River Class Off Shore Patrol Vessel
H.M.S. SEVERN
1/350 Scale

HMS Severn was the second of three Batch 1 vessels of the River class Off Shore Patrol Vessels brought into service to replace the aging Island class Patrol ships of the Fisheries Protection Squadron. The three ships HMS Tyne, Severn and Mersey were built by Vosper Thorneycroft at it's Woolston shipyard as a private venture, leasing the ships to the Royal Navy for five year periods. On expiry of the lease the Royal Navy had the option to purchase the ships outright or return them. HMS Severn was commissioned into the Royal Navy on 31st July 2003 at a ceremony in Portsmouth.

Between 2005 and 2006 Severn spent a total of 225 days at sea on fisheries protection patrols, proving the usefulness of the class so that in 2012 the Royal Navy purchased the ships outright. In 2014 HMS Severn was deployed overseas and took up station in the West Indies Guardship role, a duty traditionally performed by a Frigate or Destroyer, thus releasing these ships to perform their primary roles. Severn carried out patrols in the Caribbean, being on standby for disaster relief, to intercepting all forms of illegal trafficking, until 31st July 2015 when she returned to Portsmouth.

Up until 2017 Severn was employed on Fisheries Protection duties around the UK and also carried out a large drug intercept which was a joint operation with French customs. She was also used to escort the occasional Russian warship through the English Channel. On the 27th October 2017 HMS Severn was decommissioned at Portsmouth Naval Base and placed in reserve. Six months later a funding allocation was made to preserve Severn and also her sister ships if they should be required to enforce and control the borders around the UK following the withdrawal from the EU.

HMS Severn was reactivated and refitted during 2019, the first RN Warship to be brought out of reserve for nearly 40 years. She joined the fleet again in 2020, and worked up to pass her Operational Sea Training in July 2020, although her actual recommissioning didn't take place until August 2021 in the Pool of London alongside HMS Belfast. She has been painted in a Western Approached camouflage scheme in tribute to those in the Battle of the Atlantic, a unique scheme that identifies her readily from her sisters. She is still in service to date.

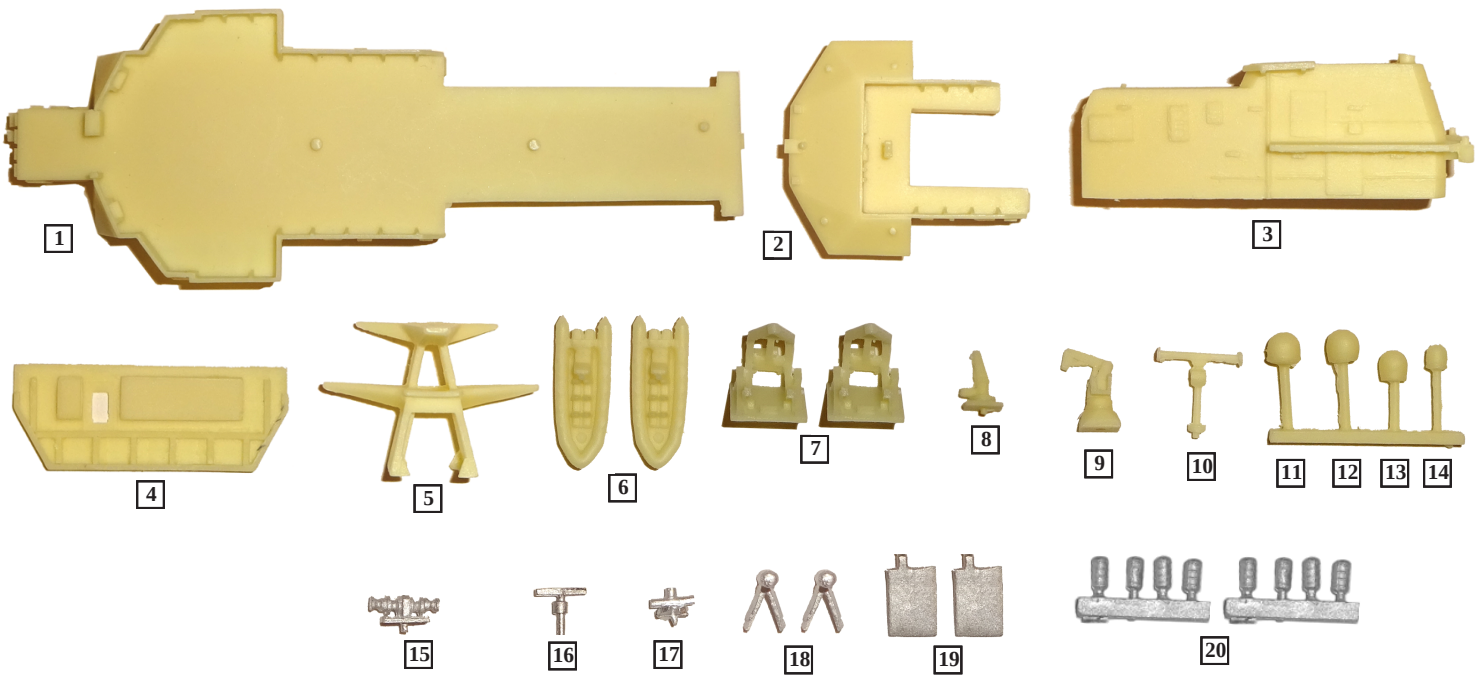
Specifications

Length: 79.5m (260ft 10in) Beam: 13.5m (44ft 3 in) Draught: 3.8m (12ft 6in) Propulsion is by 2 x Ruston 12RK270 Diesel Engines Speed: 20 kts (23mph) Range: 5,500 nautical miles . Boats = 2 x Pacific 24 RHIB Complement of 30 Officers and Ratings but can also carry 20 troops if required.

