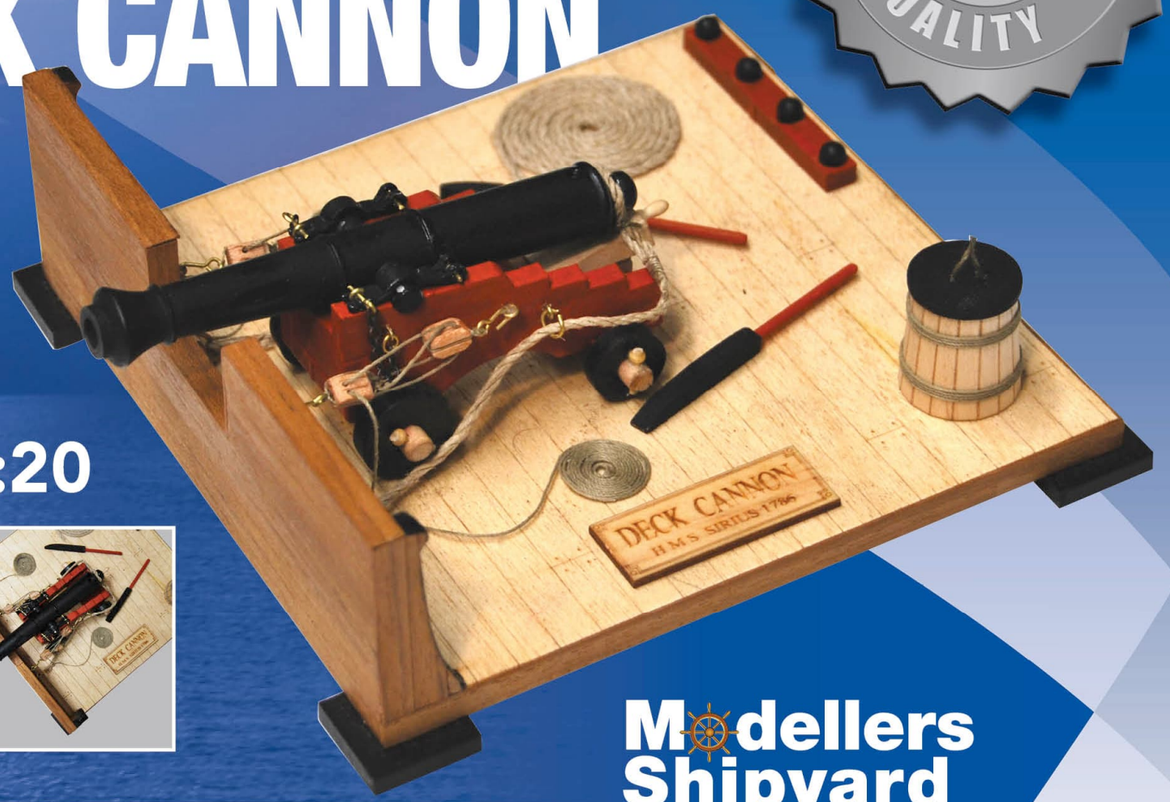
AUSTRALIAN COLONIAL SERIES WOODEN MODEL KIT

HMS SIRIUS 1786
DECK CANNON



SEAL OF QUALITY
Modellers Shipyard

SCALE 1:20



LENGTH: 140mm HEIGHT: 50mm WIDTH: 140mm

ITEM CODE: KTMS1007

Modellers Shipyard
www.modellersshipyard.com

BUILDING INSTRUCTIONS

Version 4.0

HMS Sirius 1786 Deck Cannon

Modellers Shipyard is proud to present another kit in our series of models that have significance to Australian colonial maritime history. We are the only manufacturer of wooden model kits in Australia.

The *HMS Sirius* was the flag ship of the First Fleet. This frigate, under the command of Captain Arthur Phillip, led a fleet of 11 ships carrying 1350 convicts, sailors and other passengers, to establish the first settlement in New South Wales. The fleet left England on 13 May 1787 and after a monumental journey taking eight months to complete the fleet arrived in Botany Bay between 18-20 January 1788. Two years later, when the fledgling colony of New South Wales was struggling to support itself, the *HMS Sirius* and the *HMS Supply* were sent on a special voyage to transport marines and convicts to Norfolk Island to lessen the burden on the new settlement. It was here that the *Sirius* foundered when it struck a reef off Sydney Bay (Kingston) on Norfolk Island and was finally wrecked on the 19th March 1790.

In January 1791 Capt. John Hunter decided to attempt to salvage the ship's guns. He had previously avoided this task out of concern that the gun deck would collapse upon the orlop and lower decks, preventing access to cables and stores. With the exception of two carronades that had fallen overboard when the masts were cut down, all the guns were hauled ashore with their carriages.

