

Captain Nemo's Nautilus Submarine

Assembly Instructions

Before starting this classic mixed media model kit, make sure to clean all surfaces with a warm solution of gentle hand soap. This will remove any remaining mold release compounds.

Take proper time to acquaint yourself with all the parts and instructions. Doing so will allow you to familiarize you with the many unique fitting characteristics and avoid the need for corrections later.

Although this kit was inspected thoroughly before shipping, examine all parts before assembly to determine if any have been broken or are missing.

Tools Needed:

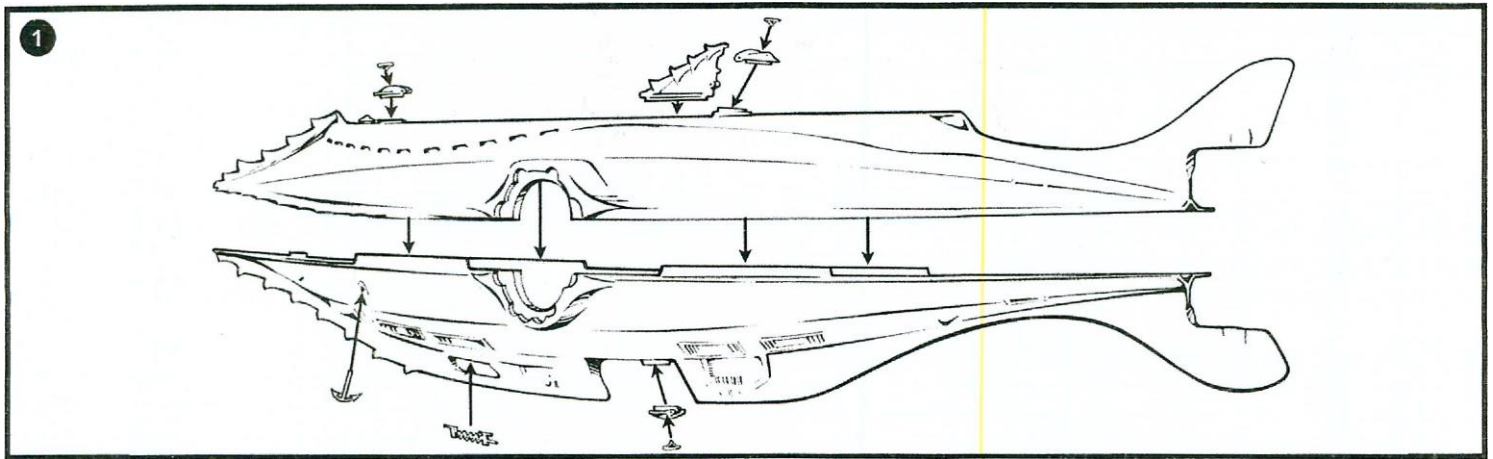
- #11 X-acto blade and knife holder
- Dremel tool with varying small engraving heads for tiny fitting adjustments.
- Several grades of medium and fine sandpapers.
- Pin-vise or mini-drill set.
- Several toothpicks for applying glue droplets.

Glues suggested:

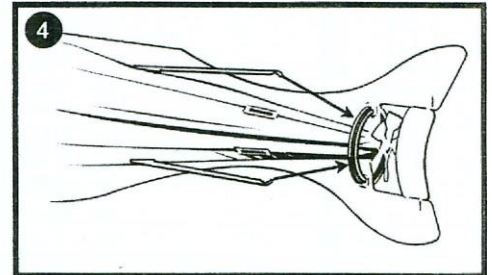
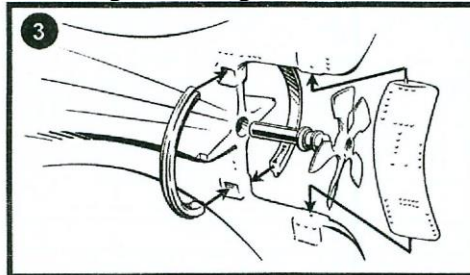
- Cyanoacrylate - Medium
- Cyanoacrylate - Thin
- Krystal Klear or water-based white glue for window installation.