Armament

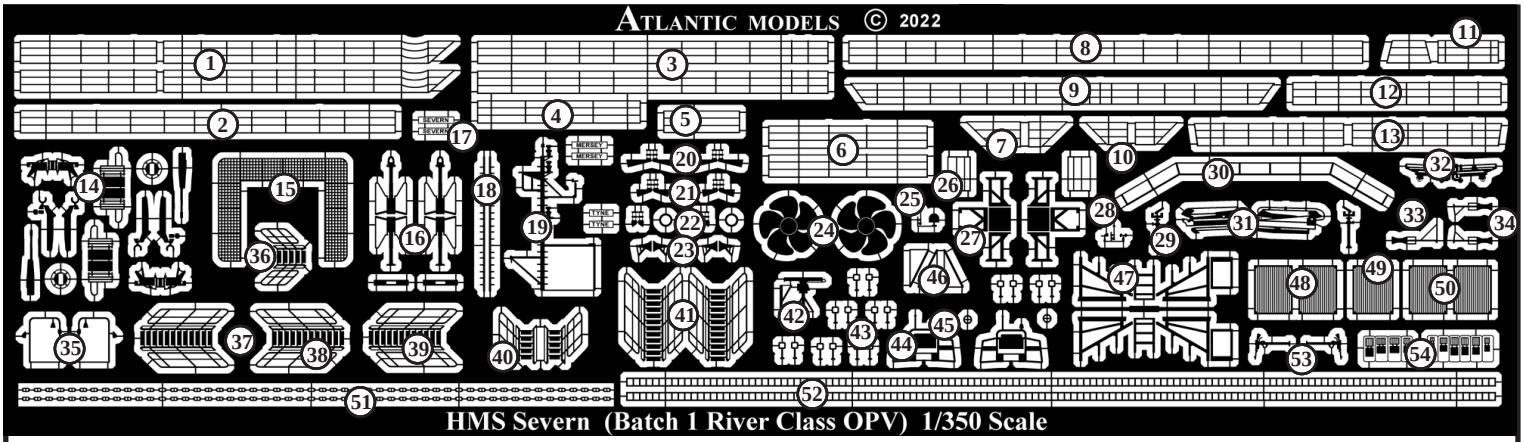
1 x 20mm Oerlikon B-MARC Cannon 2 x General Purpose Machine Guns

Resin and White Metal Parts



1. Lower Superstructure
2. Bridge
3. Upper Superstructure and Exhaustl Uptakes
4. Deck Overhang
5. Main Mast
6. Pacific 24 RHIBs
7. RHIB Cradles
8. 16 Ton Crane Base
9. 25 Ton Crane Base
10. Main Radar Antenna
11. Large Radome
12. Nav Radome
13. Medium Radome
14. Small Radome
15. Anchor Windlass
16. Navigation Radar
17. Bow Thruster
18. Propeller A Frames
19. Rudders
20. Life Raft Canisters

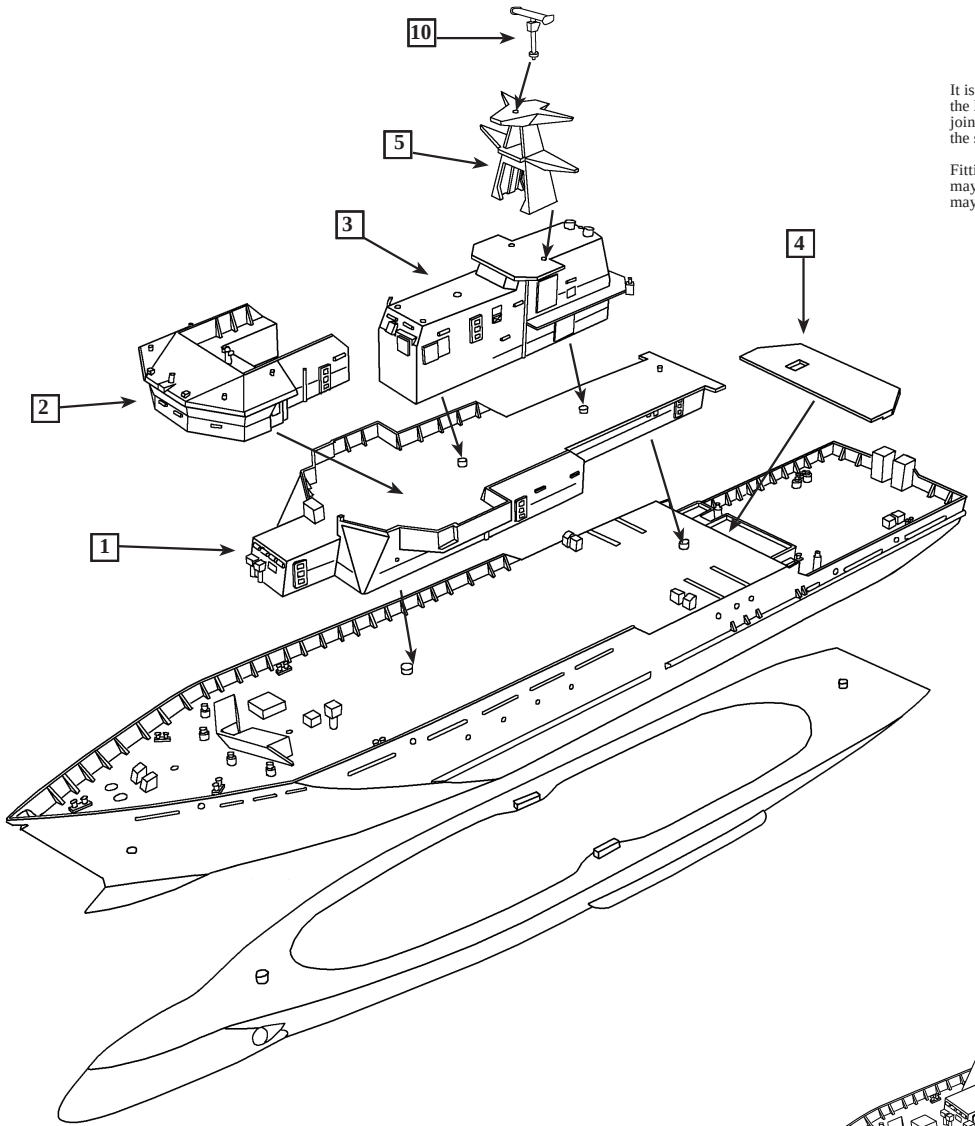
Photo Etched Metal Parts



HMS Severn (Batch 1 River Class OPV) 1/350 Scale

1. Railings (Boat Deck Sides)
2. Railings (Boat Deck Aft)
3. Railings (Lower Superstructure)
4. Railings (Lower Superstructure)
5. Railings (Bridge Front)
6. Railings (Life Raft Enclosures)
7. Railings (Bridge Ladderway)
8. Railings (Upper Catwalk)
9. Railings (Upper Structure Forward)
10. Railings (Lower Ladderway)
11. Railings (Mast Mid Platform)
12. Railings (Mast Top Platofrm)
13. Railings (Mast Bottom Platform)
14. 20mm B-MARC Gun
15. 20mm Safety Nets
16. Anchors
17. Ships Name Plates
18. Mast Top Side Strips
19. Mast Top Array
20. Mast Sensors (Upper)
21. Mast Sensors (Middle)
22. Mast Sensors (Lower)
23. Mast ECM Aerials
24. Propellers
25. Port Yardarm Sensors
26. RHIB Platform Railings
27. RHIB Access Platforms
28. Starboard Yardarm Sensors
29. Fire Fighting Guns
30. Flying Bridge Windscreen
31. 25 Ton Crane Jib
32. 16 Ton Crane Jib
33. Mast Yardarm Sensor 1
34. Mast Yardarm Sensor 2
35. RHIB Painter Bars
36. Inclined Ladder (Mast Base)
37. Inclined Ladder (Catwalk Port)
38. Inclined Ladder (Bridge Stbd)
39. Inclined Ladder (Quaterdeck)
40. Inclined Ladder (Temp)
41. Inclined Ladders (Lower Structure)
42. Nav Radar (Alt)
43. RHIB Hand Holds
44. RHIB Righting Bar
45. RHIB Steering Wheel
46. Main Radar Antenna Braces
47. Life Raft Canister Racks
48. Vent Grills (Port Structure)
49. Vent Grills (Aft Structure)
50. Vent Grills (Stbd Structure)
51. Anchor Chain
52. Vertical Ladder (Stock)
53. GPMG Mountings
54. Break Water Locker Hatches