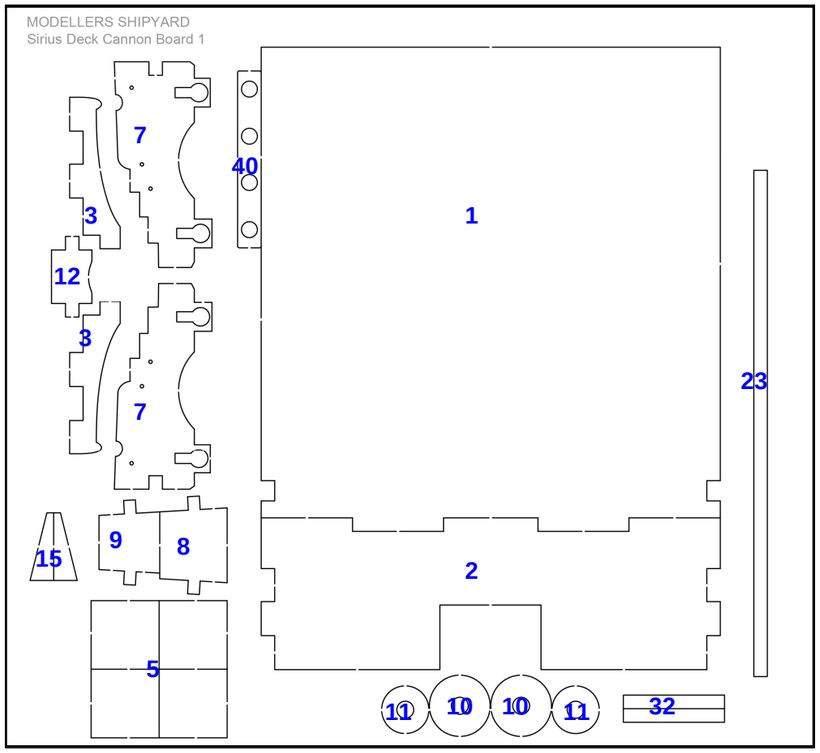
One of the cannons salvaged was returned to Sydney and used as a signal gun at South Head. In 1907 the Sirius cannon was installed at Macquarie Place to mark the place where the British flag was first hoisted and eastern Australia was claimed for Britain on the 26 January 1788. The Sirius cannon and its carriage was restored by the Australian National Maritime Museum and the City of Sydney as part of a Public Art program to maintain and preserve the City's artworks and historical monuments. The cannon is now a public monument located in Macquarie Place, Sydney.

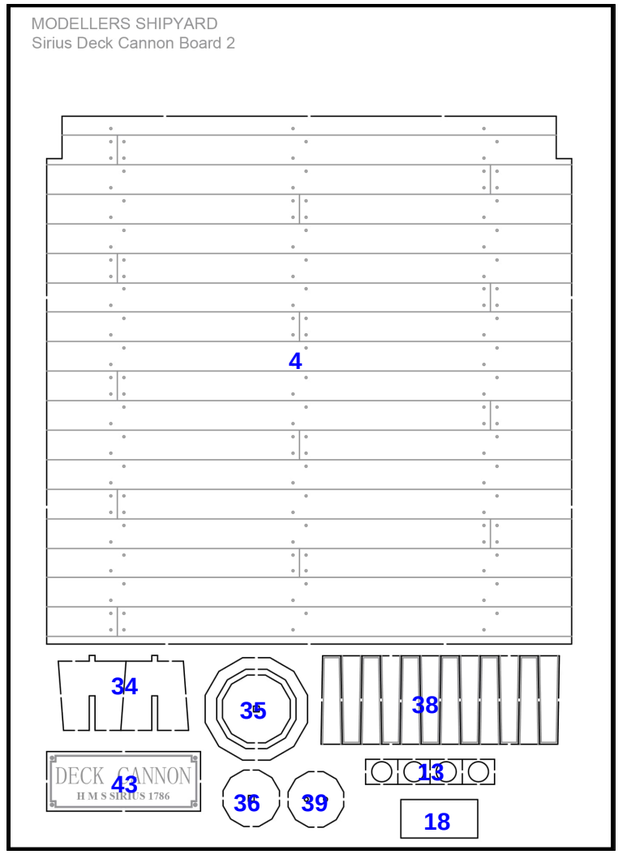
1.0 Parts List (Modellers Shipyard reserves the right to make changes to the instructions, components and/or kit contents at any time without notice)

Part No	Description	Quantity	Location
1	Base	1	Board 1
2	Bulwark	1	Board 1
3	Bulwark supports	2	Board 1
4	Deck	1	Board 2
5	Feet	4	Board 1
6	Teak - 0.5x5x150mm	30	Timber stock
7	Carriage cheeks	2	Board 1
8	Carriage rear base	1	Board 1
9	Carriage front base	1	Board 1
10	Carriage wheels - front	2	Board 1
11	Carriage wheels - rear	2	Board 1
12	Carriage transom	1	Board 1
13	Axle spacers	4	Board 2
14	Dowel - 5mm x 100mm	1	Timber stock
15	Quoin	2	Board 1
16	Walnut - 1x3x100mm	1	Timber stock
17	Quoin hand grip	1	Parts card
18	Quoin runner	1	Board 2
19	Not Used		
20	Eye pins	20	Parts card
21	Ring - 5mm	2	Parts card
22	Wheel pins	4	Parts card

