PART NUMBER - VM-02/2023 H.M. Brig-Sloop Speedy 1782 **Building Manual** Version 2023 VANGUARD MODELS BY CHRIS WATTON

# HM BRIG-SLOOP SPEEDY HISTORY

The Speedy was ordered on 2nd June 1781 and built by Thomas King, a private shipyard owner based in Dover and launched on 29th June 1782. She moved to Deptford, Kent, to be fitted-out and have her hull covered with copper plates between 16 July and 25 October 1782. At her completion she had cost £4,200 7s 3d to build. She had a sister, Flirt, built at the same time in the same shipyard, but it was the Speedy that gained a reputation that far exceeded that of her diminutive size.

The Flirt/Speedy class of brig-sloops were the second class built to the new flush decked brig-sloop designs, the first being the Childers class of 1779 (Childers was in the very first action that led to the long war with France from 1793-1815, after being fired upon on 2nd January 1793 from a French battery based in Brest, a cannon ball from the battery being taken to the Admiralty in London). Both the Childers and Speedy class were almost identical, and it would be difficult to tell the differences. Both were around the same dimensions, mast plans and armament and crew compliment. They also shared the same very graceful lines, more cutter-like than brig. These early flush decked brig-sloops had a graceful sheer and steeply raked stern, unlike the later Cruiser and Cherokee classes.

The term 'Brig-Sloop' means that she was a two-masted vessel, and on the Navy List sloop was a term given to a vessel which was commanded by an officer with the rank of master and commander. Speedy was 207 tons, the length of her upper deck was just over 78 feet and her bredth was 25 ffeet, 8 inches. She had a crew of between 84 men and 6 officers, with only two of the officers being commissions, the commander and his lieutenant.

Her armament consisted of 14 x 4-Pounder carriage guns and 12 x half-pounder swivel guns (There are 20 swivel gun posts in total on Speedy, as the swivel guns could be taken out of their posts and moved and placed in another post). When Cochrane took command in early 1800, he asked for, and was allowed, two 12-pounder carriage guns as fore and stern chasers, but the was little room for the crew to work them and the timbers struggled with the recoil. He later asked for 6-pounders instead of the diminutive 4-pounders, but the gun ports were not large enough to take them. So, throughout her career, Speedy's armament remained essentially the same.

Speedy was commissioned under Commander Josias Rogers in May 1783 and was assigned to serve in the North Sea, operating out of the Humber estuary. After four years on this station she was paid off (placed in reserve) in January 1787 and began a refit at Woolwich in April that year. This work was completed by July at a cost of £1,801, and she was recommissioned in May that year under Commander John Maude, still on the Humber station.

From November 1790 she was under Commander Richard Lane, who was her captain until she was paid off in October 1791. Speedy then underwent another refit, this time at Deptford between June and December 1792, at a cost of £3,000, and was recommissioned in November 1792 under Commander Charles Cunningham. He was largely employed in carrying despatches and maintaining communications with other ships scattered throughout the Mediterranean ports. On 5 October 1793 Speedy accompanied HMS Bedford and HMS Captain into Genoa, where they captured a French frigate, Modeste, and two armed tartanes in the Raid on Genoa. In this action, Speedy sent two boats to board the tartanes while Bedford bombarded Modeste. The French crews of the tartanes attempted to resist and two of their crew-members were wounded, but the British did not suffer any casualties. Captain and Speedy then sailed to the Gulf of Spezia where they caught another French frigate, Imperieuse, at anchor. Imperieuse was scut-

tled by her crew, but was subsequently salvaged and recommissioned as HMS Imperieuse. Cunningham was promoted to captain and given command of the prize, with his commission backdated to the day of the capture, 12 October 1793.

Cunningham was replaced by Commander George Cockburn in the command of Speedy, which remained in the Mediterranean. His first duties were limited to carrying despatches and passengers between Toulon and Genoa, after which he was ordered to join Captain Sutherland of HMS Diadem, who was commanding a squadron blockading Genoa. The small fleet was caught in winter storms and several ships were badly damaged, forcing Sutherland and his squadron to seek shelter in nearby ports and to make repairs, with the exception of the little Speedy, which remained on station. Once Diadem had been repaired Sutherland returned to Genoa, and was surprised to discover Speedy still there patrolling the port, not once having left her task. While single-handedly maintaining the blockade, she had managed to capture several vessels. Sutherland ordered Speedy, which was by now running desperately short of water, to Hyères to refit. At the same time, Sutherland sent a complimentary report of Cockburn to Lord Hood. On 20 January 1794, Cockburn was rewarded with an acting commission as post-captain of the frigate HMS Meleager.[

Commander George Eyre took over command of Speedy in February 1794. Speedy supported the siege and capture of Bastia, after which Eyre was ordered to join Diadem off Nice. While making his way there on 9 June, he ran into a French fleet under Rear-Admiral Pierre Martin, which had sailed from Toulon several days earlier. Eyre attempted to escape, but the wind and sea favoured the larger vessels, and Speedy was chased down and captured. Speedy spent only a brief time sailing under the French flag. On 25 March 1795 her captain mistook Captain Thomas Fremantle's Inconstant for a French ship and she was recaptured and taken back into British service.

In early March the following year, Speedy, under the command of Thomas Elphinstone, joined a squadron cruising off Oneglia, Italy, under Commodore Horatio Nelson, consisting of the 64-gun ships HMS Agamemnon and HMS Diadem, the 32-gun frigates HMS Meleager and HMS Blanche and the shipsloop HMS Peterel. (There is a superb modern painting of this group by Geoff Hunt). On 25 April the squadron steered for Laöna bay, the commodore having received intelligence that a large convoy, laden with stores for the French army, had anchored off the town of Finale. When the squadron arrived, however, they found only four vessels moored under the guns of some batteries. The shore batteries opened fire on Peterel as she led the boats of the squadron to the attack. Despite the fire, the British were able to capture the four vessels and suffered only three men wounded.

In an action on 31 May the squadron chased the French ketch Genie, a gunboat of one gun, and five merchant ships, which took refuge near the guns of a shore battery. At 3p.m. Agamemnon, Blanche, Peterel and Speedy approached them and anchored in 4 fathoms (7.3 metres) of water. The four British ships fired their cannons, which disabled the shore battery, and then sent in several boats under heavy fire from the guns of Genie and the gunboat; the British successfully boarded and captured both ships. In the meantime, the merchant ships had beached themselves to avoid capture. Under heavy musket fire from the beach, the British captured and re-floated the four merchant vessels, and destroyed one. Among the British, one man was killed and three were wounded in the operation.

Elphinstone was succeeded in August 1797 by Commander Hugh Downman, who made several cruises with Speedy. On 3 February 1798 Speedy encountered the large privateer Papillon, mounting 18 guns and carrying 160 men, while sailing off Vigo. Papillon attacked Speedy, which had a reduced crew; her master Mr Marshall and 12 men were aboard a Spanish prize Speedy had taken earlier. The two ships

fought each other for two days; by the second day Downman had exhausted his supply of shot, and resorted to firing nails and pieces of iron hoop at his opponent. Having observed his captain's predicament, Marshall secured the Spanish crew below deck and took the prize crew off in a small boat to go to Downman's assistance. After a fierce fight Speedy succeeded in driving off Papillon; Speedy suffered losses of five killed and four wounded. Downman then recaptured his prize and returned to Lisbon to carry out repairs.

For his efforts in protecting British trade out of Oporto, the merchants there presented him with a letter of thanks, and a piece of plate valued at £50.As a reward for his good service, Downman was advanced to post-captain on 26 December 1798 and appointed commander of the 32-gun HMS Santa Dorothea, a frigate that had recently been captured from the Spanish.

Downman was succeeded in January of the following year by Commander Jahleel Brenton, who was based at Gibraltar. While sailing off Gibraltar in company with the British privateer Defender on 9 August 1799, Brenton came across three small Spanish warships, mounting twenty 6-pounders in total. The Spanish ran into a small sandy bay and anchored in a line so as to bring their guns to bear simultaneously on the British ships. Speedy and Defender sailed up and down for two hours firing broadsides, but without much effect. Defender only had 22 men on board and decided to sail further out to sea to meet one of her boats. Brenton thought the effort of keeping under sail was aiding the enemy, and anchored Speedy within 30 yards (27 metres) of the middle ship. The two exchanged a fierce cannonade for three-quarters of an hour, after which the Spanish abandoned their ships and made for the shore. Two of the ships ran ashore and the third was immediately captured. Speedy launched her boats to recover the other two, coming under musket fire from the Spanish on the hillside as they did so. The British got both vessels off and took them into Gibraltar, along with two men wounded during the operation.

### COCHRANE AND THE SPEEDY

Brenton was promoted to post-captain, and in March 1800 Commander Lord Cochrane took over. Cochrane was less than impressed with his new command, declaring that Speedy was "little more than a burlesque of a vessel of war". His cabin had only 5 feet (1.5 metres) of headroom; when Cochrane wished to shave he had to open a skylight and set his shaving equipment out on the quarterdeck. On another occasion he walked the quarterdeck with Speedy's entire broadside, seven pieces of four-pounder shot, in his pockets.

In early May Cochrane was escorting a convoy from Cagliari to Leghorn. On 11 May a ship which turned out to be the 6-gun privateer Intrépide was spotted capturing one of the merchant ships in the convoy, at which point Cochrane chased the Intrépide and forced her to surrender. Three days later, as the convoy passed the island of Montecristo, five rowing boats emerged from one of the island's coves and captured two of the rearmost merchant ships. Cochrane immediately gave chase, and recaptured them early the next morning. He was then given a free hand to raid enemy shipping in the area, and captured seven or eight vessels that June and July, including the 10-gun privateer Asuncion off Bastia on 25 June and the privateer Constitution off Caprea on 19 July. On 22 September he captured a large Neapolitan vessel and, on bringing her into Port Mahon, discovered that the Spanish had taken notice of his depredations and were preparing a frigate to capture Speedy.

Cochrane prepared for an encounter with this Spanish vessel by painting Speedy to resemble the Danish brig Clomer, then in the Mediterranean. He also appointed a Dane as quartermaster and found him a Danish naval officer's uniform. While cruising off Alicante on 21 December, Speedy encountered an enemy frigate, but tricked her into thinking she was a neutral vessel. Cochrane again used this false flag

technique to his advantage; on 22 January he was sailing with a convoy of Danish merchantmen under a Danish flag, pretending to escort them. When a 10-gun French ship and 8-gun Spanish brig approached, Cochrane hoisted British colours and attacked, capturing both of them.

Then on 24 February Cochrane captured the French naval brig Caroline, of four guns, which had been carrying ordnance stores from Genoa to Alexandria.

Speedy was cruising off Barcelona at dawn on 6 May 1801 when she sighted a large enemy frigate. The frigate, a xebec-rigged vessel named Gamo, carrying 319 men, was armed with 8- and 12-pounder guns and 24-pounder carronades. This amounted to a total broadside of 190 pounds, more than seven times that of Speedy. Furthermore, Cochrane had only 54 men on board (the rest were serving as prize crews).Instead of evading the frigate, Cochrane closed on her, and at 9:30 am Gamo fired a gun and hoisted Spanish colours. In return Cochrane hoisted American colours. The Spanish hesitated, allowing Cochrane to get closer, hoist British colours, and evade the first broadside. Gamo fired another, which Cochrane again evaded, holding fire until Speedy ran alongside and locked her yards in Gamo's rigging. Gamo attempted to fire upon her smaller opponent, but her guns were mounted too high and could not be depressed sufficiently, causing their shot to pass through Speedy's sails and rigging. Cochrane then opened fire with his 4-pounders double- and treble-shotted, their shots passing up through the sides and decks, killing the Spanish captain and boatswain with the first broadside.

Aware of their disadvantage, the Spanish second-in-command assembled a boarding party, at which Cochrane drew off and pounded their massed ranks with shot and musket fire before drawing in close again. After having their attempts to board frustrated three times, the Spanish returned to their guns. Cochrane then decided to board the Gamo, and assembled his entire crew into two parties, leaving only the ship's doctor aboard. The British rushed the Gamo, some boarding from the bow with faces blackened to look like pirates to make them appear terrifying, the rest boarding from the waist. There was a hard-fought battle between the two crews, until Cochrane called down to the doctor, at the time the only person on Speedy, ordering him to send another 50 men over. At the same time he ordered the Spanish colours to be torn down. Thinking that their officers had surrendered the ship, the remaining Spanish seamen stopped fighting. The British had lost three men killed and nine wounded, while the Spanish had lost 14 killed and 41 wounded, a casualty list exceeding Speedy's entire complement. The British then secured the Spanish prisoners below deck and made their way back to Port Mahon. Stung that he had been beaten by such an inferior foe, the Spanish second-in-command asked Cochrane for a certificate assuring him that he had done all he could to defend his ship. Cochrane obliged, with the equivocal wording that he had "conducted himself like a true Spaniard". Cochrane was amused to learn that this certificate had later secured the Spanish officer further advancement. In 1847 the Admiralty awarded the Naval General Service Medal with clasp "Speedy 6 May 1801" to all surviving claimants from the action.

Cochrane returned to the coast off Barcelona in June 1801, and joined the 16-gun HMS Kangaroo in attacking a Spanish convoy of 12 merchant ships and 5 armed vessels anchored under the guns of a large tower. After a sharp action fought between the afternoon of 9 June and the morning of 10 June, the two ships sank or drove ashore all of the ships with the exception of three brigs, which they captured. Three weeks later he was cruising off Alicante when he encountered several merchant vessels, which ran ashore. Rather than wasting time trying to get them off, he burnt them, but in doing so attracted the attention of a foe vastly more powerful than the Gamo.

A formidable French squadron under the command of Rear-Admiral Charles-Alexandre Léon Durand

Linois had left Toulon bound for Cadiz to collect reinforcements for Napoleon's army in Egypt. On 3 July they sighted and chased Speedy, and Cochrane ordered the guns, boats, and provisions thrown overboard to lighten the ship. The French caught up nonetheless, and after narrowly avoiding the broadside of Desaix, Cochrane struck his colours. He was taken aboard Desaix, where her captain, Christy-Pallière, recognised Cochrane's accomplishments by refusing to accept his sword.

In Speedy's 13-month cruise, Cochrane captured, burned, or drove ashore 53 ships before three French ships of the line under Admiral Charles-Alexandre Linois captured him on 3 July 1801. While Cochrane was held as a prisoner, Linois often asked him for advice. In his autobiography, Cochrane recounted how courteous and polite the French officer had been. A few days later, he was exchanged for the second captain of another French ship. On 8 August 1801, he was promoted to the rank of post-captain.

The French took Speedy to Toulon with the fleet, where she became a pawn in Napoleon's efforts at diplomacy with Pope Pius VII, whose presence he wanted at his coronation as emperor. Speedy, by now named Saint Pierre and inscribed with the words "Donné par le premier consul Bonaparte au Pape Pie VII" ("Given by the First Consul Bonaparte to Pope Pius VII") in gilt letters on her poop, sailed with an escort from Toulon on 14 December 1802 bound for Civitavecchia as a present to the Pope. She arrived there on 16 December where the Papal Navy took her into service under the name San Paulo. She remained there until being broken up in 1807.

Some of Speedy's later exploits under Cochrane were used in the plot of the novel Master and Commander, the first of Patrick O'Brian's Aubrey–Maturin series, though the ship described by O'Brian matches only Speedy's spar dimensions and armament, and is named HMS Sophie. Cochrane is replaced in the book by the fictional Jack Aubrey, who repeats many of Cochrane's real-life exploits including the defence of a convoy and the recapture of one of its merchants from a privateer, and the capture of a large Spanish frigate, based on the Gamo, but renamed Cacafuego for the novel. It is also thought that Aubrey's friend and surgeon, Maturin, is based on Cochrane life long friend and surgeon Guthrie.

#### **REFERENCES:**

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Wikipedia

#### THE KIT

I never intended to develop Speedy at all, I had never really paid it much attention (to my shame). That is, until I looked closer at the unusually graceful lines from the original Admiralty plans and started reading books like 'Sloops and Brigs' by James Henderson, 'The Sea Warriors' by Richard Woodman and 'Cochrane the Dauntless' by David Cordingly (All three of these books are highly recommended, the latter especially for a complete biography of Cochrane's incredible life and exploits). The action that Speedy took part in eclipses most fighting vessels three times her size, and she was commanded by some of the best fighting men of the time, in actions more remarkable than some of the fictionalised accounts the real actions are based upon. I decided to make Speedy my second kit in the Vanguard Models range.

The Speedy kit has been researched to depict her as she most likely appeared during Cochrane's 15 month command from 1800-1801. She is shown with the Flying Jibboom and no crowsfeet on the fore and main tops, as these were being phased out during this time. I have included the euphroe blocks in the photo etched sheets, however, and have kept the holes for the crowsfeet to the lower half of the fore and main top patterns. If you wish to add the crowsfeet, simply drill the holes to the upper rim pattern.

The model kit is designed to be as accurate as possible for a commercial kit in both scale and detail. Although the kit of Speedy is as easy to build as we can make it, very basic woodworking skills (and patience) are still required. Estimated build time is between 50 to 70 hours, so a work space will have to be put aside for the job. Do not remove parts from the laser cut sheets until actually required for fitting, as they can be easily damaged or lost.

Take plenty of time to study this manual until you are confident enough to tackle each stage of construction. Patience is the key word when building any scale model. Treat each stage as a separate project and the overall effect of the completed subject will be much enhanced.

Care should be taken when cutting parts from the laser and brass etched sheets. The sheet from which you are going to cut the parts should be laid on a hard, flat surface. Use a heavy duty craft knife (a Stanley Knife is perfect and is and always has been my staple for all manner of cutting) with a good strong blade to cut through the tabs holding the parts in place. Before removing the wooden parts from their sheets, they should be numbered by reference to the cut file identification drawings. It is easier to paint most of the photo-etched parts before removing them from their sheets. They can be touched up again once in place on the model.

When painting parts in wood, use multiple coats with fine sanding in-between each coat to help minimise the grain visibility. Never settle on just a single coat, but take your time with every single sub assembly. Regarding the main wale and run of the hull planking, the main wale was actually part of the main planking, except the wale was thicker. Many models show the wale with a different curve to the main hull planking, when in fact it should run at exactly the same lines as the main planking. This can detract from the overall finish of the completed model. This is why I recommend starting the second planking at main wale level, as this guarantees the run of both main wale and second planking will be the same.

I have included a building cradle on the 3mm MDF laser sheet that is for use when building the model, marking the waterline etc. Do not make up the clear acetate cradle until the model is complete.

# SPEEDY 2023 VERSION

### PAINTS, STAINS AND ADHESIVES

This version of the Speedy has been fully updated to the standards of Vanguard Models latest kit designs. The area from the Main wale upwards is now fully pre-cut and laser engraved, as opposed to planking the upper sides.

