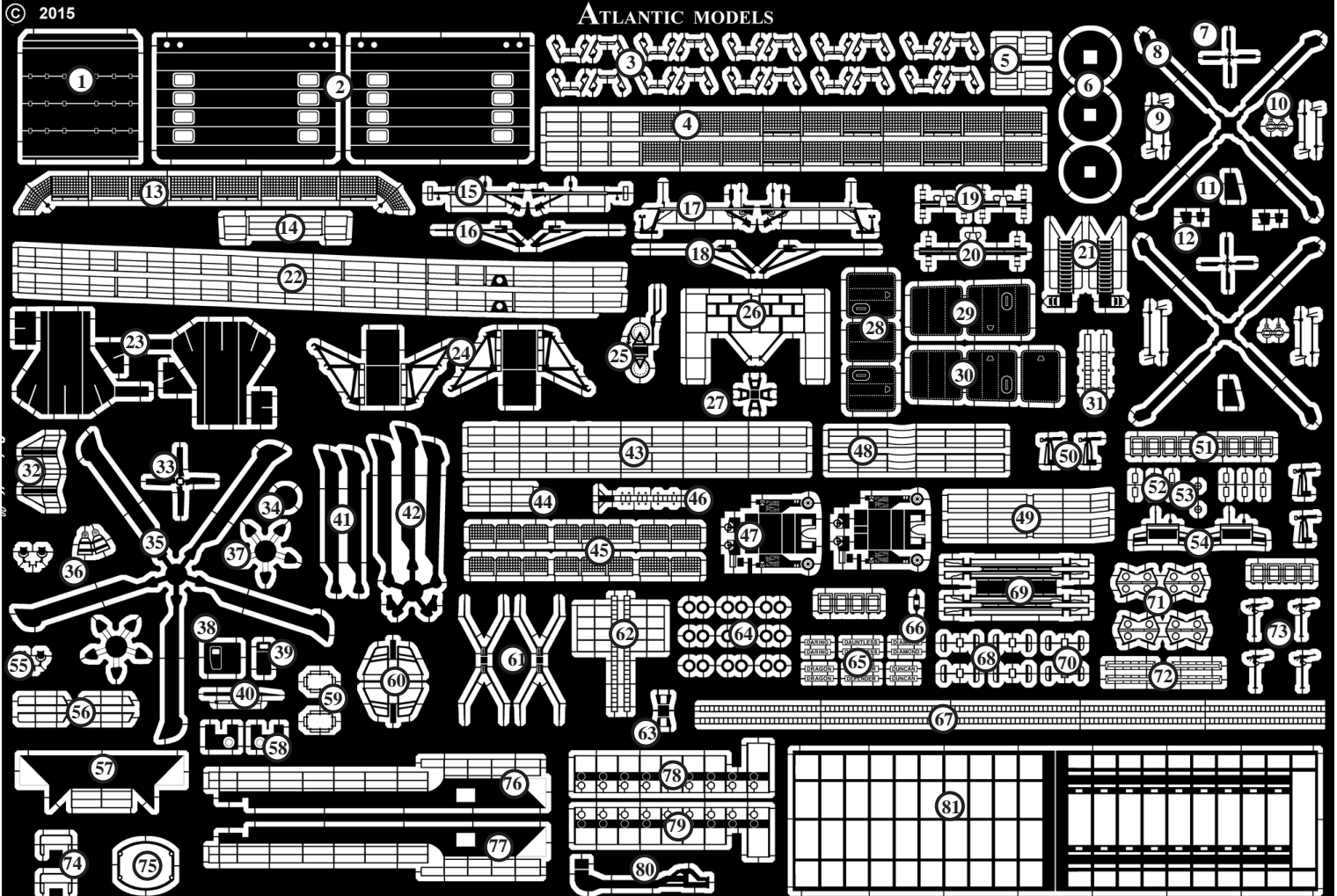


Parts List



Royal Navy Type 45 Destroyers 1/350 Scale

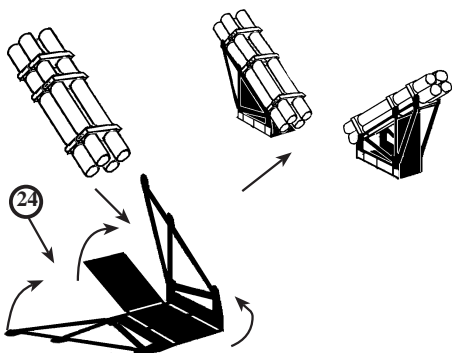
- | | | |
|---|--|---|
| 1. Hangar Door Plate | 28. Missile Silo Front Access Panels | 55. Signal Lamps |
| 2. Boat Bay Doors | 29. Missile Silo Starboard Side Access Panels | 56. Hangar Ladder Handrails |
| 3. Side Bulwark Handling Gear | 30. Missile Silo Port Side Access Panels | 57. Hangar Mezanine Deck Forward Section |
| 4. Flight Deck Side Safety Nets | 31. Hangar Roof Outboard Ladders | 58. Flight Deck Mini Gun/ MG Shields |
| 5. Railings (Vent Platforms) | 32. Bridge Wing Life Ring Rack | 59. 4.5" Mk8 Gun Turret Top Rail |
| 6. Main Mast Antenna Discs | 33. Merlin Helicopter Tail Rotor | 60. Flight Deck Life Ring Racks |
| 7. Lynx Helicopter Tail Rotor | 34. Merlin Helicopter Rotor Hub Top | 61. RHIB Lifting Frame |
| 8. Lynx Helicopter Main Rotor | 35. Merlin Helicopter Main Rotor | 62. Hangar Roof Caged Ladders (Inboard) |
| 9. Lynx Helicopter Blade Stowage Poles | 36. Merlin Helicopter Tail Fold Joint | 63. Main Mast Small Radome Mounting |
| 10. Lynx Helicopter Tail Fold Joint | 37. Merlin Helicopter Main Rotor Hub | 64. Life Rings |
| 11. Lynx Helicopter Tail Plane | 38. Merlin Helicopter Cargo Door | 65. Ships Name Plates |
| 12. Lynx Helicopter Tail Cone Antennas | 39. Merlin Helicopter Personnel Door | 66. Hangar Crane Hook |
| 13. Flight Deck Safety Nets (Stern) | 40. Merlin Helicopter Tail Fittings | 67. Vertical Ladder Stock |
| 14. Railings (Missile Silo) | 41. Merlin Helicopter Side Folded Rotor Blades | 68. Main Mast Antennas (Upper) |
| 15. Yardarms (Rear Quarters) | 42. Merlin Helicopter Rear Folded Rotor Blades | 69. Hangar Overhead Gantry Crane |
| 16. Yardarm Supports (Rear Quarters) | 43. Railings (Hangar Mezanine Sides) | 70. Main Mast Antennas (Lower) |
| 17. Yardarms (Forward Quarters) | 44. Railings (Hangar Mezanine Front) | 71. RHIB Cradles |
| 18. Yardarm Supports (Forward Quarters) | 45. 30mm Gun Platform Safety Nets | 72. RHIB Cradle Feet |