Part No	Description	Quantity	Location
23	Waterway	1	Board 1
24	Cannon barrel	1	Parts card
25	Capsquare	2	Parts card
26	Wire - brass 1mm x 50mm	1	Parts card
27	Ring - 3mm	2	Parts card
28	Chain - 3mm x 50mm	1	Parts card
29	Cord - 0,25mm fawn	1	Parts card
30	Blocks - 7mm 2 hole	4	Parts card
31	Cord - 2mm x 800mm	1	Parts card
32	Hand spikes	2	Board 1
33	Dowel - 2mm x 100mm	1	Timber stock
34	Barrel frame	2	Board 2
35	Barrel base	1	Board 2
36	Barrel top	1	Board 2
37	Barrel collar	1	Board 2
38	Barrel sides	12	Board 2
39	Barrel lid	1	Board 2
40	Cannon ball rack	1	Board 1
41	Cannon balls	4	Parts card
42	Cord 0.5mm fawn	1	Parts card
43	Name plate	1	Board 2

2.0 Boards



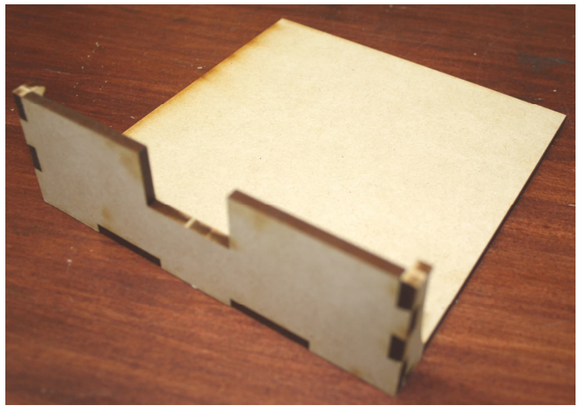


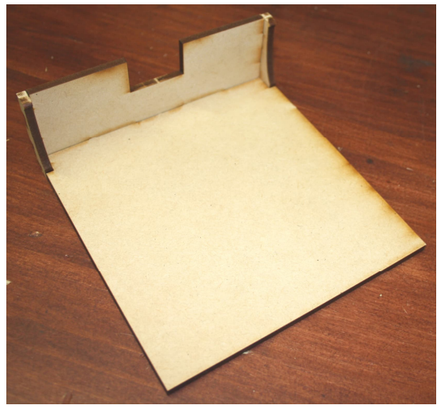
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3.0 Assemble Base, Bulwark & Bulwark Supports

Identify the base P1, bulwark P2 & bulwark supports P3. Dry fit these parts together. Once satisfied glue parts together. Allow to fully dry.

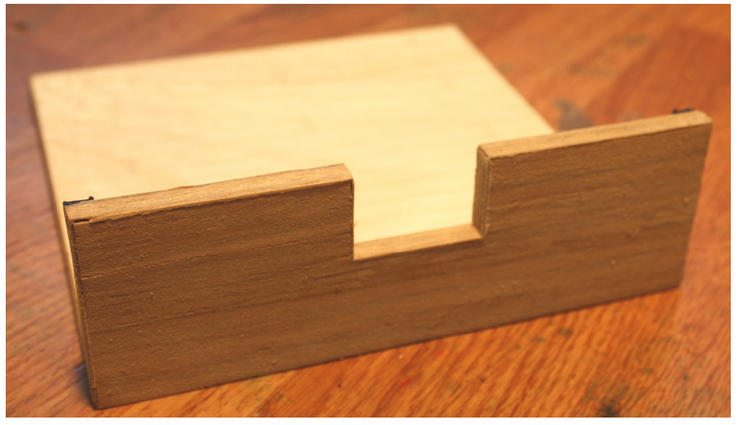




4.0 Deck and Bulwark Planking

Identify the deck P4. Dry fit in place. Once satisfied glue in place. Plank the inside and outside of the bulwark with 0.5x5mm teak timber strips P6. Also plank the edges of the base, the bulwark top, inside of gun port and the sides of the bulwark supports. Identify the base feet P5 and paint black. Once dry glue in place as the feet for the base. Paint the inside edge of the bulwark supports black.