The prow, keel and rudder post are now assembled into three layers, in order to crate a 'rabbet' for the planking.

The first part of the manual will have new assembly pictures (White background), which replace the old version. As the re-designs concentrate on the main hull only, the rest of the manual will be the same as the original (pictures with blue background). The reworked hull pictures are left unpainted, whereas the original completed model is fully painted.

### Older versions of this kit are not compatible with the 2023 version.

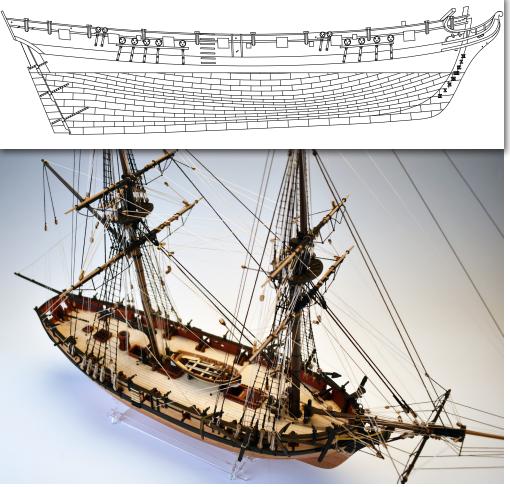
- 1: White PVA wood glue
- 2: Cyanoacrylate (superglue) thick and medium viscosity
- 3: Natural colour wood filler
- 4: Indian ink (Black for ratlines)
- 5: Matt polyurethane varnish (Not satin or gloss)
- 6: Black paint (Humbrol 85) 3 tins or Vallejo matt black
- 7: Yellow paint (Ochre) (Humbrol 24) 1 tin
- 8: Red paint (Humbrol matt 60 for inside of bulwarks, cannon carriages and various deck fittings)

9: Copper Paint (Humbrol MET 12)

10: Clear Epoxy Resin or similar to glue the clear acetate stand together







# Recommended tool list

(All items listed were used by the modeller to build the Speedy prototype model)

- 1: Craft knife (or standard Stanley Knife, which is robust enough for most jobs)
- 2: A selection of needle files
- 3: Razor saw
- 4: Pin vice or small electric drill.
- 5: Selection of drill bits from 0.5mm to 1mm
- 6: Selection of abrasive paper and sanding block (110, 180, 240, 320, 400)
- 7: Selection of good quality paint brushes
- 8: Pliers/wire cutters (Good quality side-cutters are excellent for trimming rigging ends)
- 9: Good quality set of tweezers (For small parts and rigging)
- 10: Steel ruler (300mm for providing a straight edge for tapering the planking)
- 11: Small clamps (2 inch clamps with rubber tips, are very useful for projects like this)
- 12: Good quality pencil or drawing pen
- 13: Masking tape (Tamiya masking tape is perfect for masking areas around the main wale)

14: A Pin Pusher (Or you can just use a pair of pliers to push pins into the planking and bulkhead edges) 15: Cutting mat

# Recommended tools from Vanguard Models



Our waterline marking tool is supplied in a sheet of laser-cut, 4mm plywood that needs assembly. Assembly time is around 15 minutes and very easy. Metal fittings are supplied to aid the change in position of the pencil carriage. Vanguard Models pencil is supplied with each tool.

The Waterline Marker will mark a level from between 25mm to 150mm, and an engraved gauge will help you achieve the correct level.

Pocket sized Pin Pusher Can push pins in to 9 mm of plywood or MDF Ideal for pushing brass pins



Pin Pusher With Adjustable Depth Stop

This is a slightly larger version of our other pin pusher, and has the added advantage of an adjustable depth stop to ensure that all pins are pushed 'home' to the same depth. It is ideal for model boat/ ship hull planking, and setting miniature n-gauge rail track on to board, or for nailing tasks on wooden boat models, dolls houses and picture frames.





This plank bending tool is the ideal boat modeller's tool for the bending strips to the desired curvature. Used for perfect and precise bending of all wooden strips, such as planking on model boats up to 2mm thickness. For bending at an angle, change the cutting angle and the plank will 'spiral'. The more cuts produced the tighter the bend. Includes a plastic blade stopper.



Spring-Loaded Finger Sanders available in 4 sizes, 10mm, 20mm, 25mm, 40mm (Medium Grade) Unique shape for flat and curved surfaces Easy to fit band with spring mechanism

These sanders have a unique shape for working on both flat and curved surfaces and come with prefitted medium sander band. The sanders also have an ergonomic shape meaning that they're comfortable when in use.



# Flexible Masking Tape x2

This is available in TWO sizes, and there are two rolls in each packet.

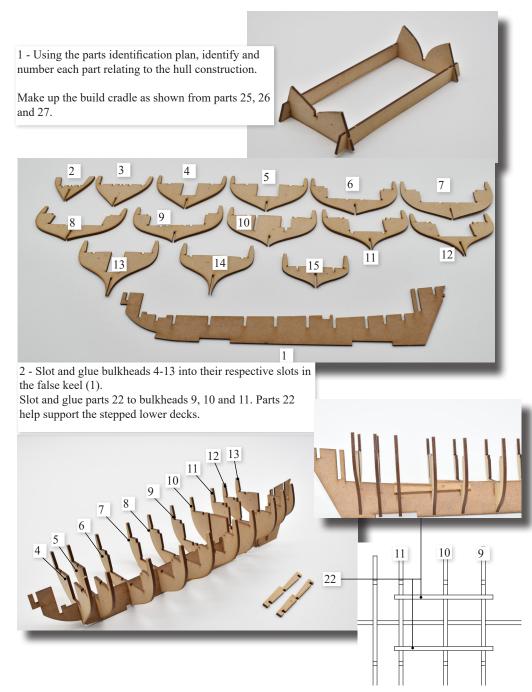
3mm wide x 18m long 6mm wide x 18m long

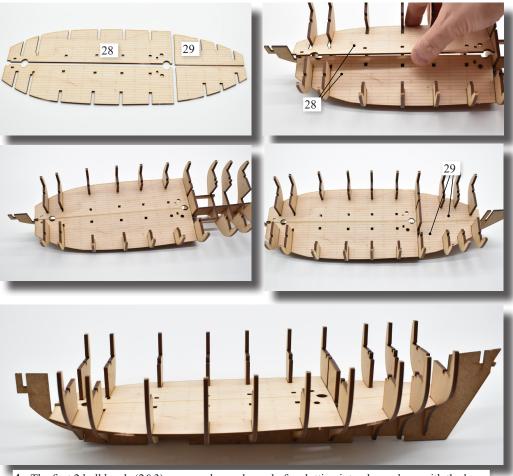
Absolutely ideal for masking hull waterlines! These masking tapes are also ideal for general modelling, airbrushing, arts, crafts, and even those smaller DIV tasks. The tape sticks, stays and removes cleanly

those smaller DIY tasks. The tape sticks, stays and removes cleanly. This flexible acid-free tape is designed to follow curved lines and contoured surfaces without creasing, tearing or paint bleed.

## HULL CONSTRUCTION

3 - Remove the 4 parts that make the lower decks (28 & 29) and slot and glue in place

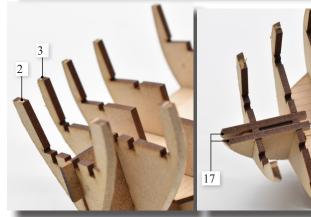




**4** - The first 2 bulkheads (2&3) can now be made ready for slotting into place, along with the bow planking patterns (17&18). It is recommended that the edges are bevelled slightly before fixing in place, to be finished off once the basic hull assembly is complete.



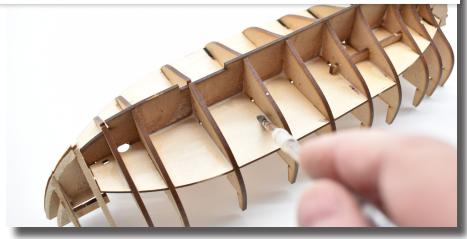
Slot and glue bulkheads 2 and 3 into position and then slot and glue parts 17 into position either side of the false keel, followed by parts 18, which are fixed to bulkheads 2 and 3.

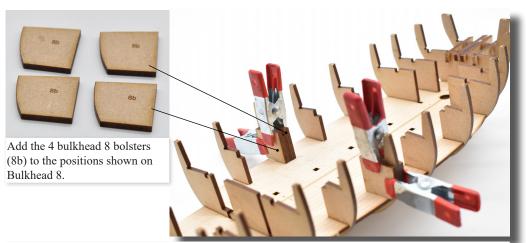




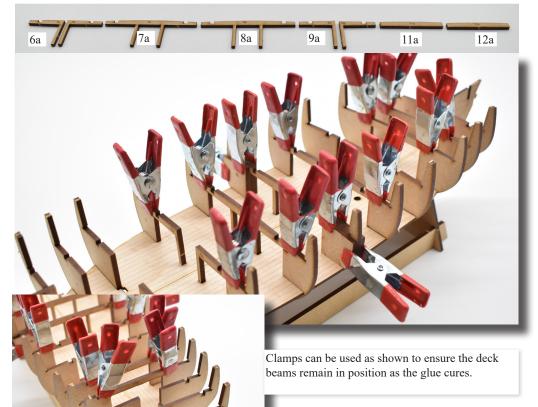


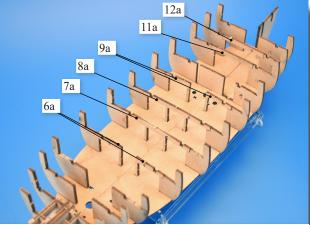
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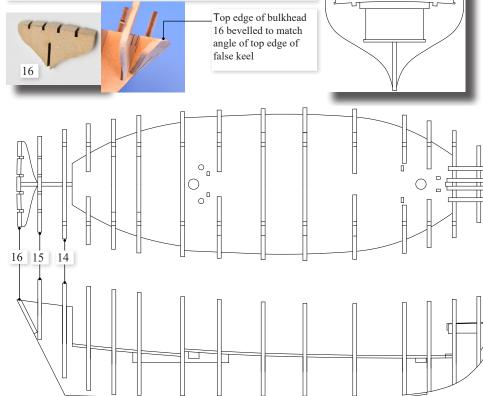


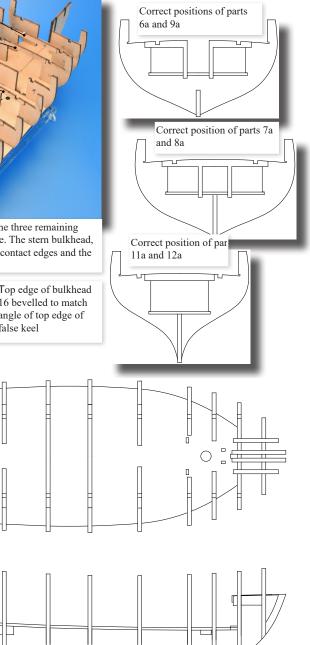
5 - Remove the upper deck beam patterns (6a, 7a, 8a, 9a, 11a and 12a) and glue each into their respective positions on the correspondingly numbered bulkheads.



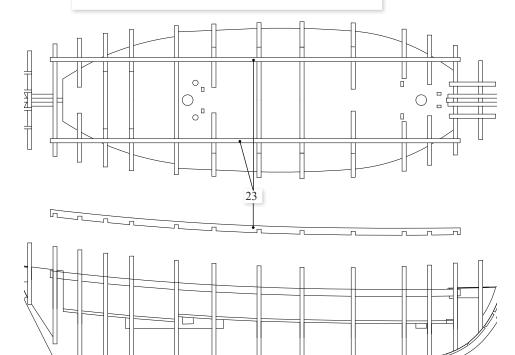


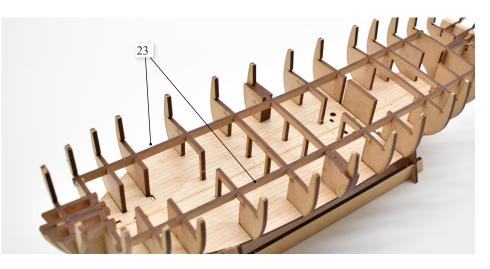
6 - Lightly bevel the planking contact edges of the three remaining bulkheads, 14 and 15 and slot and glue into place. The stern bulkhead, 16, required bevelling both on the hull planking contact edges and the top edge, where the deck will sit.





7 - Upper deck longitudinal supports (23). carefully slot and glue the two supports into the slots on the top edge of bulkheads 3 to 14.

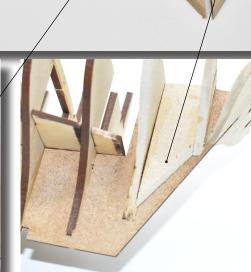




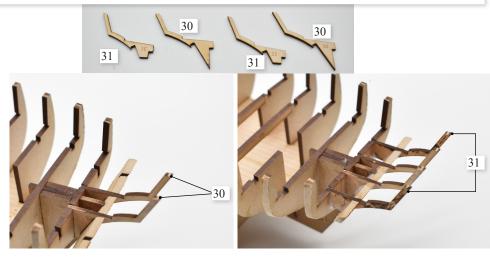
8 - Bevel and then glue the bow patterns(19 and 20) in place in between bulkheads3 and 4 for parts 20 and bulkheads 4 and 5 for parts 19.Add the rear patterns (21) to the position shown.

20 19 21



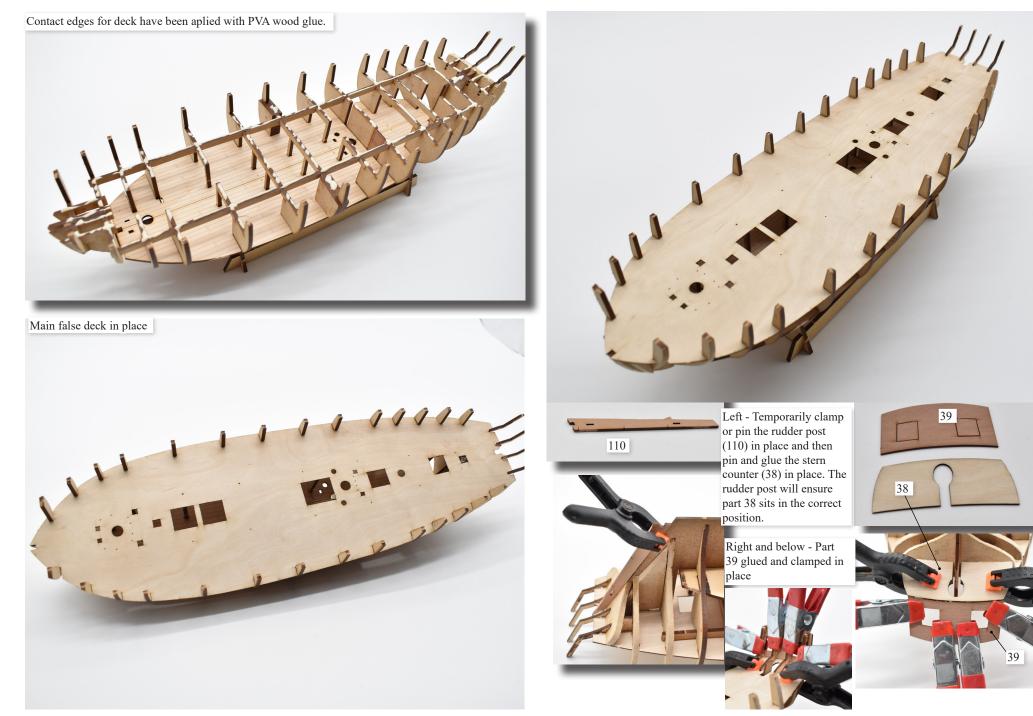


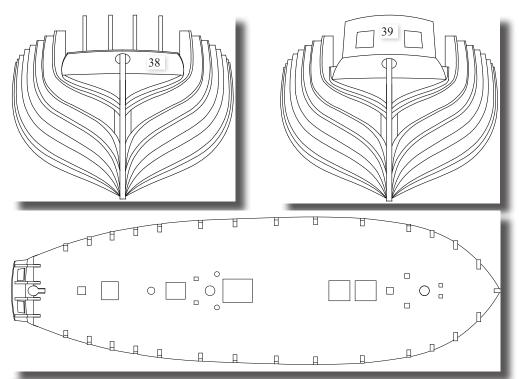
9 - Stern frame patterns 30 and 31. Slot and glue the two pairs into position on bulkheads 15 and 16. Note that parts 30 are the inner patterns and 31 the outer patterns.





10 - Add the main deck (36). Glue the top edges of the contact areas of the bulkheads and longitudinal frames. Carefully bend the ply deck across its width and make sure each slot pushed into the slots located in the bulkhead frames. The outer edges of the deck do not need to be pinned down, but pin the area of the deck at the centre line to ensure the deck remains flat against the deck beams whilst the glue (PVA wood glue) cures.

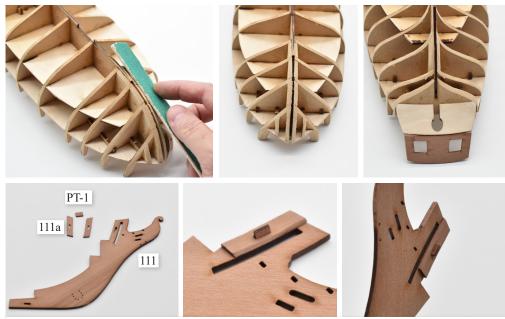




12 - Once fully cured, carefully sand the edges of the stern patterns so that the lower counter edge is flush with the deck edge.

Also give the fore and aft bulkheads a final sand for the gun port patterns and planking have maximum contact with the edges of the bulkheads.





13 - Add the front bulwark bolsters (111a) to both sides of the prow (111), by gluing and securing the parts using PT-1. Once both sides are secured, remove any excess from PT-1 and file/sand flush with the outer surface of the bolsters.