Main Structural Parts

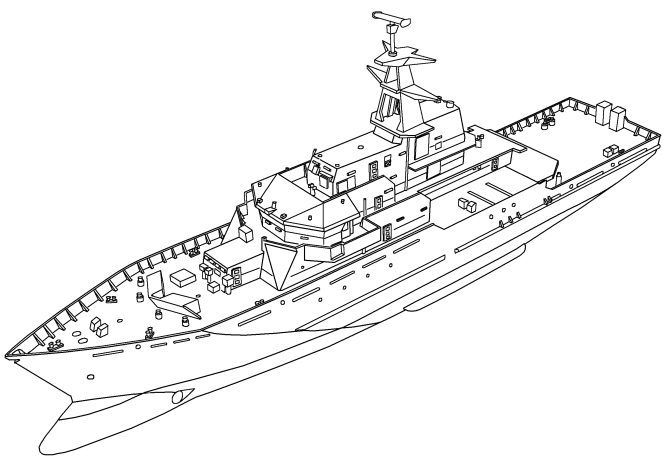


It is recommended that if the ship is to be modeled in full hull form, that the lower hull be joined to the upper hull first of all. Any seam along the join line may then be filled and blended in, before any construction of the smaller parts takes place.

Fitting of the larger parts such as the Bridge or Upper Superstructure may take place at an early stage so that the smaller parts and details may be added around them.

Fit the Deck Overhang section, resin part 4, into place before fitting the Lower Superstructure.
To fit the Bridge into place, first locate and secure the Upper Superstructure unit, resin part 3, into place on the Lower Superstructure. Slide the Bridge into place from the front with the two extensions on each side of the Upper Superstructure.

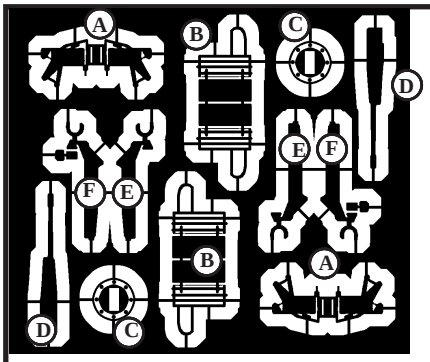
When the model has been constructed to the stage of fitting the mast into place, assemble the mast according to the diagrams in further sections.
Fit the assembled mast down to the deck using the locating pegs on the rear legs into the holes in the deck.



General Precautions

When assembling a Resin / Photoetched metal kit, certain precautions must first be taken.
1. Resin dust can be harmful if inhaled. It is recommended that you wear a suitable dust mask when drilling or sanding resin parts.
2. Cyano adhesives (super glues) are generally used to assemble this type of kit. Care must be taken when using this type of adhesive as it will bond in seconds. Follow the advice on the container.
3.Wash resin parts in a solution of warm soapy water before assembly. This will remove any residual mold release agents and ensure a good key for painting.
4. Soak photoetch parts in a suitable solvent, such as white spirit, to degrease the surfaces prior to painting.

20mm Oerlikon GAMBO1 Mounting Assembly



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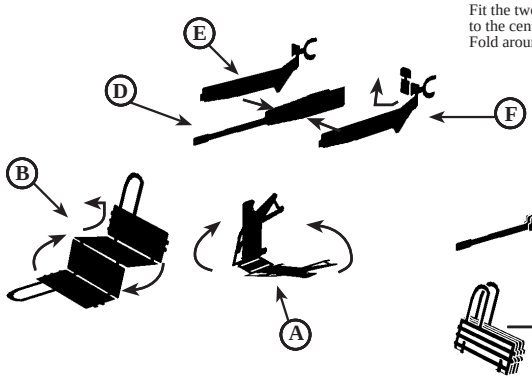
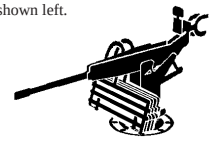
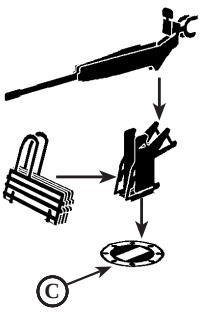


Fold up the sides of the gun mounting to 90º so that they are parallel. Fold the panels of the ammunition magazine in a concertina fashion as shown above so that the relief etch on the outer panels comes to the outside faces.

Fit the two opposing side plates and shoulder braces to the central gun barrel component as shown left. Fold around the sight front plate to 90º.

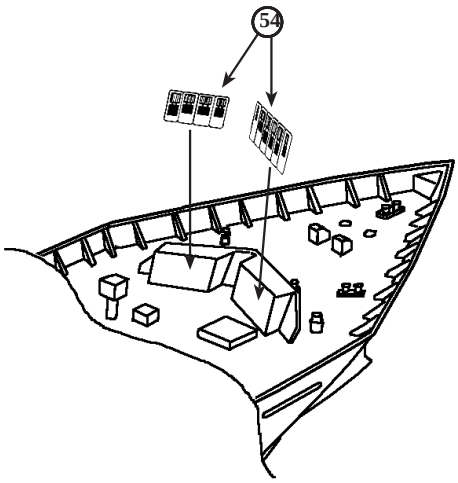


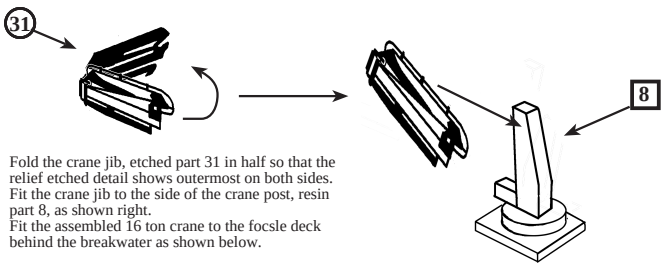


Fit the gun barrel assembly into the top of the mounting so that the shaped parts align as shown above.
Fit the gun mounting to the relief etched rectangle on the circular base plate. Fit the magazine to the angled front stays on the gun mounting as shown, so that the ammunition belt guides are on the right hand side of the gun.

