

Type 42 Destroyer H.M.S. NEWCASTLE 2003 1/350 Scale

The Type 42 Class of Destroyers were designed in the 1960s to provide area air defence for the fleet, following the cancellation of the larger Type 81 Destroyer that was part of the CVA01 package. A total of 14 Type 42s were built in three batches between 1970 and 1985 the last batch of four ships being considerably enlarged and modified, following lessons learned after the loss of two of the class (HMS Sheffield & HMS Coventry) during the Falklands campaign of 1982.

HMS Newcastle was the third ship of the first batch of Type 42s to be accepted into service. She was laid down at Swan Hunters, Tyne and Wear shipyard on 21st February 1973 and launched on 24th April 1975. She was commissioned into the fleet on 23 March 1978 and served for 27 years patrolling the seas and visiting ports all over the world.

In 1982 HMS Newcastle was deployed to the Falkland Islands as part of the second task group that provided escorts for the carrier HMS Illustrious, sent to relieve the ships that had remained there after the Argentine surrender on the islands. She and HMS Southampton were at sea in the areas until the end of the year.

HMS Newcastle deployed as West Indies Guardship on a number of occasions, during which time she provided support and relief to the island of Montserrat after it had been hit by a volcanic in early 1998.

In 1999 she was escort to HMS Invincible during operations in the Adriatic off Kosovo, during which Invincible carried out air strikes on Serbian targets. Newcastle was active from the beginning of the new millennium with deployments up and down the coasts of the Atlantic and into the Mediterranean. Her final deployment was a 7 month tour of duty in the Mediterranean after which it was announced that she and three other Type 42 would be withdrawn from service. HMS Newcastle was decommissioned on 1st February 2005 and sold for scrap being towed away to Turkey for disposal in November 2008.

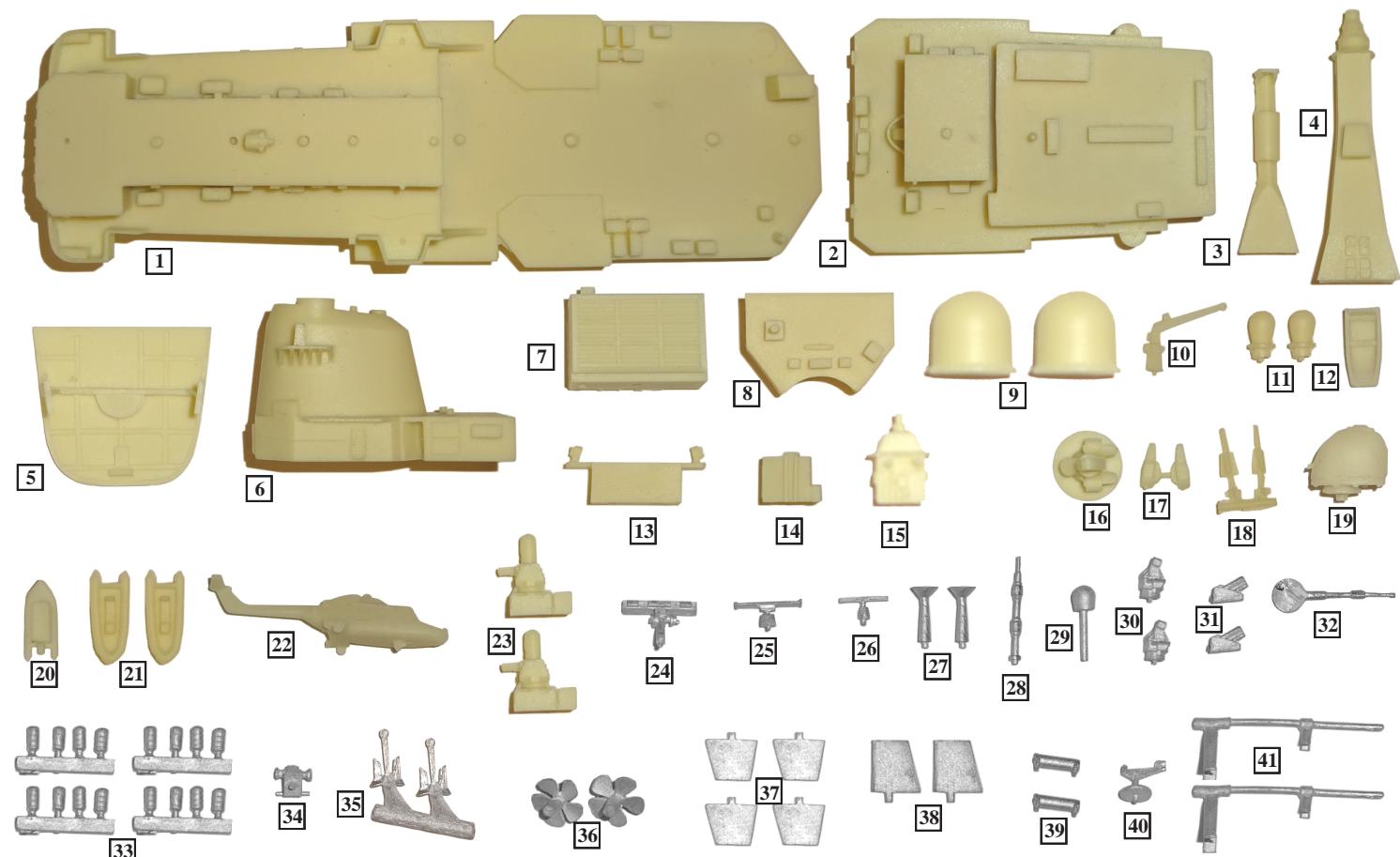
Specifications

Length 410ft (125m) Beam 47ft (14.3m) Displacement 4,820 tonnes Speed 30 kts Complement 287 - 312 Officers and Men

Armament

1 x 4.5" Mk 8 Gun 1 Twin Sea Dart Missile System 2 x 20mm Oerlikon GAMBO-1 2 x Vulcan Phalanx CIWS
2 x Triple Anti Submarine Torpedo Tubes NATO Sea Gnat and DLF 3 Decoy Launchers 1 x Lynx Helicopter

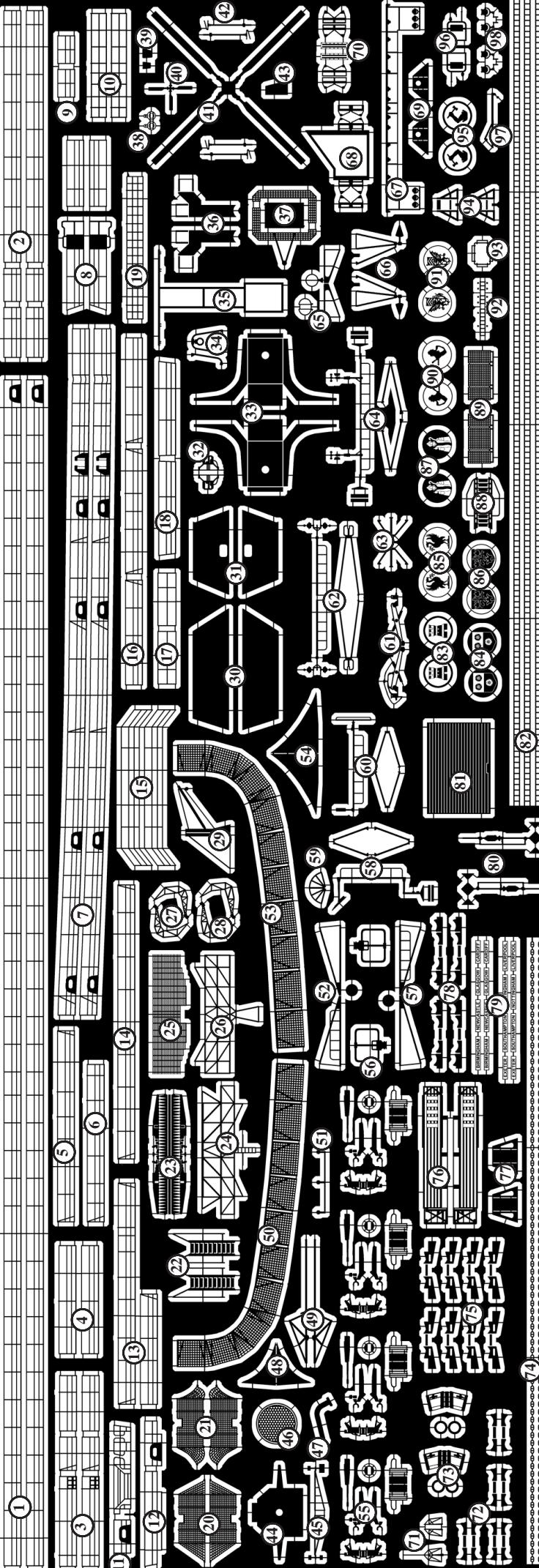
Resin and White Metal Parts Identification



- | | | | | |
|--------------------------------------|----------------------------|----------------------------|--------------------------|--------------------------|
| 1. Main Superstructure | 9. 909 Radomes | 17. Sea Dart Launcher Arms | 26. 1006 Radar Antenna | 34. Deck Winch |
| 2. Aft Superstructure and Hangar | 10. Sea Rider RHIB Crane | 18. Sea Dart Missiles | 27. HF Cone Antennas | 35. Anchors |
| 3. Fore Mast | 11. SCOT Radomes | 19. 4.5" Mk8 Gun Turret | 28. Mast Top Pole Array | 36. Propellers |
| 4. Main Mast | 12. Maintenance Punt | 20. Gemini Inflatable Boat | 29. Small Radome | 37. Stabiliser Fins |
| 5. Flight Deck | 13. ESM House | 21. Sea Rider RHIBs | 30. Ranging Sights | 38. Rudders |
| 6. Funnel | 14. SCOT House | 22. Lynx Helicopter | 31. RBOC Chaff Launchers | 39. DLF3 Decoy Canisters |
| 7. Engine Intake Box (Batch 2 Late) | 15. 1022 Radar Mast | 23. Vulcan Phalanx CIWS | 32. 4.5" Mk 8 Gun Barrel | 40. RAS Post |
| 8. Engine Intake Box (Batch 1 and 2) | 16. Sea Dart Launcher Base | 24. 996 Radar Antenna | 33. Life Raft Canisters | 41. Propeller Shafts |
| | | 25. SharpEye Radar Antenna | | |