Once done, glue the prow assembly in place as shown, using PVA wood glue







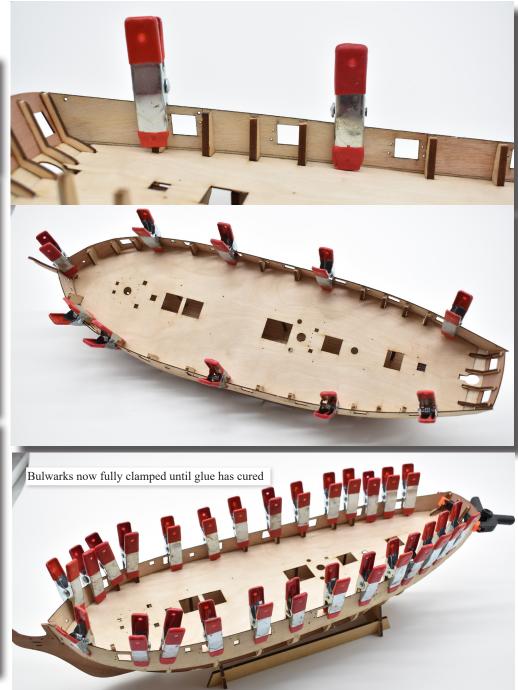


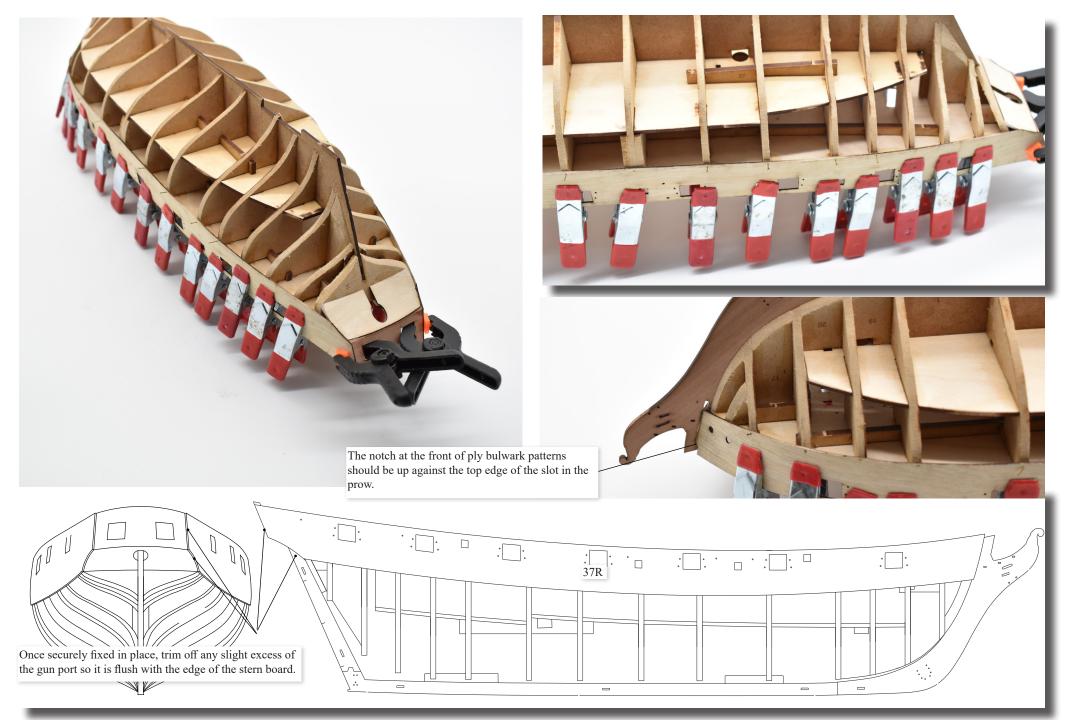
14 - the gun port patterns are now ready to be glued in place along the upper bulkheads. Remove the 2 sets (37L & 37R) and soak in warm water for about half an hour, to make them more pliable to bend around the bow frames.











### 15 - First Planking

The first planking should now be ready to be laid using 1x5mm lime wood strip. The first or 'master plank' is to be laid at the bottom edge of the gun port/bulwark pattern.

When pushing the brass pins into the planks and bulkheads, leave at least half of the pin length protruding so they can be easily removed with the use of a pair of flat nose pliers once the planks are secure. Use PVA wood glue to fix the planks to the edges of each bulkhead.

Mild tapering is required for all planks, but there are only 12 per side for this model. To determine the amount of taper needed for each plank to lie naturally, lay a plank at the forth or fifth bulkhead and then lay it around the bow. Mark the excess area of plank that overlaps the one directly above it. Repeat this technique for the stern also.

Although the planks may not require tapering at the stern, it is advisable to let the planks run as natural as possible which helps avoid any possible 'springing' of the planks when sanding. Before cutting the taper into the planks, soak them in warm water for a few minute only, as this minimises the chance of the blade of the knife following the grain of the wood rather than the edge of the steel rule.

Lay the first damp plank to be tapered on a clean, flat surface; (a cutting mat is well suited for this and is highly recommended.) Press firmly with a steel rule onto the marked taper line on the plank and score down the line with a heavy-duty craft knife several times until the excess is cut off. Pin and glue the tapered planks into position on the hull, leaving a little excess at the stern which can be trimmed to shape once the planking is complete. Glue two or three strips each side alternately. This method should prevent any possible twisting/warping of the frames and keel as the glue cures.



Sand the whole hull that has been planked with a coarse grade abrasive paper, followed by medium grade. This will entail about an hour's work. If possible, sand the hull in a well-ventilated area, ideally in an open space as the dust particles could present both a fire and health hazard. The use of light duty gloves is also recommended to reduce any risk of blisters from sanding. Alternatively, you could use a small electric sander, like a sanding mouse, which will be much quicker.

Pictures with blue background show version 1 of Speedy, but planking technique remains exactly the same for the 2023 version

- -

Above - marking the taper starting position onto the plank. When the plank overlaps the gun port pattern, mark

out and taper this area.

Below - Marking out the taper starting position at the stern.







First 3 planks laid on both sides. Note the pins are pushed in only half way. There is absolutely no need to push them all fully in, as they need to be removed once the glue has cured, and if still straight, the pins can then be reused.





10 planks per side now laid





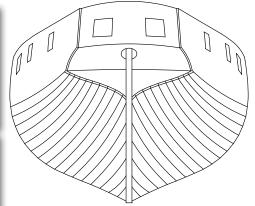






First planking complete - 15 planks per side. Remove all brass pins and sand the hull smooth using coarse followed by medium grit abrasive paper. A small electric sanding mouse would make the sanding quicker and easier, but be very careful at the extremities, as it is very easy to damage the stem at the front, or go too far at the stern.





Left - When sanded smooth, trim any planks at the stern so they are all flush with the final bulkhead

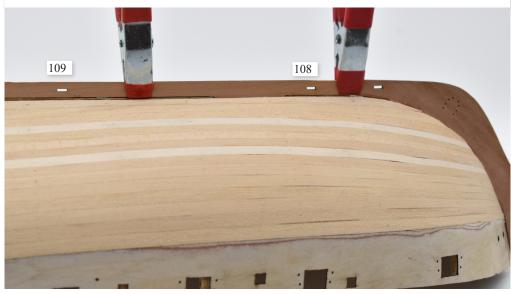


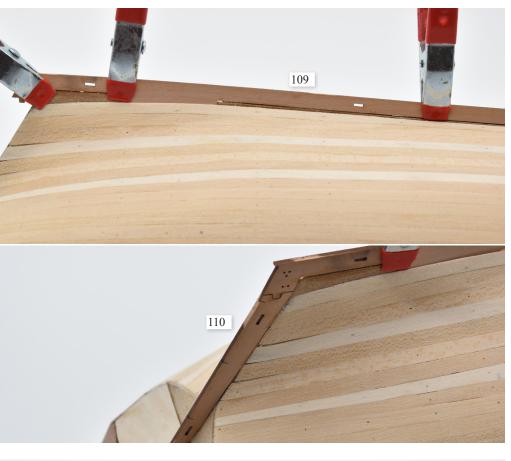






16 - Before starting the second planking, the keel and stern post need to be fitted. Slot and glue part 108 into place.



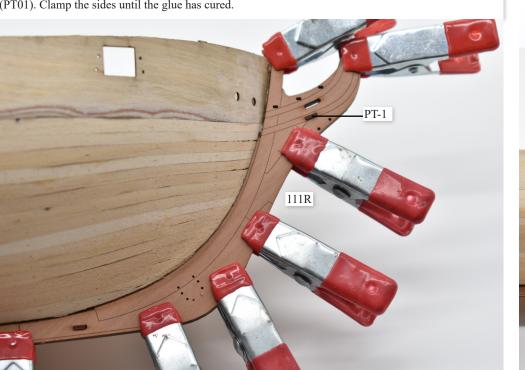




The outer patterns for the prow, keel and stern post can now be added. These will create a 'rabbet' for the second planking to butt up against.



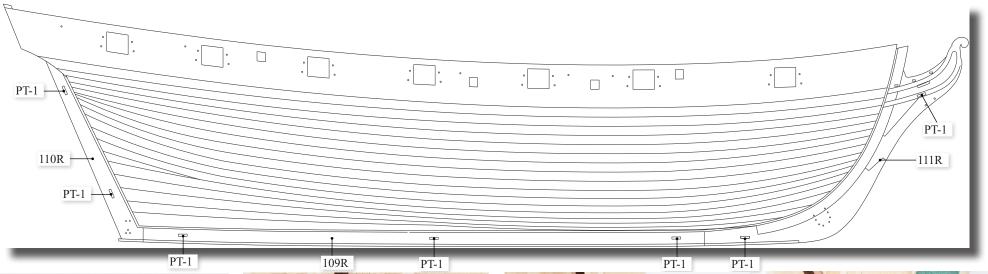
Fit the two sides of the stern/rudder post (110L&R) using PVA wood glue and the alignment pegs (PT01). Clamp the sides until the glue has cured.





Add the rest of the outer rabbet patterns as shown.



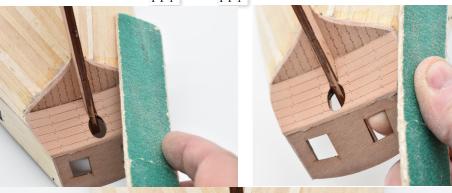




Add the stern lower and upper counters as shown. These will require sanding flush to the edges of the first planking.











Remove parts 37aL and 37aR from their 0.8mm wood sheet. Treat these with care, as these are the outer layer of the hull and requite only paint and varnish to finish them.

Parts 37aL and 37aR can be either glued into position at this time, or, as we have done here, just clamped into position. I decided to just clamp and not glue these so that I could just get the correct planking line for the 0.8x4mm planking strips, and then remove the engraved outer bulwark before planking the rest of the hull, making sure no glue touches the engraved patterns.



Trial fit the patterns before clamping. You may need to remove a little from the front in order to have all gun ports aligned correctly.





### 17 - Second Planking

The second planking is applied using 0.8mm x 4mm wood strip. Start planking directly below the clamped engraved bulwark patterns (It is better to just pin the first plank in place with no glue, in case glue inadvertently reaches the clamped bulwark patterns) and work down towards and up to the keel. Use the same planking techniques as the first planking, with the exception that the whole under surface of the plank is to be glued to the first planking, as well as edge to edge.

The best glue to use for the second planking is medium to thick cyano gel. This is to avoid any pin holes showing in the planks.





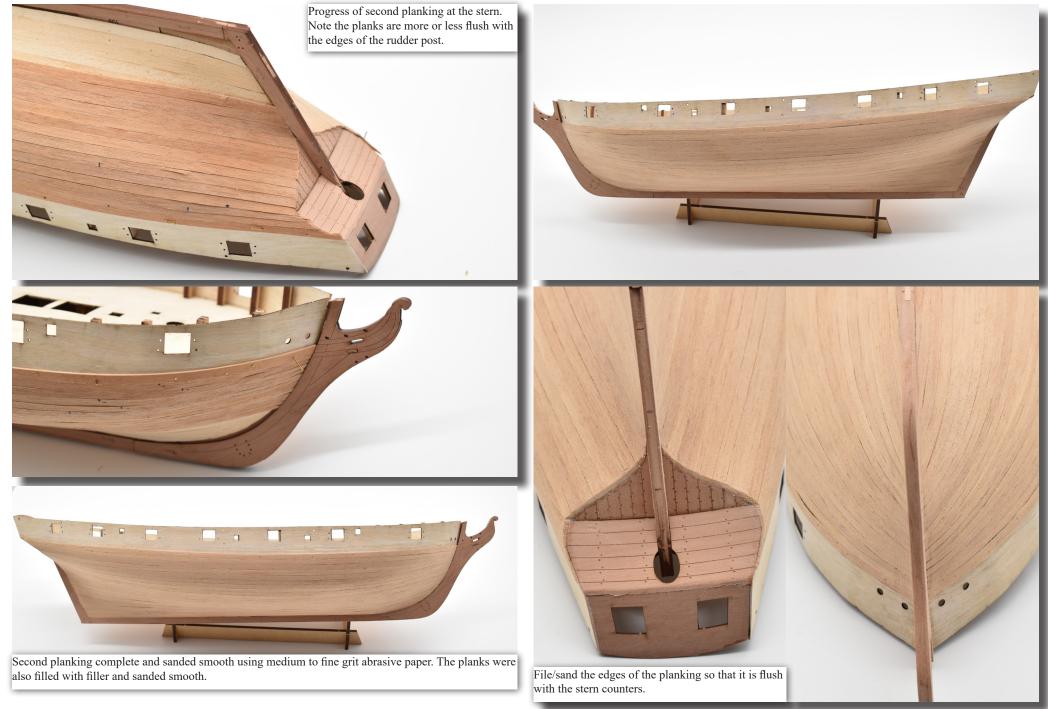
Once the first plank is pinned in place, you can then remove the engraved outer patterns and put them in a safe place until planking is fully complete.

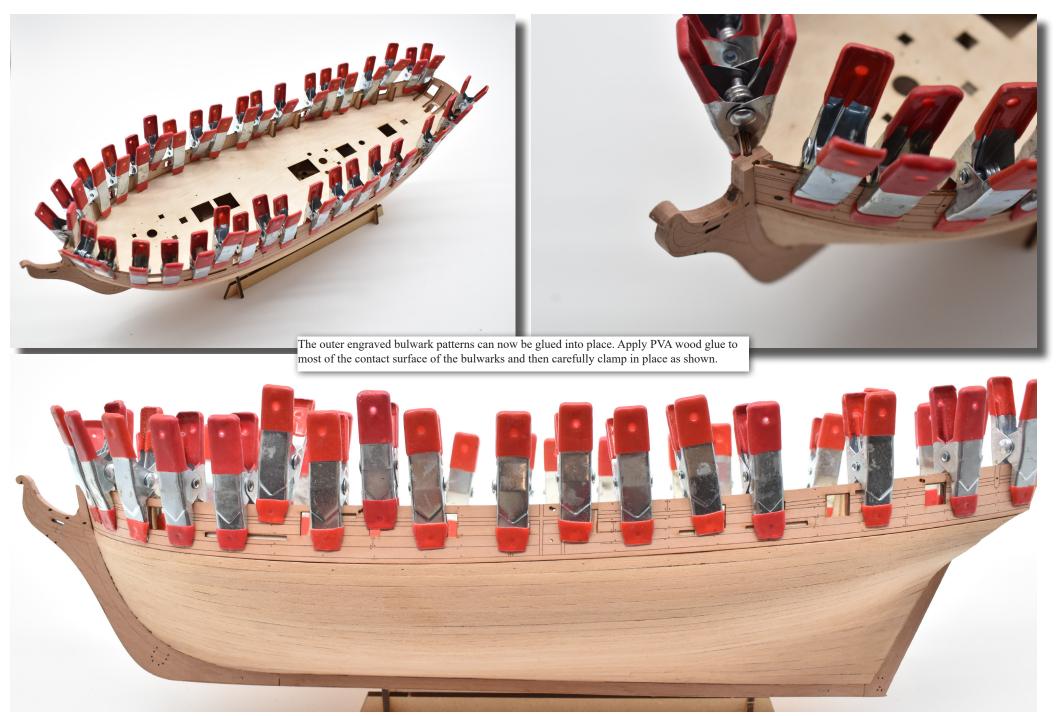


Take your time and take care to attain a very neat finish to minimise the need for filling. If slight filling is required, it is recommended you use a water based filler that is a good match for the colour of the second planking. Water based filler is recommended because it can be thinned down using water, which helps the filler enter even the smallest gaps.











18 - Remove all bulkhead tabs above deck level by carefully bending and twisting with a pair of pliers or similar. Once removed, sand any remaining stubs flush with the deck.





All exposed bulkhead tabs removed and sanded flush with the deck, ready for the laser engraved deck.





20 - Dry fit the deck (128) before committing to glue. Sand any edges that may not fit perfectly. It does not matter so much if the deck edges are slightly short of the bulwark edges as the inner bulwark and spirketting will hide any slight gaps. Once the deck fits as it should, use PVA wood glue to fix the deck in place, plus a few clamps along the near edges to ensure the deck sits flush with the false deck.



### 21- Inner bulwarks

The inner bulwarks can now be fitted. Dry fit the parts before committing to glue. The fronts will need slight adjustments and filing, and perhaps the rear, too. The parts are made slightly longer than they should be to take into account any slight variations of each build. The bulwarks are checked, checked and checked agin for git, using clamps to help keep in place.





Once you are happy with the fit, and all ports more or less align (any slight misalignment can later be filed flush), glue in the same way as you did for the outer bulwarks, and use plenty of clamps to ensure the bulwarks are pressed firmly to the surface of the ply bulwarks.

If there are any gaps between the lower edge of the bulwarks and deck, this is fine, as the spirketting patterns will hide this.





22 - Once the inner bulwarks are fixed in place, file each gun port and oar port. Use a flat needle file for the gun ports and a square needle file for the oar ports. File the sides until all three layers are completely flush.

The inner bulwarks can be painted red at this point. Cover the outer bulwarks with masking tape, to help stop paint seepage to the outer face. If you are unsure of painting neat, also mask the deck edges.

The prototype was brush painted. The paint doesn't need to go all the way to the bottom, as the spirketting will cover this. Make sure all of the inner edges of the oar and gun ports are covered in red. Two to three coats should suffice.



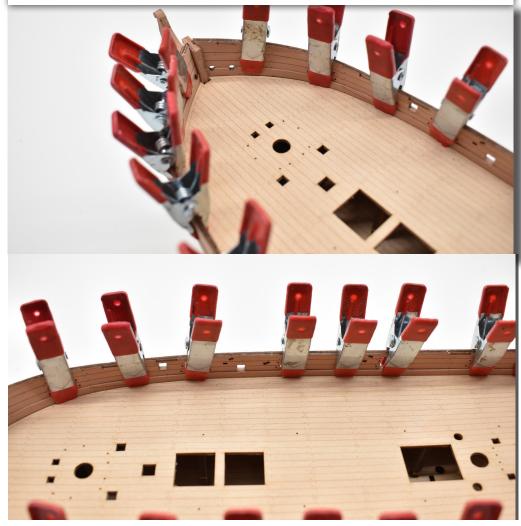


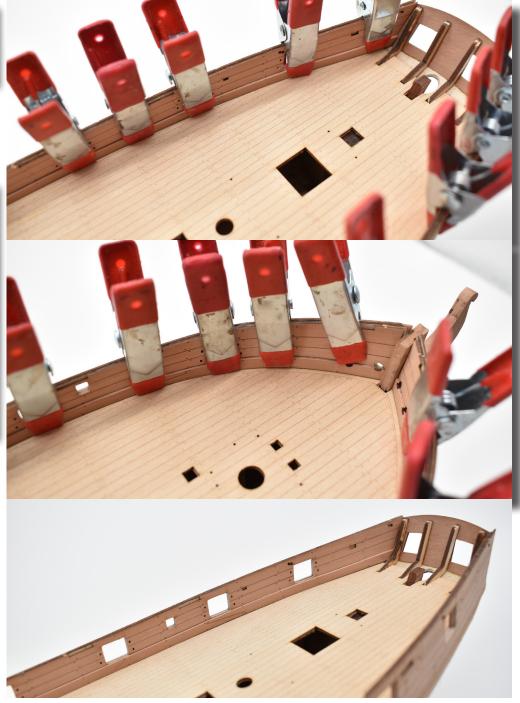
23 - The spirketting can now be added. Again, these are a little longer than they should be, so trial fitting and filing of the ends will be required.