Paints suggested:

- Model Master's Euro-Gray
- Model Master's Rust
- Model Master's Leather
- Model Master's Brass
- Model Master's Gunmetal
- Model Master's Flat Black
- Primer and Matte Spray



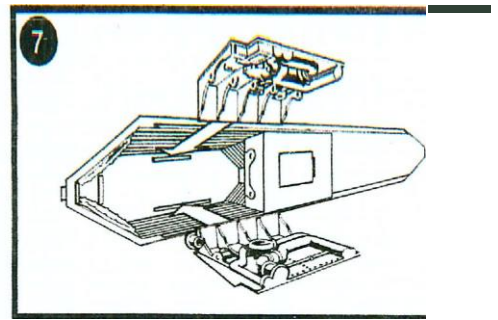
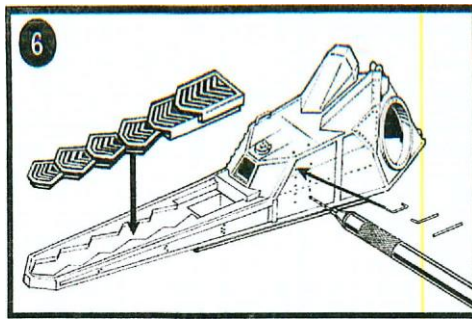
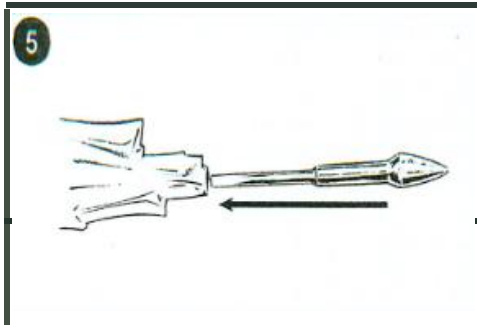
Step 1: Clean off any possible remaining mold release residues with warm water and a mild detergent. Glue upper and lower hull pieces together. Make sure to align them carefully. Install rear dorsal fin into slot. Glue hatch wheels to all hatches. Attach large hatch to rear dorsal fin, over the connector prongs. Attach front and lower hatches to their tubes, keeping hinges facing rearward. Attach speed screw, noting proper direction, to lower fin opening. Drill and insert both anchors into the anchor openings. Make sure to have both anchor barbs resting up against lower hull. Remove the cast dive planes from the side keels and replace with the new cast replacement planes. Locate and install the lower keel boxes and gas exchanger assemblies into the lower keel.



Step 2: Glue left and right salon windows into place, making sure they are properly aligned within the window socket. Putty around window frames to fill in any gaps.

Step 3: Install prop, prop shaft, prop guards, and rudder into rear tailfin opening.

Step 4: Glue 2 prop guard braces onto each prop guard, making sure to space them evenly at top and bottom. Position rear points into rectangular boxes.

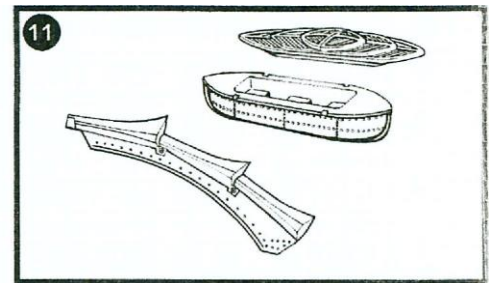
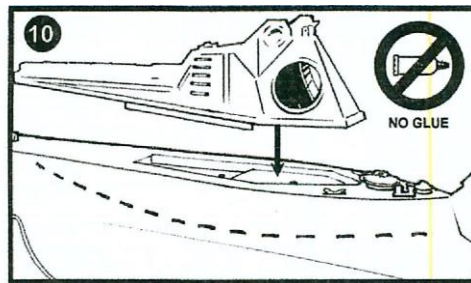
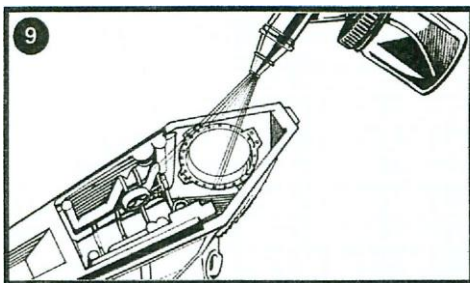
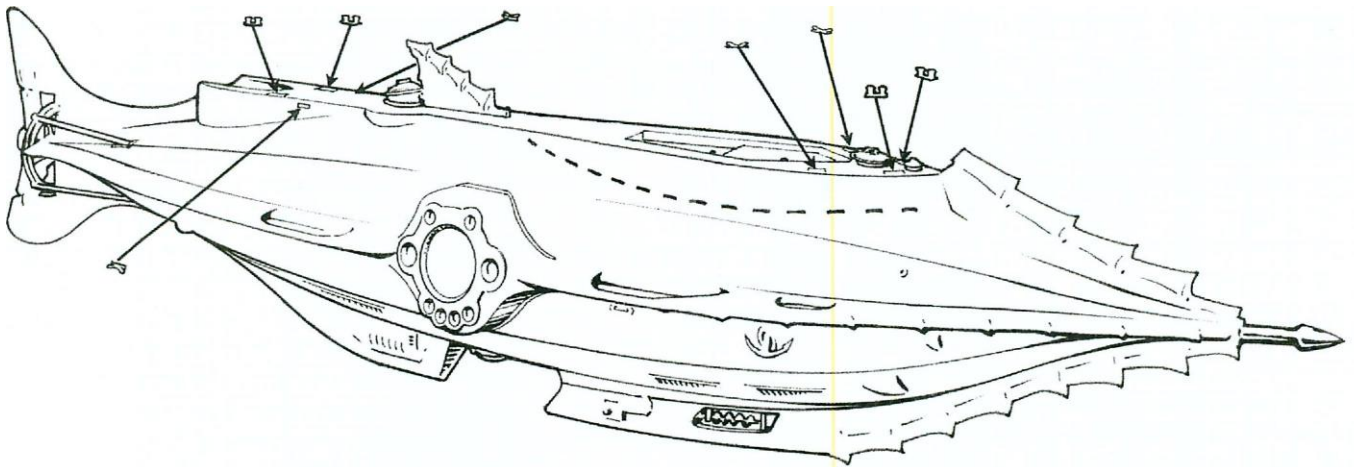