Photo Etched Parts Identification

ATLANTIC MODELS © 2017



HMS Newcastle Type 42 Destroyer 1/350 Scale

1. Railings (Main Deck)
2. Railings (Boat/Phalanx Deck)
3. Railings (Funnel Deck)
4. Railings (Intake Box Type 1)
5. Railings (Aft Superstructure Port)
6. Railings (Aft Superstructure Stbd)
7. Railings (Focle Deck)
8. Railings (Bridge Deck)
9. Railings (Cone Antennas)
10. Railings (1022 Radar Catwalk)
11. Railing (Quarterdeck Port)
12. Railing (Quarterdeck Stbd)
13. Railing (Hangar Roof)
14. Railings (Intake Box Type 2)
15. Railings (SCOT Platforms)
16. Railings (Upper Fwd Superstructure)
17. Railings (SCOT Platform Walkways)
18. Railings (Funnel Platforms)
19. Railings (996 Radar Platform)
20. 20mm Gamo Nets (Lowered)
20. 20mm Gamo Nets (Raised)
22. Inclined Ladders (Superstr Step)
23. 1022 Radar Dipole Array
24. 1022 Radar Rear Frame
25. 1022 Radar Mesh Screen
26. 1022 Radar Forward Frame
27. 1022 Radar Outer Mountings
28. 1022 Radar Inner Mountings
29. Gemini Inflatable Boat Crane
30. Phalanx Deck Supports
31. Aft Sponsor Supports
32. Main Mast Wire Antenna Terminal
33. SCOT Platforms
34. Glide Path Indicator Mounting
35. Wire Antenna Spreader
36. SCOT Platform Walkways
37. 1022 Mast Catwalk
38. Lynx Helicopter Tail Fold Joint
39. Lynx Helicopter Tail Antennas
40. Lynx Helicopter Tail Rotor
41. Lynx Helicopter Main Rotor
42. Lynx Helicopter Blade Fold Cradles
43. Lynx Helicopter Tail Stabiliser
44. 996 Radar Platform
45. 996 Platform Yards
46. Flight Deck Hold Down Grid
47. Port Side Derrick
48. Fore Mast Rear Support (Late)
49. Main Mast Lower RAS Frames
50. 1022 Radar Mesh Screen
51. Main Mast Bottom Yardarm Port
52. Main Mast Bottom Yardarm Stbd
53. Main Mast Lower Yards
54. Main Mast Mid Yards
55. Main Mast Upper Yards
56. Main Mast Antenna
57. Main Mast Antenna
58. Main Mast Lower Yards
59. Main Mast Mid Yards
60. Main Mast Upper Yards
61. Decoy Crane
62. Bridge Front Frame
63. Bridge Front Frame
64. Fore Mast Yards
65. HF/DF Antenna
66. Fore Mast Yards (Fwd Quarters)
67. Hanger Roof Approach Light Bar
68. RHIB Cradle Frame
69. Cone Antenna Mountings
70. Sea Rider RHIB Cradles
71. Mast Top DF Antenna
72. Life Raft Canister Racks (Single)
73. Life Raft Canister Racks (Single)
74. Anchor Chain
75. Life Raft Canister Racks (Hangar Sides)
76. Accommodationadders Stowed
77. Flight Deck Floodlight Platforms
78. Life Raft Canister Racks (Double)
79. Ships Name Plates
80. Dan Bouys
81. Hangar Roller Door
82. Vertical Ladder Stock
83. Funnel Badge (Newcastle)
84. Funnel Badge (Southampton)
85. Funnel Badge (Liverpool)
86. Funnel Badge (Nottingham)
87. Funnel Badge (Glasgow)
88. Inclined Ladder (Quarterdeck)
89. Aft Oerlikon Deck Nets
90. Funnel Badge (Exeter)
91. Funnel Badge (Cardiff)
92. Mk8 Gun Turret Ladders
93. Mk8 Gun Turret Top Rail
94. Bridge Front Sensor Brackets
95. Funnel Badge (Birmingham)
96. RHIB Roll Bars
97. Fore Mast Gaff
98. Signal Lamps

General Precautions

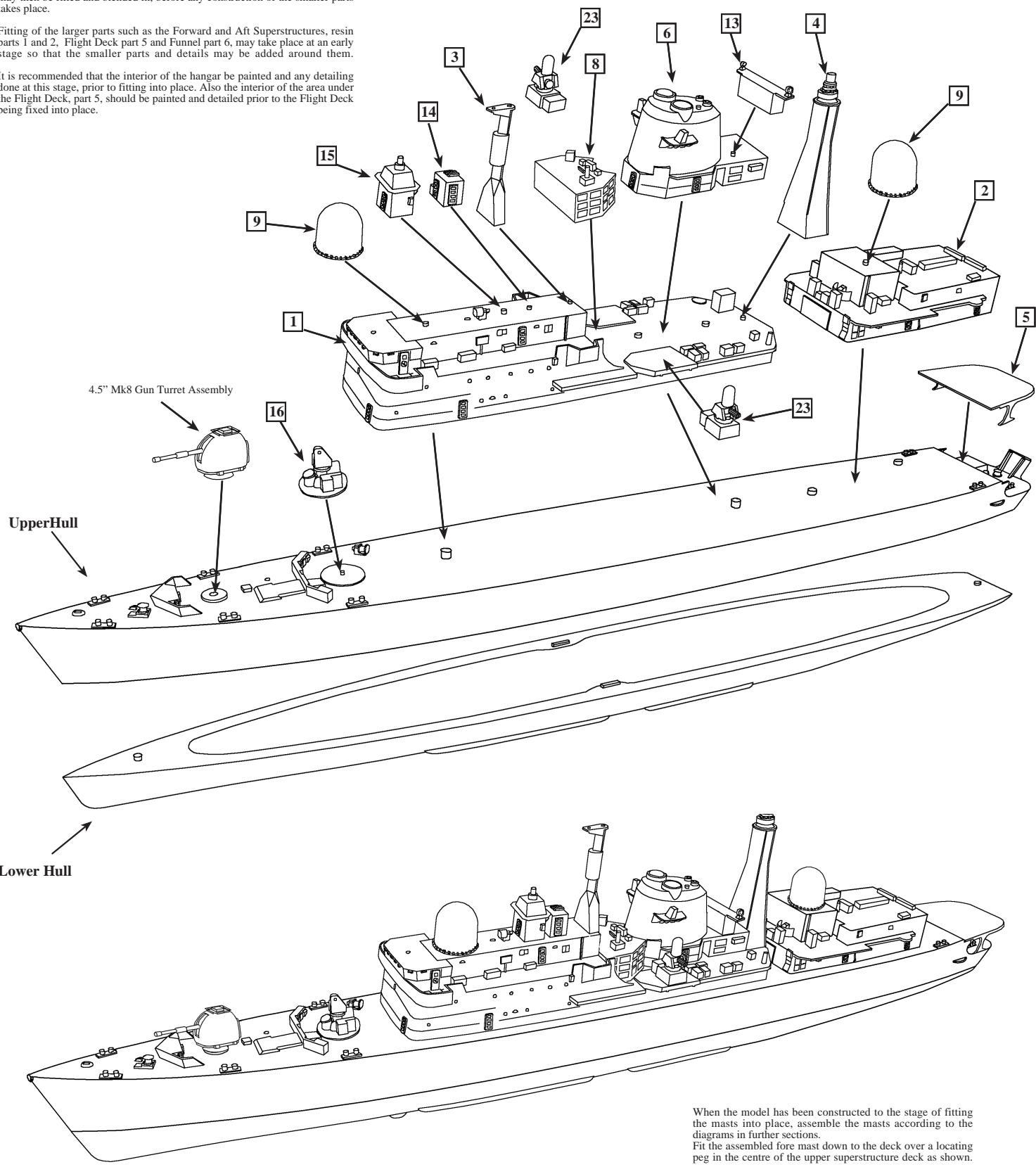
- When assembling a Resin / Photoetched metal kit, certain precautions must first be taken.
1. Resin dust can be harmful if inhaled. It is recommended that you wear a suitable dust mask when drilling or sanding resin parts.
 2. Cyano adhesives (super glues) are generally used to assemble this type of 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 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 Forward and Aft Superstructures, resin parts 1 and 2, Flight Deck part 5 and Funnel part 6, may take place at an early stage so that the smaller parts and details may be added around them.

It is recommended that the interior of the hangar be painted and any detailing done at this stage, prior to fitting into place. Also the interior of the area under the Flight Deck, part 5, should be painted and detailed prior to the Flight Deck being fixed into place.