If you are painting the inner bulwarks, it is better to paint the spirketting once you have filed them for a perfect fit, but before actually fitting in place.

Apply wood glue (sparingly) to a position that will be central to the spirketting width. If you apply too much, there is a chance the glue will seep beyond the spirketting.

Below - Carefully apply the spirketting using clamps to keep them in place until the glue sets.







## 37bL

24 - The main wales (37bL & 37bR) can now be fitted. These can be painted black before fitting if desired. But first, it is advisable to dry fit them in place using pins at the pre-cut hole positions. The ends should be a little short to the end of the stern, as the stern side counter timbers (56) fit in this space. The top edge of the main wale should follow the lowest engraved line on the outer bulwarks. Optional - The main wales were tapered as they came around to the prow, so that the wale would be flush with the hull planking. If you choose to do this, the underside of the wales will need to be sanded to achieve this effect.





25 - Main wales fitted



## 26 - Marking out the waterline and copper plating

Using the side profile drawing on the plans, mark out the waterline level fore and aft onto the hull and carefully mark out the waterline using a specialised waterline marker tool or similar.





You will now need to use a suitable tool for making the copper plates needed for sheathing the hull below that waterline. We recommend something to the one in this picture, so you can get each plate exactly 18mm long, each time.



Cut plenty of plates to do the job. You can count the rows on your plan and multiply by the number of plates in a row.

The following pictures showing the coppering show photo etched copper plates, but the method of appying the plates is identical. You can add rivet/nail detail by using a rivet marker, if desired.



Start coppering at the top of the keel, where it meets the hull, and work towards the waterline, using a brick-laying fashion. Go just over the waterline with copper. You will of course need to peel the backing from the plates, keeping the plate as straight as possible so the thin film doesn't crease. The rudder can be coppered as per the plans, in consecutive strips.





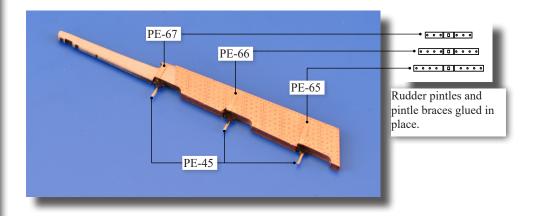


21 - Rudder assembly and coppering.

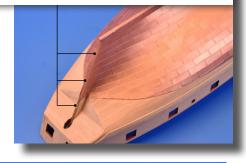
Glue the two rudder outer patterns (112R & 112L) to each side of the central rudder pattern (112) and clamp until dry as shown.

Copper the rudder using the self adhesive copper foil provided.

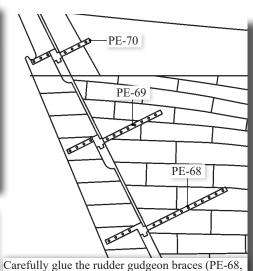
Paint copper and glue the three rudder pintle braces (PE-65,66 & 67) into the slots on the inner edge of the rudder and drill a 0.8mm hole through the centre of the pintle braces and into the rudder and slot and glue the pintles (PE-45) into each hole



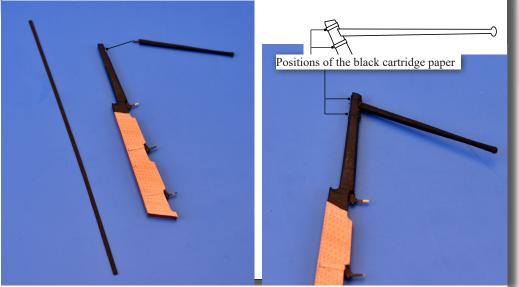
Paint the outer edge of the rudder post copper and then mark out and drill the three 0.8mm holes to take the pintle, to secure the rudder.



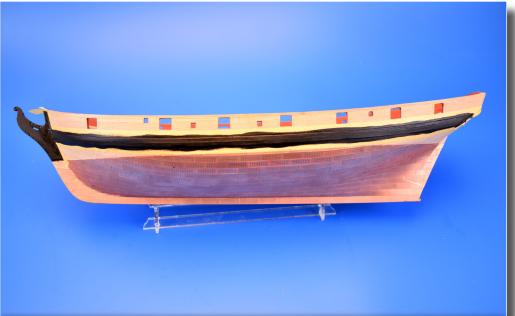




69 & 70) into position either side of the rudder post to the positions shown above. Temporarily fix the rudder in place to gauge the correct position-



Above - The rudder above the copper plating is painted black, as it the tiller arm. A small pin has been inserted into the end of the tiller arm to help secure it to the rudder head. Cut a length of black cartridge paper to a width of approximately 1.5mm and glue and wrap a length around the upper and lower positions of the tiller on the rudder head.



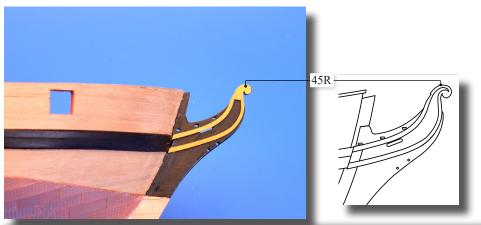
22 - If you did not paint the main wales before fitting, mask off the prow and main wales areas and paint these black. Two or three coats should be enough.

# 23 - Bow fittings 1

A - Hair brackets (45). Remove the 1mm Wood parts (45R & 45L) an carefully glue each side in place. They can be either just varnished, or painted yellow or black

The two photos below show the updated 2023 version, with the following pictures showing the original Speedy, but parts are exactly the same.

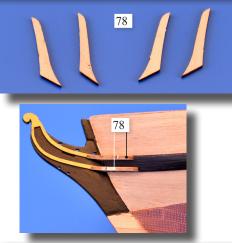


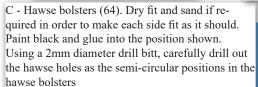


B - Bow cheeks (78). Remove the 4 laser cut wood parts (78) and carefully file/sand a bevel into the hull and prow contact areas, so they fit flush buy angled correctly. Please note - Parts 45 are painted yellow in the photos only to help highlight the correct positioning of the bow cheeks.

The positioning of the pair of cheeks each side should be quite straight forward, as the upper cheek located near the top of the forward main wale, and lower cheek locates near the bottom, with the prow surface matching the angle of the hair brackets.

78

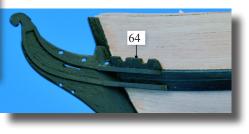








When glued into position, mask off if necessary and paint the hair brackets and bow cheeks black.



# 24- Capping and side rail/swivel gun posts

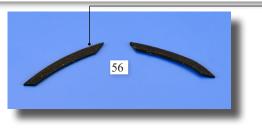
Paint black and fit the capping rail in place (53 & 53a). use PVA wood glue and pins at regular intervals. The pin heads can then be removed and the ends pushed down flush with the capping rail top surface and then painted black.

**Please Note** - The gunwales can be fitted after the application of the upper rail parts, as shown in stage 24a





The outer edge of the capping should protrude no less than 1mm from the edge of the upper bulwarks. This is to ensure the precut swivel gun posts sit flush with the lower edge of the lip on the underside of the capping rail patterns. Stern counter side timbers (56). Dry fit each side of parts 56 and carefully removed the end of the main wale so that parts 56 fit onto the hull with the forward part of parts 56 butted up flush with he end of the main wale. Trim the ends of parts 56 if they protrude further out from the stern or past the lower edge of the main wale.



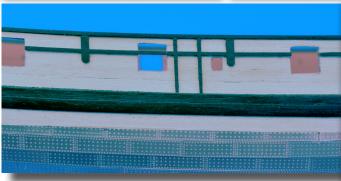




Above - Part 40 pre-shaped and glued in place. The only marking out required is the upper rail position at the prow. The rest of the rail patterns simply butt up against the lower edges of the capping rail.

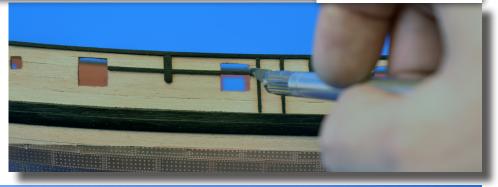


Above - Part 41 glued in place. The 'notches' should correspond with the second gun port opening and first oar port



Left - Part 42 glued in place. The longer side fenders should finish near or at the top of the main wale position

Below - Cutting off the excess rail in between the gun ports using a sharp craft knife (or side cutters would work as well) Sand or file any residual protrusion so the rail is flush with the gun port edges.





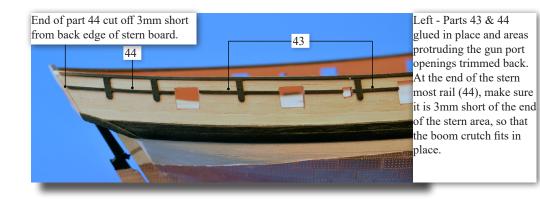
Left - Although not fitted at this stage, it is worth filing the ends of the stern capping rail (53b) so that the outer edge is flush with the hull side 3mm in from the end. This is so part 113, the boom crutch will sit flush with the side of the hull when finally fitted and glued in place, and filing this area now will ensure no other area is accidentally damaged in the filing process

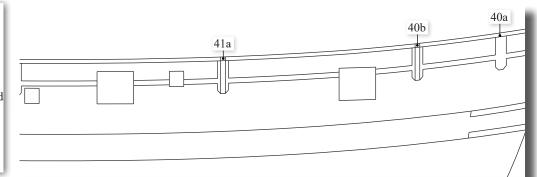
Below - Cut out and paint the upper rail and swivel gun post patterns from the 1mm wood sheet and paint black (or you can leave them in natural wood and varnish). Number 40 is the forward-most and 44 is the after-most of the parts.

The only part that requires a slight bend is part 40, as this bends around the bow area, while the rest only have the slightest of curves to fit along the hull.

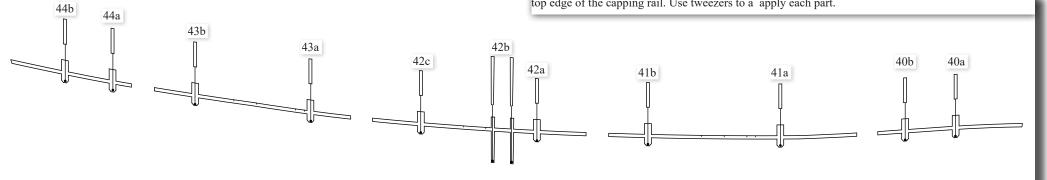
Some have a thinner area. This is for the gun port opening positions. The areas in between the gun ports are to be removed once the rails are fixed in place. This method should ensure the rails run exactly parallel with the rake/sheer of the capping rail.

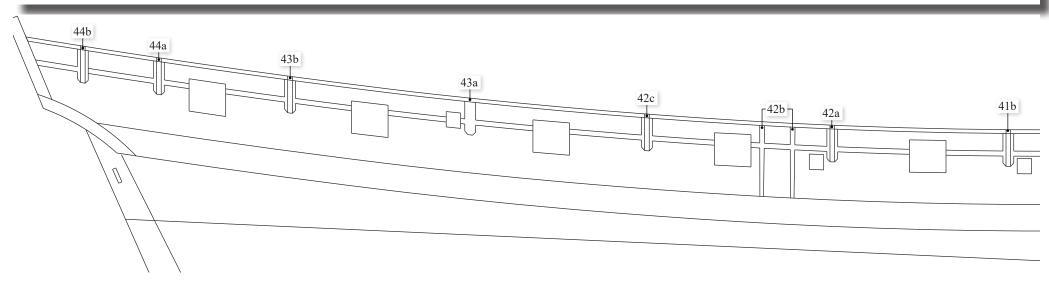


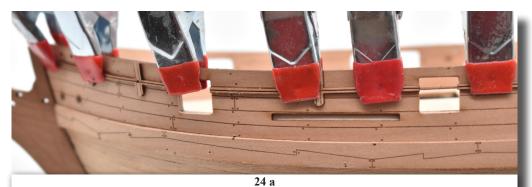




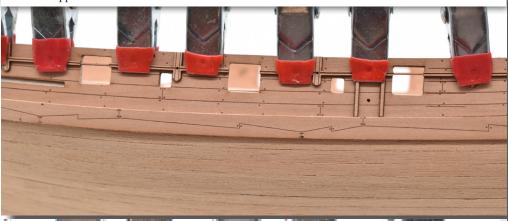
The swivel post support timers are added at this stage. These can be painted a separate colour, like yellow ochre, for example, before fixing in place. (Fender patterns (42b) should be painted the same colour as 42). If left black, paint them first or after fixing in place. The top edges should come up flush with the top edge of the capping rail. Use tweezers to a apply each part.



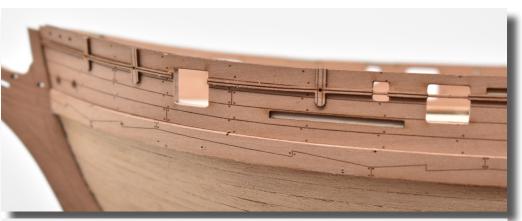




These six pictures shown the upper rails being glued and clamped in place on the V2023 model, There is no difference between the parts, but for the V2023 version, the capping rail was fitted after the application of the upper rails.









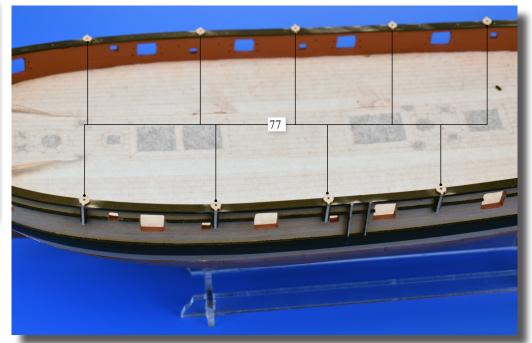




The extended end of each base fits to the top edge of the swivel gun outer posts.

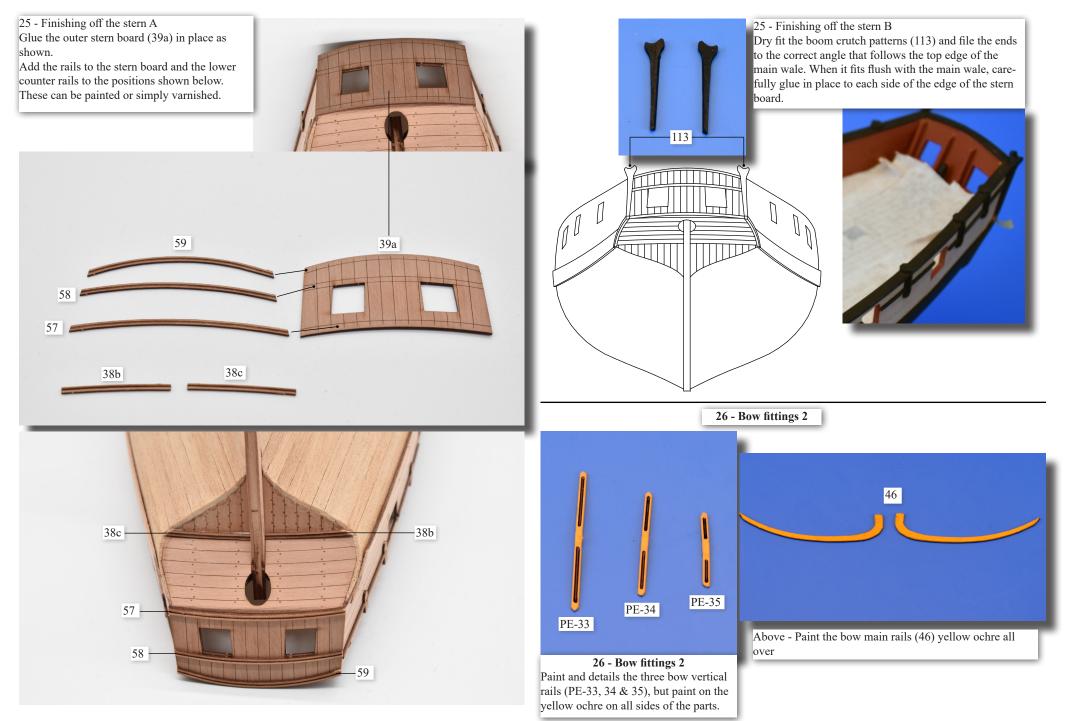


Swivel gun bases (77) Carefully glue each base into position on the top surface of the capping rail, directly above each swivel gun post. When all are glue into place, drill a 0.8mm diameter hole through the base hole position through the capping rail down to about 3mm to take the pin for each swivel gun bracket. When complete, carefully paint the parts black, including the outer swivel gun post patterns if not already painted.



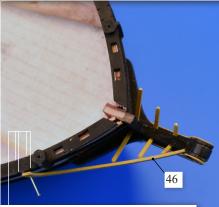








Above - Push the vertical bow frames through the slots located in the prow and bend each side upwards Below - Pin the bow rails in place and then bend the three vertical rails down until the ends make contact with the inner edge of the part 46. The end of part 46 that touched the bow capping should have the top edge flush with the bow capping.



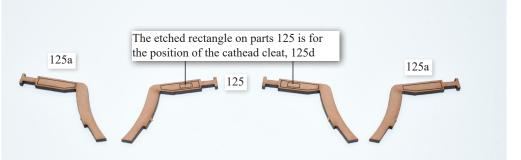
End of bow rail should match up with the 4 slots located in the capping rail. These are for the cathead positions, which the end of the bow rail sits directly under.





Once everything touches and is in place, apply a drop of glue to the ends of the vertical bow rails to fix them in place with part 46.

