung while raising the mast, and I pulled out the base for the mast crutch. The mast was low and no further damage. That was a lesson learned and we always have someone checking to make sure stays are not caught, and never force the winch. Anyway, I thru bolted the base for the mast crutch. Whenever I had to get in or out of the V berth, mostly to work on something in the forepeak, I found myself looking for a hand hold when I was trying to extricate myself. I cut a base plate that is attached to the bolts from the mast crutch base, and bolted the handle to that. It's helpful to use when getting in or out of the v-berth.

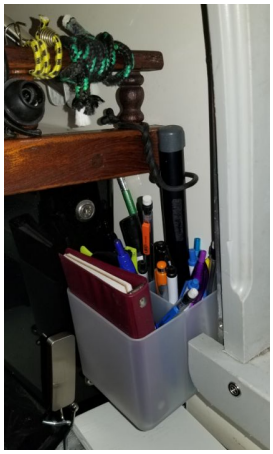
Zephyr - Boat Tour & Fall 2020 projects

Aft portion of Cabin

A few things to note in the photo below:

- On the left of the photo you can see a pencil holder that I also use to stow the auto pilot extension.
- Below that in white, you can see a compartment that will serve as trash container. I made that out of scrap ½ plywood left over from other projects. It extends into the indentation beneath the companionway. A shopping bag fits well inside and it's easy to remove the whole thing when needed.
- Between the icebox and bulkhead (not shown), I store a couple of butane canisters in an upside down ammo can, as well as storage containers for spare hardware, batteries, etc.
- Beneath the trash container, you can see my toolbox which slides in sideways. I added a handle to the side to make it easy to pull out.
- The wood on the companionway step was not in great condition, so I added a ¼" piece of oak plywood, and applied gel stain and multiple coats of spar urethane. I also added some strips of wood underneath the step for reinforcement and it is now solid. I also added a ¼" piece of oak plywood to the piece that can be flipped up or down near the head as you go forward to the v-berth (not shown in this photo).
- On the port side bulkhead, I added a cell phone holder, battery powered dimmable LED light, folding cup holder (in the collapsed position in the photo below), and a wall mount to stow a tablet, book, or anything else that you might want to have readily available.
- Below that I added a mount for the autopilot so that would be easily accessible. I added a small shelf on top of a 1" square wood piece that is screwed and glued to the bulkhead, and used extra PVC trim as a front piece attached to the shelf with hinges. Eyes and a clip are used to keep the vertical piece in place.
- I added a couple of hooks for a piece of netting that can be used to hang a net for food stowage on a longer trip. The netting came courtesy of a friend who is an autobody technician, and he got it from the trunk of a car that was totaled. The netting is not normally in use so it will be stored in a shelf on the side of the v-berth.

Zephyr - Boat Tour & Fall 2020 projects



Zephyr - Boat Tour & Fall 2020 projects

V Berth

One of my batteries is on the port side at the rear of the V berth. There is also a battery charger installed by the prior owner. I glued a couple of strips of wood above the battery for mounting a removable tray/shelf..The vertical pieces are locked in using door latches so it can easily be taken apart and removed. I found some storage containers that fit right in front of the water tank. To the right of the water tank, the water pump is mounted and with the extra room, I stow an extension cord, a 3 outlet cord with a 15 amp breaker, and a shore power to AC pigtail.

On the port side board that lines the v-berth, I added a couple of hooks to hold the whisker pole that I recently purchased. In that photo in the bottom right below, you can see the new white PVC trim that I used to replace the wood that covers the hull to deck joint. You can also see the handle that I added to the table top to make it easier to carry.

Zephyr - Boat Tour & Fall 2020 projects

Cockpit

Items to note in the photos below:

- Line holders beneath cleats
- Level gauge to easily measure the healing
- Magnets to mount tablet.
- Compass is on the port side and knot-meter / depth sounder gauge is on starboard
- I added a winch holder since I found it helpful to have a designated spot for the winch
- Built a new table using ½" Red Oak, applied gel stain and multiple coats of spar urethane. When I tested the table as part of the bed in the cabin, it flexed more than I would like, so I reinforced it with another layer of ½" wood for most of the middle area, and also added some ¼" strips on the front and back edges so it would be level with the layers that I added in the cabin. If I did this over again, I would have used ¾" plywood.
- The cockpit cushions were made by a local sailor who does sail work and also makes custom cushions. They have 3" foam and make the world of difference for comfort. The added height helps a bit with seeing over the cabin as well. There are two cushions on each side. I can stack all four cushions on one side of the v-berth when not in use.
- Under the starboard bench, I have one larger container that stores the pop top enclosure, two medium size containers, and one smaller container. I got these containers at The Container Store this fall and it's a much better use of space than the setup I had used prior to this. Under the port bench, I have two 3 gallon gas cans stored side by side aft, small container and then a low and long storage container in front of that. On top of that I have a large collapsible bucket. Beneath the port bench there is a boat hook mounted on clips. The cockpit filler planks are stored all the way to port, past the storage container. These are held in place with HPDE pieces as well as bunches between eyes.
- I added square aluminum bars to keep the underseat storage in place. These fit into HDPE mounts that are screwed and glued into the bulkheads.

Zephyr - Boat Tour & Fall 2020 projects

Starboard Bench

Port Bench

Zephyr - Boat Tour & Fall 2020 projects

You can see the fasteners for the wood inside the lazarette. You can also see the HDPE mounts for the aluminum bars. There are two layers of HDPE: one rectangle and then pieces that make up a U shape on top of that to provide the slot for the aluminum bars.

-