

# Type 22 Frigate (Batch 1)

## H.M.S. Broadsword

### 1981

### 1/350 Scale

HMS Broadsword was laid down on 7th February 1975 at Yarrow's Scotstoun Shipyard on the Clyde, following a reappraisal of the Royal Navy's surface fleet requirement that a suitable replacement for the Leander class Frigates would be needed to make up the modernised fleet. She was launched on 12th May 1976 and Commissioned on 4th May 1979 and was soon pressed into service as a command ship for the rescue operation following the Fastnet Race disaster during August of that year.

Several design changes to the initial layout of the class were soon to be forthcoming, the large funnel with the exhaust uptakes protruding from the sides like ears, were soon replaced in later ships with smaller lighter funnels to reduce some top weight, although HMS Battleaxe, Broadsword's sister had the large funnel to start with as well. These were subsequently removed during their first refits in the mid 1980s and replaced with the smaller funnels.

HMS Broadsword served with the fleet during the Falklands conflict with Argentina in 1982 as an air defence frigate, and was teamed up with HMS Coventry to lure and trap Argentine aircraft into their air defence net, thus preventing them from reaching the vital beachheads in San Carlos. After having suffered several losses to these Type 22/42 combinations the Argentines made them a priority target to gain the upper hand again, and pressed home an attack on HMS Broadsword and HMS Coventry which resulted in HMS Coventry being hit by three bombs, which overwhelmed her. HMS Broadsword was hit aft, the bomb passing through the ship's side and exited up through the flight deck, taking the front off her Lynx helicopter, and over the side to explode in the sea.

In the years following the Falklands conflict, HMS Broadsword found herself being on various duties and deployments with the fleet during the 1980s. She was involved in Operation Grapple in the early 1990s in the Adriatic when the Yugoslav conflict split up the country into its original smaller states. Broadsword and her sisters provided fleet support for the aircraft carriers that had been put on station to intervene. Following a refit in 1993, a fire broke out in the aft auxiliary machinery compartment, which sadly killed two of the engineers working there.

HMS Broadsword was decommissioned on 31st March 1995 and along with her sisters of the Batch 1 class, HMS Battleaxe, HMS Brilliant and HMS Brazen, was sold to the Brazilian Navy, where they are still in service. HMS Broadsword was renamed Greenhaigh.

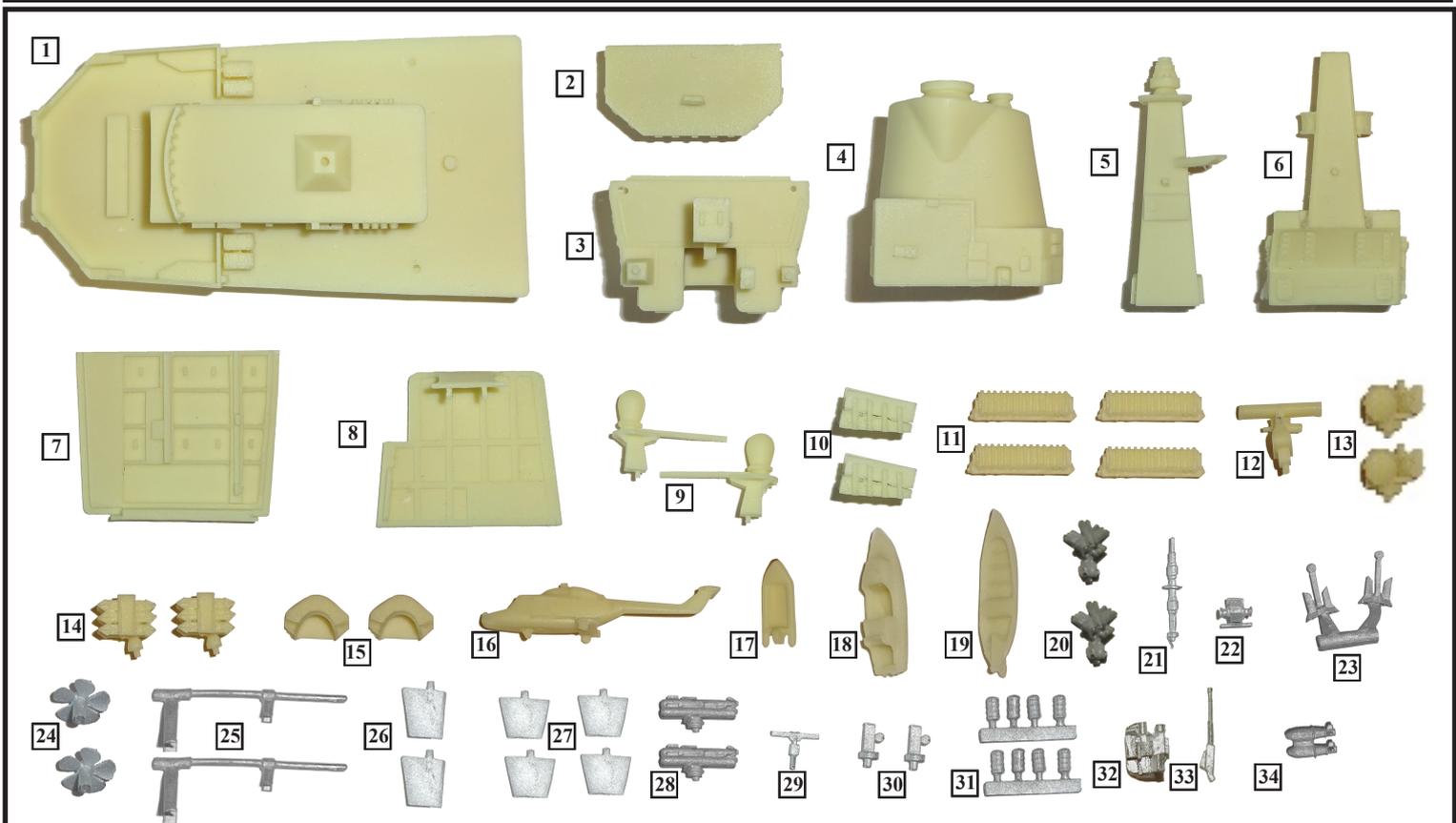
### Specifications

Length 430ft (131.2m) Beam 48ft (14.8m) Displacement 4,400 tonnes Speed 18kts Cruise 30 kts Max Complement 222 Officers and Men  
Propulsion 2 x Rolls Royce Olympus TM3B boost gas turbines 2 x Rolls Royce Tyne RM1C cruise gas turbines

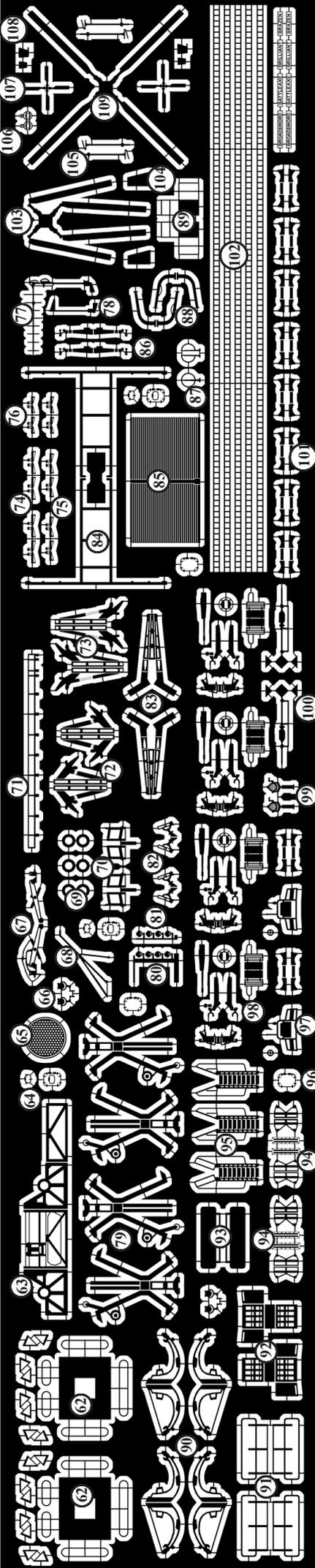
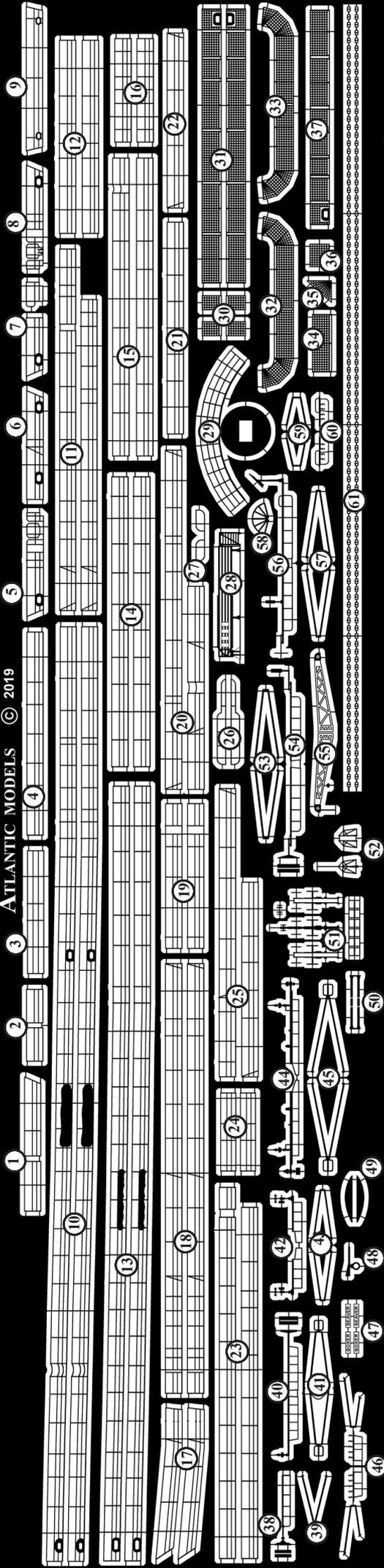
### Armament

4 x Exocet SSM Launchers 2 x 6 GWS 25 Sea Wolf SAM Launchers 2 x 40mm Bofors AA Guns 2 x 20mm Oerlikon Cannon  
2 x Triple Anti Submarine Torpedo Tubes 2 x Lynx Mk3 Helicopters

### Resin and White Metal Parts



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|----------------------------|--------------------------------|------------------------------|---------------------------------|
| 1. Forward Superstructure  | 9. SCOT Radome Platforms       | 18. 25' Cheverton Motor Boat | 27. Stabiliser Fins             |
| 2. Bridge                  | 10. Exocet Box Mountings       | 19. 27' Motor Whaler         | 28. STWS Torpedo Tubes          |
| 3. Engine Air Intake House | 11. Exocet Box Launchers       | 20. Corvus Chaff Launchers   | 29. 1006 Nav Radar Antenna      |
| 4. Funnel (Early)          | 12. 967/968 Radar Antenna      | 21. Main Mast top Antenna    | 30. Small Boat Crane Bases      |
| 5. Fore Mast               | 13. 910 Fire Control Directors | 22. Torpedo Decoy Winch      | 31. Liferaft Canisters 4 x 4    |
| 6. Main Mast Unit          | 14. Sea Wolf Missile Launchers | 23. Anchors                  | 32. 40mm Bofors Base x 2        |
| 7. Hangar Roof             | 15. Chaff Launcher Enclosures  | 24. Propellers               | 33. 40mm Bofors Gun Barrels x 2 |
| 8. Flight Deck (Early)     | 16. Lynx Helicopter x 2        | 25. Propeller Shafts         | 34. 182 Torpedo Decoys          |
|                            | 17. Gemini Inflatable Boat x 2 | 26. Rudders                  |                                 |