Step 5: Insert front nose spur into nose opening at front of submarine. Make sure to align the spur evenly, with a slight upward tilt. Also, check to see if spur is aligned left to right, as seen from a top view. Once aligned, set with glue.

Step 6: Drill holes in Wheelhouse exterior side walls for ladder rungs. Using the supplied brass rod, carefully bend each ladder rung into shape. If you struggle, Micromark has an excellent ladder rung bender available that will help immensely. Install the rungs with tiny drops of glue into holes. After rungs have been inserted, install either the raised or lowered breather plate into rear Wheelhouse cavity. Finish by priming outside of Wheelhouse, then set aside to dry.

Step 7: Glue Wheelhouse interior left and right wall pieces into Wheelhouse interior. Prime inside of Wheelhouse and let dry.

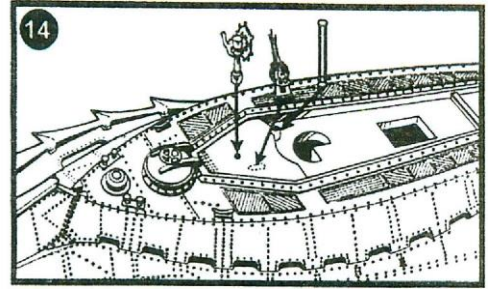
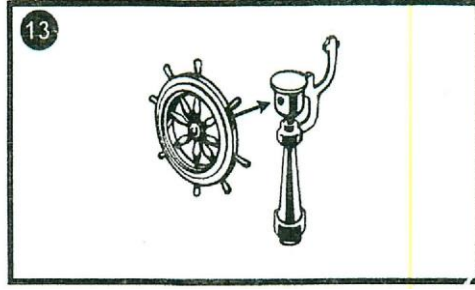
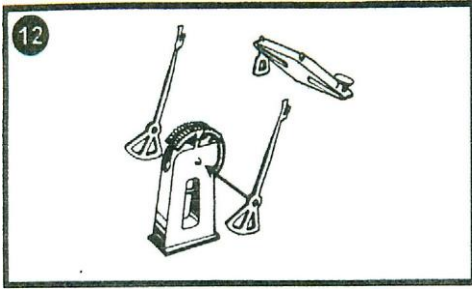
Step 8: Install cleats and bollards to their designated areas. Prime entire submarine assembly. Set aside to dry thoroughly.



Step 9: Paint upper hull interior deck and interior of Wheelhouse *Model Master Metallic Gray*. Let dry thoroughly.

Step 10: Tape over Wheelhouse windows from inside and place onto main hull assembly. Begin mixing the base color which consist of *Model Master's Euro 1 Gray, Rust, & Flat Black* in a ratio of 2 parts *Gray* to 1 part *Rust* to $\frac{1}{2}$ part *Flat Black*. Paint main hull and Wheelhouse at the same time.