| 19. Fore Mast ESM Sensors (Upper) | 46. 4.5" Mk8 Gun Ladder Sections | 73. GP Machine Gun Mountings |
| 20. Fore Mast ESM Sensors (Lower) | 47. Aircraft Movement Tractor | 74. Bowman Antenna Box Loop |
| 21. Hangar Mezanine Ladders | 48. Railings (Boat Deck) | 75. Foremast Radome Antenna Drilling Template |
| 22. Railings (Fore Deck) | 49. Railings (Funnel Superstructure) | 76. Hangar Mezanine Deck Port Side |
| 23. Harpoon Missile Blast Deflector | 50. Mini Gun Mountings | 77. Hangar Mezanine Deck Starboard Side |
| 24. Harpoon Missile Launcher Cradles | 51. Mini Gun / Machine Gun Shields | 78. Hangar Ventilation Duct (Port Side) |
| 25. Hangar Refueling Hose Reel | 52. RHIB Passenger Seat Handrails | 79. Hangar Ventilation Duct (Starboard Side) |
| 26. Boat Bay Access Platforms | 53. RHIB Steering Wheel | 80. Hangar Ventilation Duct (Forward) |
| 27. Funnel Radome Support Frame | 54. RHIB Roll Over Frame | 81. Hangar Ceiling Framework & Crane Rails |

1. Do not remove the etched parts from the fret until you are ready to use them.
2. Before assembly, soak the etched parts in a suitable solvent, such as white spirit, to de-grease the surfaces for painting. It is recommended that the entire fret be primed with an acrylic automotive primer, such as Halfords Grey Primer before assembling any of the parts.
3. Cyanoacrylate adhesive (Super glue) or contact adhesive such as a white PVA glue may be used. These can be applied with a pin or piece of stretched sprue.
4. When removing parts from the fret, place the fret on a hard surface, such as a smooth ceramic tile, in order to prevent parts bending whilst cutting through the holding tabs. It is suggested that a No.10 rounded type of modelling knife blade is used for this purpose.
5. When shaping or bending a part, a straight edged blade such as a chisel blade will give a good sharp corner, or alternatively an Atlantic Models Folding Tool ATT 01 or ATT 02 may be found to be useful
6. If a part is bent incorrectly, lay it on a hard flat surface and roll it flat with a cylindrical object such as a modelling knife handle.