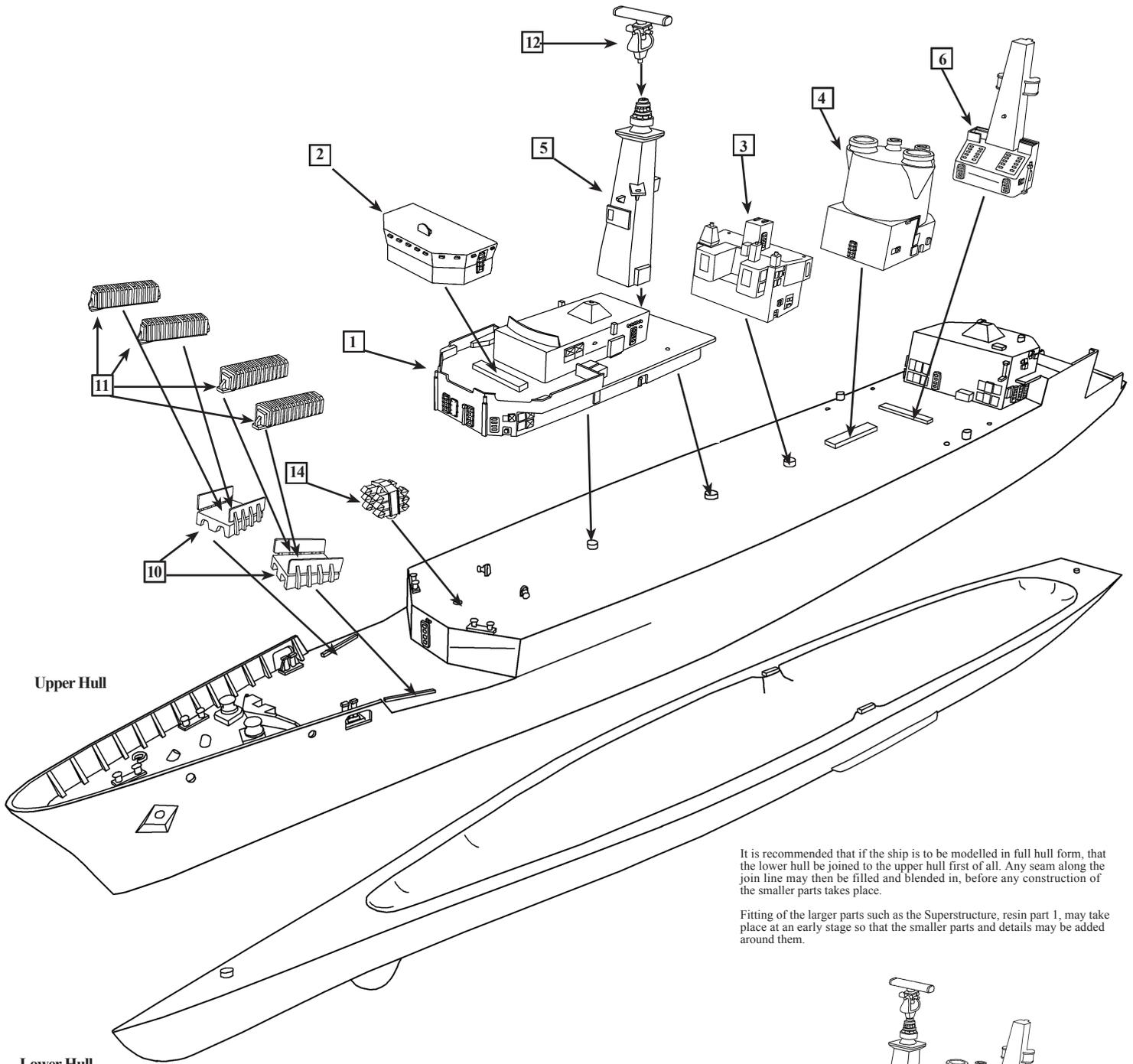
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| 1. Railings (Flight Deck Sbd Fwd)     | 69. Yardarm Stays (Fore Mast Front)         | 96. Access Hatch                      |
| 2. Railings (Flight Deck Fwd)         | 70. Yardarms (Fore Mast Aft Quarters)       | 97. RHIB Parts                        |
| 3. Railings (1006 Nav Radar Platform) | 71. Yardarm Stays (Fore Mast Aft Quarters)  | 98. 20mm GAMBO Assembly               |
| 4. Railings (Fo'c'sle Step)           | 72. Yardarm Stays (Fore Mast Fwd Quarters)  | 99. Signal Lamps (Large)              |
| 5. Railings (Quarterdeck Port) BW     | 73. Yardarm Stays (Fore Mast Sides)         | 100. Dan Buoys                        |
| 6. Railings (Quarterdeck Sbd) BW      | 74. Yardarm Stays (Foremast Sides)          | 101. Life Raft Canister Racks         |
| 7. Railings (Quarterdeck Port) XB     | 75. Yardarm Stays (Funnel Wire Spreaders)   | 102. Vertica Ladder Stock             |
| 8. Railings (Quarterdeck Sbd) XB      | 76. Ships Name Plates                       | 103. Lynx Helicopter Rotors (Folded)  |
| 9. Railings (SCOT House Deck Aft)     | 77. Helicopter Glidepath Lamp               | 104. Lynx Helicopter Tail Plane       |
| 10. Railings (Main Deck Fwd) XB       | 78. Propeller Guards                        | 105. Lynx Helicopter Blade Fold Poles |
| 11. Railings (Main Deck Aft) XB       | 79. 182 Decoy Stowage Rack                  | 106. Lynx Helicopter Tail Fold Joint  |
| 12. Railings (SCOT House Deck)        | 80. Main Mast Top Antenna Array XB          | 107. Lynx Helicopter Tail Rotor       |
| 13. Railings (Main Deck Fwd) BW       | 81. Main Mast Top DF Antenna BW             | 108. Lynx Helicopter Blade Aerials    |
| 14. Railings (Signal Deck) BW         | 82. F Deck Safety Nets (Stern) XB           | 109. Lynx Helicopter Main Rotor       |
| 15. Railings (Ops Room Roof) XB       | 83. F Deck Safety Nets Port Aft             |                                       |
| 16. Railings (SCOT Platforms)         | 84. Decoy Crane Cut Out BW                  |                                       |
| 17. Railings (Fo'c'sle)               | 85. " " " "                                 |                                       |
| 18. Railings (Signal Deck) XB         | 86. F Deck Safety Net (Port Fwd) BW         |                                       |
| 19. Railings (Ops Room Roof) BW       | 87. Yardarm (Fore Mast Front)               |                                       |
|                                       | 88. Yardarms (Fore Mast Aft Quarters)       |                                       |
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|                                       | 95. Propeller Guards                        |                                       |
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|                                       | 98. Main Mast Top DF Antenna BW             |                                       |
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|                                       | 357. " " " "                                |                                       |
|                                       | 358. F Deck Safety Net (Port Fwd) BW        |                                       |
|                                       | 359. Yardarm (Fore Mast Front)              |                                       |
|                                       | 360. Yardarms (Fore Mast Aft Quarters)      |                                       |
|                                       | 361. Yardarm Stays (Fore Mast Fwd Quarters) |                                       |
|                                       | 362. Yardarm Stays (Fore Mast Sides)        |                                       |
|                                       | 363. Yardarm Stays (Foremast Sides)         |                                       |
|                                       | 364. Yardarm Stays (Funnel Wire Spreaders)  |                                       |
|                                       | 365. Ships Name Plates                      |                                       |
|                                       | 366. Helicopter Glidepath Lamp              |                                       |
|                                       | 367. Propeller Guards                       |                                       |
|                                       | 368. 182 Decoy Stowage Rack                 |                                       |
|                                       | 369. Main Mast Top Antenna Array XB         |                                       |
|                                       | 370. Main Mast Top DF Antenna BW            |                                       |
|                                       | 371. F Deck Safety Nets (Stern) XB          |                                       |
|                                       | 372. F Deck Safety Nets Port Aft            |                                       |
|                                       | 373. Decoy Crane Cut Out BW                 |                                       |
|                                       | 374. " " " "                                |                                       |
|                                       | 375. F Deck Safety Net (Port Fwd) BW        |                                       |
|                                       | 376. Yardarm (Fore Mast Front)              |                                       |
|                                       | 377. Yardarms (Fore Mast Aft Quarters)      |                                       |
|                                       | 378. Yardarm Stays (Fore Mast Fwd Quarters) |                                       |
|                                       | 379. Yardarm Stays (Fore Mast Sides)        |                                       |
|                                       | 380. Yardarm Stays (Foremast Sides)         |                                       |
|                                       | 381. Yardarm Stays (Funnel Wire Spreaders)  |                                       |
|                                       | 382. Ships Name Plates                      |                                       |
|                                       | 383. Helicopter Glidepath Lamp              |                                       |
|                                       | 384. Propeller Guards                       |                                       |
|                                       | 385. 182 Decoy Stowage Rack                 |                                       |
|                                       | 386. Main Mast Top Antenna Array XB         |                                       |
|                                       | 387. Main Mast Top DF Antenna BW            |                                       |
|                                       | 388. F Deck Safety Nets (Stern) XB          |                                       |
|                                       | 389. F Deck Safety Nets Port Aft            |                                       |
|                                       | 390. Decoy Crane Cut Out BW                 |                                       |
|                                       | 391. " " " "                                |                                       |
|                                       | 392. F Deck Safety Net (Port Fwd) BW        |                                       |
|                                       | 393. Yardarm (Fore Mast Front)              |                                       |
|                                       | 394. Yardarms (Fore Mast Aft Quarters)      |                                       |
|                                       | 395. Yardarm Stays (Fore Mast Fwd Quarters) |                                       |
|                                       | 396. Yardarm Stays (Fore Mast Sides)        |                                       |
|                                       | 397. Yardarm Stays (Foremast Sides)         |                                       |
|                                       | 398. Yardarm Stays (Funnel Wire Spreaders)  |                                       |
|                                       | 399. Ships Name Plates                      |                                       |
|                                       | 400. Helicopter Glidepath Lamp              |                                       |
|                                       | 401. Propeller Guards                       |                                       |
|                                       | 402. 182 Decoy Stowage Rack                 |                                       |
|                                       | 403. Main Mast Top Antenna Array XB         |                                       |
|                                       | 404. Main Mast Top DF Antenna BW            |                                       |
|                                       | 405. F Deck Safety Nets (Stern) XB          |                                       |
|                                       | 406. F Deck Safety Nets Port Aft            |                                       |
|                                       | 407. Decoy Crane Cut Out BW                 |                                       |
|                                       | 408. " " " "                                |                                       |
|                                       | 409. F Deck Safety Net (Port Fwd) BW        |                                       |
|                                       | 410. Yardarm (Fore Mast Front)              |                                       |
|                                       | 411. Yardarms (Fore Mast Aft Quarters)      |                                       |
|                                       | 412.  |                                       |