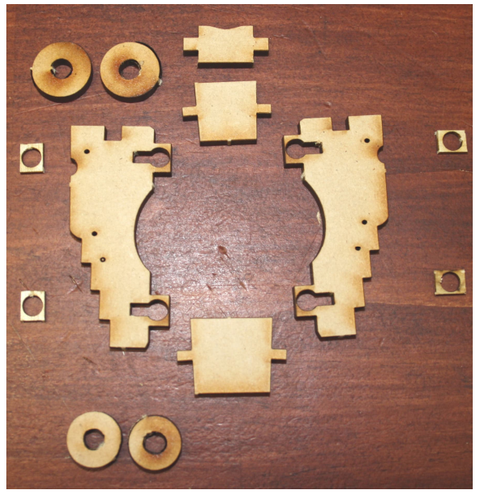
Once dry apply a light spray of clear satin or matt polyurethane finish to the deck and inside and outside of the bulwark.

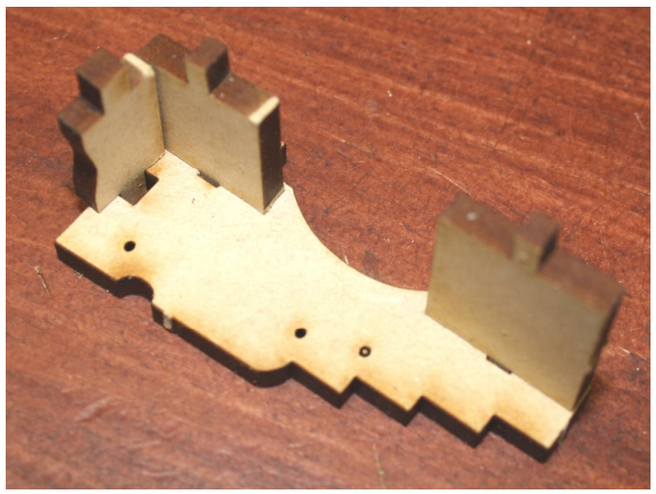


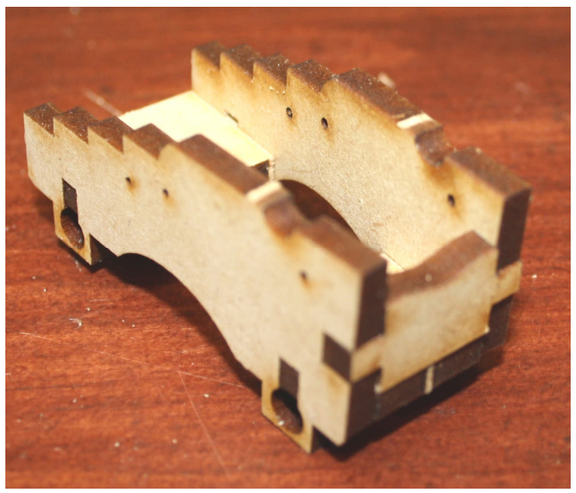


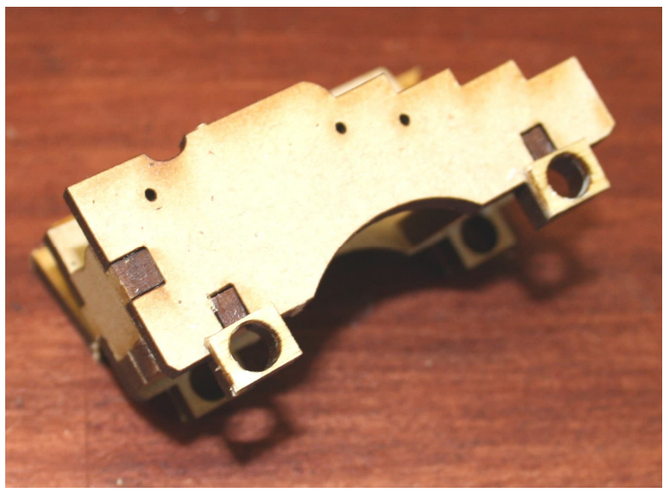
5.0 Cannon Carriage Assembly

Identify the cannon carriage parts P7 to P13. Assemble the cannon carriage - dry fit all parts. Once satisfied glue parts together. Allow to fully dry. Fit and glue the axel spacers P13 in place. Once the cannon carriage is dry use wood filler to fill any gaps and use sandpaper to give a smooth finish.