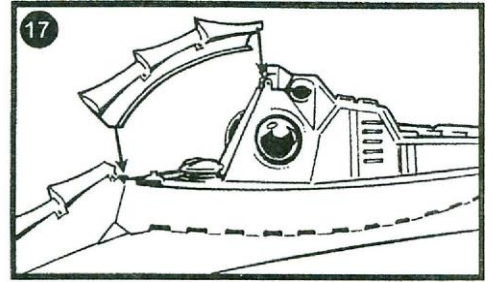
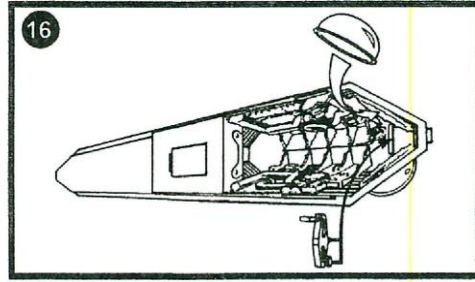
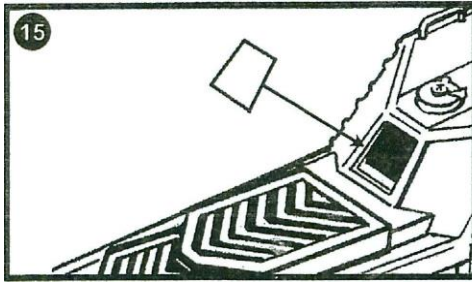
Step 11: Prime skiff, skiff cover, and upper tooth fin. When dry paint all items same basic hull color as in Step 10.



Step 12: Carefully remove the 3D resin printed detail parts from their print/transport raft. It is highly recommended to use a razor saw or rotary tool cutoff wheel to accomplish this, as using snips can shatter some of these delicate parts. Paint the dive lever sets *Model Master's Brass*. Set aside to dry.

Step 13: Paint the ship's wheel *Model Master's Brass*. Let assembly dry.

Step 14: Glue elevator levers and Wheelstand assemblies to Wheelhouse interior deck. Cut a 1.050" section of clear acrylic rod to make the depth float tube. Sand each end flat. Using White glue, attach to Wheelhouse floor end cap. Position Wheelhouse onto main deck, and check to see that float tube touches ceiling. Adjust top angle if necessary. Set aside to dry.



Step 15: Cut rear Wheelhouse window and install using white glue into frame. Allow to thoroughly dry.

Step 16: Cut Wheelhouse window domes with slight edge lip and install from inside. Fill in around dome and outer frame with white glue—sparingly. Let dry thoroughly. Finish painting the wheelhouse interior parts with a mixture of brass, copper and black paint. Allow the part to dry thoroughly. Next, install the Wheelhouse onto the upper hull deck, making sure that the float tube lines up with the ceiling end cap.

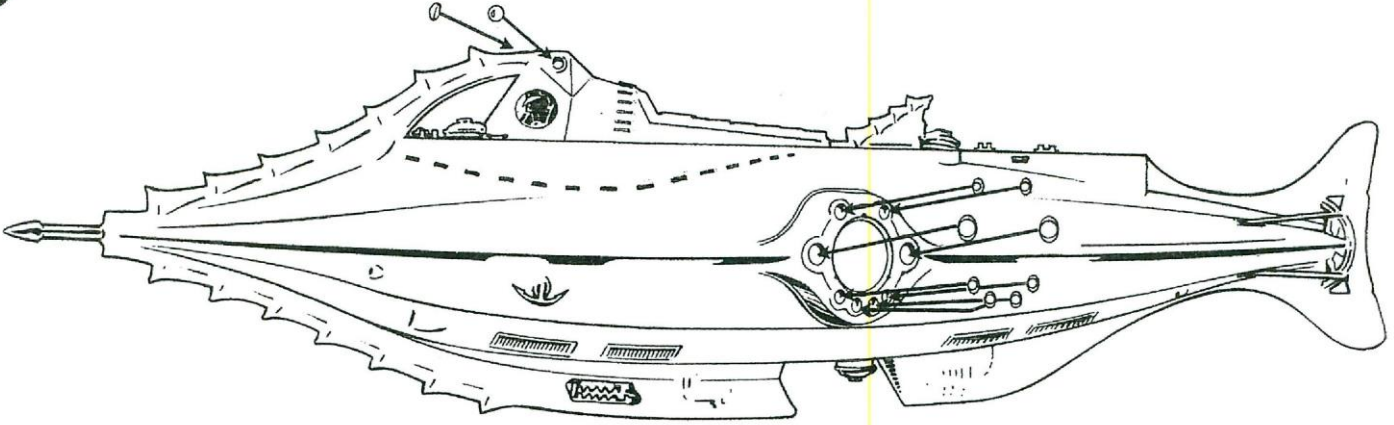
Step 17: Glue upper raker teeth assembly to upper hull and Wheelhouse assembly. Putty any gaps if necessary.