Bow and Fo'c'sle Fittings

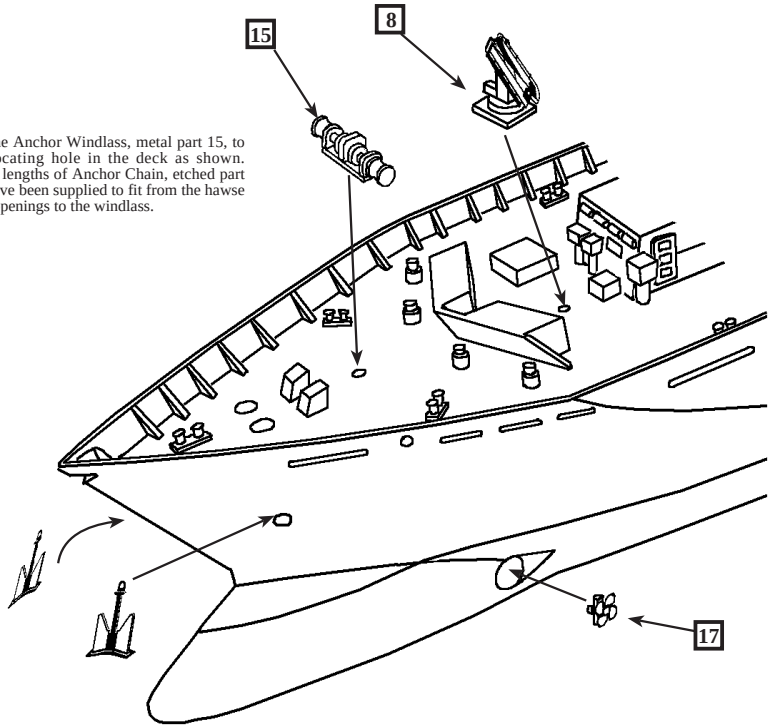
Fit the ventilator hatch clusters, etched parts 54, to the rear of the breakwater boxes as shown below with the smaller of the two fitted on the port box.



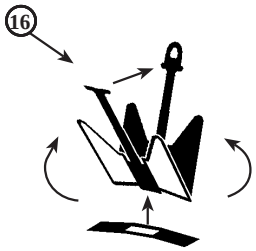


Fold the crane jib, etched part 31 in half so that the relief etched detail shows outermost on both sides. Fit the crane jib to the side of the crane post, resin part 8, as shown right.
Fit the assembled 16 ton crane to the focsle deck behind the breakwater as shown below.

Fit the Anchor Windlass, metal part 15, to the locating hole in the deck as shown. Stock lengths of Anchor Chain, etched part 51, have been supplied to fit from the hawse pipe openings to the windlass.

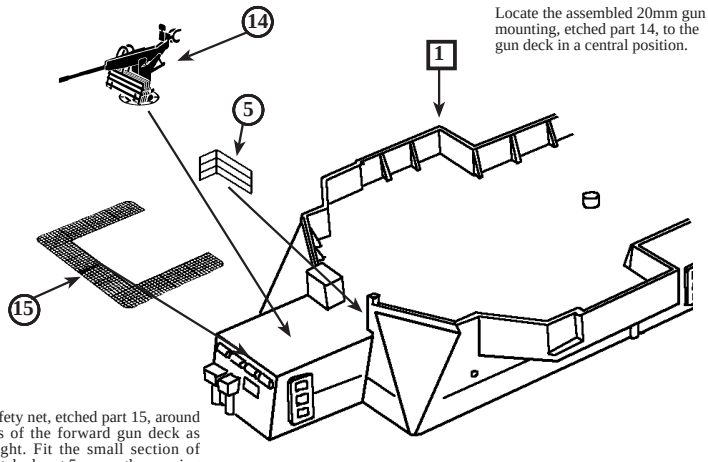


Fold the Anchors, etched parts 16, in half so that the relief detail is outermost. Fit the tipping plate to the base of the anchor so that the lug passed through the slot in the plate. Drill out the Hawse Holes in the sides of the bow using a 1mm drill bit, then fit the anchor shanks into the holes so that the anchors fit flush against the sides of the hull.



Drill and clean out the central barrier that is inside the Bow Thruster aperture and smooth the inside.
Fit the Bow Thruster Propeller, metal part 17, inside the aperture so that the mounting pillar is vertical and located on the ships centre line.

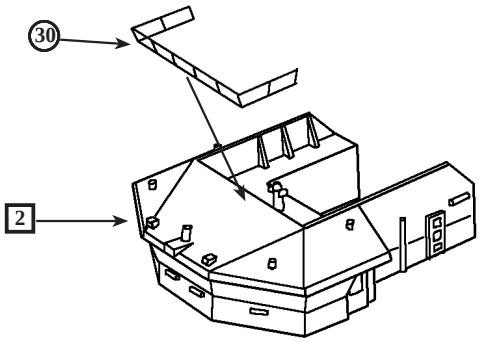
20mm Gun Deck Fittings



Locate the assembled 20mm gun mounting, etched part 14, to the gun deck in a central position.

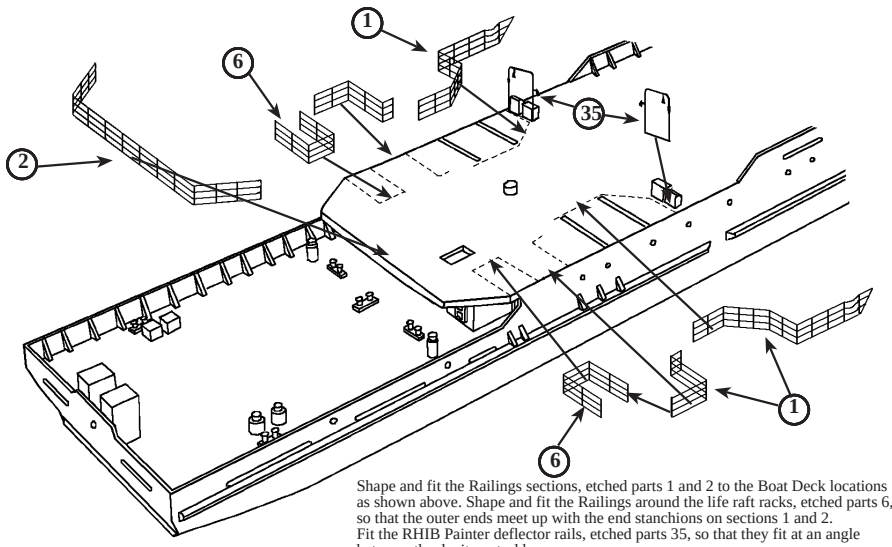
Fit the safety net, etched part 15, around the edges of the forward gun deck as shown right. Fit the small section of Railing, etched part 5 across the opening at the rear of the gun deck.