## 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.

### Main Component Location

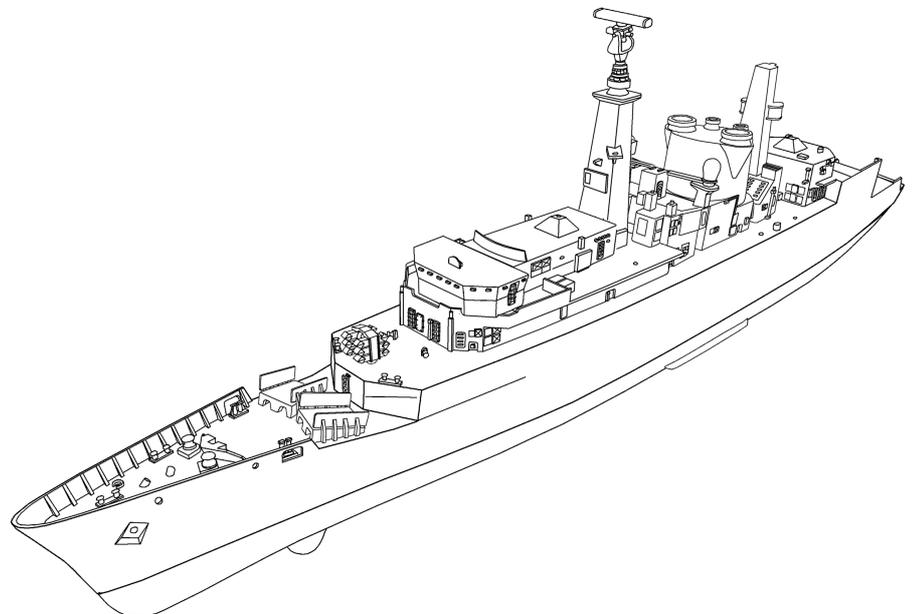


It is recommended that if the ship is to be modelled in full hull form, that the lower hull be joined to the upper hull first of all. Any seam along the join line may then be filled and blended in, before any construction of the smaller parts takes place.

Fitting of the larger parts such as the Superstructure, resin part 1, may take place at an early stage so that the smaller parts and details may be added around them.

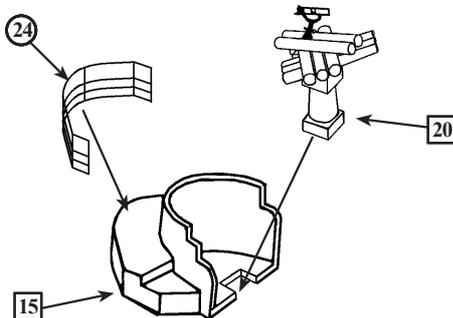
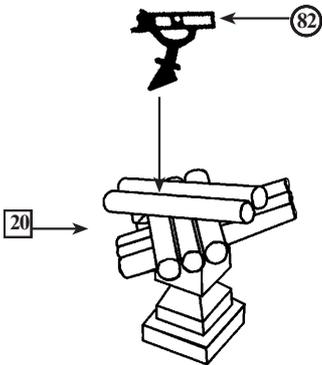
When the model has been constructed to the stage of fitting the masts into place, assemble the masts according to the diagrams in further sections.  
Fit the assembled fore mast down to the deck over a locating peg in the centre of the signal deck behind the upper deck house as shown.

The main mast locates centrally on the location bar on the deck behind the funnel. Fit the Funnel, Intake Box and Hangar Roof into place also the Bridge and Flight Deck before spray painting. This is so that any seams in the joints may be filled and smoothed prior to painting. It is recommended that if the hangar doors are to be in the open position on the model, that the interior of the hangar be painted before the roof component is fitted.



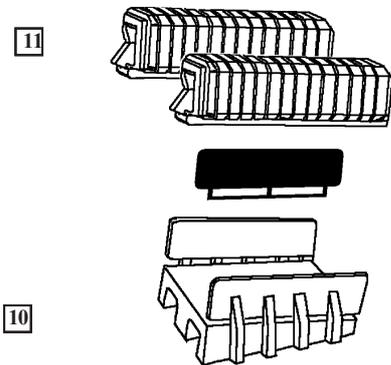
### Corvus Chaff Launcher Assembly

Fold the flare tubes, etched parts 82, in half to make them double thickness with the relief etched detail outer most. Fit to the top of the chaff launchers, metal parts 20 so that the foot locates between the top two tubes. Make two of these.



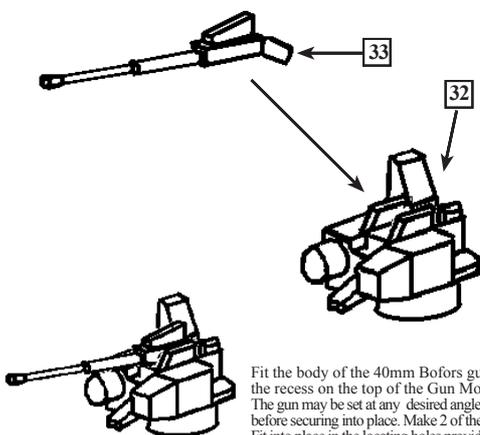
It is recommended that the Corvus Chaff Launcher enclosures be fitted to the deck on each side of the bridge wings before fitting the etched parts. Cut out a rectangular notch in the bottom of the enclosure to receive the base of the launcher. Fit the launcher into place, then shape and fit the straight railing section of etched part 24, to the rear platform on the chaff launcher enclosure.

### Exocet Box Launcher Assembly



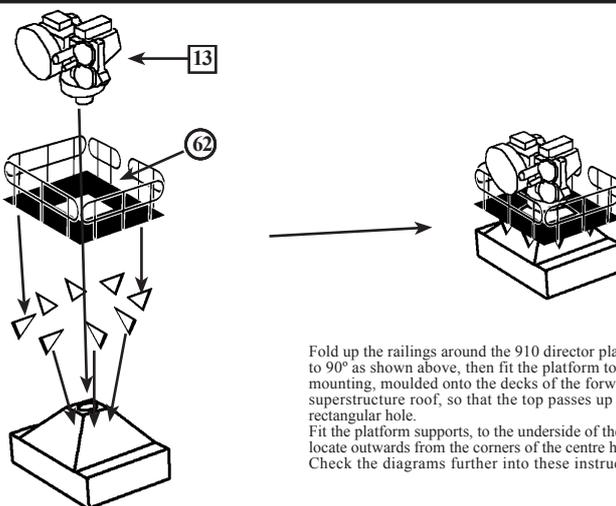
Fit the Exocet box side shields, etched parts 91, so that the lower frames attach to the sides of the box mounting, resin parts 10, if required to replace the moulded in place items. Fit the central divider plate, etched part 93 in between the Exocet boxes. Fit the Exocet Box Launchers resin parts 11, centrally to each side of the divider plate. Make two of these and fit to the fore deck in the positions shown in the main parts location diagram.

### 40 mm Bofors Gun Mounting



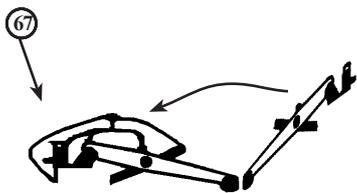
Fit the body of the 40mm Bofors gun, part 33, into the recess on the top of the Gun Mounting, part 32. The gun may be set at any desired angle of elevation before securing into place. Make 2 of these. Fit into place in the locating holes provided at the rear of the forward superstructure deck on each side.

### 910 Fire Control Radar Assembly



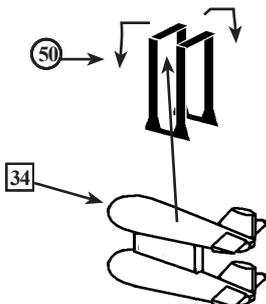
Fold up the railings around the 910 director platform, etched part 62 to 90° as shown above, then fit the platform to the pyramid shaped mounting, moulded onto the decks of the forward ops room and aft superstructure roof, so that the top passes up through the central rectangular hole. Fit the platform supports, to the underside of the platform so that they locate outwards from the corners of the centre hole. Check the diagrams further into these instructions for location.

### Decoy Crane Assembly



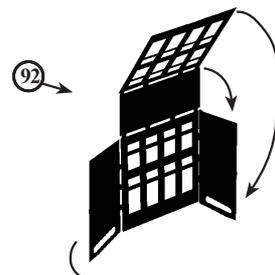
Fold the two sides of the Decoy Crane, etched part 67, around so that the jib is double thickness. Secure into place. Fit the rear base of the jib to the top of the pintle that is located inside the bulwark on the port stern quarter.

### 182 Decoy Stowage



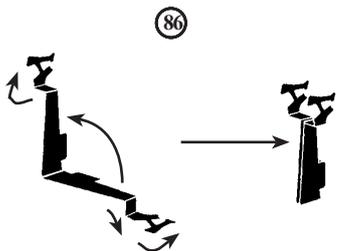
Fold the legs on etched parts 50 over in 90° steps so that they are parallel, then fit them over the acoustic decoys as a stowage frame. This assembly is located on the quarterdeck to port. See further diagrams for exact location.

### Fuel Can Rack Assembly



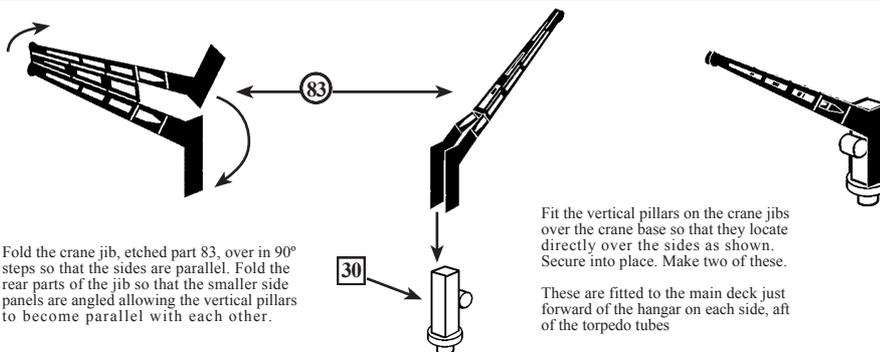
Fold the sides of the fuel can rack round to 90° so that they are parallel, then fold the top and front panels down in stages of 90° so that they form a box construction rack. These racks are meant to contain the Jerry cans of fuel required by the ships boats. They are usually positioned on the edges of the catwalk to the starboard side of the hangar just aft of the ladder access opening. They have a quick overboard release capability due to the flammable contents and are usually painted red.

### Lookout Binocular Assembly



Fold the pedestal sections of the lookout binoculars in half so that they are double thickness. Then fold the binocular on each side outwards as shown above. Secure into place. These are located on the port and starboard bridge wings.