Assembly Instructions and General Guide

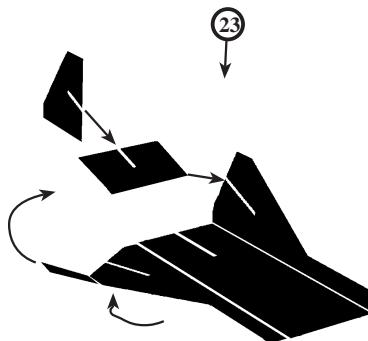
1. This photo-etched detail set provides some replacement parts for those out of scale kit parts that can not be accurately reproduced because of the limitations of plastic mouldings. There are also some parts included here that do not appear among the kit parts and are included as extra details to enhance the kit further.
2. Some parts included such as the Harpoon missile launcher support frames and blast shields are optional, as they already moulded on to the kit parts, but are included as an alternative that can be fitted if desired by following the kit instructions and also the assembly instructions in this set for the alternative parts.
3. Vertical ladders have been supplied as stock lengths, etched parts 67, and can be cut to the lengths required. There are vertical ladders moulded on to the sides of the superstructure, but these do not give as good a three dimensional detail. These moulded ladders would first have to be removed by carefully rubbing down the surface until smooth using a suitable abrasive paper.
4. Shaped 3 bar railings, etched parts 22, have been provided specially to follow the contour of the deck of the focsle area. These railings come aft to join on to the forward end of the superstructure. The railings sections, etched parts 48, fit across the edges of the boat decks when the doors are open, but may be omitted when the doors are fitted closed.. Railings sections 49, fit on the narrow platforms on each side of the funnel with the angled end to the funnel side. Small sections of rails etched parts 5, are provided to fit to the ladder platforms on kit parts 16B and 7F.
5. Etched parts 74, are the Bowman DF antennas that fit on to the box like structures, kit parts 45D and 46D. Remove the moulded plastic parts and replace with the etched parts directly.
6. Etched part 75 is the drilling template for the radome kit parts 26D and 27D. When these parts are assembled, lay the template across the top of the radome and mark through the holes. These are the positions for the static protection antennas that can be made from stretched sprue or thin wire. Note that the radome is not a perfect sphere so the template will only fit one way.
7. An excellent source of reference can be obtained by using the plans provided by Jacobin. These plans can be purchased directly from the company in most of the main modelling scales required.

Harpoon Missile Launcher Assembly



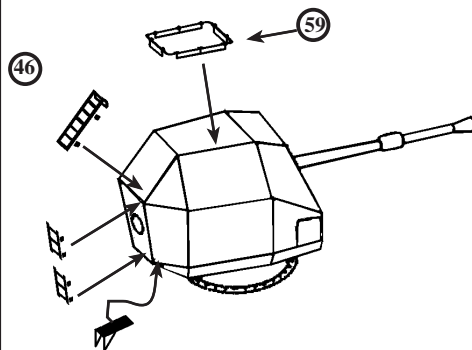
Fold up the side frames of etched parts 24, to 90°, then fold up the front plate so that the edges secure to the vertical bar on the side frames.
Remove the moulded plastic frames from the kit parts 1C, 2C, 17F and 18F as shown in the kit instructions and replace with the etched parts as shown here.

Blast Deflector Assembly



Fold up the sides of etched parts 45 to 90° so that they are parallel. Slot the two centre plates together as shown and fix so that the rectangular plate fits in to the etched lines on the side panels. Fold over the top cover plate so that it spans the gap between the two side panels. Make two of these. These can be used to replace the kits parts 21E and 22E.