Bridge Windows



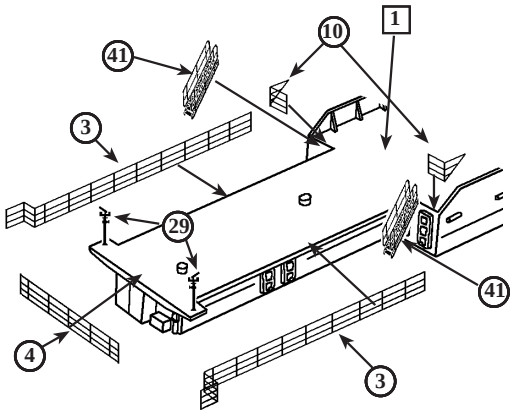
Shape and fit the Flying Bridge Windscreen, etched part 30, to the rim of the Flying Bridge as shown above. Note that the windscreen is angled outwards towards the top, front and sides.

Boat Deck Railings



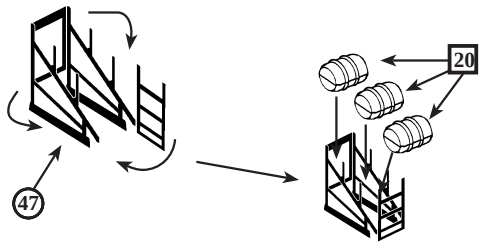
Shape and fit the Railings sections, etched parts 1 and 2 to the Boat Deck locations as shown above. Shape and fit the Railings around the life raft racks, etched parts 6, so that the outer ends meet up with the end stanchions on sections 1 and 2.
Fit the RHIB Painter deflector rails, etched parts 35, so that they fit at an angle between the davit control boxes

Lower Superstructure Railings



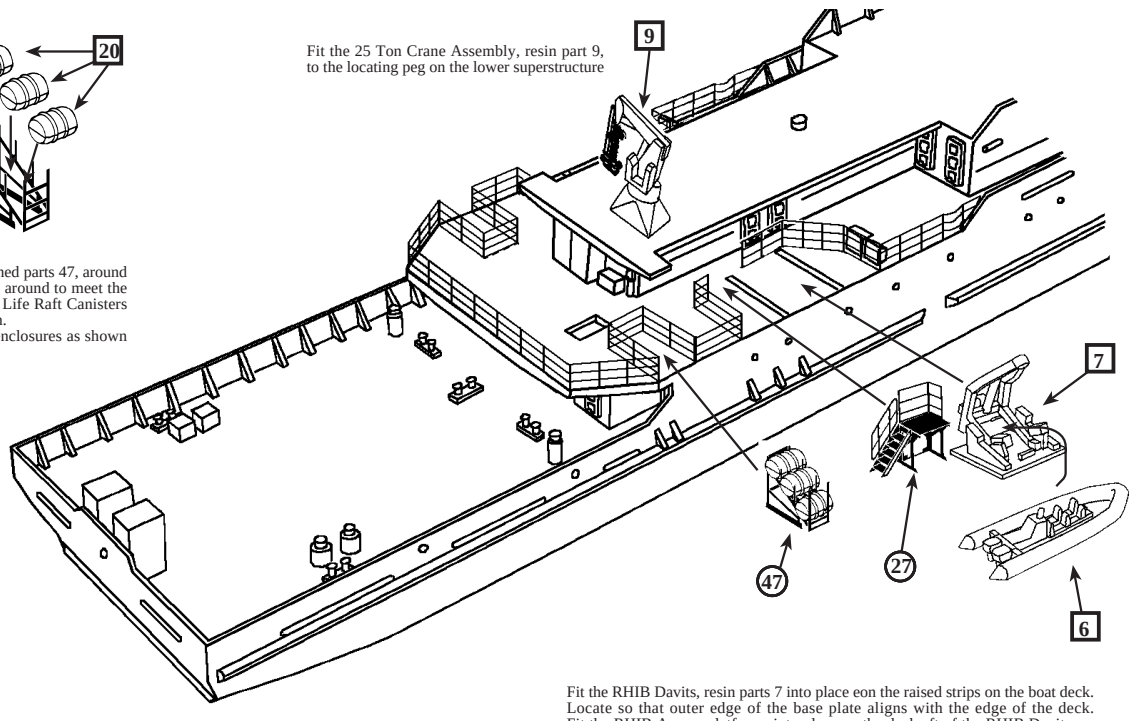
Shape and fit the Railings Sections, etched parts 3 and 4, around the aft edges of the lower superstructure.
Shape and fit the small sections of railing, etched parts 10, to the corners of the ladder accesses on the lower superstructure.
Fit the Fire Fighting Guns, etched parts 29, to the extended platforms on the aft part of the lower superstructure as shown above

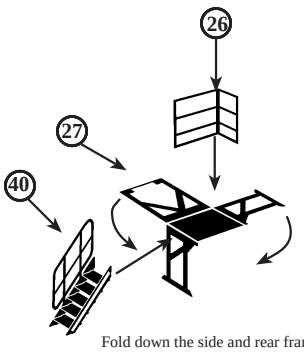
RHIB and Life Raft Locations



Fold the two side frames on the Life Raft Racks, etched parts 47, around to 90º so that they are parallel. Fold the front frame around to meet the opposite side frame and secure into place. Fit three Life Raft Canisters metal parts 20, into their respective holders as shown.
Make two of these and fit them into the railed off enclosures as shown right.

Fit the 25 Ton Crane Assembly, resin part 9, to the locating peg on the lower superstructure

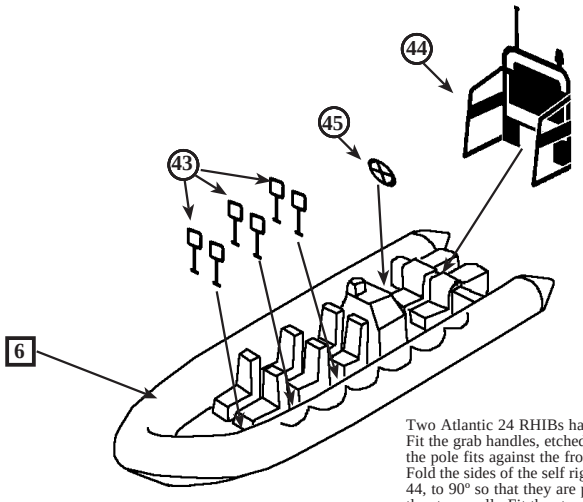




Fold down the side and rear frames of the RHIB Access platform, etched part 27. Secure into place down the corners. Shape and fit the railing section, etched part 26, as shown. Shape and fit the Inclined Ladder, etched part 40, to the rear edge of the platform. Make two of these, but as mirror images of each other so that the open sides are outermost when fitted in place.