### Gemini Boat Crane Assembly

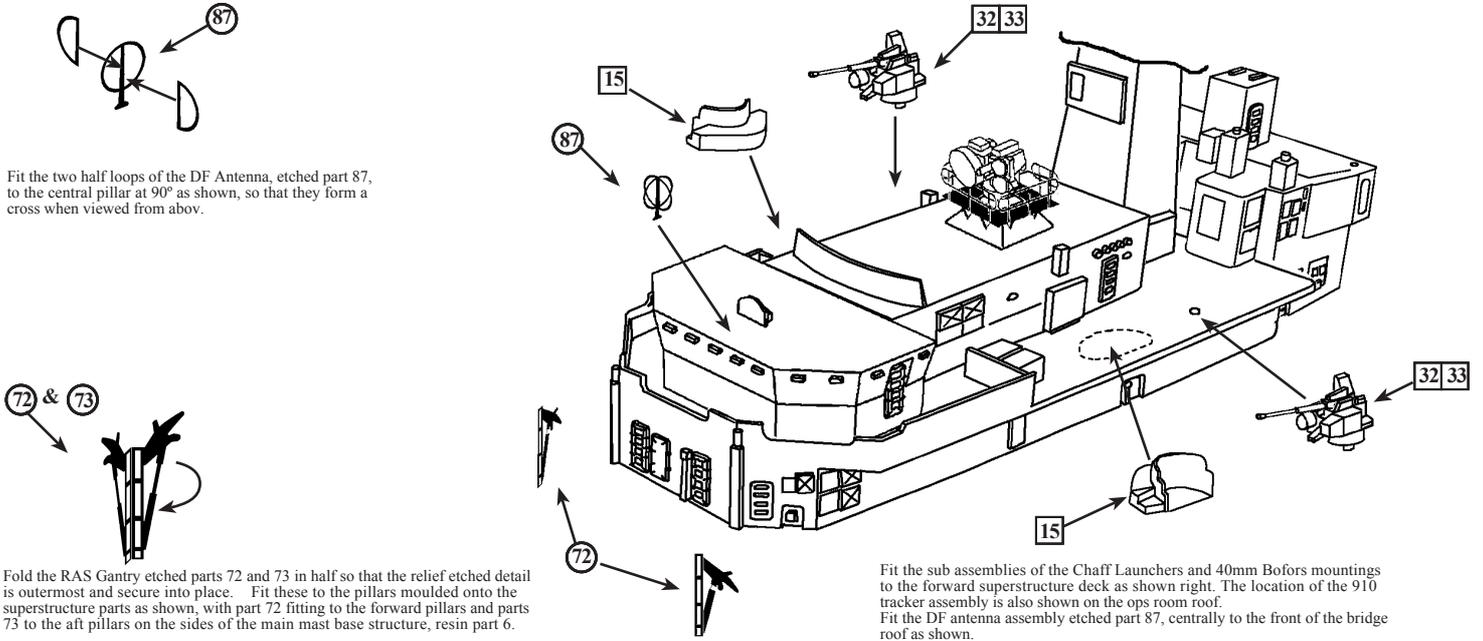


Fold the crane jib, etched part 83, over in 90° steps so that the sides are parallel. Fold the rear parts of the jib so that the smaller side panels are angled allowing the vertical pillars to become parallel with each other.

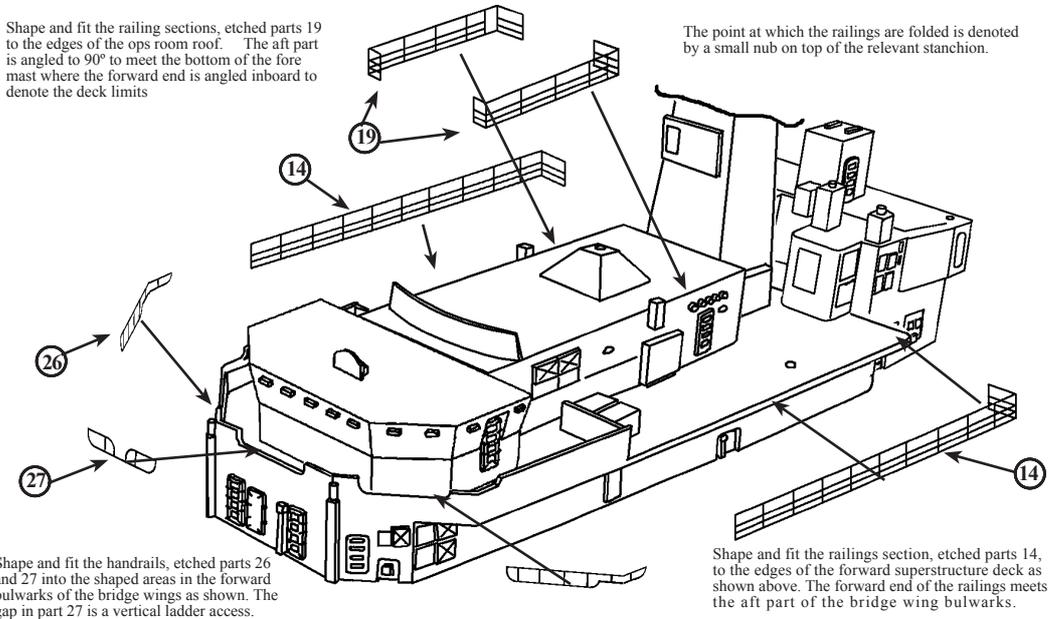
Fit the vertical pillars on the crane jibs over the crane base so that they locate directly over the sides as shown. Secure into place. Make two of these.

These are fitted to the main deck just forward of the hangar on each side, aft of the torpedo tubes

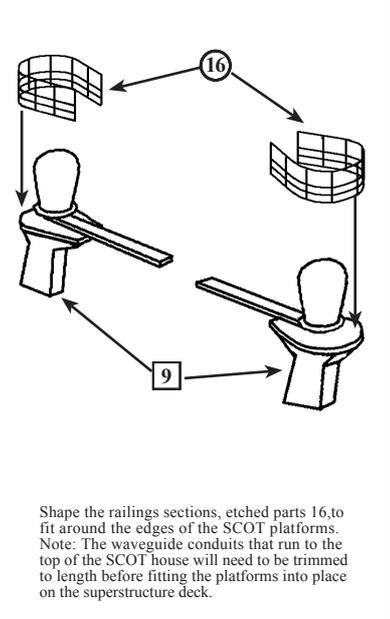
## Forward Superstructure Equipment Location



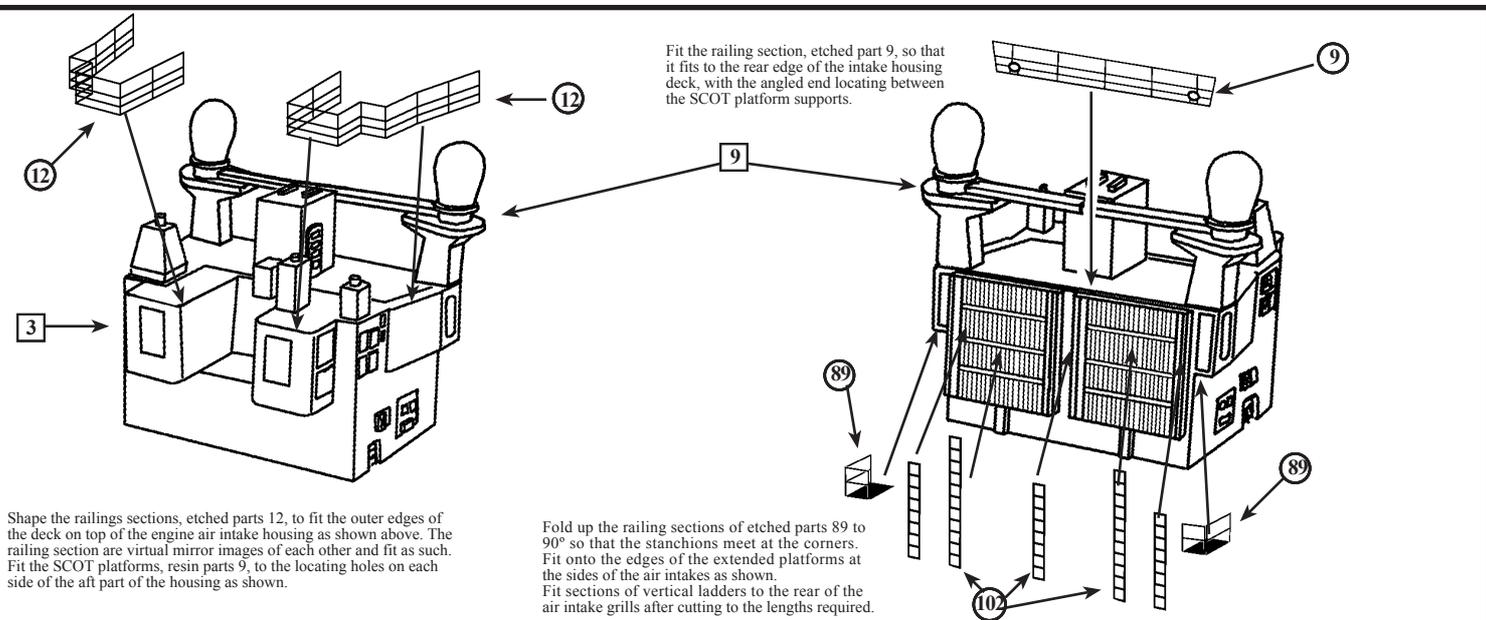
## Forward Superstructure Railings Location



## SCOT Platform Assembly



## Engine Air Intake Structure Railings and Fittings Location

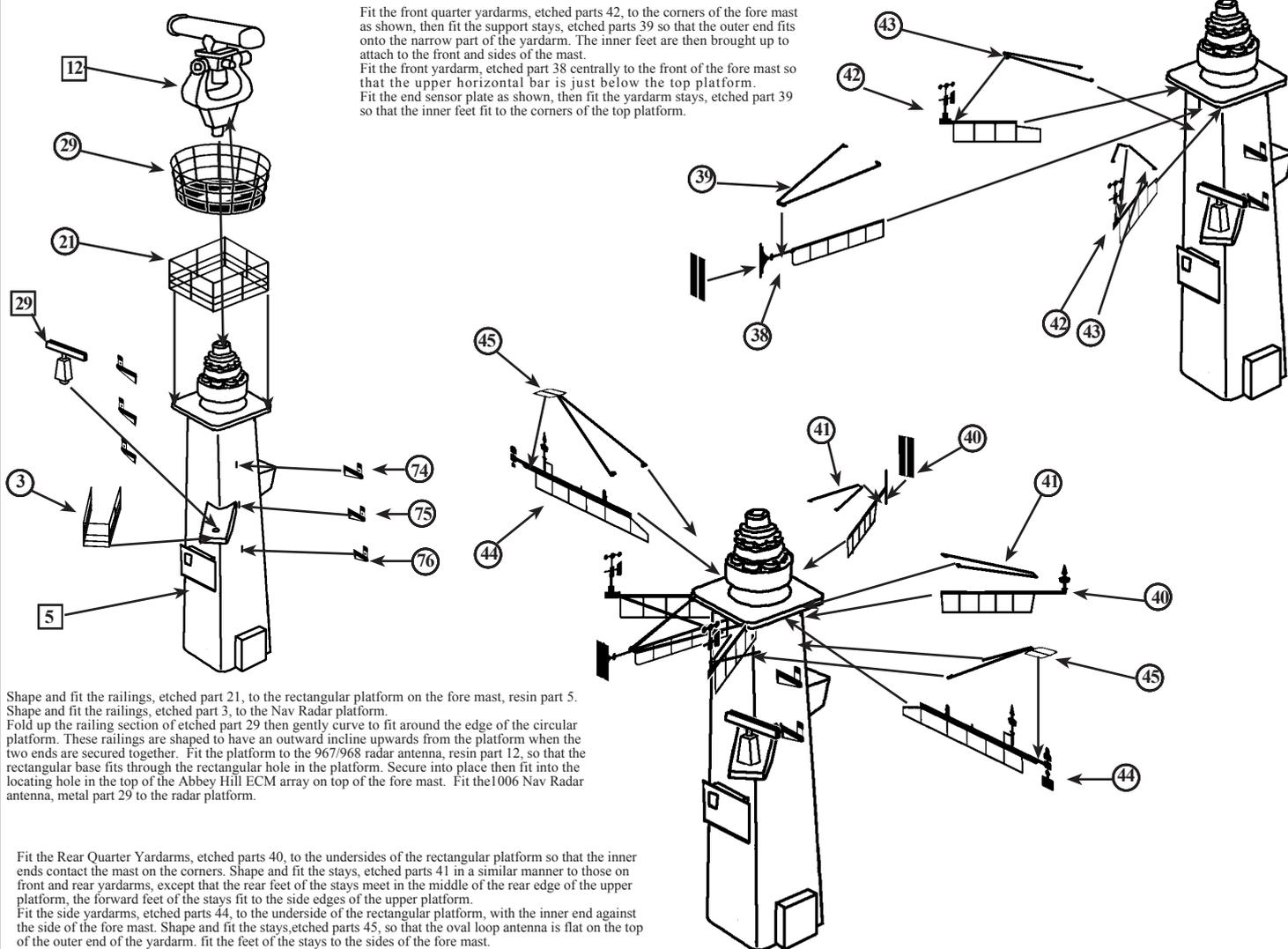


## Fore Mast Assembly

Fit the front quarter yardarms, etched parts 42, to the corners of the fore mast as shown, then fit the support stays, etched parts 39 so that the outer end fits onto the narrow part of the yardarm. The inner feet are then brought up to attach to the front and sides of the mast.