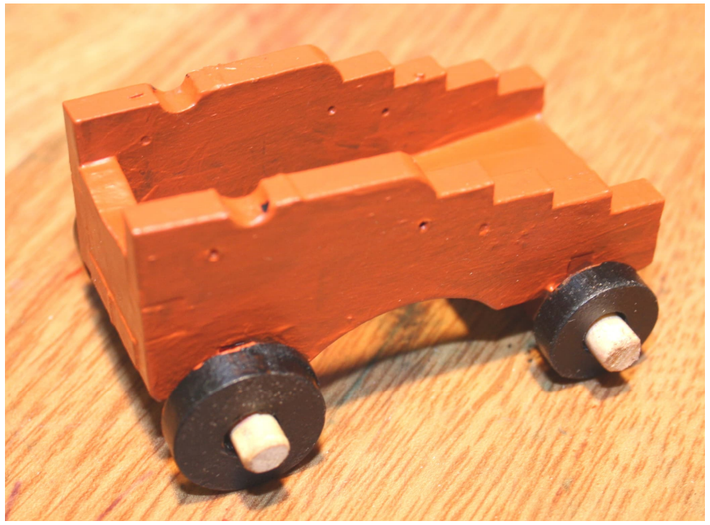


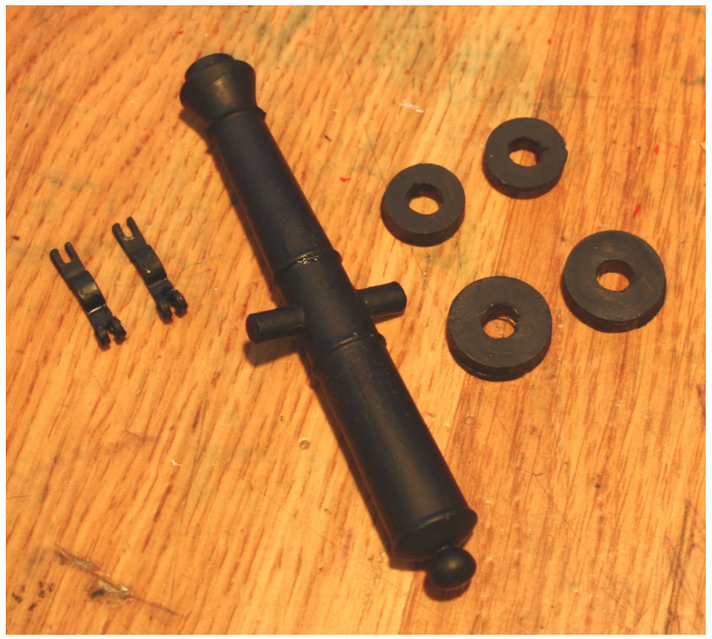
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6.0 Cannon Carriage

Paint the cannon carriage a red. Paint the wheels P10 & P11, cannon barrel P24 and capsquares P25 black. Use the 5mm dowel P14, cut a 45mm length for the front axle and a 50mm length for the rear axle. Fit and glue in place the axels and wheels.





7.0 Quoin

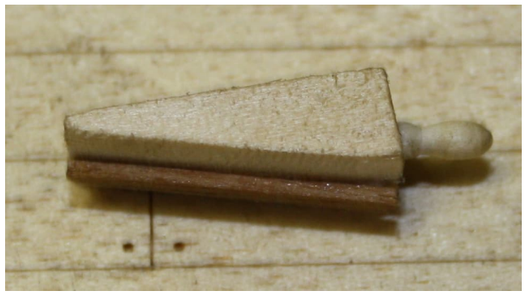
The quoin is a wooden wedge which is moved in or out to adjust the elevation or depression of the cannon barrel. Identify the quoin P15 - glue the parts together as shown. Identify 1x3mm walnut P16 - cut a length 20mm. Glue this length along the centre of the wedge as shown. Drill a 1mm hole in the centre of the rear face of the wedge and glue the hand grip P17 in place.

8.0 Quoin Runner

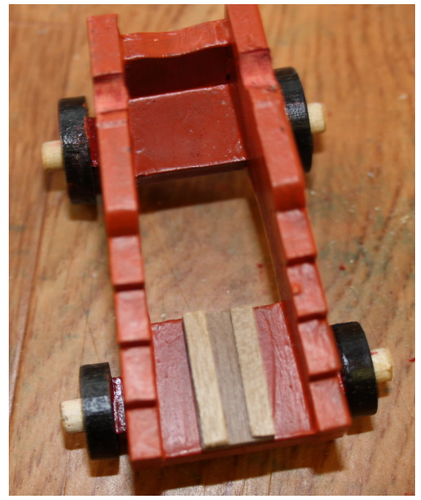
Identify P18 - stain walnut. Identify 1x3mm walnut P16 - two 20mm lengths. Glue these lengths in place as shown. Fit the quoin runner in place as shown. Glue the quoin in place as shown.