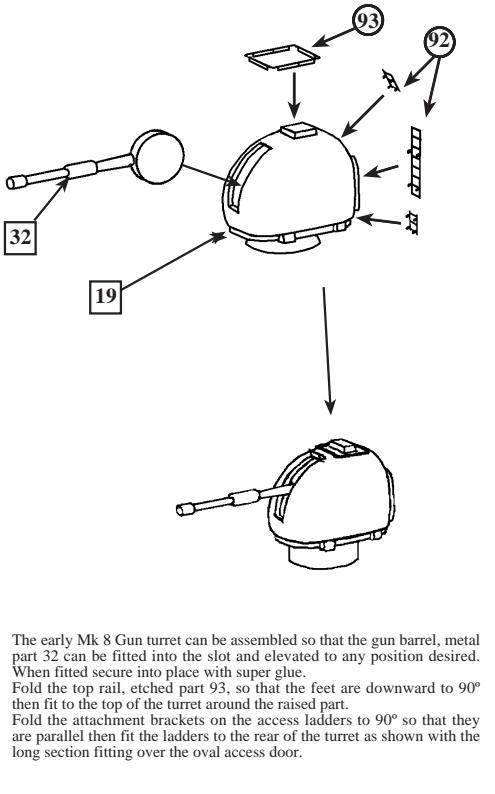


When the model has been constructed to the stage of fitting the masts into place, assemble the masts according to the diagrams in further sections.

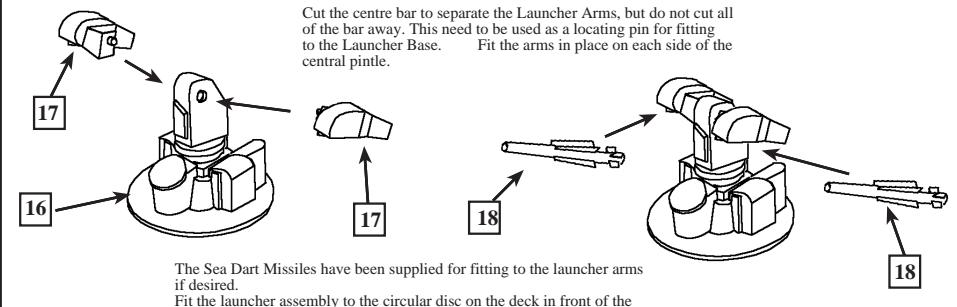
Fit the assembled fore mast down to the deck over a locating peg in the centre of the upper superstructure deck as shown.

The Main Mast locates aft of the funnel housing over a single locating peg. It is recommended that the Main Mast is fitted into place before detailing owing to the delicate nature of the fittings. The assembly of the Main Mast is covered in more detail in a further section of these instructions.

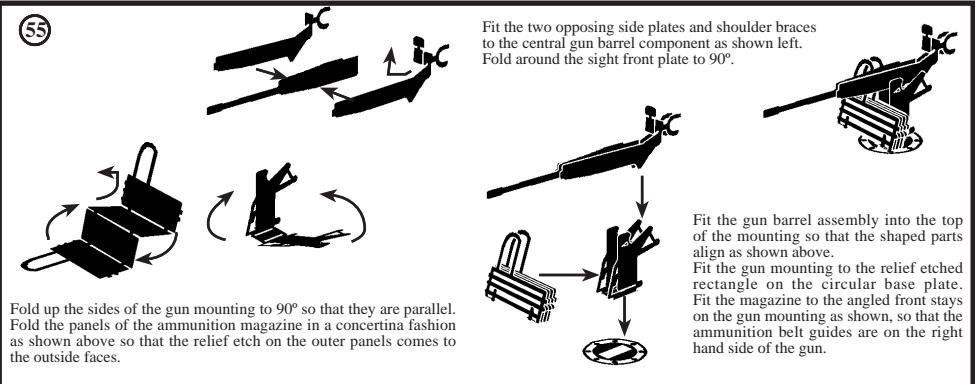
4.5" Gun Turret Assembly



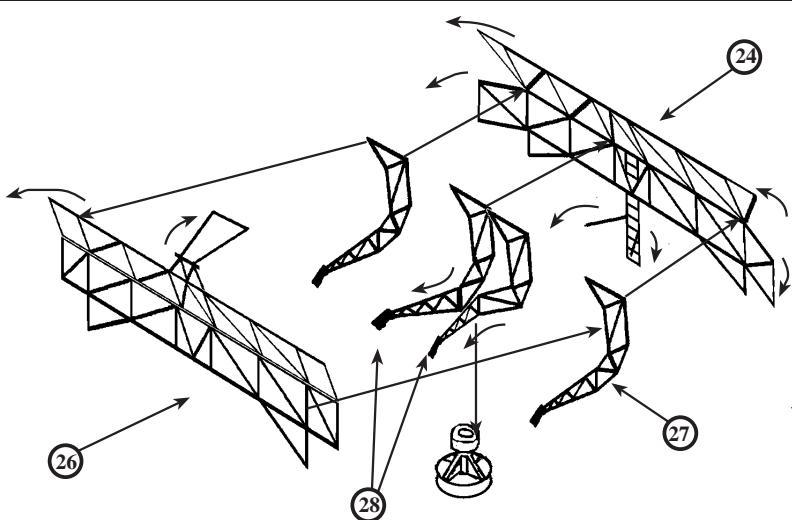
Sea Dart Launcher Assembly



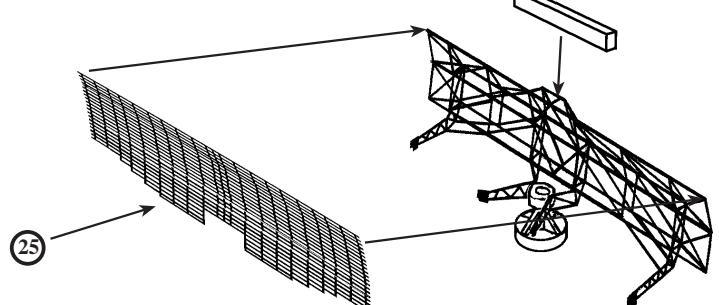
20mm Oerlikon GAMBO1 Mounting Assembly



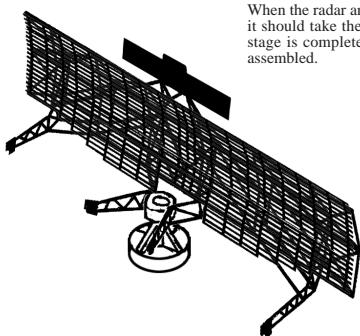
1022 Radar Antenna Assembly



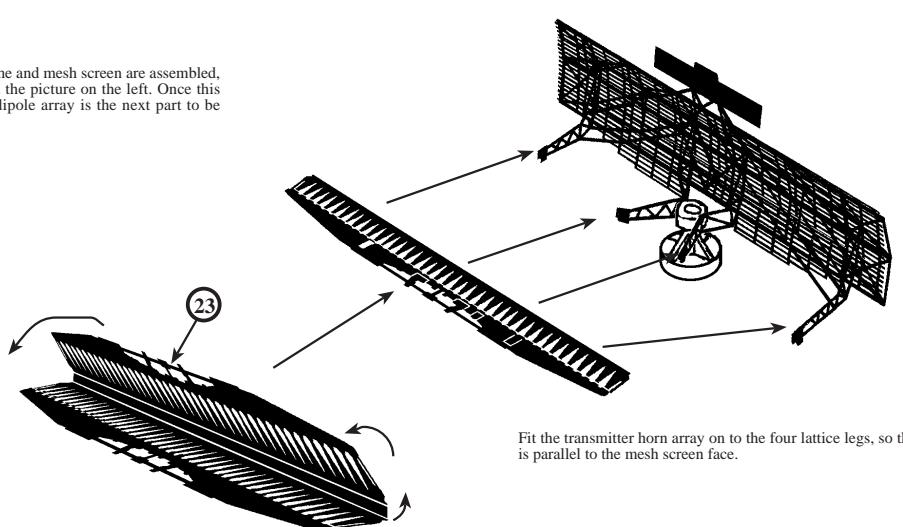
Fold the top section of the forward frame, etched part 26, forwards slightly, then fit the two frames 27 to the outer upright bars, so that the lower legs rest against the angled stay on the bottom of the frame. Fold the top of the rear frame, etched part 24, forwards slightly then fit to the rear of etched parts 27 and 28. Fold the end sections of the rear frame forward until they touch the outer uprights on the front frame. Secure them in place. The upper portion of the angular bracket on top of the forward frame folds rearwards and downwards until it attaches to the rear central horizontal bar on the rear frame. Secure this in to place.



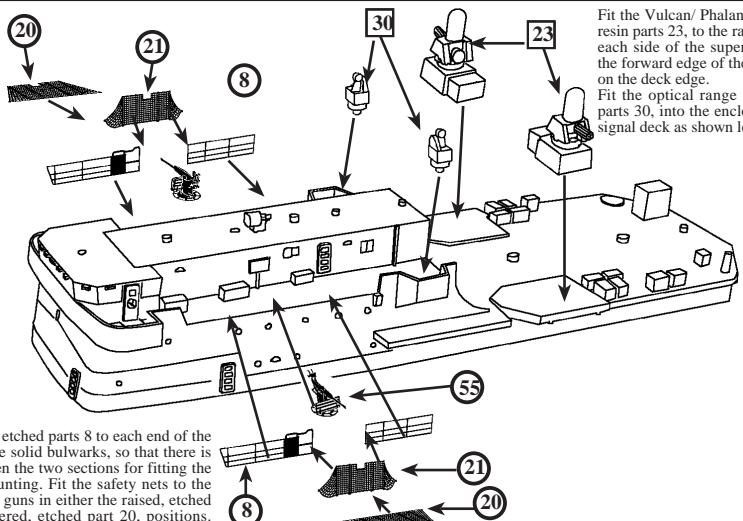
When the radar antenna support frame and mesh screen are assembled, it should take the form as shown in the picture on the left. Once this stage is complete, the transmitter dipole array is the next part to be assembled.



Fold the dipole array along the two etched lines so that the long thin strip is vertical and the two sets of horns are parallel. Bend the upper and lower rear halves outwards so that when the two halves are brought together they will meet flat at the rear, with the horns on the upper and lower halve angled by the same amount up to the front strip. When complete secure the two rear halves together.