Fit the front yardarm, etched part 38 centrally to the front of the fore mast so that the upper horizontal bar is just below the top platform.

Fit the end sensor plate as shown, then fit the yardarm stays, etched part 39 so that the inner feet fit to the corners of the top platform.

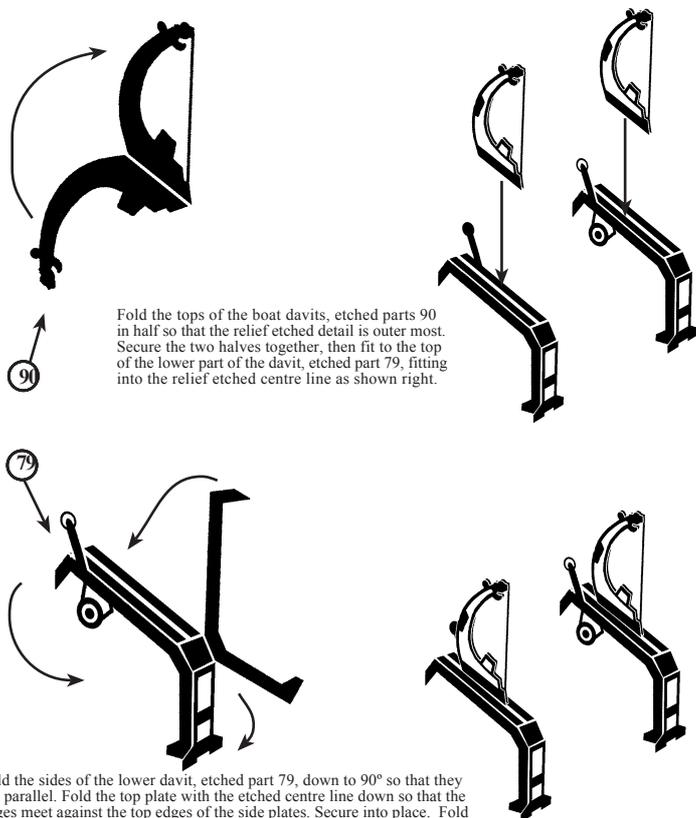


Shape and fit the railings, etched part 21, to the rectangular platform on the fore mast, resin part 5. Shape and fit the railings, etched part 3, to the Nav Radar platform. Fold up the railing section of etched part 29 then gently curve to fit around the edge of the circular platform. These railings are shaped to have an outward incline upwards from the platform when the two ends are secured together. Fit the platform to the 967/968 radar antenna, resin part 12, so that the rectangular base fits through the rectangular hole in the platform. Secure into place then fit into the locating hole in the top of the Abbey Hill ECM array on top of the fore mast. Fit the 1006 Nav Radar antenna, metal part 29 to the radar platform.

Fit the Rear Quarter Yardarms, etched parts 40, to the undersides of the rectangular platform so that the inner ends contact the mast on the corners. Shape and fit the stays, etched parts 41 in a similar manner to those on front and rear yardarms, except that the rear feet of the stays meet in the middle of the rear edge of the upper platform, the forward feet of the stays fit to the side edges of the upper platform.

Fit the side yardarms, etched parts 44, to the underside of the rectangular platform, with the inner end against the side of the fore mast. Shape and fit the stays, etched parts 45, so that the oval loop antenna is flat on the top of the outer end of the yardarm. fit the feet of the stays to the sides of the fore mast.

## Boat Davit Assembly

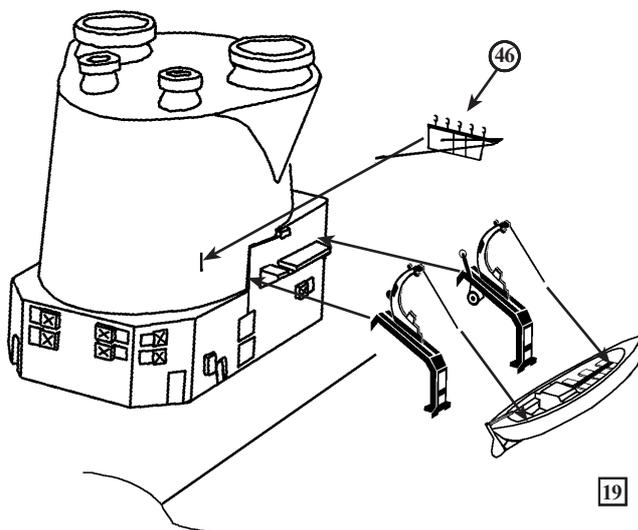


Fold the tops of the boat davits, etched parts 90 in half so that the relief etched detail is outer most. Secure the two halves together, then fit to the top of the lower part of the davit, etched part 79, fitting into the relief etched centre line as shown right.

Fold the sides of the lower davit, etched part 79, down to 90° so that they are parallel. Fold the top plate with the etched centre line down so that the edges meet against the top edges of the side plates. Secure into place. Fold the front panel down so that the edges meet the front edges of the side plates then secure into place. The davit bases come in pairs that when assembled should be mirror images of each other.

## Starboard Boat Location

Fit the wire antenna spreader yardarm, etched part 46, to the rear of the funnel as shown so that the top horizontal rail of the yardarm is level with the top level of the funnel housing, and that when the feet of the stays fit to the funnel, the yardarm is perfectly horizontal fore and aft and athwartships.



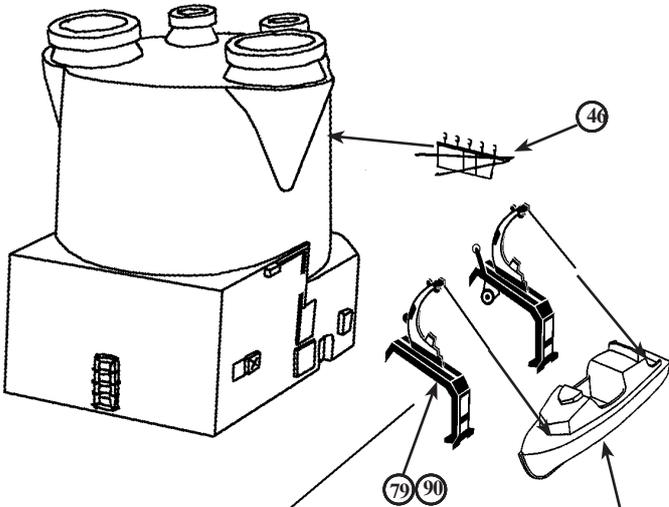
Fit the boat davit assemblies so that they locate to the sides of the funnel housing as shown above, with the feet locating to the edge of the main deck

Cut through the bottom of the boat falls and pull them outwards. Drill a small hole 0.4mm diameter, through the bottom of the 27" Whaler front and rear at points of comparative distance as that between the davits. Pass the lower ends of the falls through the holes and slide the boat up the falls as far as it will go. Push the boat in towards the davits until the lower ends of the falls fit back to their original positions, then glue them into place. Slide the boat back down the falls until it sits level against the sway braces on the davits. Fix into place.

It is recommended that the boats be painted in their final scheme before fitting to the davits as it will be difficult to access some areas once they are in place.

### Port Boat Location

Fit the wire antenna spreader yardarm, etched part 46, to the rear of the funnel as shown so that the top horizontal rail of the yardarm is level with the top level of the funnel housing, and that when the feet of the stays fit to the funnel, the yardarm is perfectly horizontal fore and aft and athwartships.



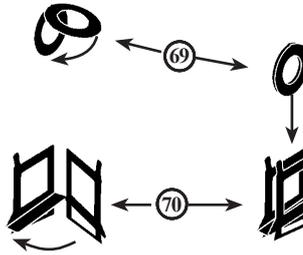
Fit the boat davit assemblies so that they locate to the sides of the funnel housing as shown above, with the feet locating to the edge of the main deck

Cut through the bottom of the boat falls and pull them outwards. Drill a small hole 0.4mm diameter, through the bottom of the Cheverton Motor Boat, front and rear at points of comparative distance as that between the davits.

Pass the lower ends of the falls through the holes and slide the boat up the falls as far as it will go. Push the boat in towards the davits until the lower ends of the falls fit back to their original positions, then glue them into place. Slide the boat back down the falls until it sits level against the sway braces on the davits. Fix into place.

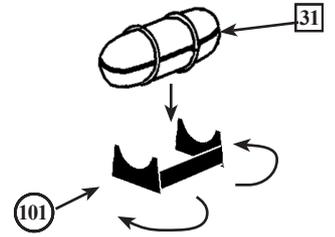
It is recommended that the boats be painted in their final scheme before fitting to the davits as it will be difficult to access some areas once they are in place.

### Life Ring Ejectors



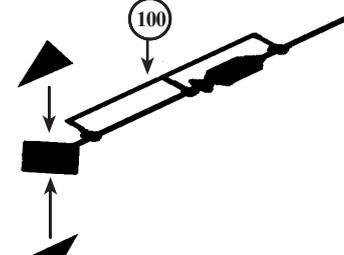
Fold the sides of the Life Ring Ejector around so that they are parallel. Twist up the central spacer so that the edges locate along the bottom rail on the two sides. Fix into place. Fold the life rings, etched parts 70 in half so that they are double thickness, then place inside the ejector rack after painting

### Life Raft Canister Assembly



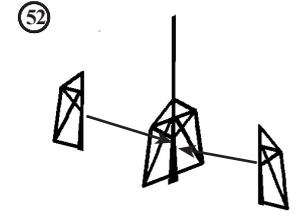
Fold the lift raft canister rack, etched part 101, to the shape shown above, then fit a single canister in to each rack. The life raft canisters are fitted to various points on the edges of the decks as shown in later diagrams.