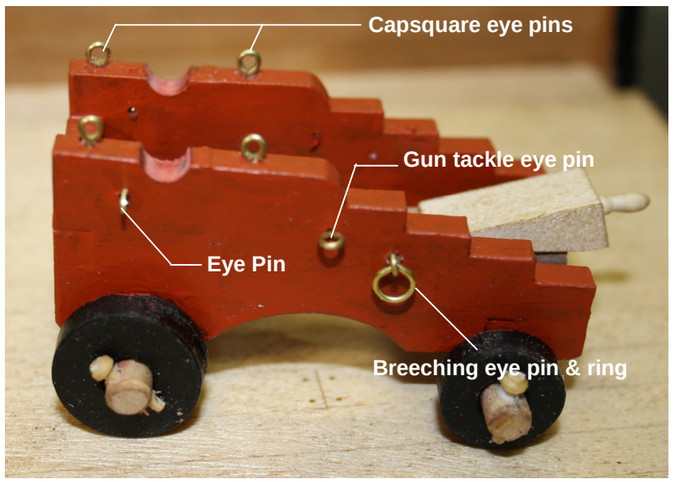


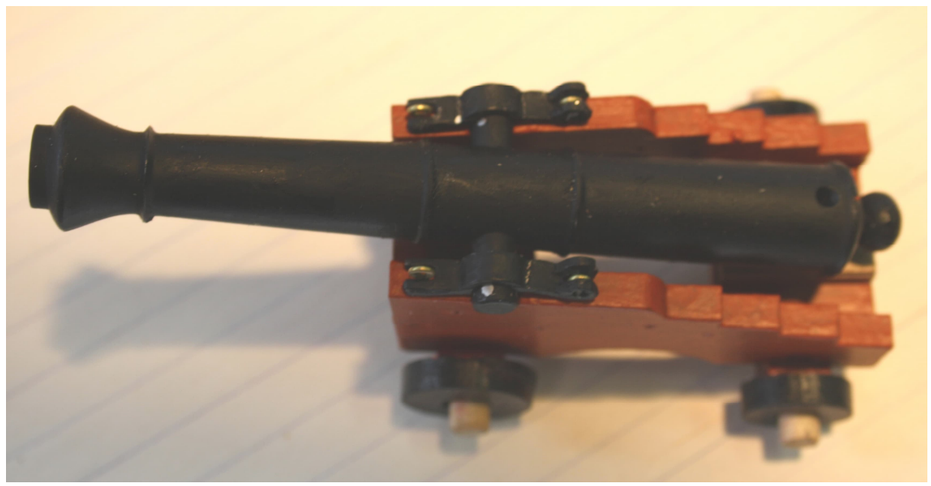




9.0 Cannon Carriage Fittings

The next step is to fit the eye pins and rings to the carriage. Identify the eye pins P20.Fit all eye pins as shown on the cannon carriage. Identify the breeching brass ring P21. Note: To determine the location of the capsquare eye pins temporarily fit the cannon barrel in its location and place each capsquare in place - mark the location of the holes to be drilled to accept these eye pins. Identify the wheel pins P22. Drill a hole in each end of the axle to accept the pins. Cut-off the top of the pin and shape as shown. Glue each pin in place.





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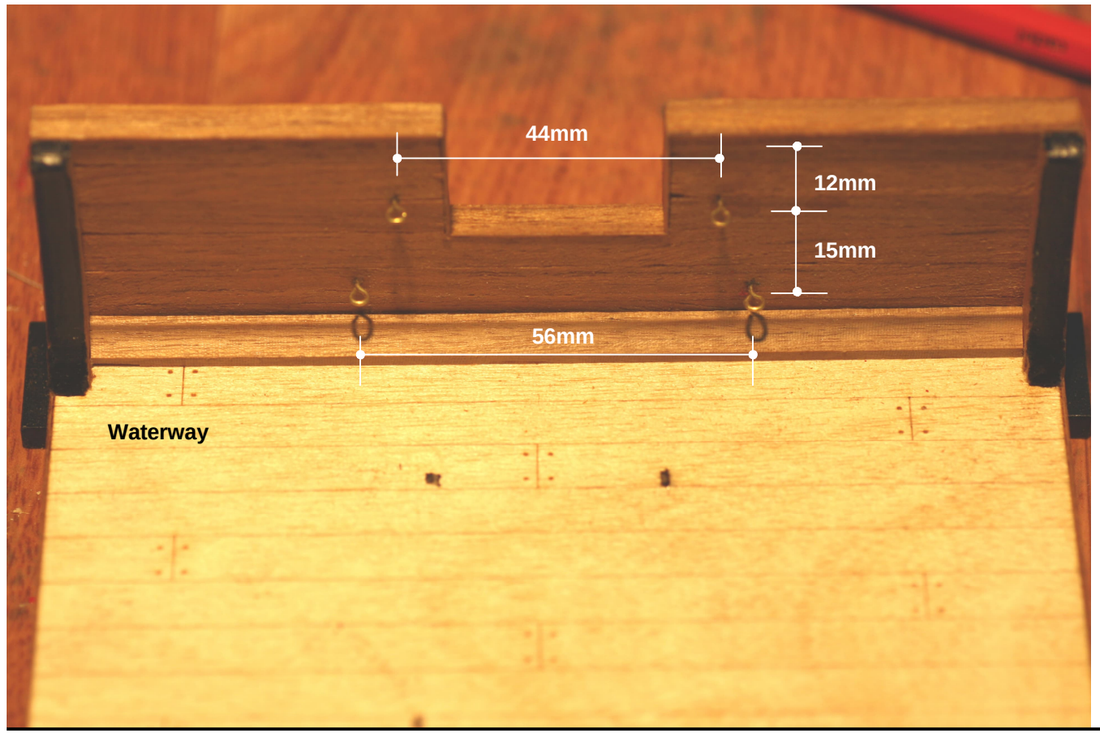
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10.0 Bulwark Fittings

The next step is to fit the waterway and the bulwark gun tackle and breeching anchor points.