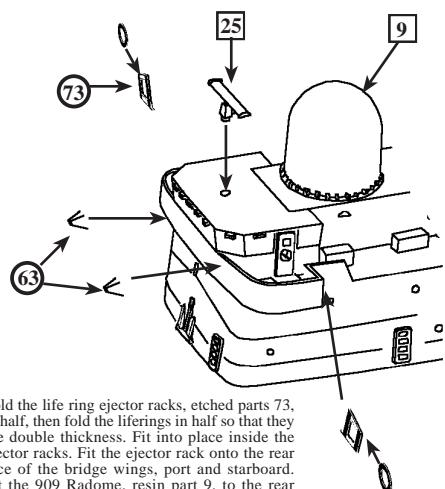


Forward Superstructure AA Weapons and Sighting Equipment



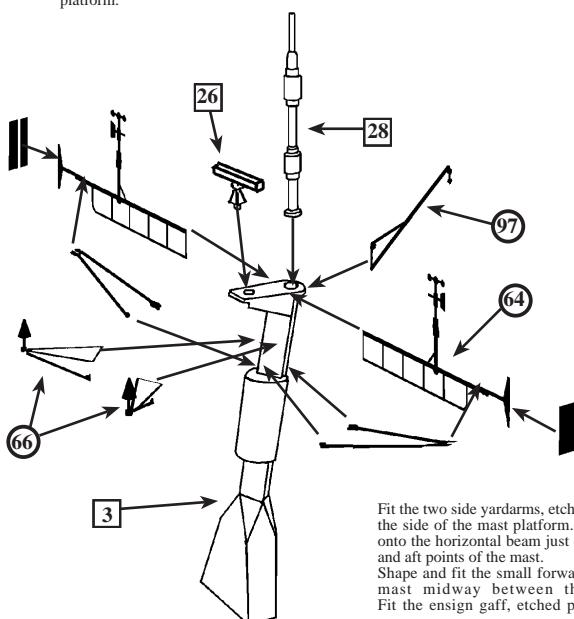
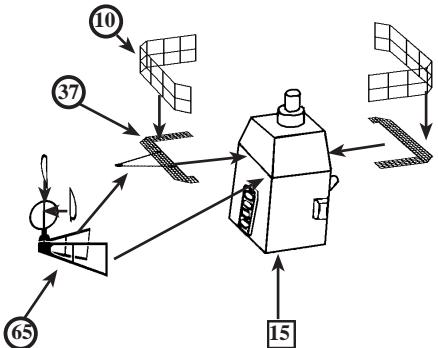
Fit the Vulcan/ Phalanx mountings, resin parts 23, to the raised bases on each side of the superstructure, so the forward edge of the mounting is on the deck edge.
Fit the optical range sights, metal parts 30, into the enclosures on the signal deck as shown left.

Bridge Front Fittings Location



1022 Mast and Fore Mast Assembly

Fit the mast top pole antenna, metal part 28 into place in the rear locating hole on the Fore Mast platform.
Fit the 1006 radar antenna, metal part 26, to the front locating hole on the mast platform.



Fold the DF Antenna yard in half until it is at the angle shown above, then fit into place to the undersides of the stays on the catwalk. Fit the two side sections of the DF aerial, to the central bar to make up the four section antenna.

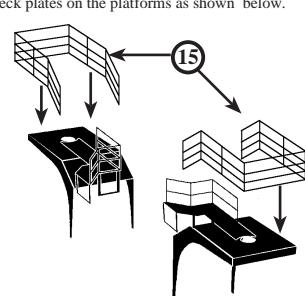
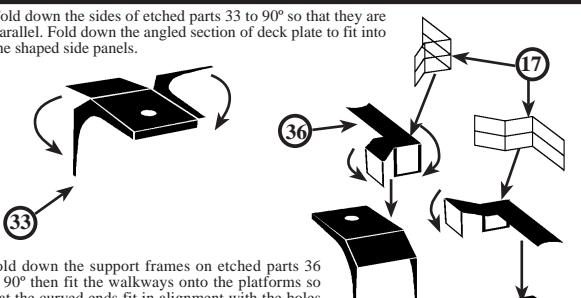
The 1022 radar antenna base stub should be removed before this assembly takes place, and retained for use in the assembly of the radar antenna sequence.

Fit the two side yardarms, etched parts 64, so that the horizontal beam end fits against the side of the mast platform. Fit the yardarm stays so that the slot at the point fits onto the horizontal beam just outboard of the footbars. Fit the inner ends to the fore and aft points of the mast.

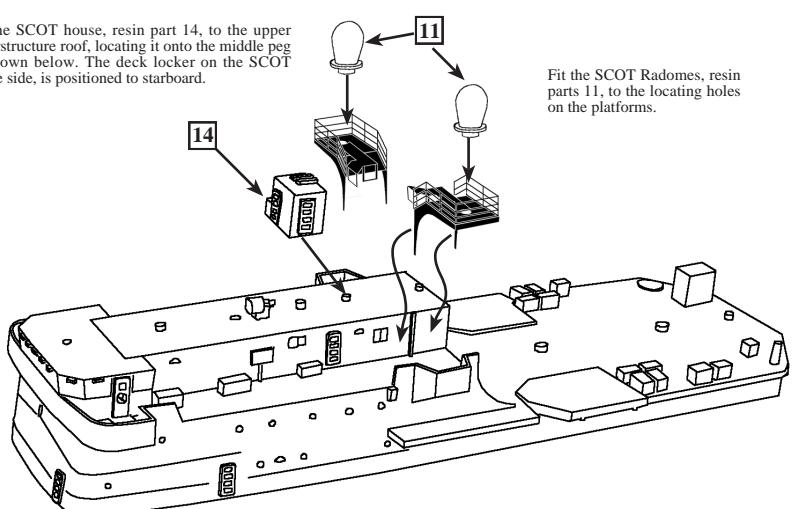
Shape and fit the small forward yards, etched parts 66, to the forward faces of the mast midway between the platform and the absorbent shield panel. Fit the ensign gaff, etched part 97 to the rear of the mast as shown above left.

SCOT Antenna Platform Assembly and Location

Fold down the sides of etched parts 33 to 90° so that they are parallel. Fold down the angled section of deck plate to fit into the shaped side panels.



Fit the SCOT house, resin part 14, to the upper superstructure roof, locating it onto the middle peg as shown below. The deck locker on the SCOT house side, is positioned to starboard.

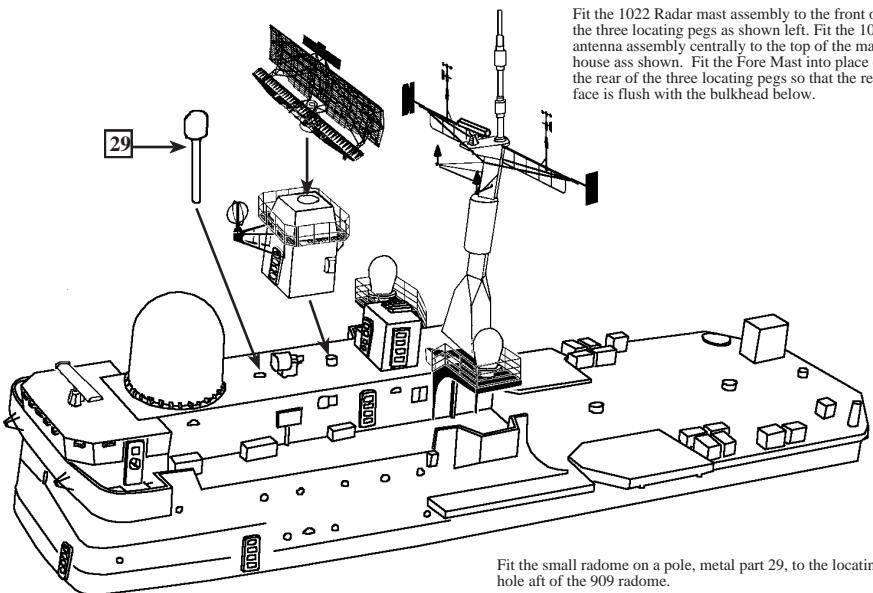


Fit the SCOT Radomes, resin parts 11, to the locating holes on the platforms.

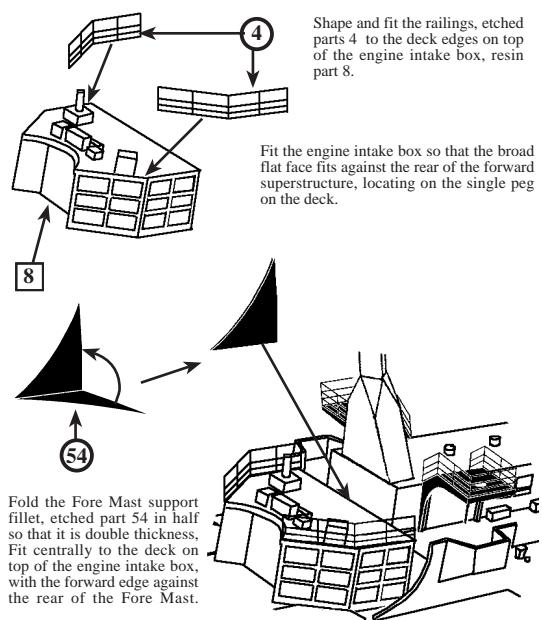
Shape and fit the railings, etched parts 17, to the outer edges of the walkways as shown above.

Fit the SCOT platform assemblies to the sides of the upper superstructure, so that the edges of the angled deck plates on the platforms fit against the edges of the superstructure deck. The side supports fit against the sides of the vertical walls. The platforms should be positioned so that they extend directly over the range sight enclosures on the deck below.