### Dan Buoy Assembly



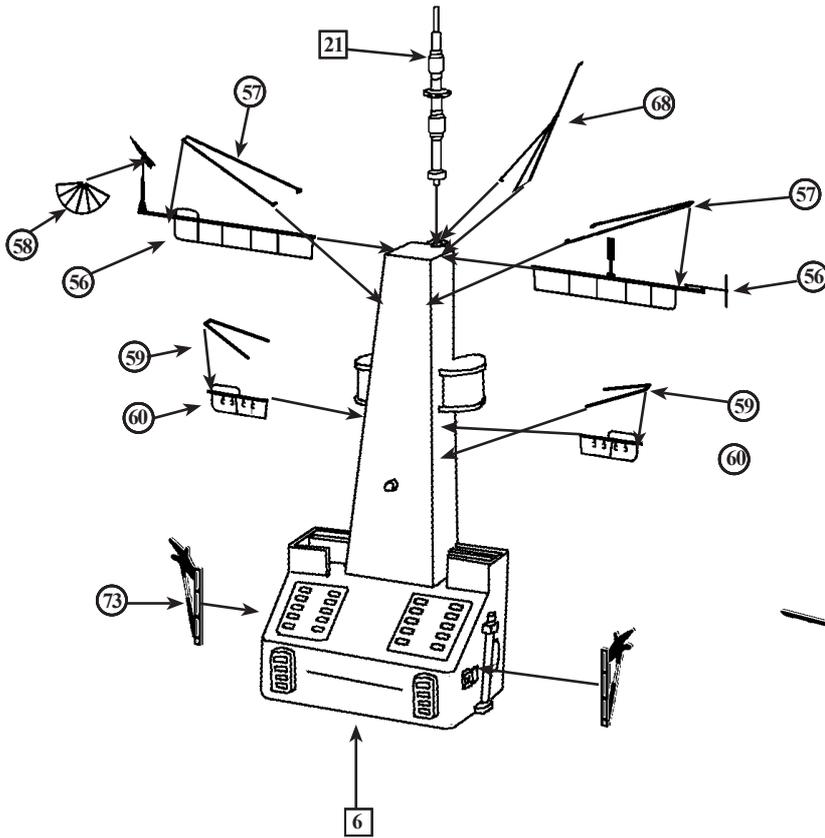
Assemble the radar reflectors on the Dan Buoys, etched parts 100, as shown above. Fit the rectangular bracket arrangement onto the side railings on each stern quarter. The colour of the reflector and body of the Dan Buoys varied from Dayglo Orange which was the most common, to Red and White 90° alternate sections

### Mast Head DF Antenna



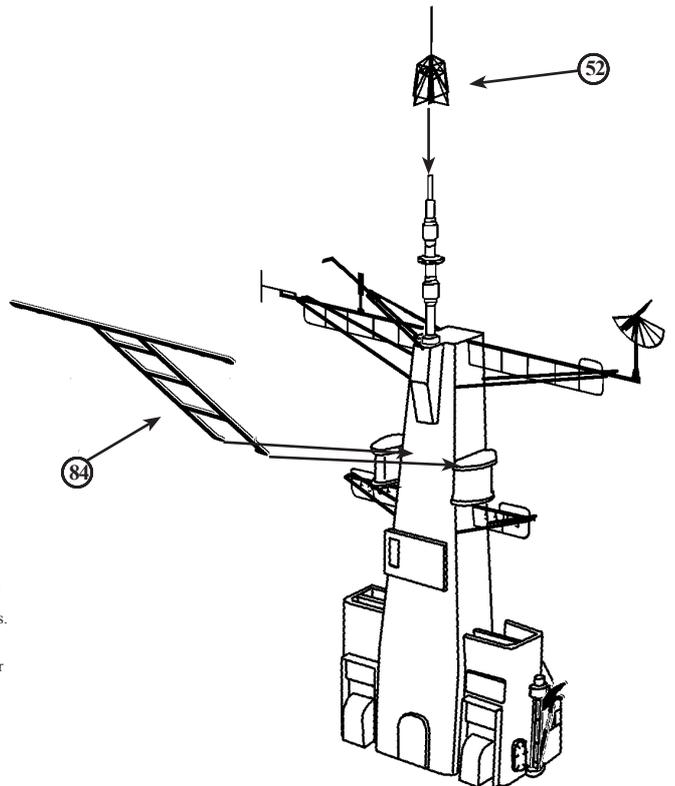
Assemble the mast top HF/DF Antenna, etched parts 52, so that the vertical pillars on the half frames fit onto the vertical centre pillars of the full frame on each side at 90°. This antenna fits to the top of the main mast antenna pole.

### Main Mast Assembly



Fit the Main Mast Antenna Pole, metal part 21, into the locating hole in the top of the mast as shown left. Fit the HF/DF Antenna assembly etched part 52 into place on top of the Antenna Pole.

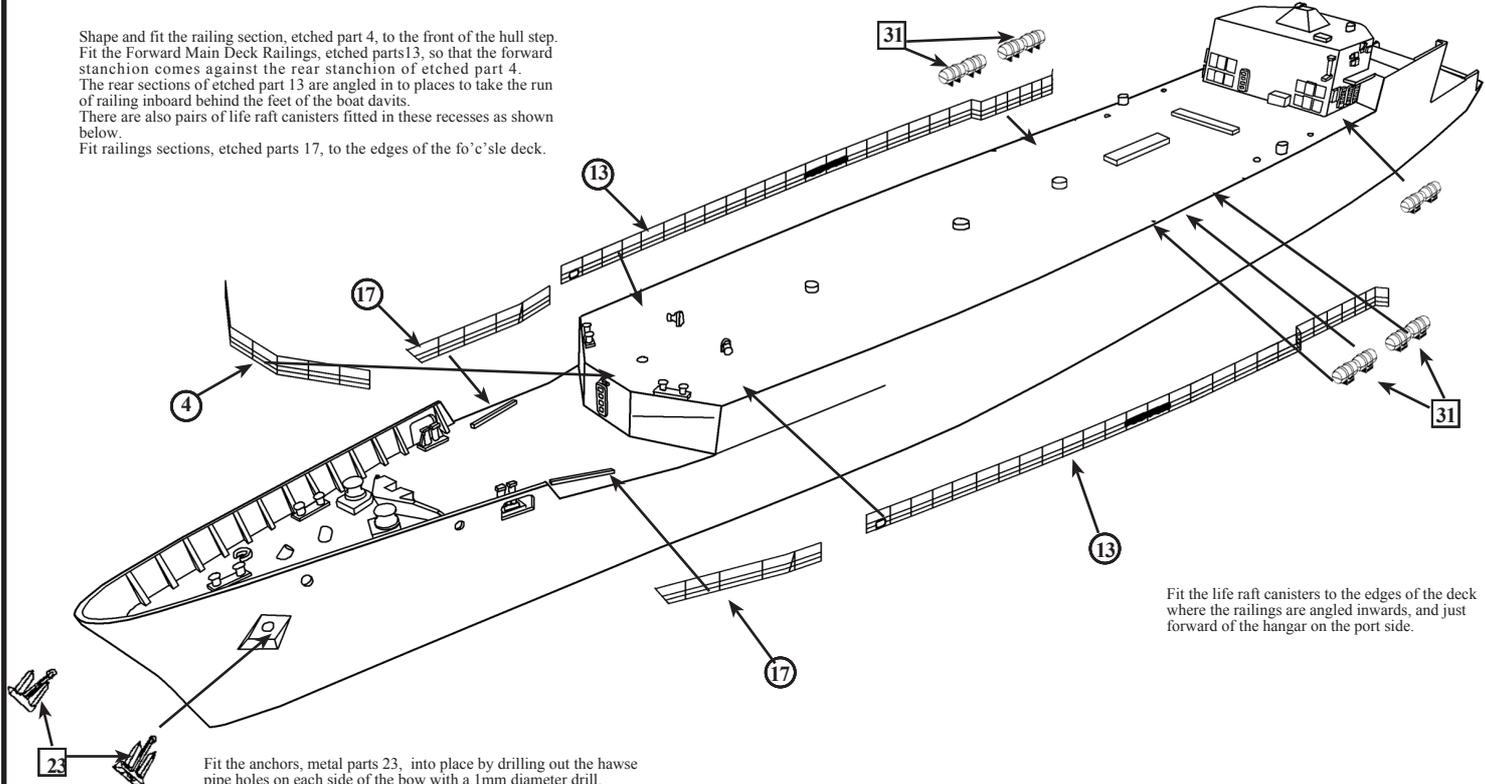
Fold the Wire Antenna Spreader, etched part 84, in half so that it is double thickness as shown below, then fit the two lower feet so that they locate to the rear face of the mast level with the tops of the heat shrouds of the diesel exhausts.



Fit the Upper Yardarms, etched parts 56, centrally to each side of the mast so that the horizontal main bar is level with the top of the mast. Fit the Yardarm Stays, etched parts 57 as shown above. Fit the smaller Lower Yardarms, etched parts 60, to the sides of the mast just below the diesel exhaust heat shrouds. Fit the Yardarm Stays, etched parts 59 as shown above. Fit the Sword and Shield antenna, etched part 58 into place as shown on the starboard side Upper Yardarm. Fit the two RAS Gantry assemblies, etched parts 73, into place on the vertical pillars on each side of the ventilator housing. Shape the Main Mast Gaff, etched part 68, to fit onto the port side of the mast top with the single stay locating centrally to the back of the mast top.

## Main Deck Railings and Life Raft Location

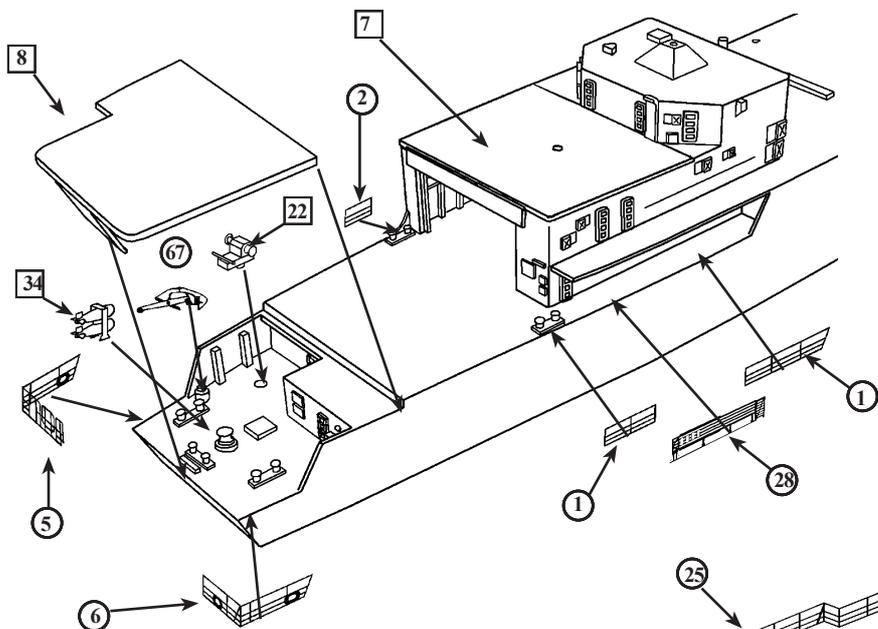
Shape and fit the railing section, etched part 4, to the front of the hull step. Fit the Forward Main Deck Railings, etched parts 13, so that the forward stanchion comes against the rear stanchion of etched part 4. The rear sections of etched part 13 are angled in to places to take the run of railing inboard behind the feet of the boat davits. There are also pairs of life raft canisters fitted in these recesses as shown below. Fit railings sections, etched parts 17, to the edges of the fo'c'sle deck.