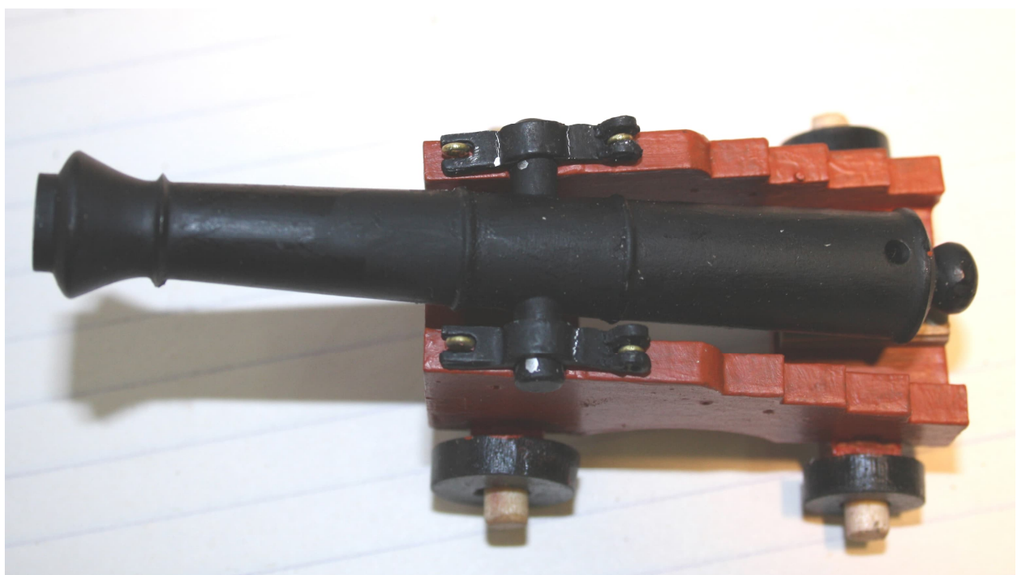
To fit the waterway identify P23. Shape to between the bulwark supports at the base of the bulwark and deck joint. Glue in place once satisfied.

Fit eye pins as shown into the bulwark as the gun tackle and breeching anchor points.



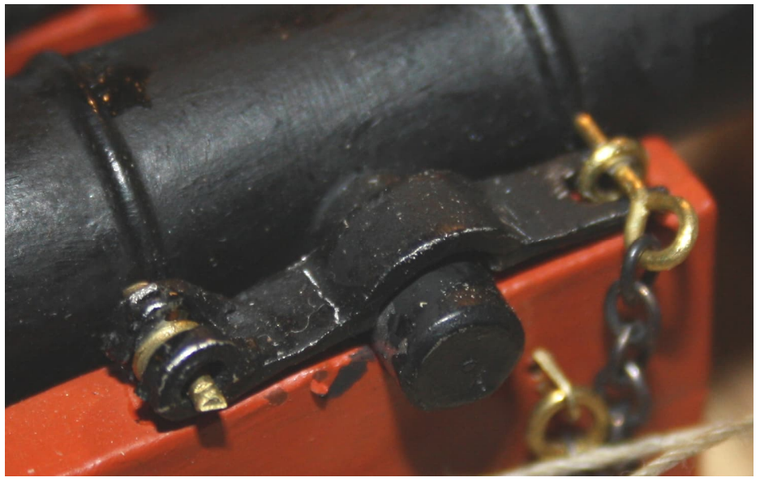
11.0 Cannon Barrel

The next step is to fit the cannon barrel P24, capsquares P25 and eye pins. Place the barrel in its carriage location. Place the capsquares in place.



12.0 Cannon Barrel Fittings

Identify the 1mm brass wire P26 - cut 2 lengths 7mm long. Fit this wire through the capsquare & rear eye pin to create a hinge. Repeat for the other side of the carriage. Identify the 3mm brass rings P 27. Fit this ring to the eye pin as shown. Identify the black chain P28 - cut two lengths 20mm long. Fit one end of the chain to the ring attached to the eye pin and the other end to an eye pin as shown. Fit the eye pin and chain as shown.