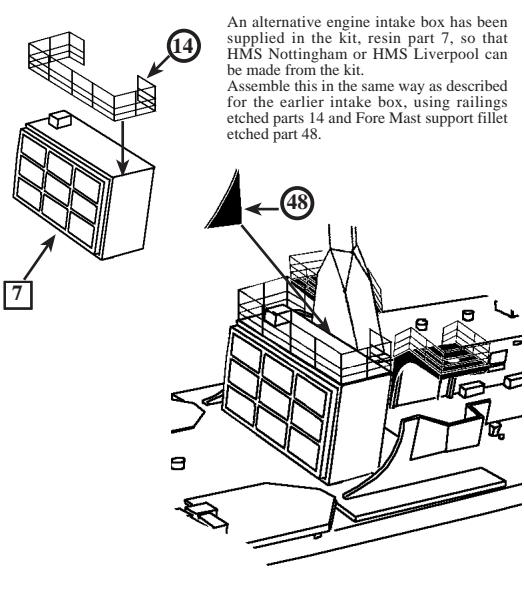
1022 Radar Assembly Location



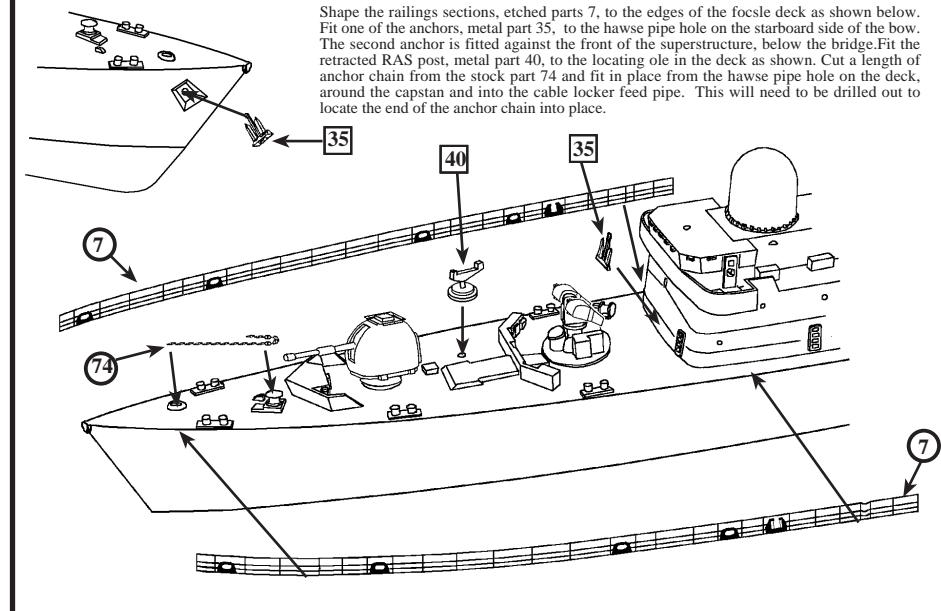
Early Engine Intake Box Assembly



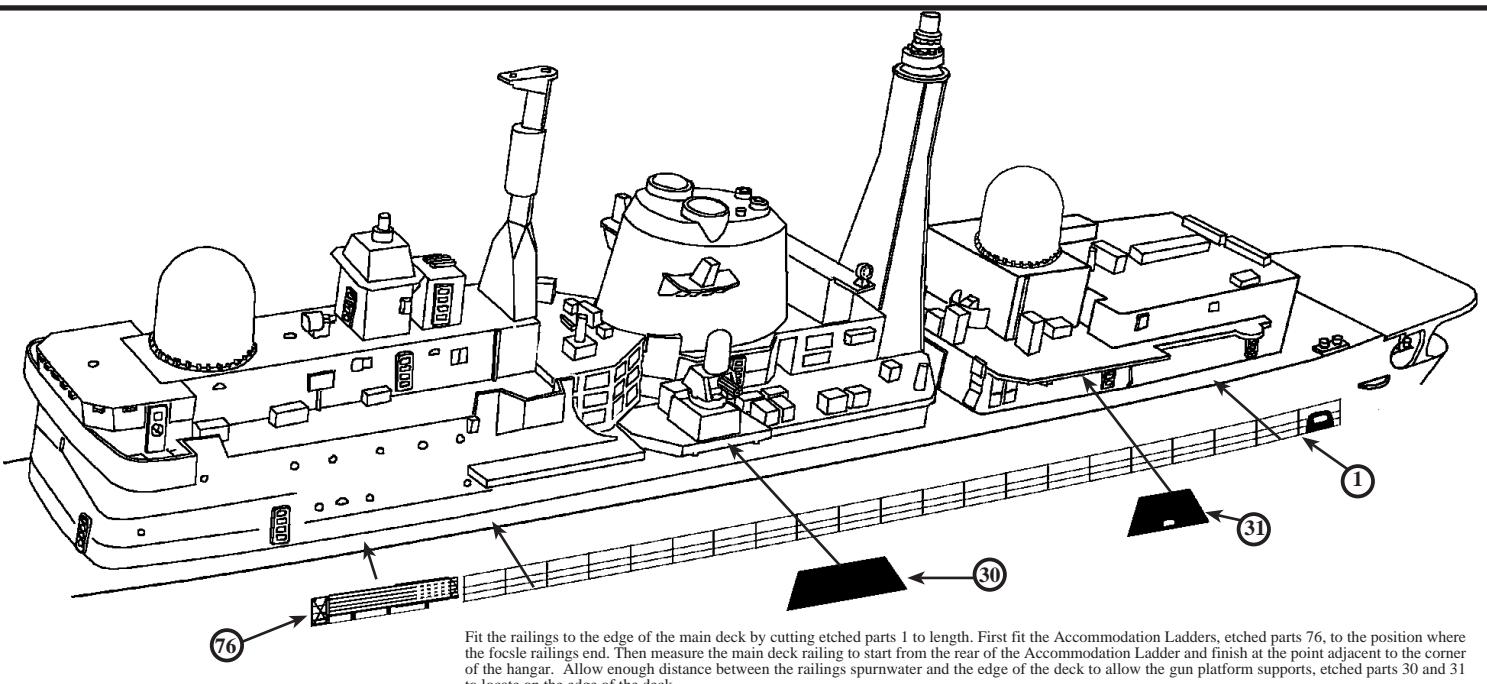
Late Engine Intake Box Assembly



Fo'c'sle Railings and Fittings Location



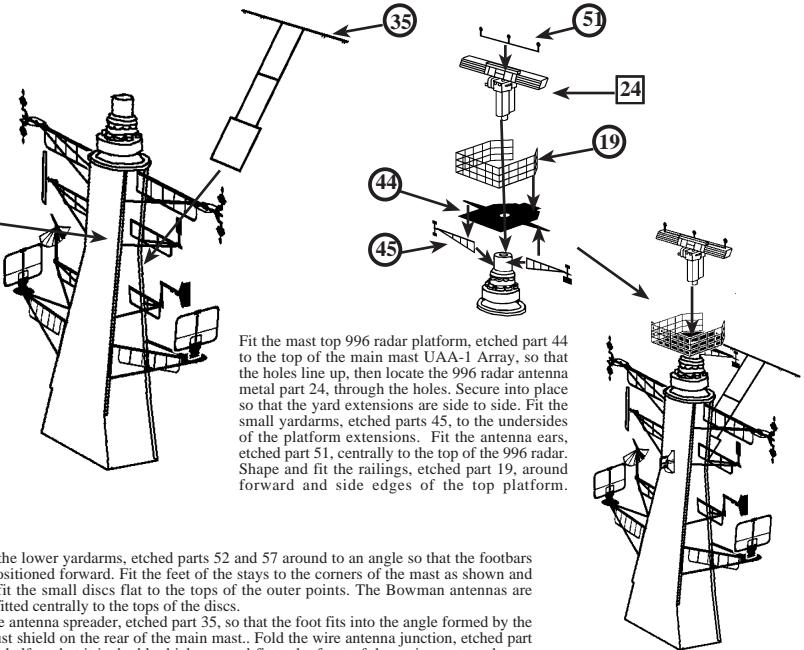
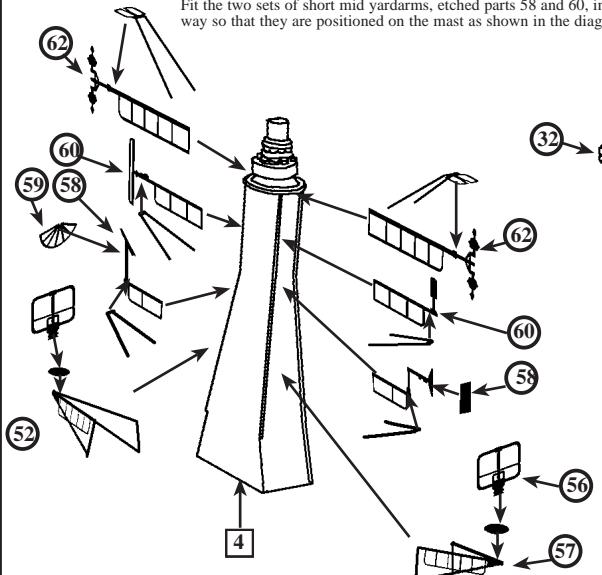
Main Deck Railing and Gun Deck Supports



Main Mast and 996 Radar Antenna Assembly

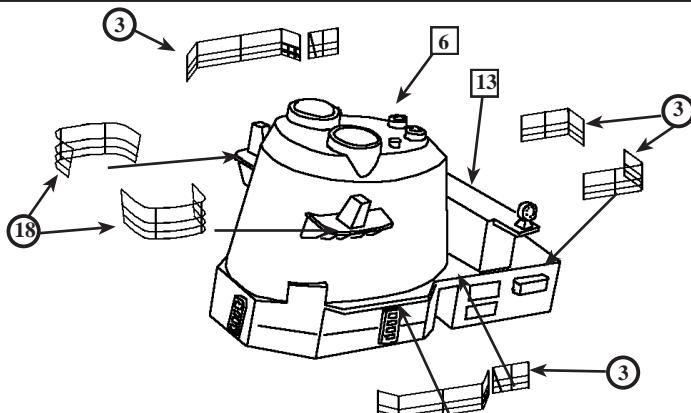
Fit the two top yardarms, etched parts 62, centrally to the sides at the top of the main mast, resin part 4. Fit the oval loop at the end of the stays, so that the slot fit into place on the end arrays. Fold the legs of the stays down until the feet attach to the corners of the mast.