Fit the life raft canisters to the edges of the deck where the railings are angled inwards, and just forward of the hangar on the port side.

Fit the anchors, metal parts 23, into place by drilling out the hawse pipe holes on each side of the bow with a 1mm diameter drill.

## Flight Deck, Quarterdeck and Hangar Railings Assembly

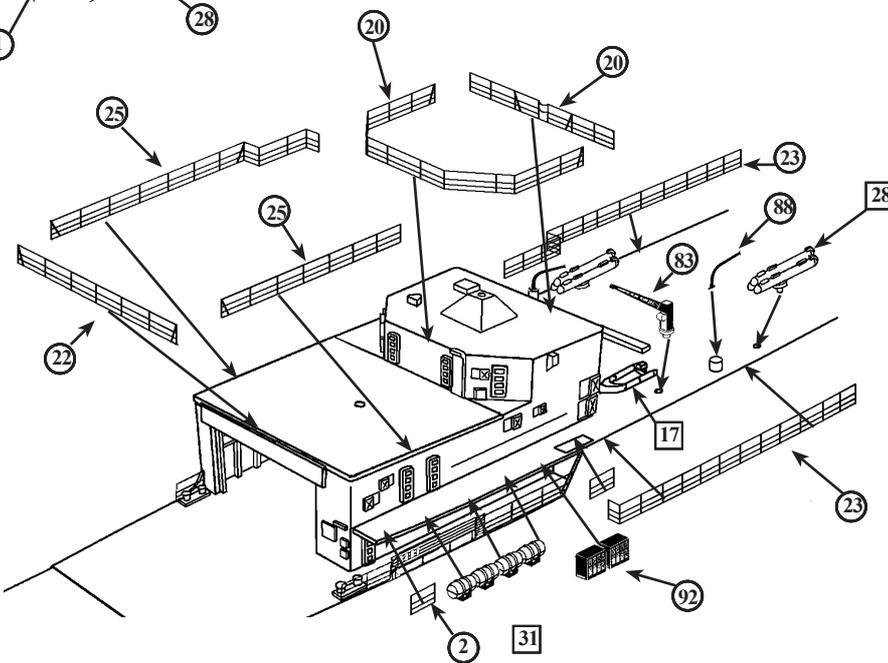


Before fitting the Flight Deck into place it may be desired to paint and finish the quarterdeck area first of all as access will be limited once the flight deck is in place. Fit the 182 Decoy Winch, metal part 22 to the forward locating hole on the port side. Fit the Decoy Crane jib, etched part 67, to the top of the Pintle moulded in place on the port side. Fit the 182 Decoys to the deck as shown, just inboard of the bollards on the port side. Fit the Flight Deck into place as shown and fill any seams at the points of attachment. Shape and fit the railings sections, etched parts 5 and 6, to fit around the stern quarters deck edges as shown left.

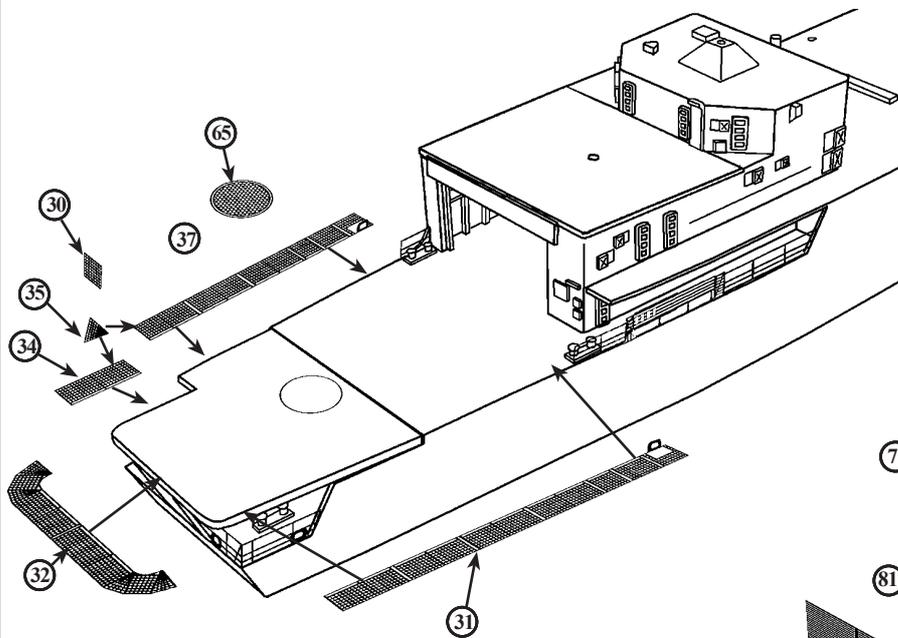
Fit the forward section of etched part 1 into place so that the angled end fits against the angled spray shield of the hull side. Fit the stowed accommodation ladder, etched part 28, into place so that the forward end butts up against the stanchion of the railings. Fit the rear section of railings, etched part 1, so that they continue on away from the accommodation ladder.

Shape and fit the railings sections, etched parts 20, to the hangar roof, with the longer section fitting to the port side as shown. Join the two side sections across the rear edge of the hangar roof with railing section etched part 22. Shape and fit the railings sections, etched parts 23, to the aft superstructure deck or 910 director deck. Shape and fit the railings sections etched parts 23, to the main deck, so that the forward stanchions meet up to the rear stanchions on the angled out parts of the forward railings sections etched parts 13. The starboard side railing section rear portion turns 90° to cover the rear of the ladders access hole, whilst the small railing section fits along the inside of the ladder access hole. On the port side section the rear portions of the railing turns inboard 90° then aft to take the railings behind the two life raft canisters.

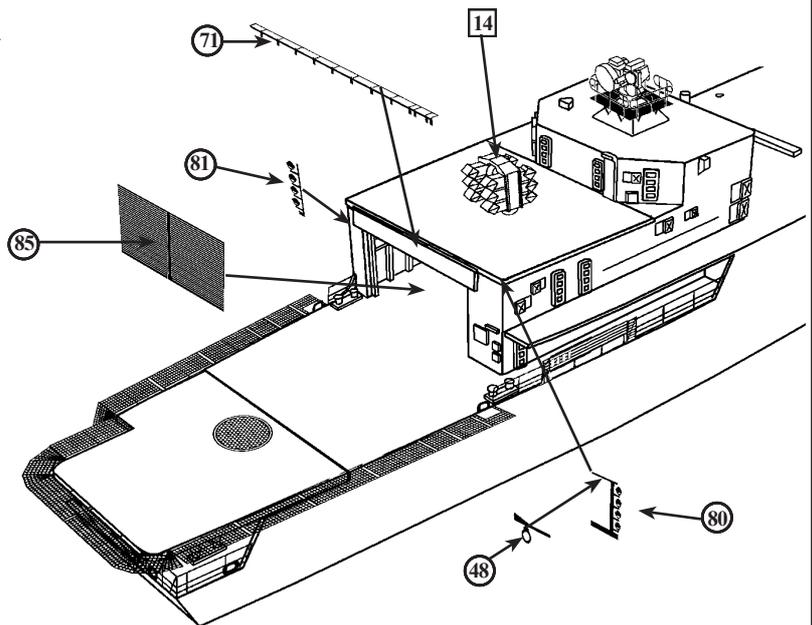
Fit the STWS Torpedo tubes, resin parts 28, to the two forward locating holes on the main deck. Fit the small boat cranes assemblies to the two aft locating holes on each side of the main deck. A Gemini Inflatable boat may be placed on the deck adjacent to each of these cranes if desired. Fold the Torpedo Loading Davits, etched parts 88, in half so that they are double thickness with the relief etched detail outermost. Fit to the tops of the pintles at the rear of the STWS Torpedo tubes as shown right. Fit the fuel can stowage racks directly aft of the access ladder hole on the deck edges starboard side. Continue aft by fitting more life raft canisters then finish off by fitting the remaining railing section, etched part 2 to the aft deck edge so that it comes against the floodlight bracket



## Flight Deck Safety Nets and Hangar Fittings Location



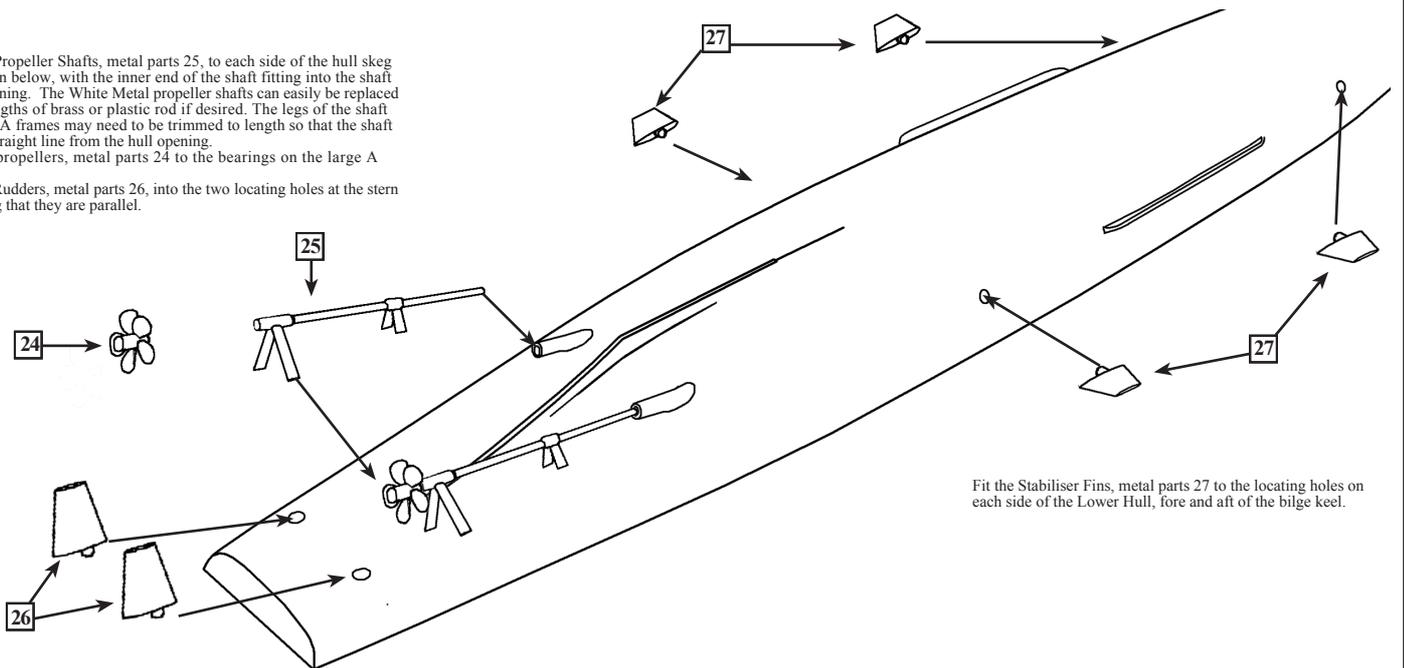
Fit the Harpoon Hold Down Grid, etched part 65, centrally to the flight deck as shown. Refer to the Colour Plan for exact fore and aft positioning.  
 Fit the Flight deck Safety Nets as shown above. These have been shown in their lower positions for flight operations. These can be fitted in their raised positions by cutting out the angled corner sections of etched part 32 and omitting etched part 35. Etched part 30 is then fitted upright at the forward end of the deck cut out.