13.0 Gun Tackle

The next step is to prepare the blocks for the gun tackle. Take 4 eye pins P20 and shape as shown. Using a 50mm length of 0.25mm cord P29 tie the shaped eye pin central to the length of the cord as shown. Prepare 4 eye pins this way.

Identify the 7mm 2 hole blocks P30. Take the four prepared eye pins with ties and tie around the block as shown. Seal the cord knots with a dab of PVA glue. Trim-off any excess cord.





14.0 Breeching Rope

The next step is to prepare the breeching rope and hooks. Use a length of 1mm brass wire P26 to shape 2 hooks as shown. Cut a 250mm length of 2mm cord P31. Cut a second length 40mm long and use 0.25mm cord P29 to tie a loop central to the main length of cord. Tie the two brass hooks previously shaped to each end of the main length using 0.25 mm cord P29.





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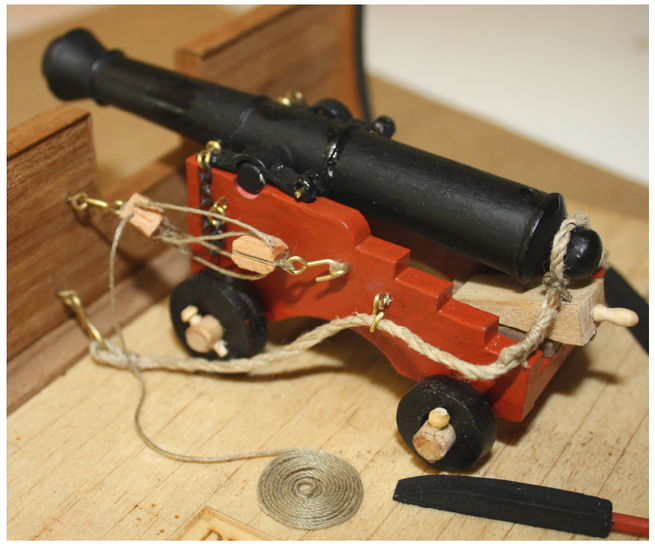
15.0 Cannon Tackle

Taking two of the previously prepared blocks and using 0.5mm cord P42 reeve the blocks together as shown. Keep the tackle loose until it is fitted to the model.



16.0 Rigging the Cannon

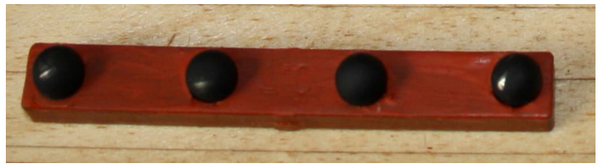
The next step is to rig the cannon. Attach one end of the tackle hooks to the upper bulwark eye pins and the other to the central eye pin as shown. Repeat for the other side of the carriage. Coil the tackle rope as shown. Attach the breeching rope hooks to the lower bulwark eye pins as shown. Feed rope through 3mm ring P27. Fit rope around the cascable of the barrel and tie-off as shown.





17.0 Cannon Ball Rack

Identify the cannon ball rack P40 and paint red. Identify the cannon balls P41 and paint them black. When both items are dry glue the cannon balls in place on the rack. Locate rack as shown.

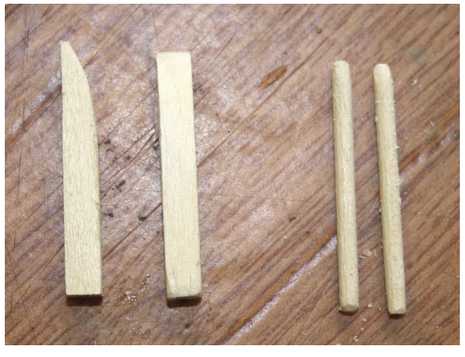


18.0 Hand Spikes

The hand spikes were used to manoeuvre the cannon carriage into place and as a lever to raise the rear of the barrel to adjust the quoin. To make the lever end of the hand spikes identify P32. Use a file to shape as shown. Drill a 2mm hole into the centre of the square end face to a depth of approximately 4mm. Paint these pieces black.

Identify the 2mm dowel P33 and cut two 35mm lengths. Slightly taper one end of each handle to fit into the hole of the lever end. Glue the handle into the lever end. Paint the handle red

Locate the hand spikes as shown.



19.0 Bucket

Identify the bucket parts P34 - P39. Fit and glue the parts as shown. Use a file to create a chamfer on the edges the barrel side pieces P38. Glue the side pieces in place - identify the barrel collar P37 - fit over the assembled barrel to hold the sides in place while the glue sets. Paint the lid P39 black as shown. Use a length of 0.5mm cord P42 to make a handle as shown. Glue the top in place. Use 0.5mm cord to wrap around the bucket as shown. Fit the bucket in place on the deck as shown.



20.0 Finishing Touches

Use 2mm cord P31 to make a rope coil. Locate the rope coil and name plate P43 on the deck as shown.



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