Fit the two sets of short mid yardarms, etched parts 58 and 60, in a similar way so that they are positioned on the mast as shown in the diagram right.



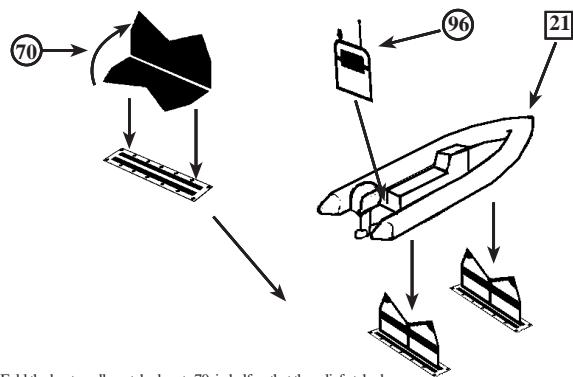
Fit the mast top 996 radar platform, etched part 44 to the top of the main mast UAA-1 Array, so that the holes line up, then locate the 996 radar antenna metal part 24, through the holes. Secure into place so that the yard extensions are side to side. Fit the small yardarms, etched parts 45, to the undersides of the platform extensions. Fit the antenna ears, etched part 51, centrally to the top of the 996 radar. Shape and fit the railings, etched part 19, around forward and side edges of the top platform.

Funnel Fittings and ESM House Location



Fit the ESM sensor house, resin part 13, to the locating pegs at the rear of the funnel, so that the small platforms are positioned to the rear. Shape and fit the railings sections, etched parts 3, as shown to the edges of the deck. Shape and fit the antenna platform railings, etched parts 18, to the edges of the funnel platforms. A section of vertical ladder, etched part 82, can be used to run from the angled deck extension at the sides of the funnel, up to the rear underside of the antenna platforms. Funnel badges for particular ships may be fitted outboard of the antenna platform railings.

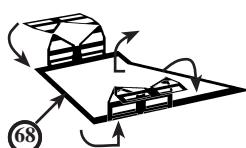
Sea Rider RHIB and Cradle Assembly



Fold the boat cradles, etched parts 70, in half so that the relief etched detail is outermost, and secure in to place. Fit the lower edges of all the cradles in to the etched slots on the base plates as shown above.

Fit the boats in to the cradles before fitting to the deck, so as to ensure correct spacing. Fit the self righting gear frame, and the steering wheel as shown right.

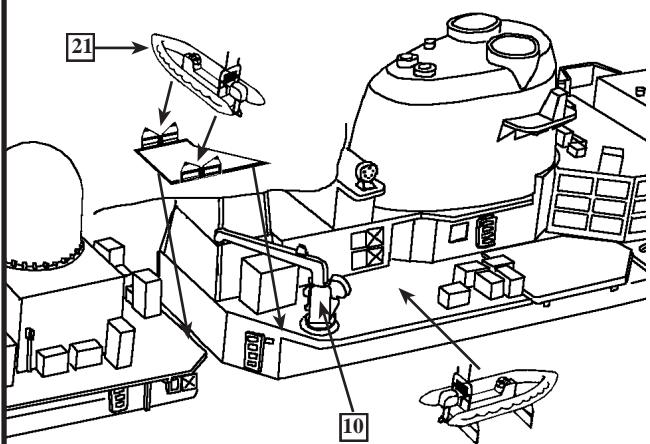
Additional Boat Cradle Support Frame



Fold the boat cradles on the ends of etched part 68, in half so that they are double thickness.

Fit the assembly into place so that it bridges across the gap between the fore and aft superstructures. The shape of the side beams corresponds to the shape of the deck edges to which they are attached.

Fit one of the RHB Sea Rider boats into the cradles as shown below.

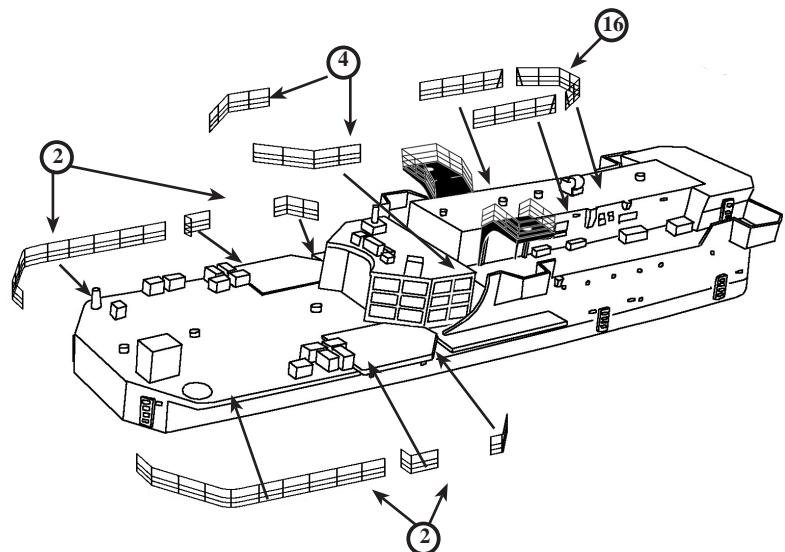


Fit the boat crane, resin part 10, into position on the raised disc on the deck. The crane can be fixed at whatever position desired, either stowed or set in an outboard angle for launching a boat. Fit the second RHIB Sea Rider boat to the deck on the starboard side of the superstructure, just forward of the boat crane.

Forward Superstructure Railing Location

Shape and fit the railings sections, etched part 2, to the aft deck edges of the forward superstructure as shown. The longest sections turn inwards and the afts ends fit against the main mast. The two short sections fit to each side of the Vulcan /Phalanx mountings.

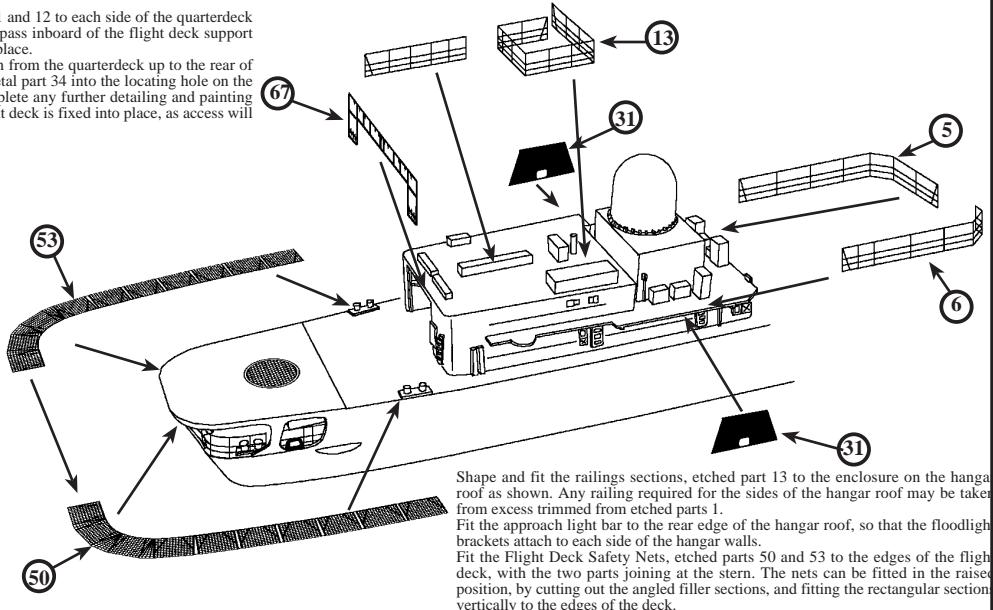
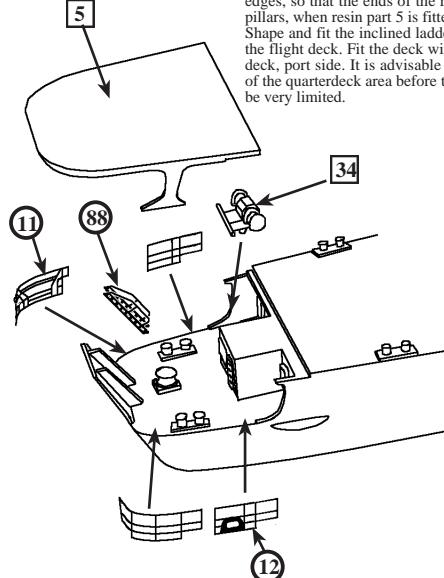
Shape and fit the railings sections, etched parts 4, to the top of the Engine Intake Box as shown below.



Fit the two straight sections of railing, etched parts 16, as continuation forwards from the ends of the angled railing on the SCOT platforms. Allow a small gap at the front ends of these sections for vertical ladder access, then shape the front section of railing so that it fits around the front of the deck gear, behind the 909 radome.

Quarterdeck and Flight Deck Fittings

Fit the railings sections etched parts 11 and 12 to each side of the quarterdeck edges, so that the ends of the railings pass inboard of the flight deck support pillars, when resin part 5 is fitted into place.
Shape and fit the inclined ladder to run from the quarterdeck up to the rear of the flight deck. Fit the deck winch, metal part 34 into the locating hole on the deck, port side. It is advisable to complete any further detailing and painting of the quarterdeck area before the flight deck is fixed into place, as access will be very limited.