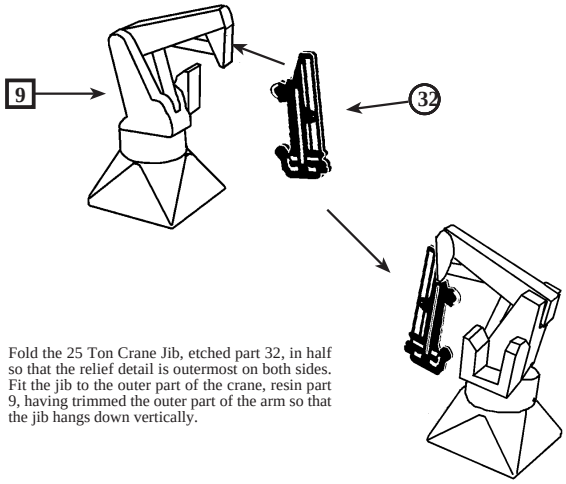
Fit the RHIB Davits, resin parts 7 into place eon the raised strips on the boat deck. Locate so that outer edge of the base plate aligns with the edge of the deck. Fit the RHIB Access platforms into place on the deck aft of the RHIB Davits, so that the forward support is against the aft inner corner of the davit base plate. This should position the access platform alongside the rear inner side of the RHIB when it is fitted into the davit cradle. Adjust as necessary.
Fit the assembled RHIBs, resin parts 6, in to the cradles fitted to each side of the boat deck.

24’ Pacific RHIB Assembly



Two Atlantic 24 RHIBs have been included in this kit. Fit the grab handles, etched parts 43, so that the foot of the pole fits against the front of each of the crew seats. Fold the sides of the self righting roll frame, etched part 44, to 90º so that they are parallel then fit into place at the stern wall. Fit the steering wheel, etched part 45 to the console.

25 Ton Crane Assembly

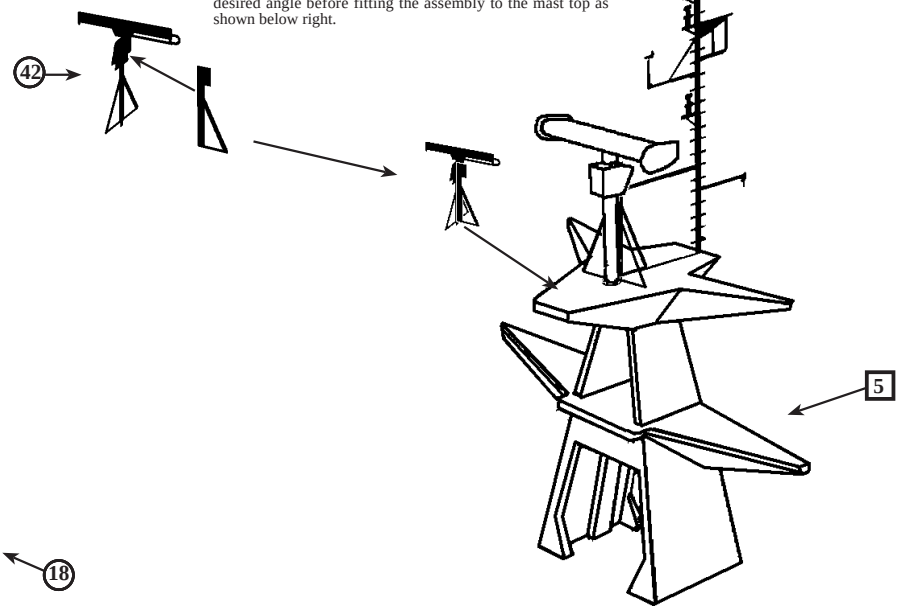


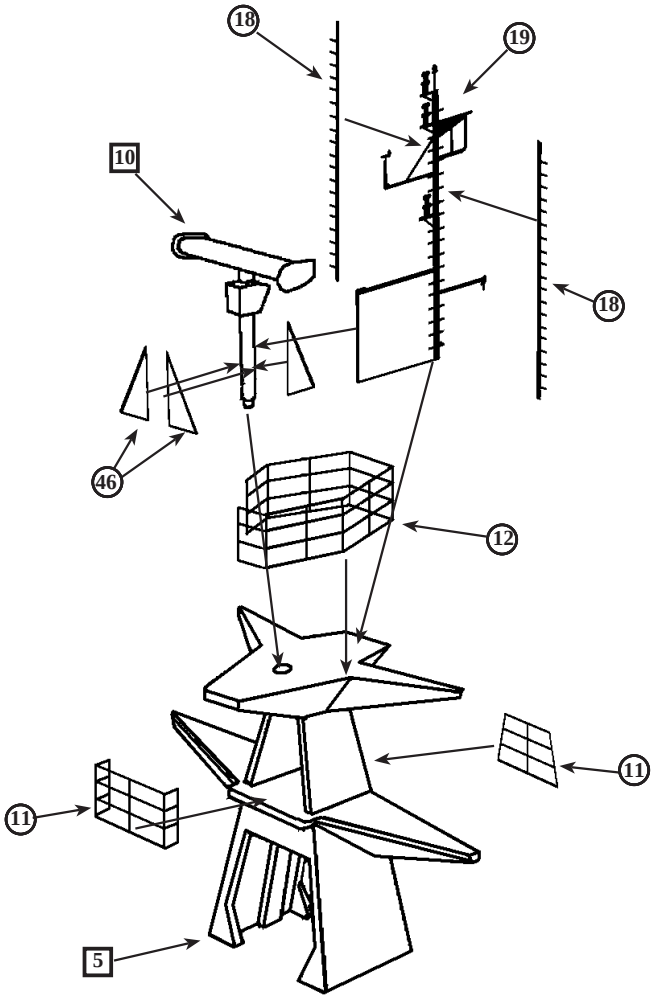
Fold the 25 Ton Crane Jib, etched part 32, in half so that the relief detail is outermost on both sides. Fit the jib to the outer part of the crane, resin part 9, having trimmed the outer part of the arm so that the jib hangs down vertically.