Ballast vent installation:

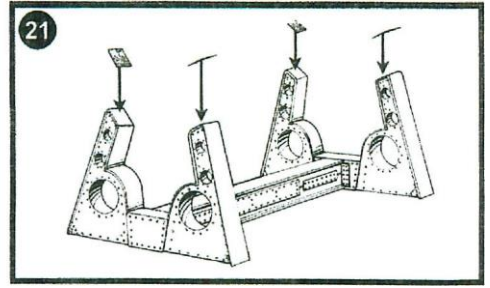
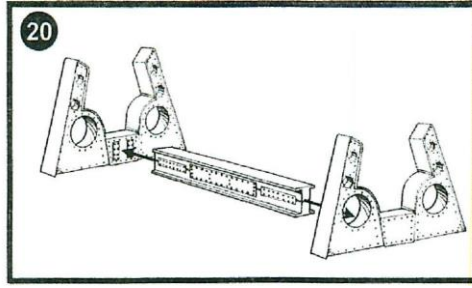
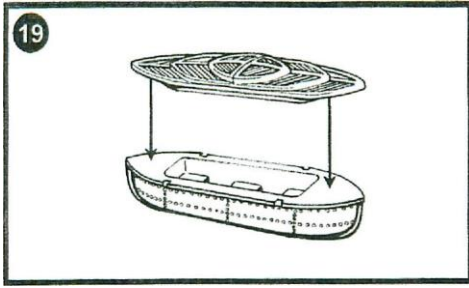
To be installed prior to priming the hull.

Using a rotary cutting tool, carefully grind out the pre-cast ballast grates in the lower hull. Be sure to leave a 1/16" edge around the grating. This will serve as a mounting flange for the new ballast grates. Use a file to square up the resulting hole. Insert and adhere the new ballast grating into the hull.

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Step 18: Using white glue, attach each floodlight lens to their respective frames. Set aside to dry