Shape and fit the railings sections, etched part 13 to the enclosure on the hangar roof as shown. Any railing required for the sides of the hangar roof may be taken from excess trimmed from etched parts 1.

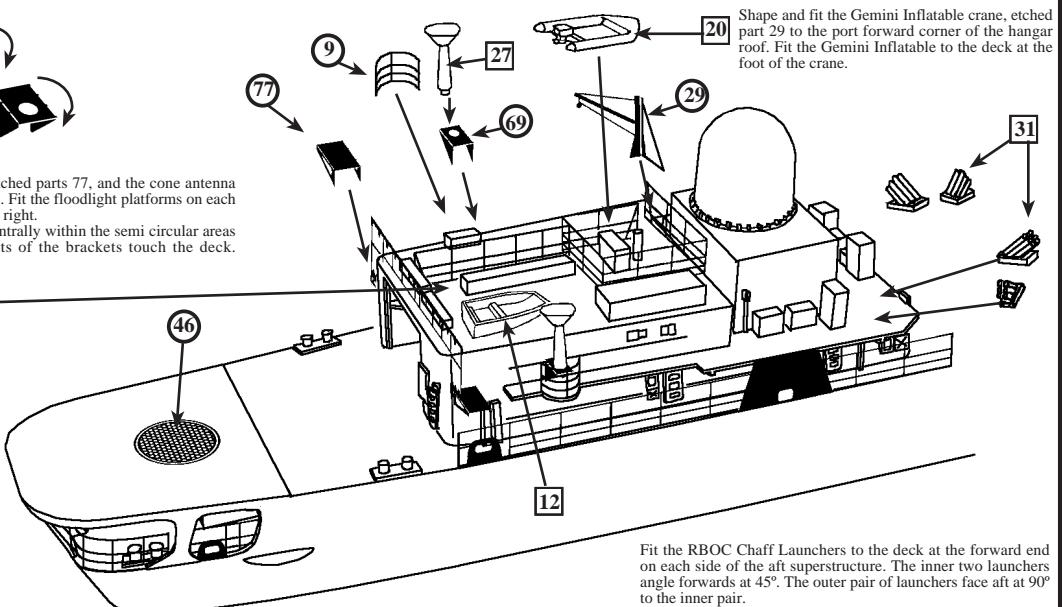
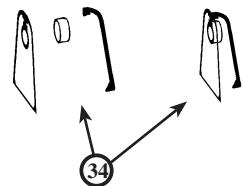
Fit the approach light bar to the rear edge of the hangar roof, so that the floodlight brackets attach to each side of the hangar walls.

Fit the Flight Deck Safety Nets, etched parts 50 and 53 to the edges of the flight deck, with the two parts joining at the stern. The nets can be fitted in the raised position, by cutting out the angled filler sections, and fitting the rectangular section vertically to the edges of the deck.

Aft Superstructure Fittings

Fold the side support brackets of the floodlight platforms, etched parts 77, and the cone antenna brackets, etched parts 69, down to 90° so that they are parallel. Fit the floodlight platforms on each side of the hangar at the foot of the floodlight frame as shown right.

Fit the cone antenna brackets to the outsides of the hangar centrally within the semi circular areas on the life raft canister catwalk, so that the bottom points of the brackets touch the deck.

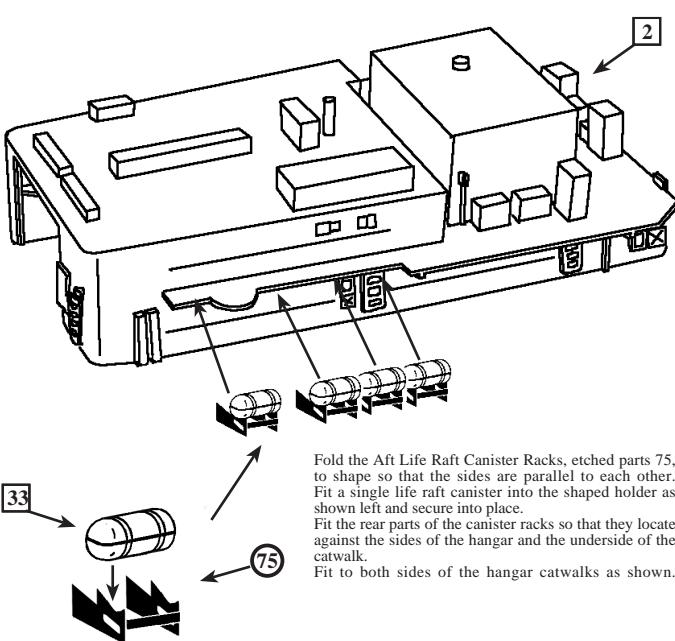


Cut a length of plastic rod or stretched sprue and fit to the rear of the Glide Path Indicator lamp to give it a more 3D effect. Fix the rear support leg centrally to the main frame as shown above then fit the assembly into place centrally on the hangar roof forward of the approach light bar.

Shape and fit the small sections of railing, etched parts 9, to the edges of the semi circular deck extensions adjacent to the cone antennas.

Fit the RBOC Chaff Launchers to the deck at the forward end on each side of the aft superstructure. The inner two launchers angle forwards at 45°. The outer pair of launchers face aft at 90° to the inner pair.

Hangar Side Life Raft Cannister Racks

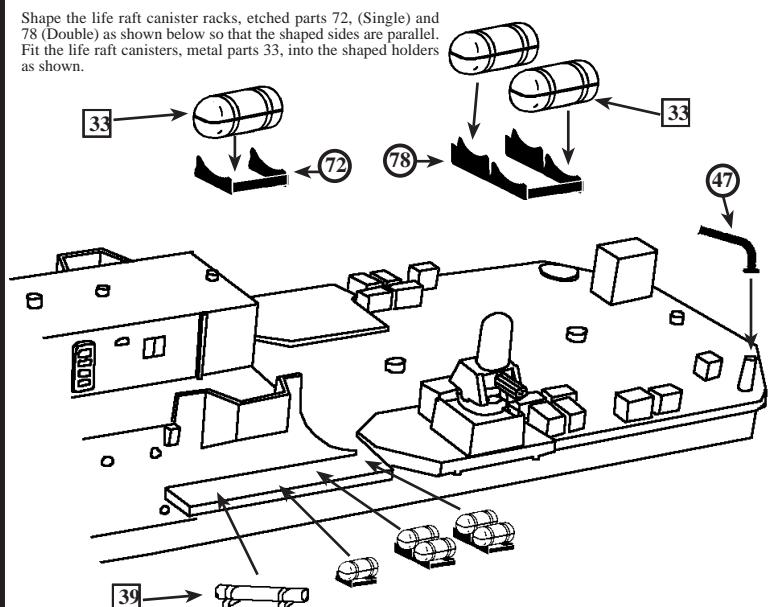


Fold the Aft Life Raft Canister Racks, etched parts 75, to shape so that the sides are parallel to each other. Fit a single life raft canister into the shaped holder as shown left and secure into place.

Fit the rear parts of the canister racks so that they locate against the sides of the hangar and the underside of the catwalk.

Fit to both sides of the hangar catwalks as shown.

Forward Superstructure Life Raft Cannister Racks



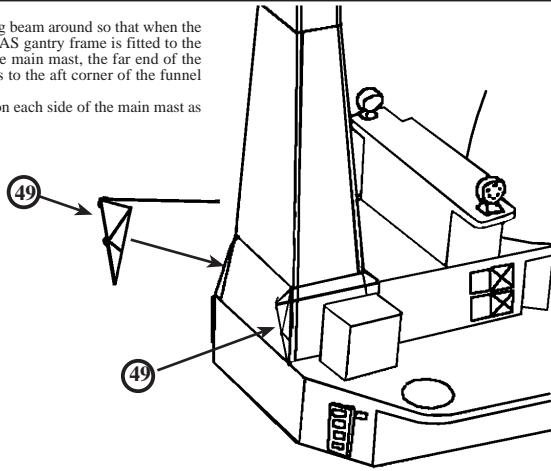
Fit the life raft canisters in their racks onto the platforms on each side of the forward superstructure as shown above. There are various combinations of either two double and one single, or one double and two single racks. Further research as to which ship had a certain combination is recommended.

Fit the DLF(3) Decoy canister, metal part 39, to the forward end of the life raft platform as shown. This is angled outwards and rearwards. Fit the same to the platforms on both sides of the ship.

Aft RAS Gantry Assembly

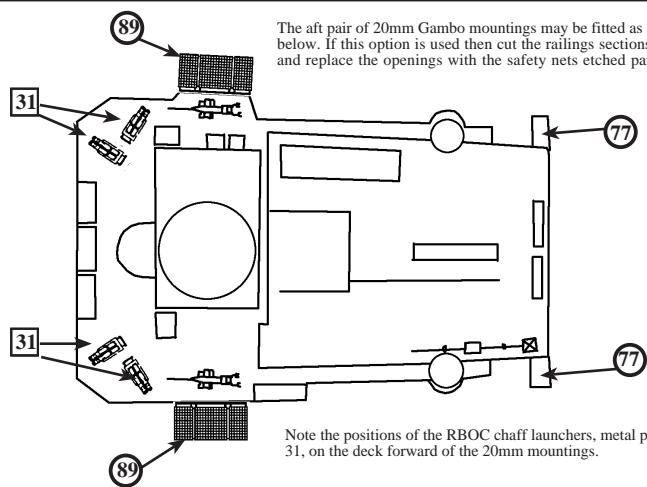
Fold the single bracing beam around so that when the vertical edge of the RAS gantry frame is fitted to the lower aft corner of the main mast, the far end of the bracing beam attaches to the aft corner of the funnel deck house.

Fit the RAS gantries on each side of the main mast as shown right.