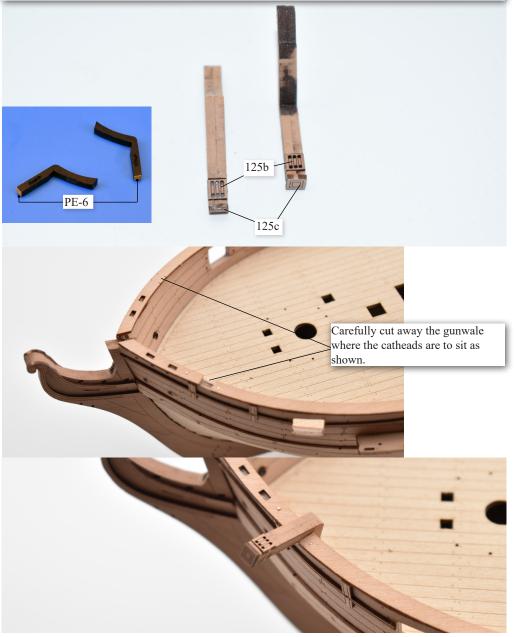




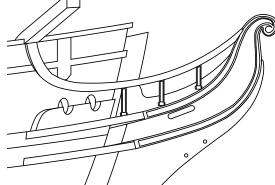
Above - Remove the catheads (125 - Towards the bow and 125a - away from the bow) and the cathead sheave blocks (125b) and alternative cathead end caps (125c). Glue and clamp the two halves of the catheads together, as seen below. Make sure the catheads handed before gluing.



Cathead assemblies complete, You can add the photo etched end cap (PE-6) if desired. Dry fit the catheads and modify if required. The area on the capping rail where the cathead sits over may need slight filing down in order for the cathead to sit correctly. Also, the bottom of the catheads may require filing down slightly for then to sit flush on the deck.











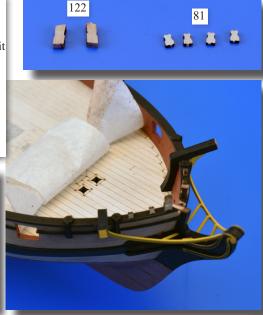


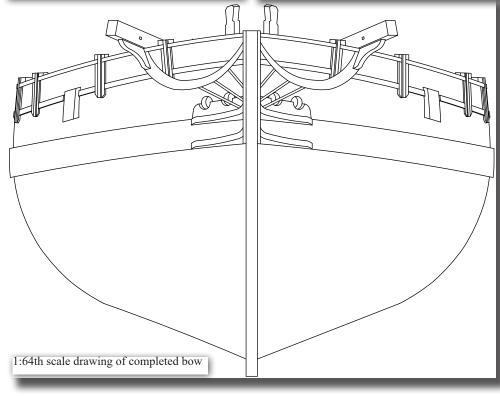
Once the catheads are securely fixed in place, paint the cathead knees (79) and glue in place so that the upper edge sits under the cathead and vertical contact edge sits flush with the bow rail. Since the prototype model was made, parts 78 have been modified so the lower part that fits to the bow rail is not so long.

#### 27 - Bow timber heads

Remove parts 81 and 122 from their laser sheets and slot and glue parts 81 into their respective positions in the bow capping rail. Glue the bowsprit timber heads (122) to the top of the capping rail so they are just over 6mm apart, enough of a gap for the bowsprit to fit in between. These timber heads can be pinned as well as glued into position to ensure they are not inadvertently knocked off. Finally, paint the timber heads black. Deck masking tape can be removed at this time.



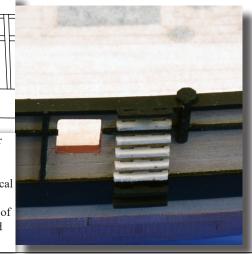




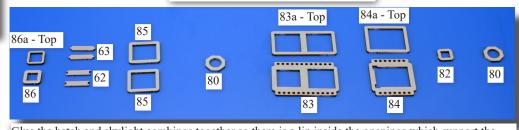
- Hull side steps (61). remove parts 61 from t

27 - Hull side steps (61). remove parts 61 from their host 1mm wood sheet.

Mark out the positions using the full size drawing above and glue each step into place. To ensure vertical alignment apply a length of masking tape down the hull and glue each step so the end touched the edge of the tape. Paint the steps on the main wale black, and the step located on the edge of the capping rail.



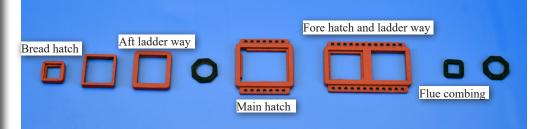
28 - Deck hatches and deck fittings

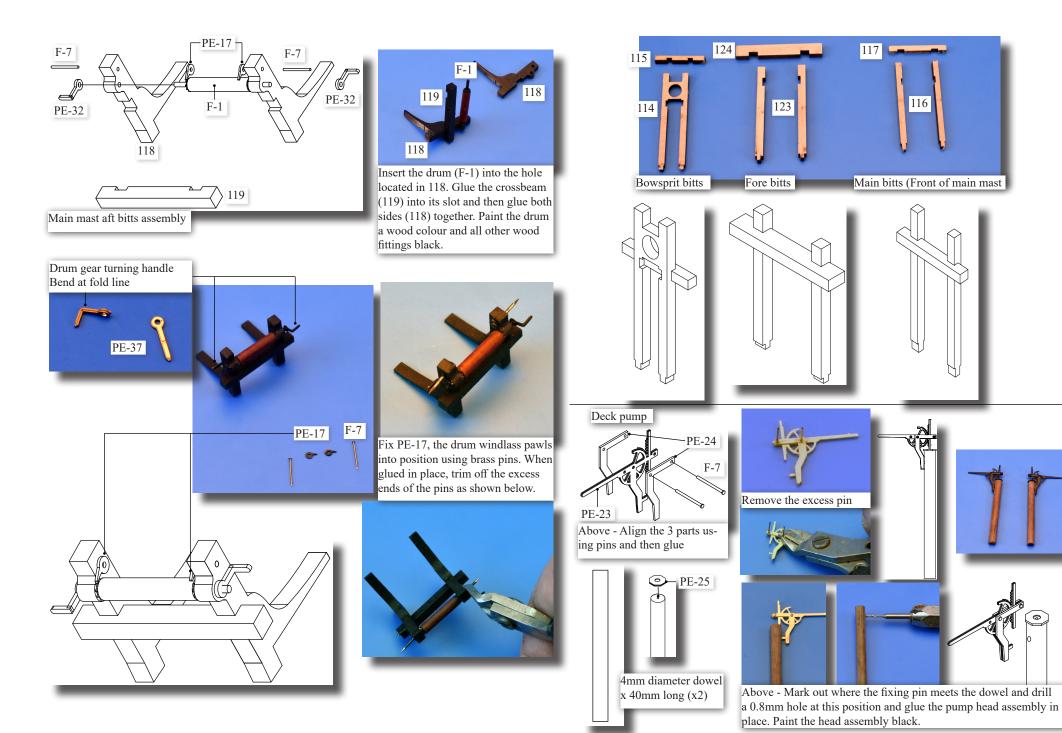


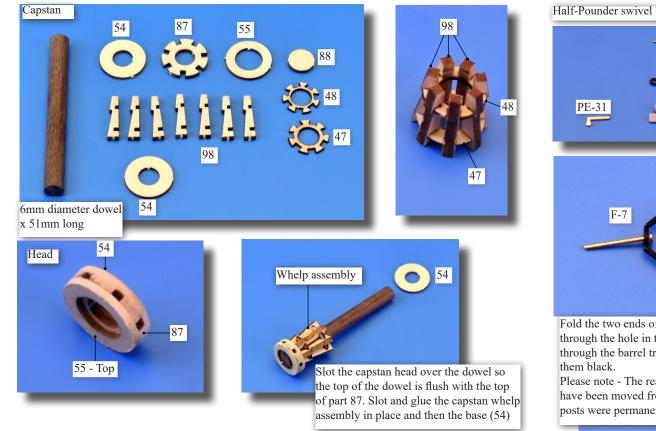
Glue the hatch and skylight combings together so there is a lip inside the openings which support the gratings

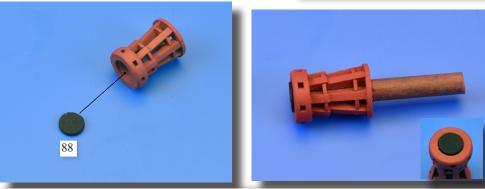


Optional - The combings can be painted red and the mast bases and stove flue base can be painted black.



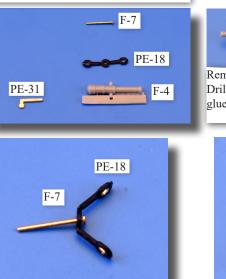






The completed capstan head and whelp assemblies can be painted red. To highlight the top, part 88 can be painted black and then glued into place

Half-Pounder swivel gun (Make 20 sets)





Remove the gun from its casting base and clean up. Drill a 0.8mm hole at the rear to take PE-31. Insert and glue PE-31 in place.



Fold the two ends of the swivel gun bracket (PE-18) and drop in a brass pin (F-7) through the hole in the middle of the bracket. Insert the cannon and fold the bracket through the barrel trunnion to secure the assembly. When all 20 are complete, paint

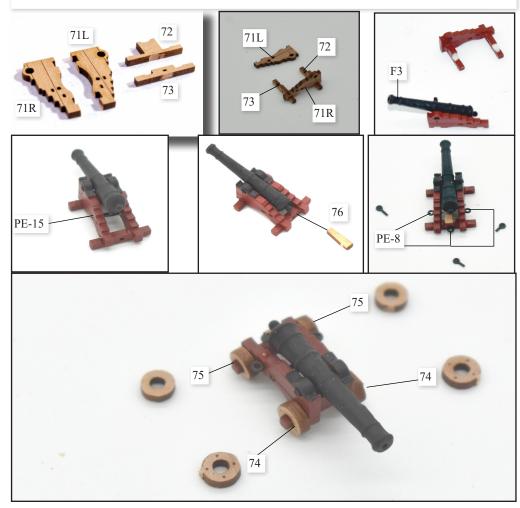
Please note - The real Speedy was assigned with only 12 swivel guns, as they would have been moved from one post to another where required. It is doubtful if all 20 posts were permanently populated.

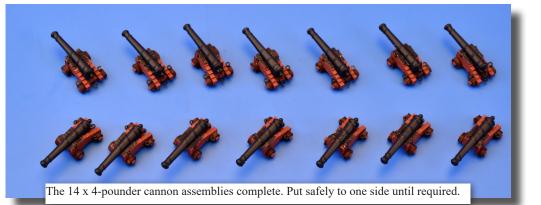


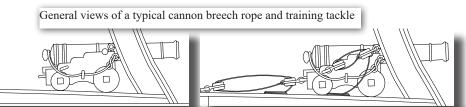
#### 4-pounder cannon (Make 14 sets)



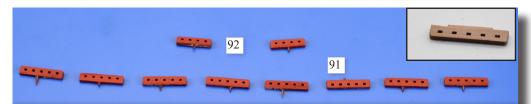
Paint the cannon barrels black. Although they are produced in black resin, they still require painting. Make up the 4 pounder cannon assemblies as shown below. Paint the sides and axles red (71R, 71L, 72 and 73), Glue one side to the axles, and then add the barrel to the other side. Add glue to the axles assemble the carriage side with the barrel to the other carriage side. Insert the PE cross bolt (PE-15), and then glue the quoin (76) to the rear axle and cross bolt, followed by the three eyelets (PE-8) and finally the wheels (74 front and 75 - rear).





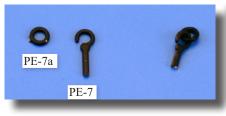


Optional - Above left - Rigging the cannon with breech rope only. Above right - Rigging the cannon with breech rope and training tackle. The blocks are all 2mm single blocks (Not included in kit), and the rope would be 0.1mm, with the breech rope being 0.75 natural.

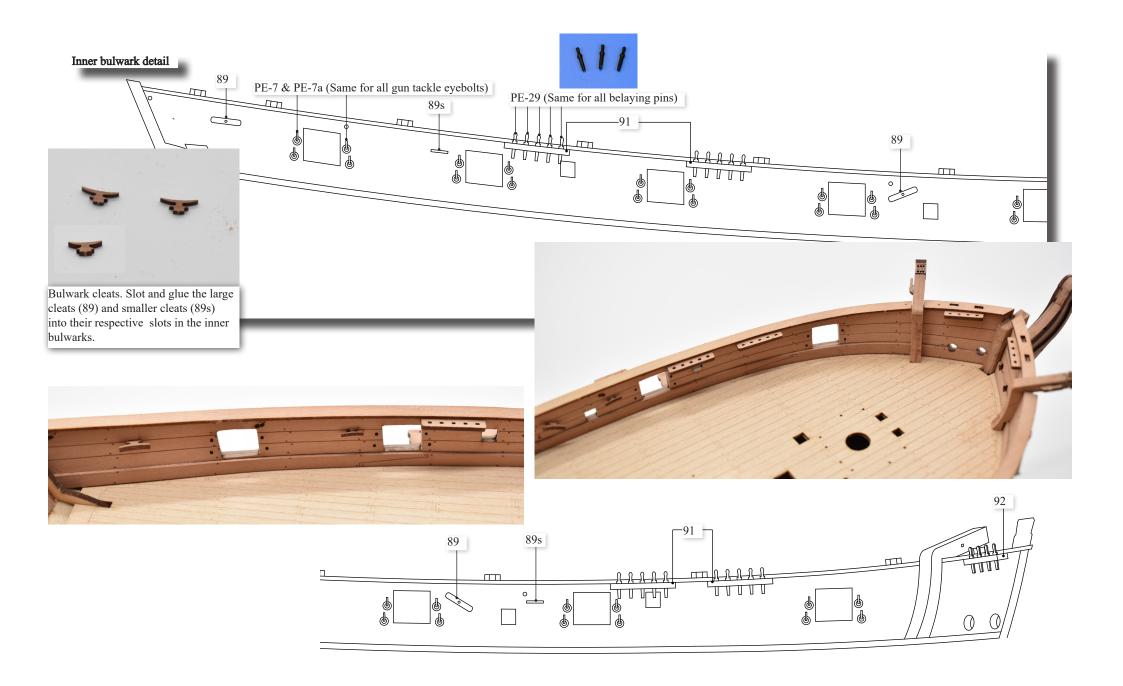


#### Belaying pin racks. (Latest design inset above)

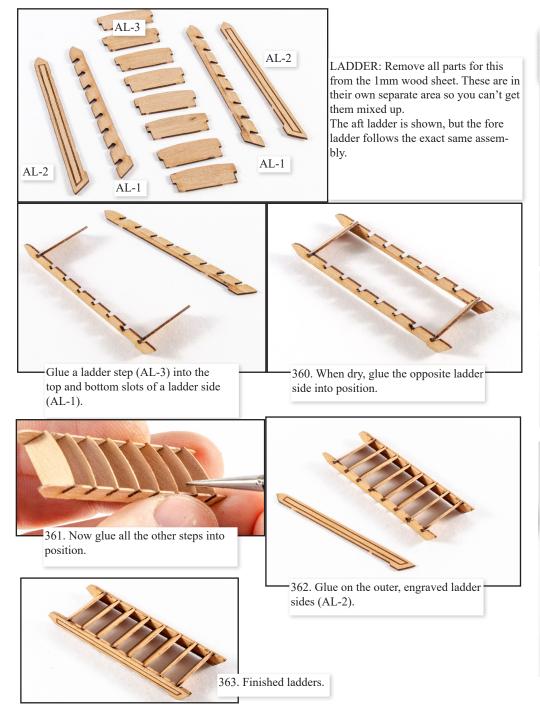
There are  $4 \times 5$  hole pin racks and  $1 \times 4$  hole pin rack per side. These have a tab on the back edge and now simply slot and glue into the pre cut openings located in the bulwark inner sides, rather than pinned. Paint all belaying pins (PE-29) a wood colour or black.



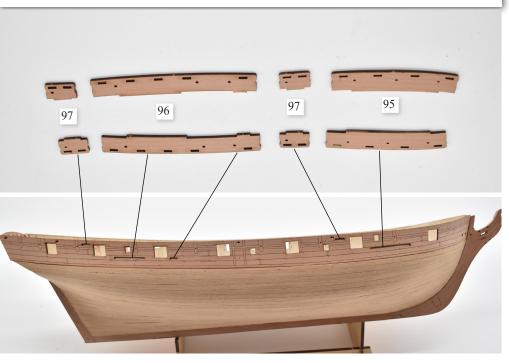
Left - Inner bulwark and deck ring bolts for cannon tackle. Paint black and add the ring (PE-7a) tot he eyebolt (PE-7) and glue in place in the holes located at the edges of each gun port opening on the inner bulwarks. Use the full size drawing on the main plans for correct placement.



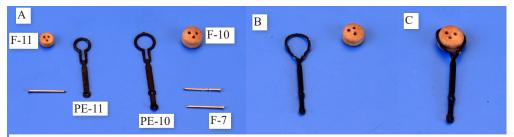
### 29- Channels and chain plates



Remove the channels from their 1.5mm sheet. Version 2023 channels are tabbed, rather than having to pin in place. Paint black (or just varnish) the channels and glue into their respective slots located in the outer bulwarks.



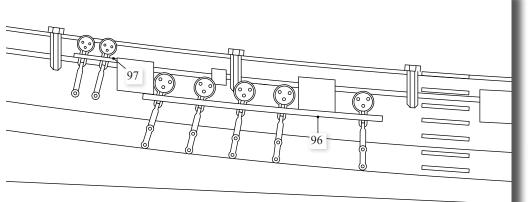


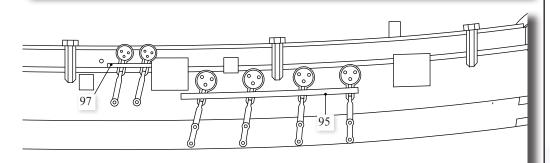


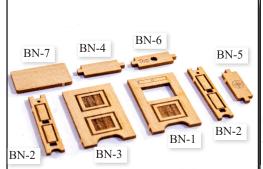
Deadeye and chain plate assembly.

Paint the chain plates black and then open up the loop that will hold the 5mm or 3mm deadeye (B). Push the deadeye into the loop (C) and then close the loop back up to secure the deadeye.

Once the 18 sets of 5mm and 8 sets of 3mm are done, fix them in place through the slots in the channels and pin the ends into the hull sides, as shown below. 5mm deadeyes and chainplates fit into the fore and main channels (95 & 96) and the 3mm into the fore and main stools (97). Drill and pin the lower chainplates to the hull/main wale.







Binnacle:From the 1mm wood sheet, remove parts BN-1 to BN-7



Complete the binnacle carcase as shown here.