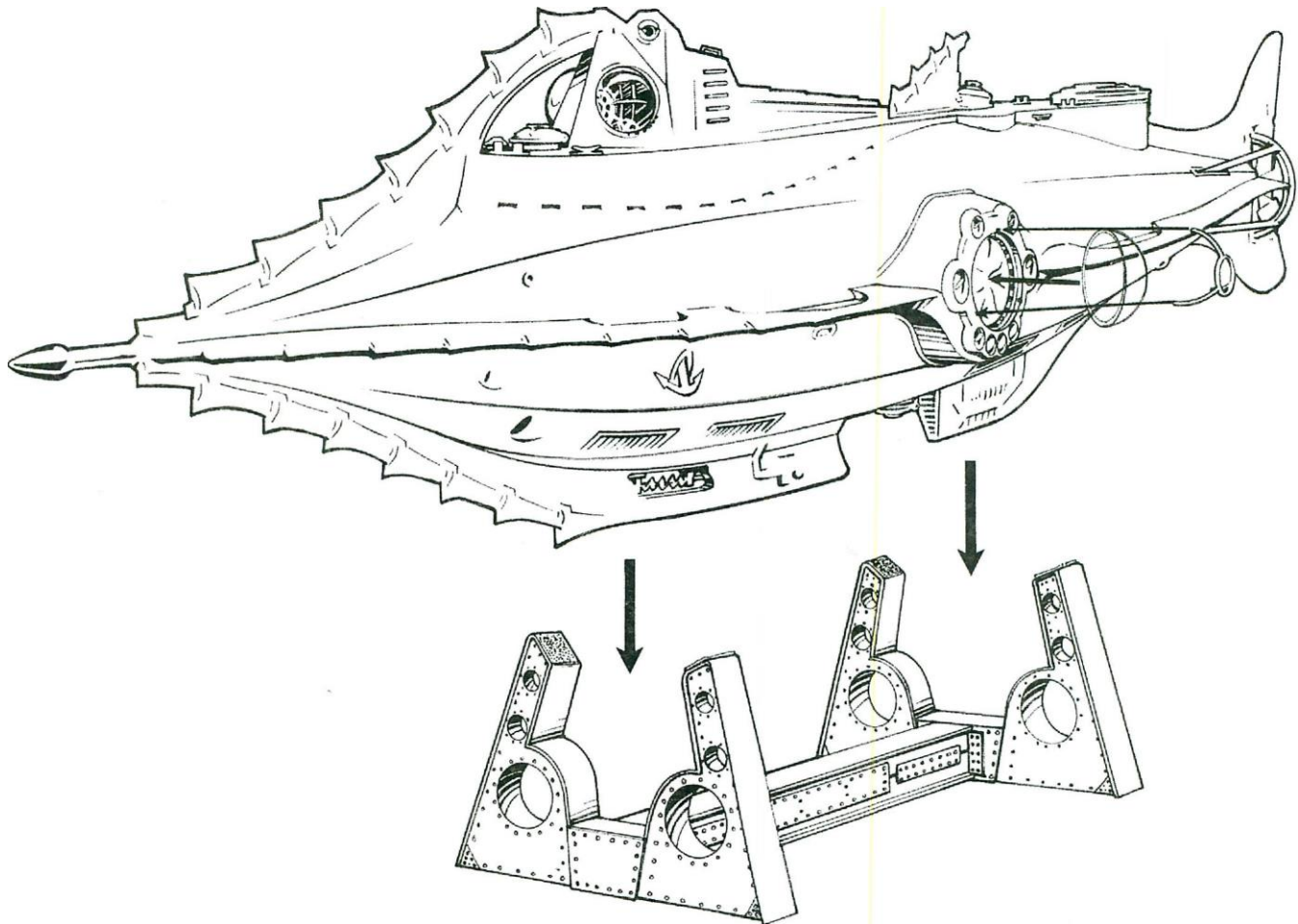


Step 19: Glue Skiff cover to Skiff. Options exist to display the skiff in either open or closed condition. Attaching the skiff to the upper hull assembly with glue is optional.

Step 20: Attach stand ends to center stand support. Make sure assembly is flat and aligned. Prime entire assembly, then set aside to dry. When dry, paint stand assembly *Model Master's Gunmetal*.

Step 21: After the stand has thoroughly dried, apply small pieces of felt to the stanchions, to avoid marring the Submarine's finish.

Step 22: Lastly, cut the salon window frames to size and them to salon frames with white glue. When dry, paint salon window dome outer frame to match body color and glue onto outer salon window frame. Touch up corners if necessary. Completed model is now ready to be placed on the display stand. Locate and paint the included display plaque in copper and gold with red lettering. Set in front of your display.



20,000 Leagues Under the Sea

Captain Nemo's Nautilus Submarine

P a r t s L i s t

1. Hull - Upper
2. Hull - Lower
3. Dorsal Fin
4. Rudder
5. Raker Arch
6. Wheelhouse
7. Wheelhouse wall port
8. Wheelhouse wall starboard
9. Breather flaps - lowered
10. Hatch Cover
11. Breather flaps - raised
12. Ram
13. Display stand uprights (x2)
14. Display stand support beam
15. Prop shrouds (x2)
16. Salon window frames (x2)
17. Salon Face - port
18. Salon Face - starboard
19. Salon iris insert (x2)
20. Propeller struts (x4)
21. Dive planes - trim (x2)
22. Dive Planes - forward (x2)
23. Dive Planes - stern (x2)
24. Propeller
25. Anchors x2
26. Skiff
27. Skiff cover - lower
28. Skiff cover - upper
29. Ship's Wheel
30. Dive Levers
31. Depth Tube clear acrylic rod
32. Forward hatch
33. Lower hatch
34. Dorsal hatch
35. Cleats x4
36. Bollards x4
37. Spiral speed indicator
38. Ballast vents x8
39. Lower keel boxes (L/R)
40. Gas exchanger assemblies (L/R)
41. Clear wheelhouse domes x2 30 mm diameter
42. Clear salon domes x2
43. Flat clear plastic for wheelhouse window
44. 1/32 brass rod for wheelhouse railings
45. Clear cast floodlight lenses
46. Crewmen set (9 figures)
47. Display plaque