The hangar doors, etched part 85, can be fitted in the open or closed position. If they are to be fitted in the open or partially open position, these are rolled up to the desired amount and then fixed into place under the aft edge of the hangar roof. The doors can also be separated down the central pillar so that only one door can be shown in the open position.  
 Fit the Flight Deck Floodlight brackets, etched parts 80 and 81 to the starboard and port sides of the hangar as shown below. The floodlights can be made to be more ED by cutting small lengths of 30thou plastic rod and fitting to the forward face of each floodlight to represent the light shroud.  
 Fit the Glide Path Indicator Lamp etched part 48 to the top horizontal beam on etched part 80 as shown.

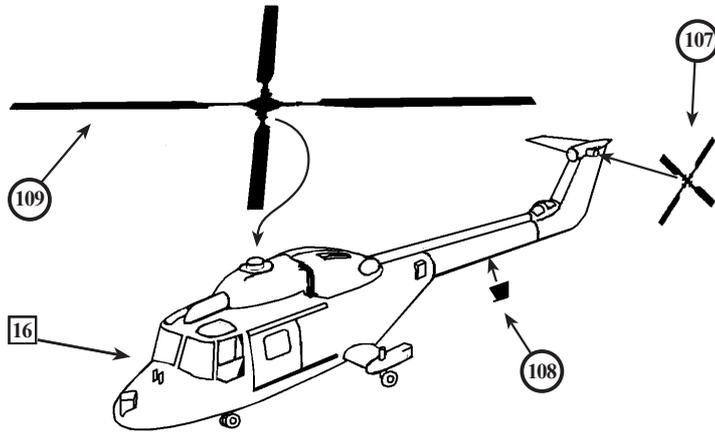
## Underwater Fittings and Running Gear

Fit the Propeller Shafts, metal parts 25, to each side of the hull skeg as shown below, with the inner end of the shaft fitting into the shaft hull opening. The White Metal propeller shafts can easily be replaced with lengths of brass or plastic rod if desired. The legs of the shaft bearing A frames may need to be trimmed to length so that the shaft sits in straight line from the hull opening.  
 Fit the propellers, metal parts 24 to the bearings on the large A frames.  
 Fit the Rudders, metal parts 26, into the two locating holes at the stern ensuring that they are parallel.

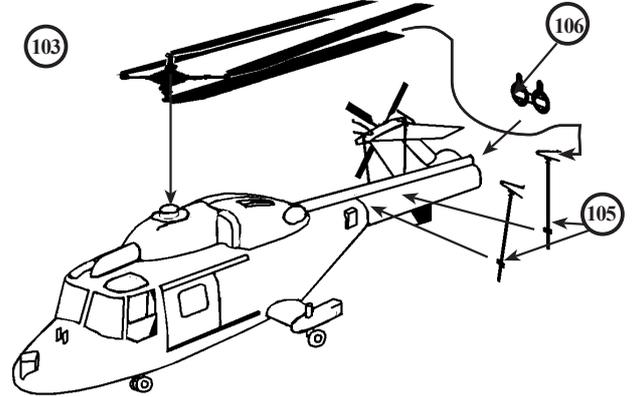


Fit the Stabiliser Fins, metal parts 27 to the locating holes on each side of the Lower Hull, fore and aft of the bilge keel.

## Westland Lynx HAS3 Helicopter Assembly



Fit the main and tail rotor blades, etched parts 109 and 107, as shown above.  
Fit the blade aerial 108 to the underside of the tail cone.



If the helicopter is to be displayed folded, use the folded Main Rotor Blades, etched parts 103 in lieu of etched part 109. Cut the tail pylon off completely at the fold joint as shown, and fit the fold joint, etched part 106. This will allow the tail to be reattached in the folded position with ease. Fit the folded main rotor blades so that they are positioned over the tail, then fit the blade support poles in pairs to each side of the tail cone. The blades then fit into the slot on top of the pole.

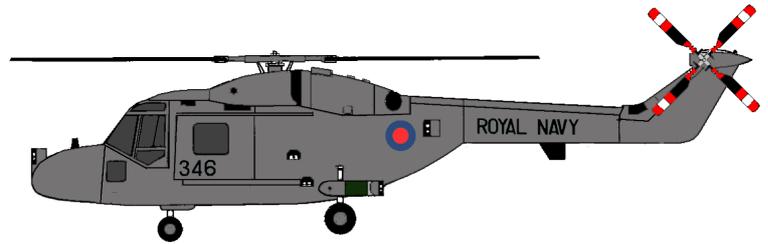


Humbrol 164  
Dark Sea Grey

The primary colour of the Lynx as stated is for the aircraft as immediately post Falklands conflict. Before and during the conflict it seems that they were still in the Oxford Blue scheme.

### Ships Flights Codex Numbers

346 & 347/ HMS Broadsword    402 & 403/ HMS Battleaxe  
342 & 343/ HMS Brilliant    330 & 331/ HMS Brazen



### Other Colours Used

Matt Black..... Wheel Tyres, Undersides of Rotor Blades.  
Olive Green..... Top Surfaces of the Rotor Blades  
Red and White .... Tail Rotor Blade Tips  
Gloss Black.... Tail Rotor Blades

## Other Instructions

1. Etched parts 61 are stock lengths of Anchor chain that can be used to fit on the focsle from the two Anchor Hawse Pipe holes, aft around the Capstans and forward to the shrouded deck ports that go down the cable lockers. There is also sufficient Anchor Chain to allow for a ship to be portrayed in a diorama, sitting at anchor with the chain running from the Hawse Pipe hole to the surface of the waterscape.
2. Some parts in the photo etched set have been included for other kits and are not required for the HMS Broadsword. These are fairly obvious from the listing at the front of these instructions, but they may be useful if any conversion work to build any other ship of the Batch 1 class is being done.
3. Please read through these instruction thoroughly before commencing any assembly work, as there may be relevant sections further along that may require attention before completing and earlier procedure.
4. Prepare your model before assembly by washing all resin parts in warm soapy water and left to dry completely. There may be some resin or metal "Flash" on the edges of some that must be cleaned of, usually with a quick brush of with fine wet or dry paper. Any mould pouring lugs and ejector pin stubs must be removed from mating faces before assembly commences to ensure a snug fit.
5. The decals provided in this kit are of the water slide type. Please do not try and peel them off the backing paper, as they will not. Cut out each decal and soak in luke warm water until it releases from the backing paper. The decal can then be slid into position on the model, carefully adjust the position as necessary with an artists brush. The decals are best applied to a glossy surface as this will prevent any silvering where air is trapped under the decal applied to a mat surface. Varnish the areas where the decals are to be applied with gloss varnish and allow to dry thoroughly before applying the decals. Humbrol Gloss Coat is ideal for the job as it is clear and doesn't go yellow with time. The entire areas may then be sprayed over with Matt Coat once the decals have set into position.

# Main Colour Chart and Painting Guide



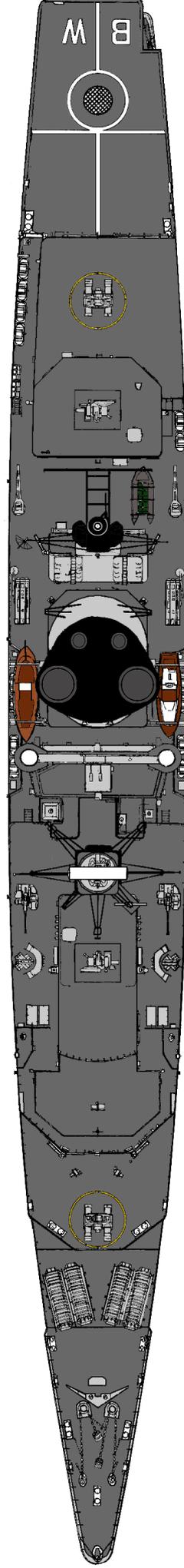
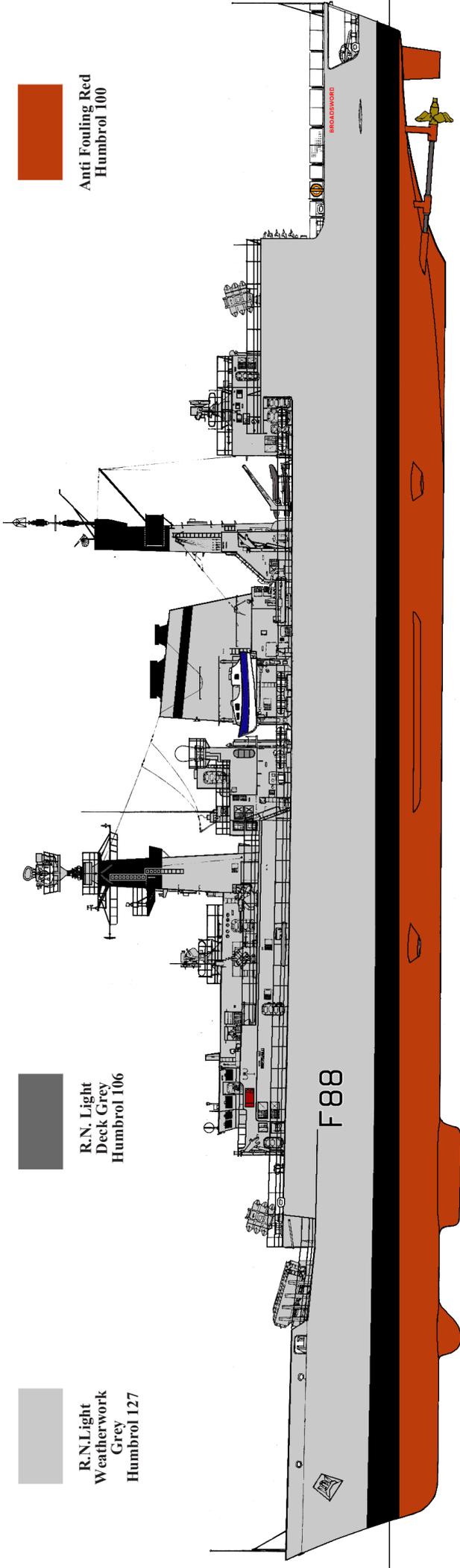
R.N. Light  
Weatherwork  
Grey  
Humbrol 127



R.N. Light  
Deck Grey  
Humbrol 106



Anti Fouling Red  
Humbrol 100



The colour guide above shows the main scheme and the areas covered. There are smaller less obvious areas that are listed below.

Matt Black.

Upper parts of Masts and Exhaust Stacks. Gun Barrels. Waterline Boot Topping. Funnel Top, Black Funnel Band

Off Black

Gemini Inflatable Boat, Decking in RHIBs.

Matt White

SCOT Radomes, Bollards, Fairleads and Deck Fittings such as Capstans, 967/968 Radar Antenna Whaler Below Waterline, Cheverton Motor Boat Coachwork and Lower Hull. Life Raft Canisters

Bronze

Propellers.

## Pennant Numbers Flight Deck Code Letters for all Ships of the Class

F88 HMS Broadsword / BW F89 HMS Battleaxe / BX  
F90 HMS Brilliant / BT F91 HMS Brazen / BZ

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