236. Glue part BN-7 to the top of the binnacle to complete the assembly.



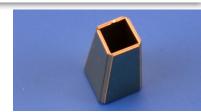
Glue part BN-4 to the lower side of one of the binnacle parts and part BN-5 to the middle hole, with the engraved compass place facing upwards. From the 0.2mm PE sheet, remove one part PE-60 and glue into place on the compass engraving. NOTE: the scalloped edge of the side parts is the bottom of those parts.



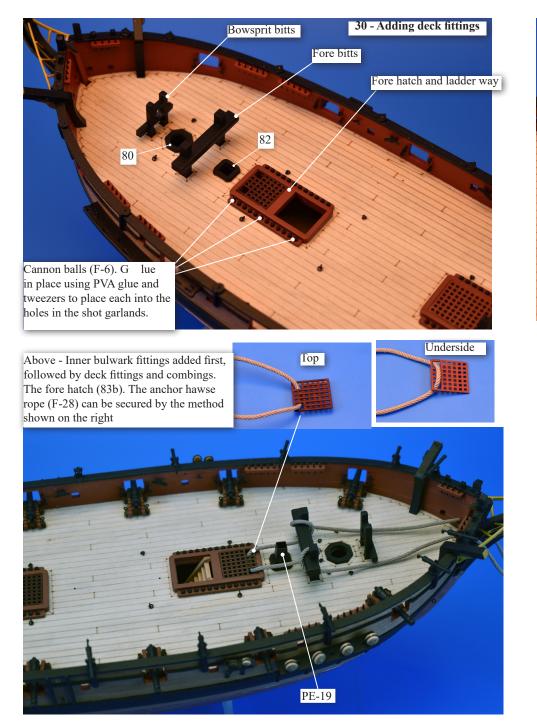
Take each front/rear face in turn and glue/clamp into place as shown.

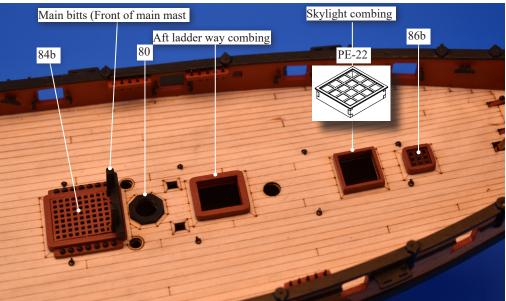


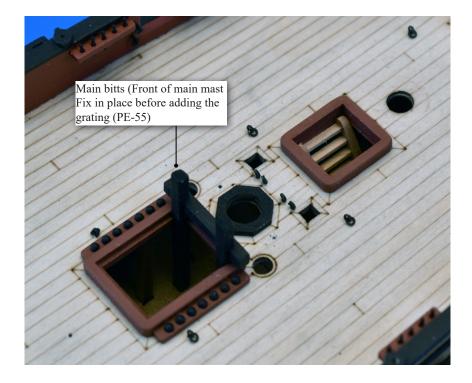
Stove flue (PE-19) Bend the four sides at the bend lines and then glue where both ends meet. Paint the flue black. This method will give the flue a more realistic appearance.



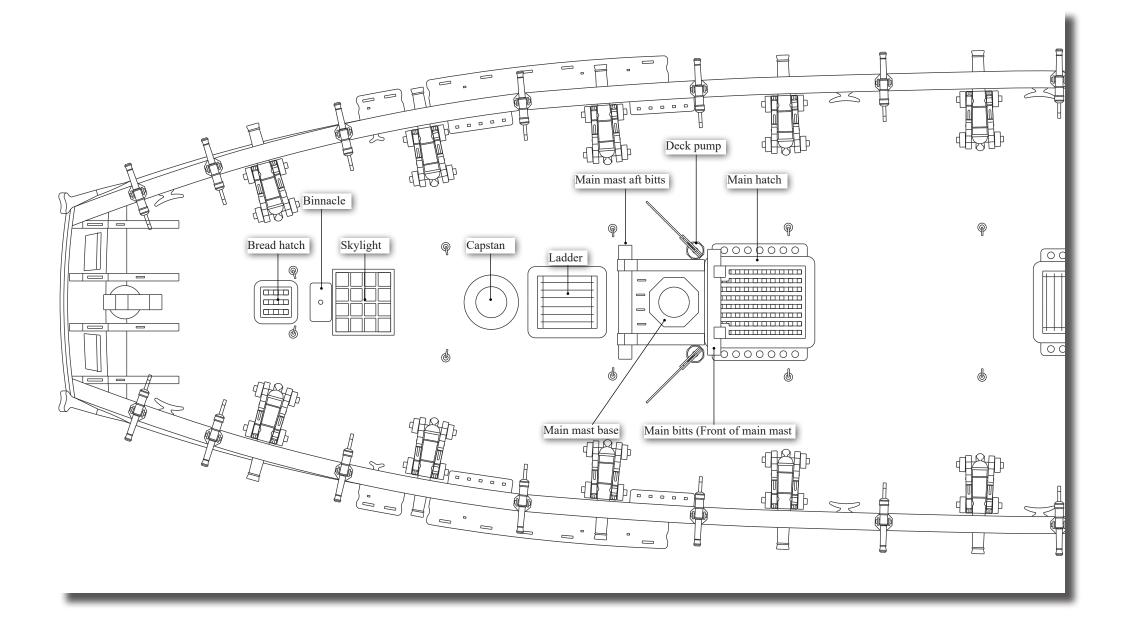


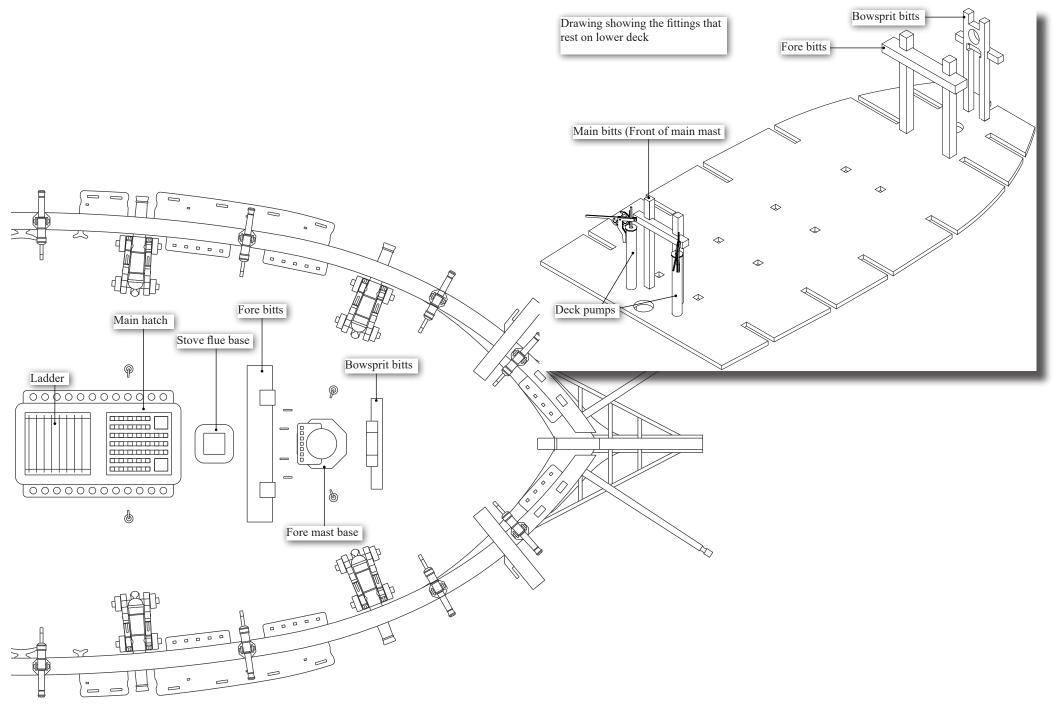


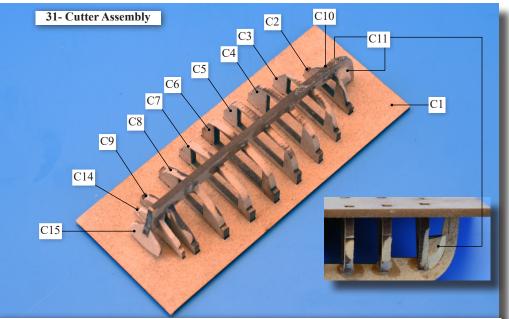




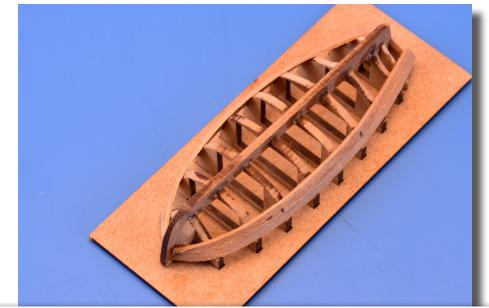
Deck fittings and hatch combings general arrangement







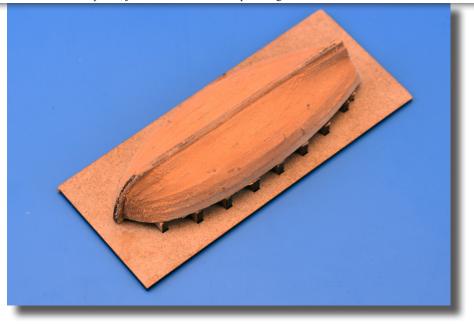
Slot the bulkheads (C2-9 and C14) into the base (C1) and then slot and glue the keel (C10 - 1mm wood) in place, along with the stern board (C15). Bevel the edges of parts C11 to follow the run of the front planking and then slot and glue into position to the front frame and keel.

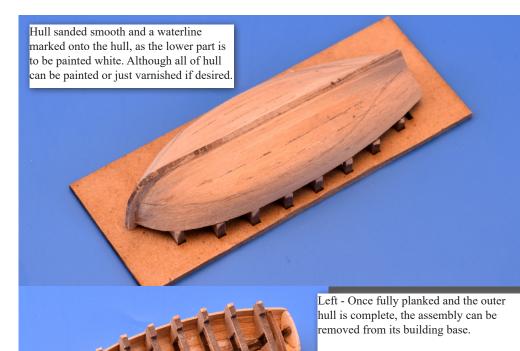


Plank the cutter in the same way as you planked the ship hull, but using the laser cut wood strip. Cyano or similar adhesive is recommended to fix the planks in place. Start planking at the top edge of the bulkheads and work your way down. The front and rear of each plank will need to be tapered, just as the full size hull planking.



Once the bulkheads have been securely glued to the keel, it should be ready for planking. Carefully sand the bulkheads as you would for the main ship's hull, so that the run of the planking has maximum contact with each frame, or as much contact as is possible. Use the laser cut 0.6mm planking strips.

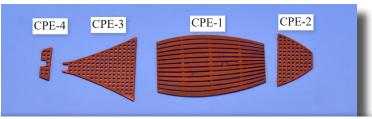




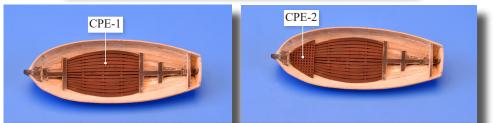
Below - Remove all frames down to the floor level and sand and fill the inner boat hull smooth.







Remove the four parts that make up the floor of the cutter from the 0.4mm photo etched sheet and paint wood colour. I used a red oxide spray paint followed by Vallejo wood grain paint for the above effect.



Glue the floors in the order shown - CPE-1 first, followed by CPE-2, CPE-3 and then CPE-4.



CPE-4

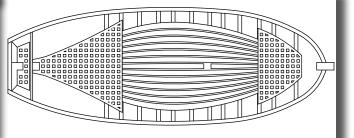
C16

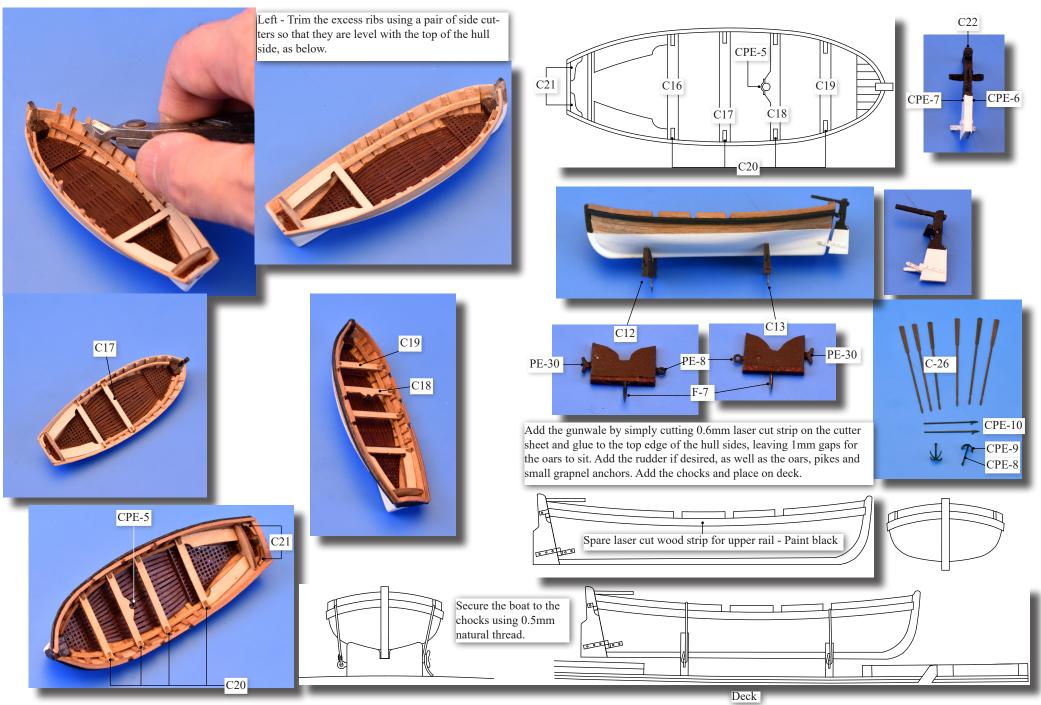
Once the floors are in place, the rear seat can be added (C16). bevel the contact edges of the seat so that it fits flush with the boat inner sides.

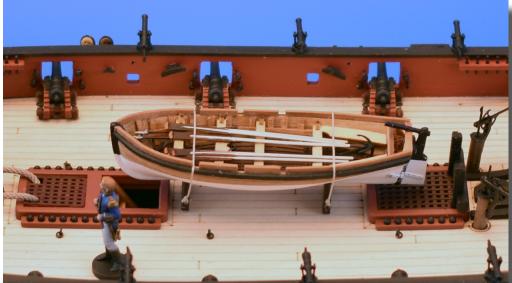


Optional - Ribs.

You can simulate the inner ribs by using the laser cut 0.6mm strip. Bend and glue in place as per the drawing shown on the right. Add a length of laser cut strip longitudinally about 2.5mm down from the top edge for the seats to sit at the correct level.







Cutter assembly in place. It is pinned in place, not glued. This is because the cutter was removed while rigging the model, to make it easier for belaying certain rigging lines. It was simply pinned back in place when rigging was complete.

Below - The completed hull assembly. The figure can be placed wherever you like. For a more scale appearance, carefully remove the base and use a small drop of glue to fix the figure where you like.





The 1:64th scale Cochrane figure paint scheme. Glue the sword to the position shown.



A From the 2mm wood sheet, remove all parts 121 You will also need the 3D-printed anchors.



C. Cut thin strips of black cartridge paper and glue into place as shown.



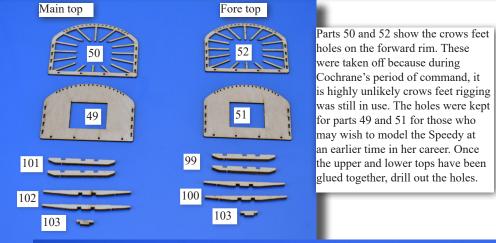
B. Before gluing the halves of the anchor stocks together, test fit the anchor shaft between them and if necessary, deepen the engraved area a little when the anchor sits comfortably within, remove the anchor and glue the stock halves together.

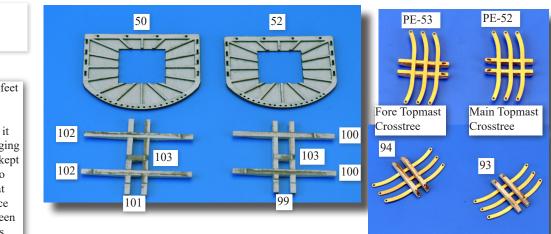


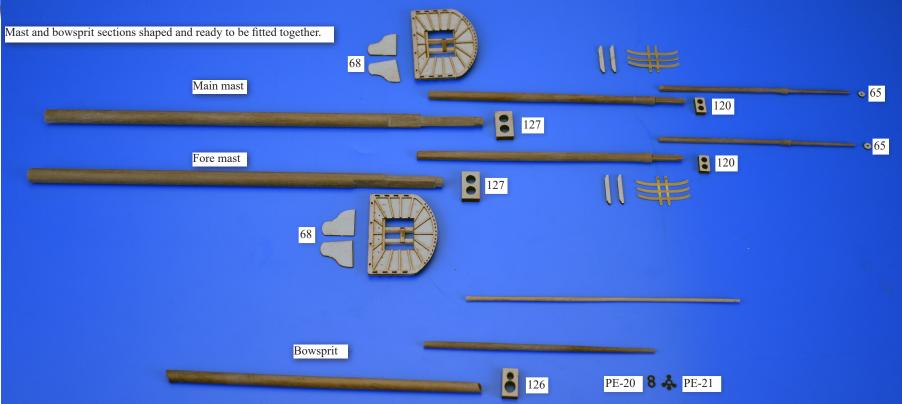
D. Paint the anchor black and then glue it into the stock. Finally, remove the anchor rings PE-44 from the 0.6mm PE sheet. Twist these slightly to open and then slide into the hole in the anchor before twisting the part closed again. Make 4 sets.

### 33 - Masts, yards and rigging

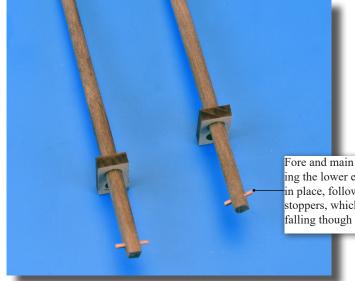
Please note - The following is supplementary to the full size plans, and not a step-by-step building guide. Use the full size plans for all measurements and locations of parts and rigging.



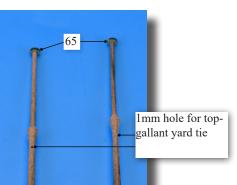








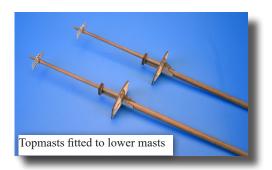
Fore and main top masts showing the lower ends with main caps in place, followed by the 'fids' or stoppers, which stop the mast from falling though the lower trestle trees.