Mast Assembly and Radar Fittings

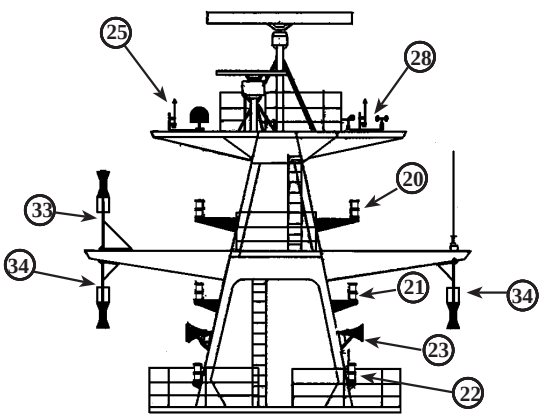
When assembling the fixtures and fittings to the mast, some may find it easier to do before fitting the mast to the superstructure. First off all, fit the two side strips, etched part 18, to each side of the mast top array as shown, so that each strip is 90º to the centre pole.
Fit the Mast Top Array, etched part 19, so that the rectangular front frame butts up against the Radar Antenna, resin part 10. The single angled support from etched parts 46 can then be fitted against the rear of the radar antenna pole.
Fit the two angled supports to each side of the radar antenna pole. Shape and fit the Railing Section, etched part 12, to fit around the mast top platform as shown below. This railing section does not go all the way around, but has an opening on the starboard forward side to allow the Navigation Radar Antenna, etched part 42 to fit.

Fit the small angled support of the Navigation Radar Antenna etched part 42, to the inside of the vertical pole at 90º to the main upright. You can twist the actual antenna around to the desired angle before fitting the assembly to the mast top as shown below right.

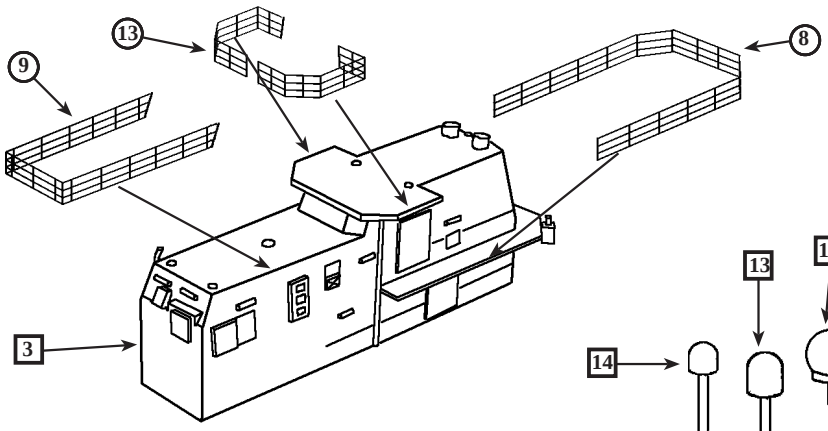




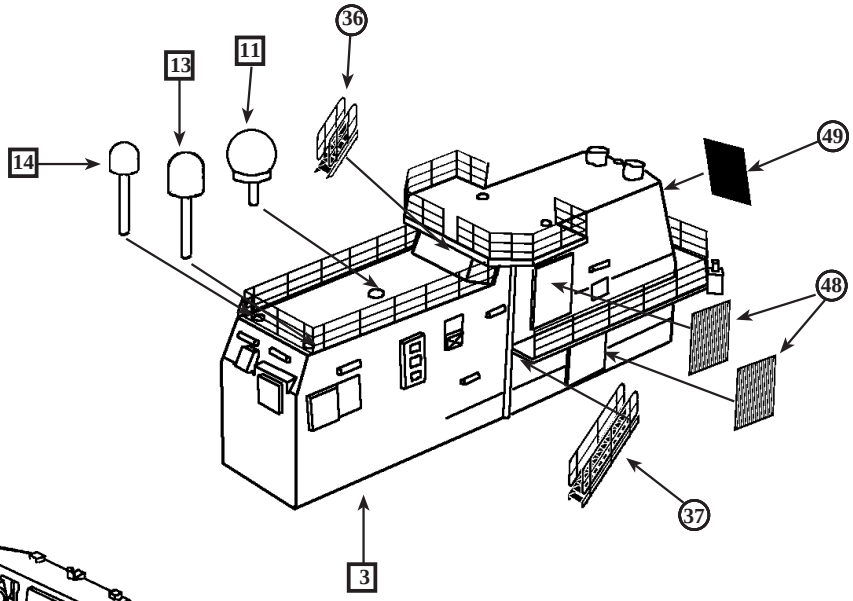
Fit the small weather vanes and sensors, etched parts 25 and 28, centrally to the upper yardarms as shown in the diagram below.
Fit the Electronic Sensors, etched parts 20, 21and 22 centrally to each side of the mast in the vertical positions shown below.
Fit the Lower Yardarm Antennas, etched parts 34, to the undersides of the lower yardarms as shown, with the single antenna, etched part 33, being fitted to the upper side of the starboard lower yardarm only.
Fit the ECM Horns, etched parts 23, centrally to each side of the mast. The small circular disc fits to the outer edge of the horn giving a better 3D effect.



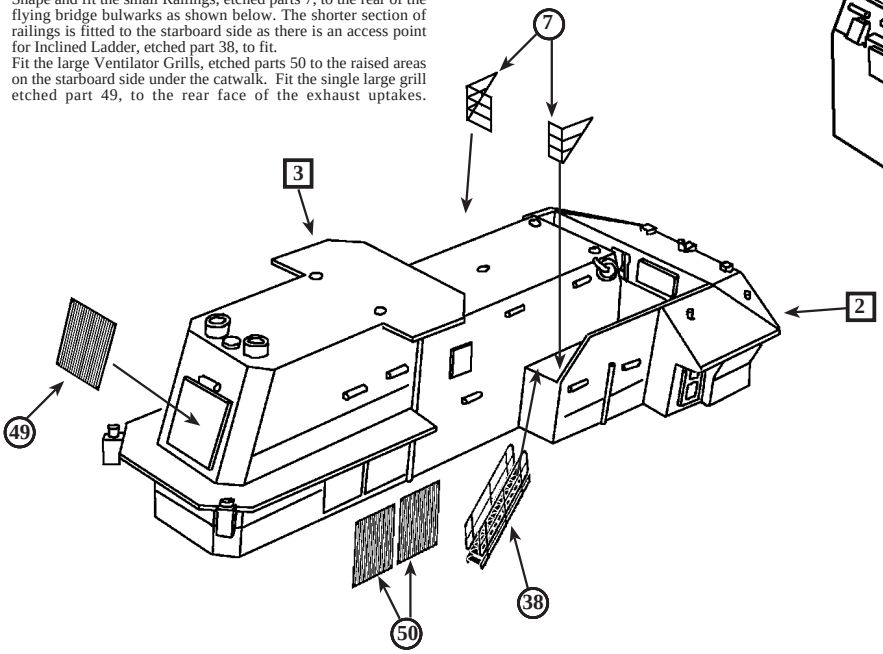
Upper Superstructure Railings and Fittings



Shape and fit the Railing Section, etched part 9, to the forward deck area of the Upper Superstructure, resin part 3, so that the angled end stanchions fit under the mast platform against the angled bulkheads.
Shape and fit the Railings, etched parts 13, to the edges of the mast platform, allowing an opening at the front for an inclined ladder. The angled rear ends will fit against the mast sides, when fitted in place.
Shape and Fit the Railing section, etched part 8, to the catwalk around the rear of the upper superstructure.