Aft Superstructure Fittings Layout

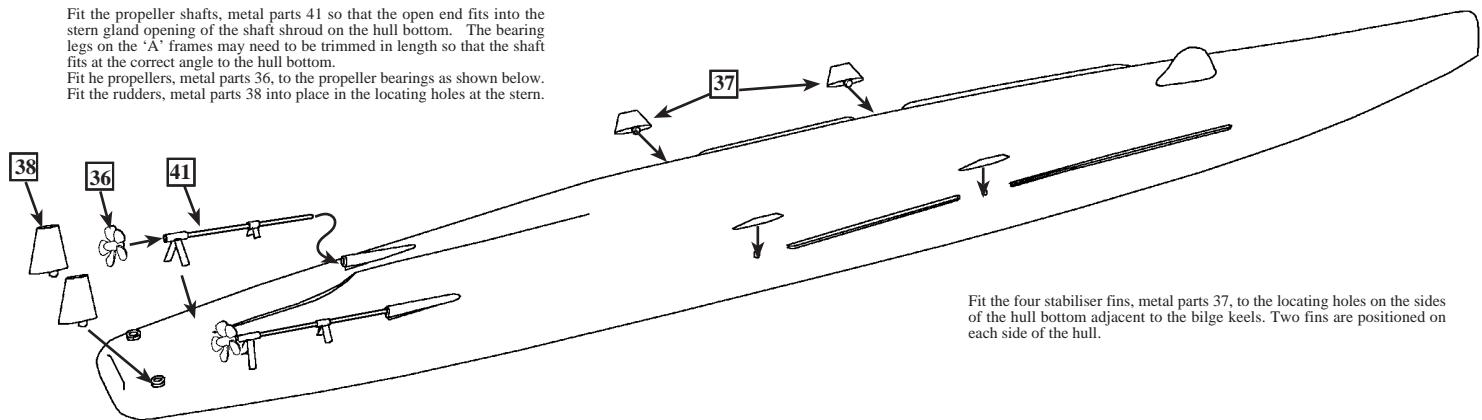
The aft pair of 20mm Gambo mountings may be fitted as shown below. If this option is used then cut the railings sections short and replace the openings with the safety nets etched parts 89.



Lower Hull Fittings and Running Gear

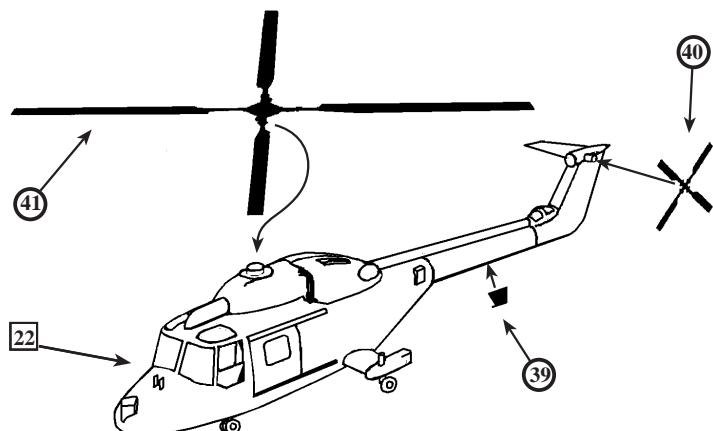
Fit the propeller shafts, metal parts 41 so that the open end fits into the stern gland opening of the shaft shroud on the hull bottom. The bearing legs on the 'A' frames may need to be trimmed in length so that the shaft fits at the correct angle to the hull bottom.

Fit the propellers, metal parts 36, to the propeller bearings as shown below. Fit the rudders, metal parts 38 into place in the locating holes at the stern.



Fit the four stabiliser fins, metal parts 37, to the locating holes on the sides of the hull bottom adjacent to the bilge keels. Two fins are positioned on each side of the hull.

Westland Lynx HAS3 Helicopter Assembly

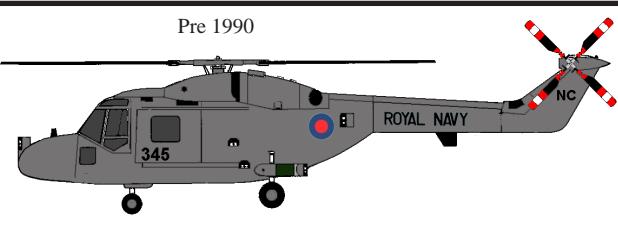


If the helicopter is to be displayed folded, make a small cut at the root of each rotor blade on the forward edge. This will make it easier to bend the blade rearwards and keep it flat. Cut the tail pylon off completely at the fold joint as shown, and fit the fold joint, etched part 38. This will allow 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.

Fit the main and tail rotor blades, etched parts 41 and 40, as shown above. Fit the blade aerial 39 to the underside of the tail cone.

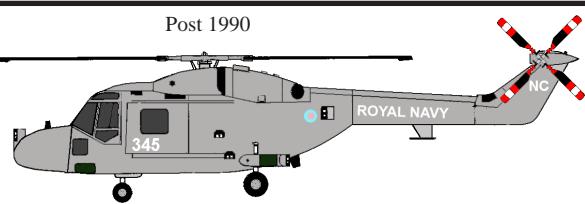
Lynx Helicopter Colour Guide

Pre 1990



Humbrol 164
Dark Sea Grey

Post 1990



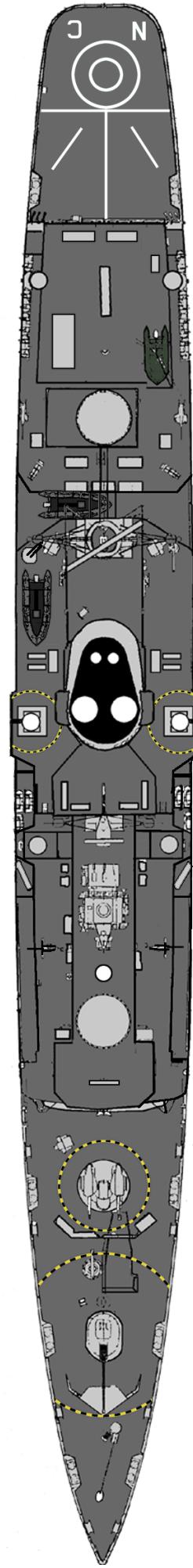
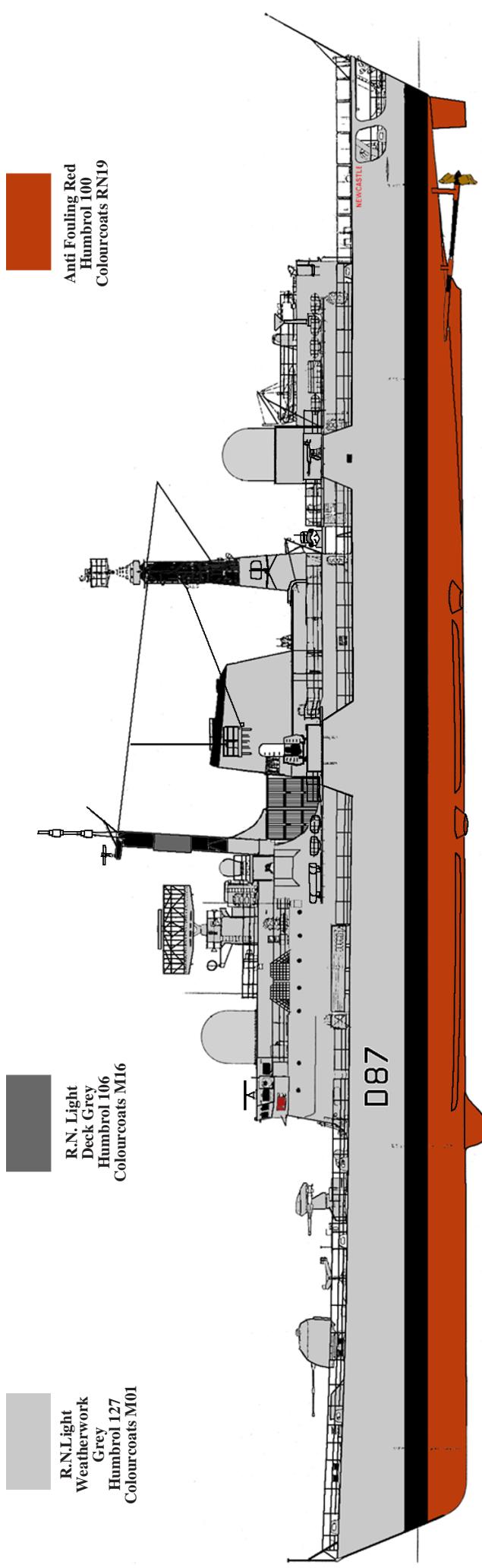
Humbrol 165
Medium Sea Grey

Other Colours Used

HMS Birmingham 333/BM HMS Newcastle 345/NC
HMS Glasgow 344/GW HMS Cardiff 335/CF
HMS Exeter 420/EX HMS Southampton 334/SN
HMS Nottingham 417/NM HMS Liverpool 332/LP

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

Main Colour Chart and Painting Guide



Pennant Numbers Flight Deck Letters for all Ships of the Class

D86 HMS Birmingham / BM	D87 HMS Newcastle / NC	D88 HMS Glasgow / GW	D108 HMS Cardiff / CF
D89 HMS Exeter / EX	D90 HMS Southampton / SN	D91 HMS Nottingham / NM	D92 HMS Liverpool / LP

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.
Bronze	Propellers, Elevation Discs on 4.5" Gun.

The decals that are supplied in the kit are specific to this class of ship and provide the pennant numbers, names and deck codes of all the ships of the class. The coloured warning circles on the decks are provided as a separate set of generic warning circles and placards that were found on most ships of the post WW2 era. The reference for this set is ATDec12 and is available from Atlantic Models.

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