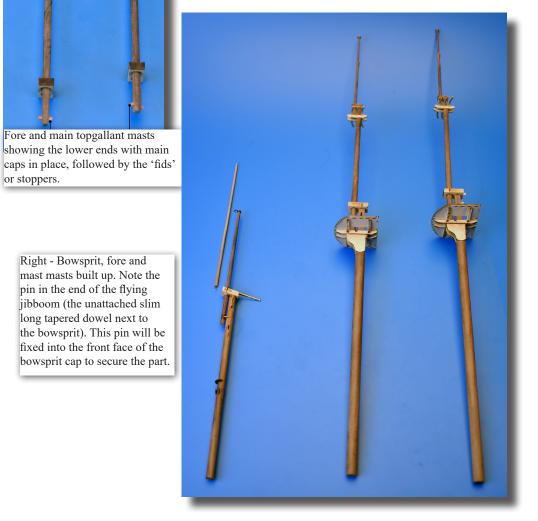


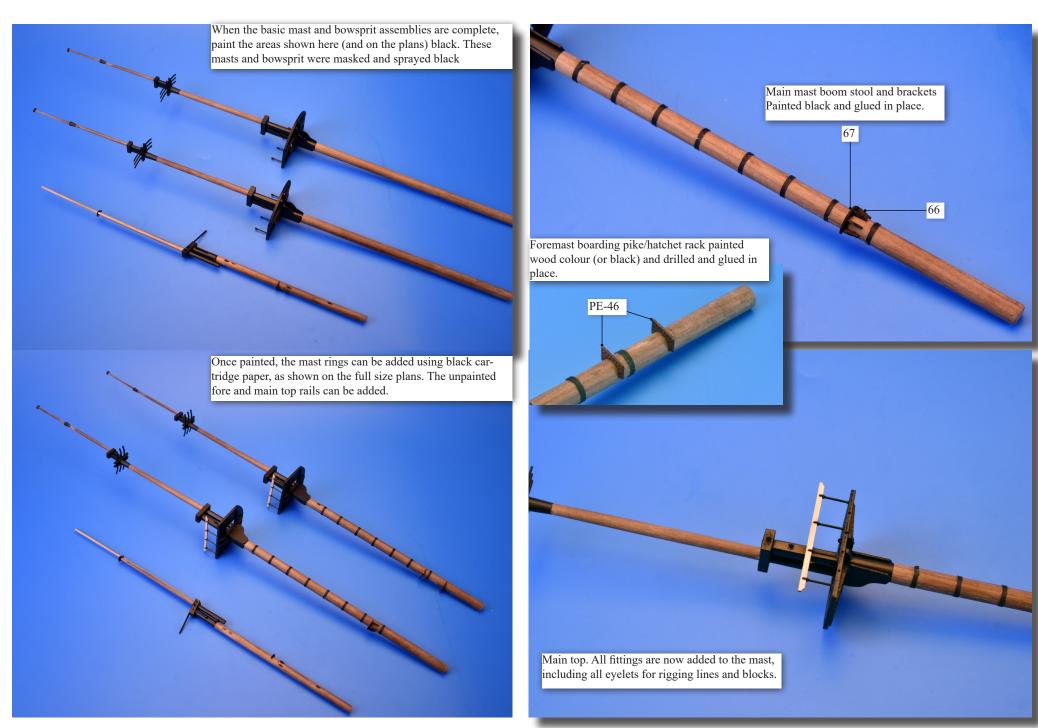
Fore and main topgallant masts

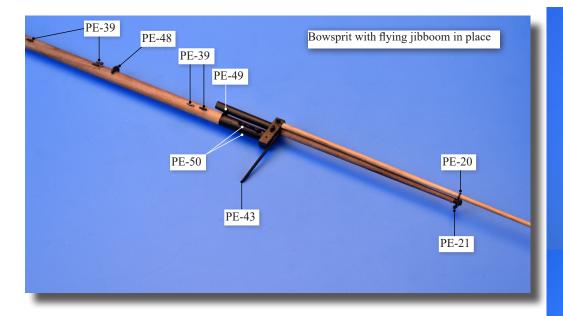
Right - Bowsprit, fore and mast masts built up. Note the pin in the end of the flying jibboom (the unattached slim long tapered dowel next to

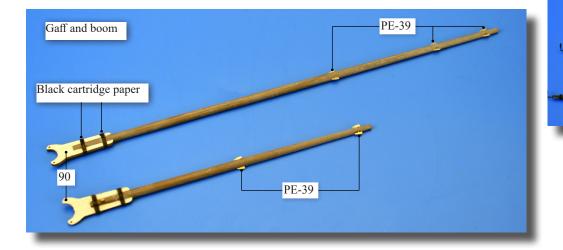
or stoppers.

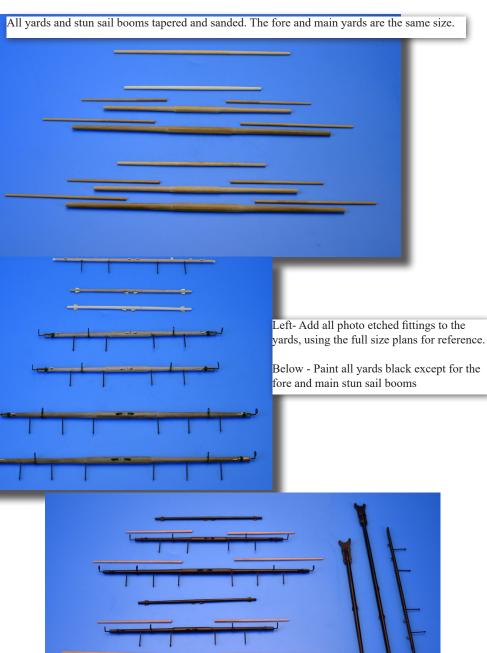




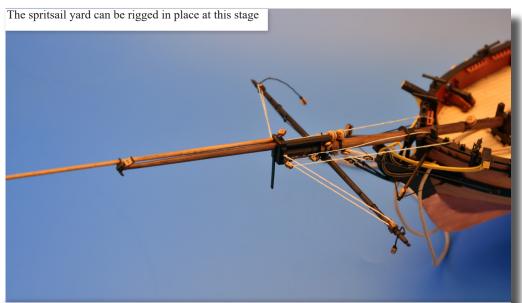








One yards and booms have been painted, add the stun sail booms to the fore and main lower and upper yards, and then add all blocks and footropes, using the plans for reference. The bowsprit is added first. Start with the gammoning and then rig the bowsprit stays, as shown below and detailed in the rigging plans



Below - Fore and main mast permanently stepped in place with a drop of PVA added to the bottom of the masts to secure them in place, and prevent any turning of the masts during the rigging process.





Shroud sequence (The pictures are a compliment to the main rigging drawings, use the drawings for correct rigging line and deadeye/block sizes and placement)

Above - Lower shrouds are added first. Do not over tension any lines when rigging the lanyards to the deadeyes, even if this means that some shrouds are a little less taught than others.

Below - Once the lower shrouds have been set up, the 'Futtock Stave' can be added each side. These are simply 1mm brass rod cut overlong and tied in place to each of the shrouds. Carefully measure the distance from the lower tops to ensure both sides are aligned correctly. It is very easy to have one side higher or lower than the other.

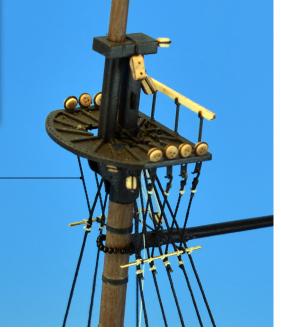




Above - To pull the top of the lower shrouds into the mast, 'catharpins' are rigged. These are simply thread secured to the left and right futtock staves.

Below -Make up 16 sets of 'Futtock Shrouds' These are black thread with a futtock hook tied into one end. Cut each to a length of approximately 80-90mm.

Right - The futtock shrouds hooked in place to the futtock strops. The lower end is secured to the shrouds, just below the futtock stave.



Below - Topmast shrouds added, followed by the upper futtock staves (0.5mm brass rod) and catharpins.

Right - Note the single 3mm block tied to the first and second topmast shrouds. This applies to both fore and main topmasts, and is for the topsail yard lifts.







Ratlines tied into place. Before applying watered down PVA wood glue to the end knots, to secure them permanently in place, pull the excess ends of the ratlines to ensure the shrouds are not pulled in from the clove hitch knots of the ratlines.

Below - Brushing on watered down PVA wood glue to secure ratines on first and last shrouds. Below right - Once the PVA has cured, snip off the excess ratines using scissors or a pair of side cutters.

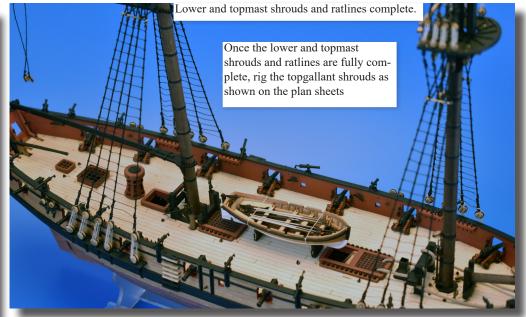




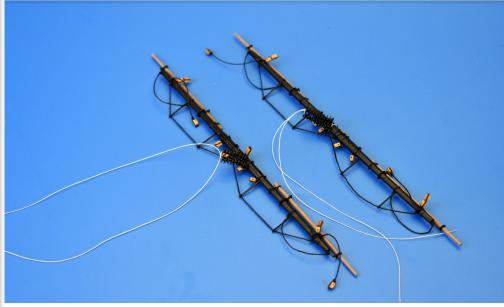
Above - ratlines now trimmed, ready for staining black.

Below - To make sure so black paint or ink splashes onto the model, add paper behind the shrouds to help prevent this. The prototype model shown had the ratlines stained by brushing on Black Indian Ink. The futtock staves were then painted black.





Below - Not that the shrouds and ratlines are set up, add the yards to their respective positions on the masts. use the plans for correct positioning and the methods use to fix each yard in place. The yards shown below are the lower yards, with the parral ribs and beads added, ready for fixing to the lower masts





Lower mast stays. Above, The method of simulated the stay collar and mouse. The 'Mouse' is F-17 for the lower stays, and the smaller F-18 is for the topmast stays.

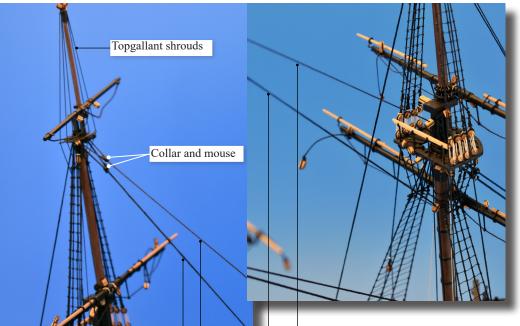
Below - The main and fore stays and preventer stays set up. At the top, each is secured to the mast heads with the collar and mouse and at the lower end, 5mm deadeyes and lanyards.





Above and below - Before adding the topmast stays, rig the topmast back stays





Above Main topmast stay and preventer stay. The collar and mouse at the mast head end is set up as the lower mast stays, except the 'mouse' is the smaller F-18.

Below - Fore topmast stay and preventer stay. The ends of the stays run through the 'bees' near the bowsprit cap and down to the forecastle, where they are set up with blocks and tackle, as shown in the line drawings on the plans.





Topgallant and royal stays. The top end of each stay is attached to the mast heads using the method shown above. Use the line drawings on the plans for securing the standing ends of each stay









Once the black standing rigging is complete, start on the running rigging. Start at the lowest yards (as shown above and left), work from inwards to the ends of the yards, and work upwards to the upper yards.

It is highly recommended that you do not add the lower yard sheets and tack rigging lines until the rest of the rigging is complete. The same applies to the main brace rigging. This is because the rigging lines will block access to the deck, and severely hinder the belaying of other rigging lines. Also, before adding the final rigging lines, if you have not already added the boat to the deck, do this before adding the lower sheets, tacks and main brace.

As with the standing rigging, do not make any rigging line too taught, as this can bend the yards and masts, more so for the smaller diameter upper masts.



Once the rigging is fully complete, the anchors can now be lashed in place. Use the photos above and below for the recommended lashing positions.

With the anchors in place, the model of Speedy should now be complete.

Carefully look over the model and remove any loose rigging thread or stray parts that may still be present.













#### HM Brig Sloop Speedy Version 2023 – 1:64<sup>th</sup> scale PARTS LIST

	PARTS LIST		
<u>Pt. No</u>	Description	<u>Material</u>	<u>QTY</u>
	3mm MDF		
2	Bulkhead	3mm MDF	1
3	Bulkhead	3mm MDF	1
4	Bulkhead	3mm MDF	1
5	Bulkhead	3mm MDF	1
6	Bulkhead	3mm MDF	1
<u>6a</u>	Deck Beam	3mm MDF	2
7	Bulkhead	3mm MDF	1
<u>7a</u>	Deck Beam	3mm MDF	1
8	Bulkhead	3mm MDF	1
<u>8a</u>	Deck Beam	3mm MDF	1
<u>8b</u>	Bolster for Bulkhead 8	3mm MDF	4
9	Bulkhead	3mm MDF	1
9a	Deck Beam	3mm MDF	2
10	Bulkhead	3mm MDF	1
11	Bulkhead	3mm MDF	1
<u>11a</u>	Deck Beam	3mm MDF	1
12	Bulkhead	3mm MDF	1
<u>12a</u>	Deck Beam	3mm MDF	1
13	Bulkhead	3mm MDF	1
14	Bulkhead	3mm MDF	1
15	Bulkhead	3mm MDF	1
16	Bulkhead	3mm MDF	1
17	Bow Pattern (Inner)	3mm MDF	2
18	Bow Pattern (Outer)	3mm MDF	2
19	Bow patterns (Between bulkheads 3&4)	3mm MDF	2
20	Bow patterns (Between bulkheads 2&3)	3mm MDF	2
21	Stern patterns (Between bulkheads 14&15)	3mm MDF	2
22	Fore/aft lower deck step pattern	3mm MDF	2
23	Upper deck longitudinal support	3mm MDF	2
24	Securing peg (To keep keel parts in place)	3mm MDF	4
25	Sacrificial building cradle (Fore)	3mm MDF	1
26	Sacrificial building cradle (Aft)	3mm MDF	1
27	Sacrificial building cradle spacer	3mm MDF	1
	2mm Plywood		

2mm MDF

2mm MDF

2mm MDF

2mm MDF

2

2

2

2

Lower deck (Fore)

Lower deck (Aft)

Stern frame pattern (Inner)

Stern frame pattern (Outer)

<u>28</u>

29

<u>30</u>

31

1	False Keel	3mm MDF	1
C1	18 Foot Cutter Frame base	2mm MDF	1
<u>C2</u>	18 Foot Cutter Frame	2mm MDF	1
<u>C3</u>	18 Foot Cutter Frame	2mm MDF	1
<u>C4</u>	18 Foot Cutter Frame	2mm MDF	1
C5	18 Foot Cutter Frame	2mm MDF	1
<u>C6</u>	18 Foot Cutter Frame	2mm MDF	1
<u>C7</u>	18 Foot Cutter Frame	2mm MDF	1
<u>C8</u>	18 Foot Cutter Frame	2mm MDF	1
<u>C9</u>	18 Foot Cutter Frame	2mm MDF	1
C10	18 Foot Cutter Keel	2mm MDF	1
C11	18 Foot Cutter bow planking pattern	2mm MDF	2
<u>C12</u>	18 Foot Cutter cradle (Fore)	2mm MDF	1
<u>C13</u>	18 Foot Cutter cradle (Aft)	2mm MDF	1

### 2mm Clear Acetate

<u>32</u>	Display cradle (Fore)	2mm Clear Acetate	1
<u>33</u>	Display cradle (Aft)	2mm Clear Acetate	1
<u>34</u>	Nameplate Support	2mm Clear Acetate	4
<u>34a</u>	Nameplate	2mm Clear Acetate	2
<u>35</u>	Display cradle spacer (Sides)	2mm Clear Acetate	2

# 0.8mm Plywood

<u>36</u>	Main deck	0.8mm Plywood	1
37L	Side bulwark pattern (Left)	0.8mm Plywood	1
37R	Side bulwark pattern (Right)	0.8mm Plywood	1
<u>38</u>	Stern counter	0.8mm Plywood	1

#### 1mm Wood

<u>10a</u>	Lower Deck Bulkhead Door	_1mm Wood1
<u>16aL</u>	Lower Stern counter Vertical Planking (Left Outer)	_1mm Wood1
16aR	Lower Stern counter Vertical Planking (Right Outer)	_1mm Wood1
<u>37aR</u>	Outer Bulwark Pattern (Right)	_1mm Wood1
<u>37aL</u>	Outer Bulwark Pattern (Left)	_1mm Wood1
37bR	Main Wale (Right)	_1mm Wood1
<u>37bL</u>	Main Wale (Left)	_1mm Wood1
<u>37cL</u>	Inner Bulwark Pattern (Left)	_1mm Wood1
<u>37cR</u>	Inner Bulwark Pattern (Right)	_1mm Wood1
<u>37dR</u>	Inner Bulwark Spirketting (Right)	_1mm Wood1
<u>37dL</u>	Inner Bulwark Spirketting (Left)	_1mm Wood1
<u>38a</u>	Stern counter (Outer)	_1mm Wood1
<u>38b</u>	Stern counter Rail (Left)	_1mm Wood1
<u>38c</u>	Stern counter Rail (Right)	1mm Wood1