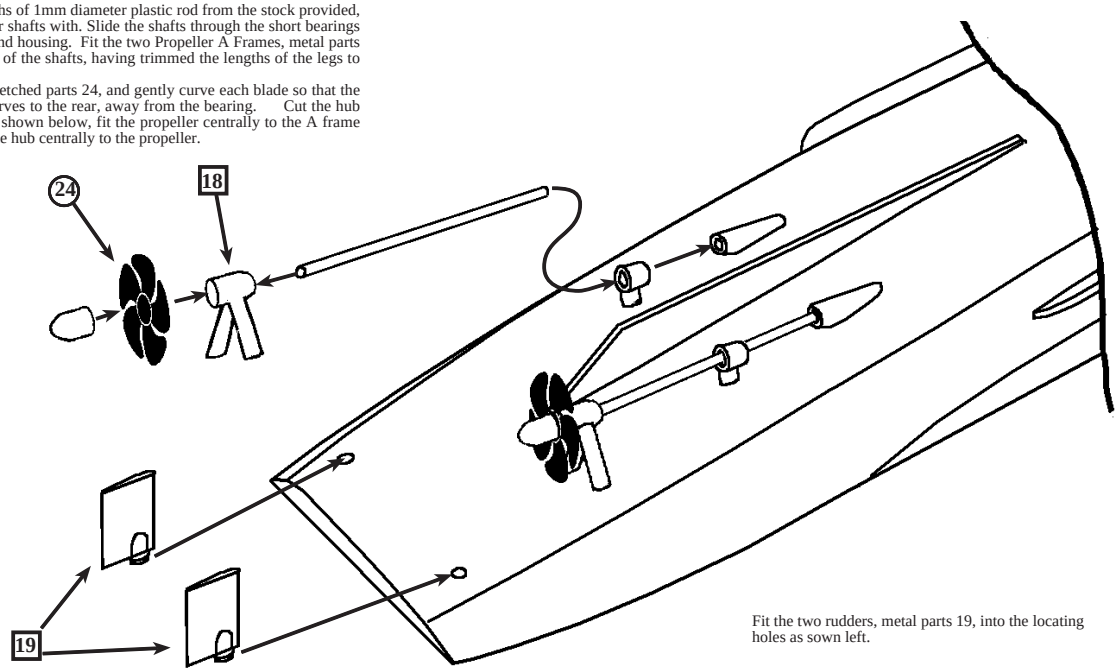
Shape and fit the small Railings, etched parts 7, to the rear of the flying bridge bulwarks as shown below. The shorter section of railings is fitted to the starboard side as there is an access point for Inclined Ladder, etched part 38, to fit.
Fit the large Ventilator Grills, etched parts 50 to the raised areas on the starboard side under the catwalk. Fit the single large grill etched part 49, to the rear face of the exhaust uptakes.



A selection of Radomes has been included in the kit so that a mix and match can be done if modelling one of the sister ships. These appear to have a different combination of radomes so a bit of research is recommended before fitting, if HMS Tyne or Mersey are being modelled instead.
Trim the radome poles to the required height, then locate into the holes in the deck. The combination shown is for HMS Severn as of 2021.
Shape and fit the short Inclined Ladder, etched part 36, to the front of the mast platform.
Shape and fit the large Inclined Ladder, etched part 37 to the catwalk on the starboard side. The port side of the catwalk has a Vertical Ladder from the stock etched parts 52.

Propellers and Rudders

Cut two 28mm lengths of 1mm diameter plastic rod from the stock provided, to make the propeller shafts with. Slide the shafts through the short bearings and on into stern gland housing. Fit the two Propeller A Frames, metal parts 18, to the outer ends of the shafts, having trimmed the lengths of the legs to fit.
Take the propellers, etched parts 24, and gently curve each blade so that the outer narrow part curves to the rear, away from the bearing. Cut the hub from the bearing as shown below, fit the propeller centrally to the A frame part, and then refit the hub centrally to the propeller.



Fit the two rudders, metal parts 19, into the locating holes as sown left.

Main Colour Chart and Painting Guide

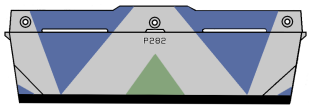
R.N.Light Weatherwork Grey Humbrol 127 or ColourCoats M01

Western Approaches Green Humbrol 36 or ColourCoats NARN 39

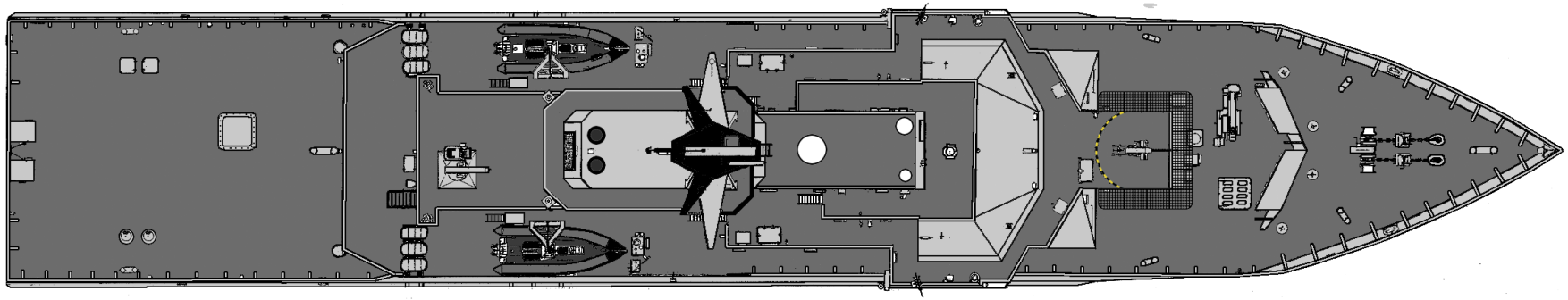
R.N. Medium Blue Humbrol 89 or ColourCoats NARN 21

R.N. Light Deck Grey Humbrol 106

Anti Fouling Red Humbrol 100



Transom Pattern



Other Colours Used :

Matt Black	Mast Top, Gun Barrels, Sides and Front of RHIBs
Matt White	Radomes, Radar Antennas.
Bronze	Propellers
Tank Grey	Floors inside RHIBs

Note : Owing to difficulty in matching the colours of the Western Approaches Type Scheme the closest matches of both Humbrol and Colourcoats has been given. The actual paint specifications used are RAL 6021 and RAL 5014 if this is of any help.

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