39	Stern board (Inner)	1mm Wood	1	<u>109L</u>	Lower Keel Left Outer Pattern	1mm Wood	1
39a	Stern board (Outer)	1mm Wood	1	<u>109R</u>	Lower Keel Right Outer Pattern	1mm Wood	1
40	Upper rail and swivel gun post pattern (Fore)	1mm Wood	2	<u>110L</u>	Rudder Post Left Outer Pattern	1mm Wood	1
40a	Swivel gun post support timber	1mm Wood	2	<u>110R</u>	Rudder Post Right Outer Pattern	1mm Wood	1
40b	Swivel gun post support timber	1mm Wood	2	<u>111L</u>	Prow Left Outer Pattern	1mm Wood	1
41	Upper rail and swivel gun post pattern	1mm Wood	2	<u>111R</u>	Prow Right Outer Pattern	1mm Wood	1
41a	Swivel gun post support timber	1mm Wood	2	<u>111a</u>	Prow Bulwark Bolster	1mm Wood	2
<u>41b</u>	Swivel gun post support timber	1mm Wood	2	<u>112</u>	Rudder (Centre)	1mm Wood	1
42	Upper rail and swivel gun post pattern	1mm Wood	2	<u>112R</u>	Rudder Right Outer Pattern	1mm Wood	1
<u>42a</u>	Swivel gun post support timber	1mm Wood	2	<u>112L</u>	Rudder Left Outer Pattern	1mm Wood	1
42b	Side fender timber	1mm Wood	2	<u>C14</u>	18 Foot Cutter bulkhead	1mm Wood	1
43	Upper rail and swivel gun post pattern	1mm Wood	2	<u>C15</u>	18 Foot Cutter stern board	1mm Wood	1
<u>43a</u>	Swivel gun post support timber	1mm Wood	2	<u>C16</u>	18 Foot Cutter seat (Rear)	1mm Wood	1
<u>43b</u>	Swivel gun post support timber	1mm Wood	2	<u>C17</u>	18 Foot Cutter seat	1mm Wood	1
44	Upper rail and swivel gun post pattern	1mm Wood	2	<u>C18</u>	18 Foot Cutter seat	1mm Wood	1
44a	Swivel gun post support timber	1mm Wood	2	C19	18 Foot Cutter seat	1mm Wood	1
44b	Swivel gun post support timber	1mm Wood	2	C20	18 Foot Cutter seat bracket	1mm Wood	8
45L	Hair bracket (Left)	1mm Wood	1	C21	18 Foot Cutter stern bracket	1mm Wood	2
45R	Hair bracket (Right)	1mm Wood	1	PE-29a	Yard Cleat	1mm Wood	58
46	Bow main rail	1mm Wood	2	PE-48	Bowsprit fairlead cleat	1mm Wood	1
47	Capstan lower chock	1mm Wood	1	PE-49	Jibboom saddle	1mm Wood	1
48	Capstan upper chock	1mm Wood	1	PE-50	Bowsprit bee (Sheaves for topmast stays)	1mm Wood	2
49	Main top (Lower pattern)	1mm Wood	1	<u>AL-1</u>	After ladder Side (Inner)	1mm Wood	2
50	Main top (Upper pattern)	1mm Wood	1	AL-2	After ladder Side (Outer - Left and Right)	1mm Wood	2
50	Fore top (Lower pattern)	1mm Wood	1	AL-3	After ladder Step	1mm Wood	8
52	Fore top (Upper pattern)	1mm Wood	1	FL-1	Fore ladder Side (Inner)	1mm Wood	2
53	Capping rail (Fore)	1mm Wood	2	FL-2	Fore ladder Side (Outer - Left and Right)	1mm Wood	2
<u>53a</u>	Capping rail (Aft)	1mm Wood	2	<u>FL-3</u>	Fore ladder Step	1mm Wood	
<u>55a</u> 54	Capstan ring	1mm Wood	2	<u>BN-1</u>	Binnacle Front Panel	1mm Wood	1
55	Capstan ring (Top)	1mm Wood	1	BN-2	Binnacle Side Panel	1mm Wood	2
56	Stern side counter timber	1mm Wood	2	BN-3	Binnacle Rear Panel	1mm Wood	1
<u>50</u> 57	Stern board rail (Lower)	1mm Wood	1	<u>BN-3</u> BN-4	Binnacle Lower Shelf	1mm Wood	1
<u>57</u> 58	Stern board rail (Middle)	1mm Wood	1	BN-5	Binnacle Middle Shelf	1mm Wood	1
<u>50</u> 59	Stern board rail (Upper)	1mm Wood	1	BN-6	Binnacle Upper Shelf	1mm Wood	1
<u>60</u>	Tiller arm	1mm Wood	2	BN-7	Binnacle Canopy	1mm Wood	1
61	Side steps	1mm Wood	18		Locating Key for Keel Parts	1mm Wood	10
62	Rear skylight combing	1mm Wood	2	5 1 1-1	Locating Key for Keel Farts		
63	Rear skylight combing	1mm Wood	2		1.5mm Wood		
<u>65</u> 64	hawse bolster	1mm Wood	2	PE-36	Lower mast and yard sling cleat	1.5mm Wood	Q
<u>65</u>	Fore and main topgallant truck	1mm Wood	2	<u>PE-30</u> PE-38	Topsail yard sling cleat	1.5mm Wood	<u> </u>
<u>65</u> 66	Main boom stool bracket	1mm Wood	4	<u>PE-38a</u>	Masthead cleat	1.5mm Wood	8
	Main boom stool	1mm Wood	<u> </u>	<u>PE-38a</u> <u>PE-39</u>	Yard and bowsprit cleat	1.5mm Wood	86
<u>67</u> 68	Fore and main lower cheek	1mm Wood	<u>1</u>	<u>PE-39</u> 71	4-Pounder carriage side	1.5mm Wood	28
<u>68</u> 60		1mm Wood	4		4-Pounder carriage front axle	1.5mm Wood	
<u>69</u> 70	Fore top rail Main top rail		<u> </u>	72 73	4-Pounder carriage front axle 4-Pounder carriage rear axle	1.5mm Wood	16
70		1mm Wood	<u> </u>				16
89s	Bulwark Cleat (Small)	1 Wood	8	74	4-Pounder carriage front wheel	1.5mm Wood	32
<u>125b</u>	Cathead Sheave Pattern	1mm Wood	4	<u>75</u>	4-Pounder carriage rear wheel	1.5mm Wood	32
<u>125c</u>	Cathead End Cap	1mm Wood	2	7 <u>6</u>	4-Pounder carriage quoin	1.5mm Wood	14

77	Half-Pounder swivel gun base	1.5mm Wood	20
78	Bow cheek	1.5mm Wood	4
79	Cathead knee	1.5mm Wood	2
80	Fore and Main Mast base	1.5mm Wood	2
81	Timberhead	1.5mm Wood	4
82	Chimney base	1.5mm Wood	1
83	Fore hatch and companion combing (Lower)	1.5mm Wood	1
<u>83a</u>	Fore hatch and companion combing (Upper)	1.5mm Wood	1
<u>83b</u>	Fore hatch Grating)	1.5mm Wood	1
84	Main hatch combing (Lower)	1.5mm Wood	1
<u>84a</u>	Main hatch combing (Upper)	1.5mm Wood	1
<u>84b</u>	Main hatch Grating	1.5mm Wood	1
<u>85</u>	Aft companionway combing (Lower)	1.5mm Wood	1
<u>85a</u>	Aft companionway combing (Lower)	1.5mm Wood	1
86	Bread hatch combing (Lower)	1.5mm Wood	1
<u>86a</u>	Bread hatch combing (Lower)	1.5mm Wood	1
<u>86b</u>	Bread hatch Grating	1.5mm Wood	1
87	Capstan bar hole pattern	1.5mm Wood	1
88	Capstan top	1.5mm Wood	1
89	Inner bulwark cleat (Large)	1.5mm Wood	6
<u>90</u>	Gaff/Boom jaws	1.5mm Wood	2
<u>91</u>	Belaying pin rack (5-Hole)	1.5mm Wood	8
<u>92</u>	Belaying pin rack (4-Hole - Forecastle)	1.5mm Wood	2
<u>93</u>	Fore Topmast Crosstree	1.5mm Wood	2
94	Main Topmast Crosstree	1.5mm Wood	2
<u>95</u>	Fore Channel	1.5mm Wood	2
<u>96</u>	Main Channel	1.5mm Wood	2
97	Fore and Main stool	1.5mm Wood	4
<u>125d</u>	Cathead Cleat	1.5mm Wood	2

<u>125a</u>	Cathead (Outer)	2mm Wood	2
	3mm Wood		
<u>113</u>	Crutch for boom	3mm Wood	1
114	Bowsprit post	3mm Wood	1
115	Bowsprit Post cross beam	3mm Wood	1
116	Main Bitt Post (Front of mast)	3mm Wood	2
117	Main Bitt Post cross beam (Front of mast)	3mm Wood	1
118	Main Bitt Post (Aft of mast)	3mm Wood	2
119	Main Bitt Post cross beam (Aft of mast)	3mm Wood	1
120	Fore and Main lower top mast cap	3mm Wood	2
122	Bow Timberhead	3mm Wood	2

#### 4mm Wood

123	Fore Bitt post	4mm Wood	2
124	Fore Bitt post cross beam	4mm Wood	1
126	Bowsprit cap	4mm Wood	1
127	Fore and main lower mast cap	4mm Wood	2

# 1mm Laser Engraved Lime Wood

<u>128</u>	Deck with planking	0.8mm Plywood	1
	0.6mm Woo	bd	
<u>C20</u>	18 Foot Cutter seat bracket	0.6mm Wood	8
C22	18 Foot Cutter rudder	0.6mm Wood	1
<u>C23</u>	18 Foot Cutter Planking	0.6mm Wood	22
<u>C24</u>	18 Foot Cutter Internal Ribs Strip	0.6mm Wood	4
<u>C25</u>	18 Foot Cutter Seat Support Strip	0.6mm Wood	4
C26	18 Foot Cutter Oar	0.6mm Wood	6

# 2mm Wood

98	Capstan Whelp	2mm Wood	8
<u>99</u>	Fore Trestletree	2mm Wood	2
100	Fore Crosstree	2mm Wood	2
101	Main Trestletree	2mm Wood	2
102	Main Crosstree	2mm Wood	2
103	Fore and Main Trestletree spacer	2mm Wood	2
104	Lower top bolsters (Requires sanding)	2mm Wood	4
105	18 Foot Cutter Cradle (Fore)	2mm Wood	1
106	18 Foot Cutter Cradle (Aft)	2mm Wood	1
107	Inner Stem post	2mm Wood	1
108	Keel (Fore)	2mm Wood	1
109	Keel (Aft)	2mm Wood	1
110	Stern/Rudder Post	2mm Wood	1
111	Stem pattern	2mm Wood	1
121	Anchor Stock	2mm Wood	8
125	Cathead (Inner)	2mm Wood	2

# 0.2mm Photo Etched Brass

PE-4	Lower yard stunsail boom outer bracket	0.2mm Photo Etch	4
PE-5	Upper yard stunsail boom outer bracket	0.2mm Photo Etch	4
PE-6	Cathead end cap decoration	0.2mm Photo Etch	2
PE-58	Prow Horse Shoe	0.2mm Photo Etch	2
<u>PE-59</u>	Rear Keel Fish Plate	0.2mm Photo Etch	2
PE-60	Compass Dial for Binnacle	0.2mm Photo Etch	1
PPE-65	Rudder pintle brace	0.2mm Photo Etch	1
PE-66	Rudder pintle brace	0.2mm Photo Etch	1
PE-67	Rudder pintle brace	0.2mm Photo Etch	1
<u>PE-68</u>	Gudgeon brace	0.2mm Photo Etch	2
<u>PE-69</u>	Gudgeon brace	0.2mm Photo Etch	2
PE-70	Gudgeon brace	0.2mm Photo Etch	2
<u>PE-73</u>	Depth markings set	0.2mm Photo Etch	2

#### 0.4mm Photo Etched Brass

PE-7	Open eyebolt (For PE-7a)	0.4mm Photo Etch	80
PE-7a	Ring for open cyclolt (For PE-7)	0.4mm Photo Etch	80
<u>PE-8</u>	Closed eyebolt	0.4mm Photo Etch	145
<u>PE-9</u>	Rigging hook	0.4mm Photo Etch	47
<u>PE-10</u>	5mm Deadeye strop and chain plate	0.4mm Photo Etch	$\frac{47}{20}$
<u>PE-11</u>	3mm Deadeye strop and chain plate	0.4mm Photo Etch	10
PE-12	3mm Deadeye futtock strop	0.4mm Photo Etch	18
<u>PE-13</u>	3mm Deadeye futtock strop hook	0.4mm Photo Etch	24
<u>PE-14</u>	Topmast parrel rib	0.4mm Photo Etch	24
<u>PE-15</u>	4-Pounder carriage 'Traverse Bolt'	0.4mm Photo Etch	16
PE-16	Euphroe block (Only for pre-1800 version)	0.4mm Photo-Etch	2
PE-17	Drum windlass pawl	0.4mm Photo Etch	2
PE-18	Half-Pounder swivel gun bracket	0.4mm Photo Etch	21
PE-19	Stove flue	0.4mm Photo Etch	1
PE-20	Jibboom/Flying Jibboom bracket	0.4mm Photo Etch	1
PE-21	Jibboom eyebolt ring	0.4mm Photo Etch	1
PE-23	Deck pump main body	0.4mm Photo Etch	2
PE-24	Deck pump main body side frame	0.4mm Photo Etch	4
PE-25	Deck pump top cap	0.4mm Photo Etch	2
PE-27	Hatchet	0.4mm Photo Etch	6
CPE-1	18 Foot Cutter main floor	0.4mm Photo Etch	1
CPE-2	18 Foot Cutter fore grating	0.4mm Photo Etch	1
CPE-3	18 Foot Cutter aft grating	0.4mm Photo Etch	1
CPE-3	18 Foot Cutter aft grating	0.4mm Photo Etch	1
CPE-4	18 Foot Cutter stern grating	0.4mm Photo Etch	1
CPE-5	18 Foot Cutter mast strap	0.4mm Photo Etch	1
CPE-6	18 Foot Cutter rudder side (Left)	0.4mm Photo Etch	1
CPE-7	18 Foot Cutter rudder side (Right)	0.4mm Photo Etch	1
CPE-8	18 Foot Cutter small kedge anchor stock	0.4mm Photo Etch	2

<u>CPE-9</u>	18 Foot Cutter small kedge anchor top	0.4mm Photo Etch	2
<u>CPE-10</u>	18 Foot Cutter pike shaft	0.4mm Photo Etch	2

### 0.6mm Photo Etched Brass

1			
<u>PE-28</u>	Yard footrope stirrup	0.6mm Photo Etch	26
<u>PE-29</u>	Belaying pin	0.6mm Photo Etch	50
PE-30	Small cleat	0.6mm Photo Etch	18
PE-31	Half-Pounder swivel gun handle	0.6mm Photo Etch	24
<u>PE-32</u>	Winch drum turning handle	0.6mm Photo Etch	2
<u>PE-33</u>	Bow 'V' shaped vertical rail (Inner)	0.6mm Photo Etch	1
PE-34	Bow 'V' shaped vertical rail (Middle)	0.6mm Photo Etch	1
PE-35	Bow 'V' shaped vertical rail (Outer)	0.6mm Photo Etch	1
PE-36	Lower mast and yard sling cleat	0.6mm Photo Etch	8
<u>PE-37</u>	Cathead cleat (Not required)	0.6mm Photo Etch	2
<u>PE-40</u>	Stunsail boom outer bracket	0.6mm Photo Etch	8
<u>PE-41</u>	Lower stunsail yard inner bracket	0.6mm Photo Etch	4
PE-42	Upper stunsail yard inner bracket	0.6mm Photo Etch	4
<u>PE-43</u>	Dolphin striker	0.6mm Photo Etch	1
<u>PE-44</u>	Anchor ring	0.6mm Photo Etch	4
<u>PE-45</u>	Rudder pintle	0.6mm Photo Etch	4
<u>PE-46</u>	Foremast boarding pike/hatchet rack	0.6mm Photo Etch	2
<u>PE-47</u>	Boarding pike	0.6mm Photo Etch	10
<u>PE-48</u>	Bowsprit fairlead cleat (Alternative to 1mm wood version)	0.6mm Photo Etch	1
<u>PE-49</u>	Jibboom saddle (Alternative to 1mm wood version)	0.6mm Photo Etch	1
<u>PE-50</u>	Bowsprit bee (Alternative to 1mm wood version)	0.6mm Photo Etch	2
<u>PE-51</u>	Fore and main lower top stanchion	0.6mm Photo Etch	8
<u>PE-52</u>	Fore topmast crosstrees	0.6mm Photo Etch	1
<u>PE-53</u>	Main topmast crosstrees	0.6mm Photo Etch	1
1	-		

Fittings

F-1	Jeer and topsail bitts windlass	3D Print	1
F-2	Anchor shank	3D Print	4
<u>F-3</u>	4 Pounder cannon barrel	3D Print	14
<u>F-4</u>	Half-Pounder swivel gun barrel	3D Print	20
F-5	1:64th Lord Cochrane figure	3D Print	1
F-6	1.5mm Diameter cannon ball	Acetate	50
F-7	Small pin	4136/10	300
<u>F-8</u>	Copper Tape Reel (For Copper Plating)	Tape	1
F-9	3.5mm Diameter Sheave	4280/35	10
F-10	5mm Deadeye	4050/05	60
F-11	3mm Deadeye	4050/03	60
F-12	3mm Single block	4070/03	120
F-13	5mm Single block	4070/05	30
F-14	4mm Double block	4080/04	30
F-15	7mm Sister block	4083/05	6
F-16	Parrel bead	Plastic	70
F-17	Large mouse bead (Lower mast stays)	Plastic	6
F-18	Small mouse bead (Upper mast stays)	Plastic	6

#### Materials

F-19	0.1mm Diameter natural thread	DD 50//8243	50m
F-20	0.25mm Diameter natural thread	DD 36//8243	40m
F-21	0.5mm Diameter natural thread	DD 25//8243	20m
F-22	0.75mm Diameter natural thread	DD 50//8243	10m
F-23	0.25mm Diameter black thread	DD 50//09770	20m
F-24	0.5mm Diameter black thread	DD 25//09770	20m
F-25	0.75mm Diameter black thread	DD 18//09770	20m
<u>F-26</u>	1mm Diameter black thread	DD 12//09770	20m
F-27	1.5mm Diameter black thread	DD 8//09770	20m
F-28	2mm Diameter natural thread (Anchor hawse)	DD 36//8243	0.5m
F-29	8mm Dowel x 500mm long	Wood	1
F-30	6mm Dowel x 500mm long	Wood	4
F-31	5mm Dowel x 500mm long	Wood	4
F-32	4mm Dowel x 500mm long	Wood	4
F-33	3mm Dowel x 500mm long	Wood	4
<u>F-34</u>	2mm Dowel x 500mm long	Wood	2
F-35	1 x 5 x 500mm long Limewood	Wood	34
F-36	0.8 x 4 x 500mm long Second planking	Wood	46
F-37	1mm Diameter brass rod x160mm long (Approx.)	Metal	1
F-38	0.5mm Diameter brass rod x 160mm long (Approx.)	Metal	1
F-39	Black Cartridge paper (For anchor & mast straps)	Paper	1

# Speedy 2023 Laser and PE Sheet Quantities

1
2
1
1
1
4
1
1
1
1
1
1
1
1
1



# VANGUARD MODELS

# BY CHRIS WATTON

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HMS Speedy original and updated 2023 version was designed and developed in the UK by Chris Watton Finished prototype model made and photographed (including construction manual text) by Chris Watton

12/07/2023