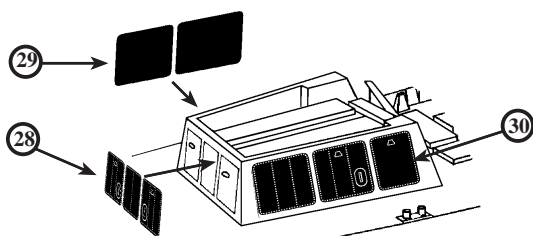
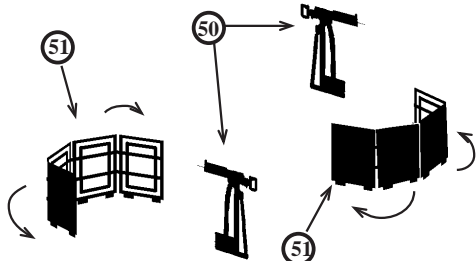
4.5" Gun Turret Fittings



The gun turret fitted to the Daring initially is the 4.5" Mk8 Mod1 gun turret which is of multi faceted construction giving the turret stealth qualities. Assemble the gun mounting as per kit instructions, then fit the ladders, etched parts 46, to the rear of the turret as shown. The small lower step and attachment plate are fitted so that the inner part of the plate fits under the rear of the turret. The triangular side bars should be folded down to 90°.

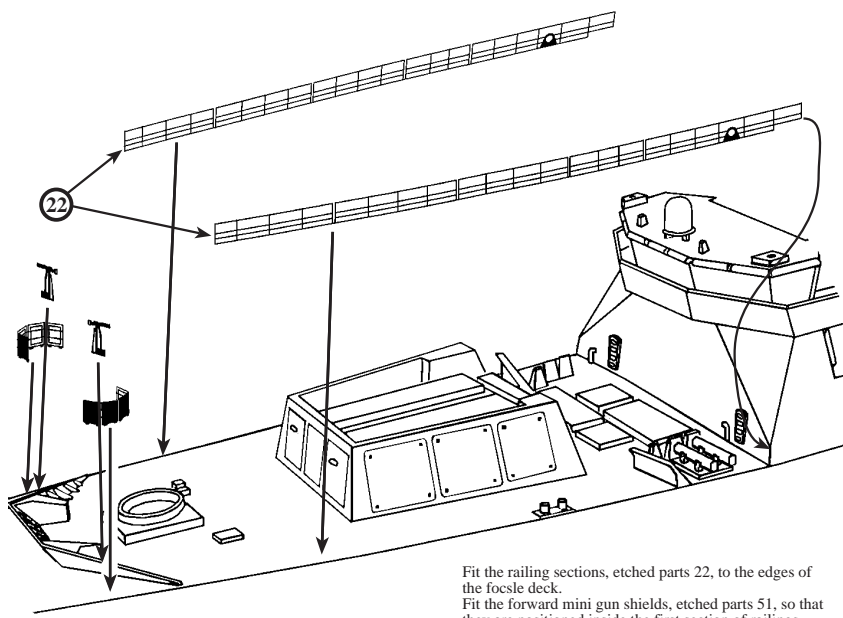
Close Range Weapons Enclosures

Fold the panels on the gun enclosures round so that the two side panels are parallel, with the relief etched detail on the inside face. Make two of these. The enclosures can be used to contain either the GPMG mountings, etched parts 73, or the 7.62 Minigun mountings..



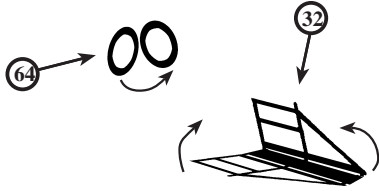
Smooth the surfaces of the missile silo outside faces where the access panel are to be placed. Note that on the port side there may be some filling required where the engraved lines appear to be redundant.

Fore Deck Railings and Fittings



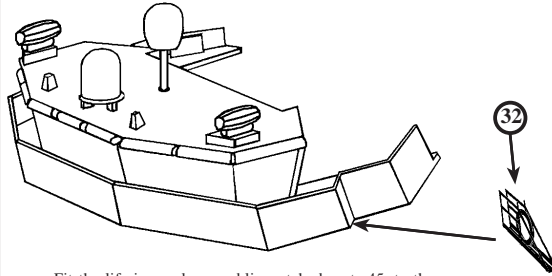
Fit the railing sections, etched parts 22, to the edges of the focsle deck.
Fit the forward mini gun shields, etched parts 51, so that they are positioned inside the first section of railings.

Forward Life Ring Rack



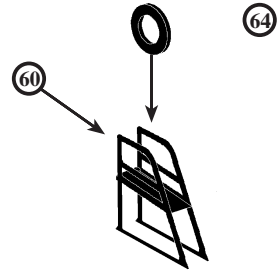
Fold up the sides of the life ring racks, etched parts 45, to 90° so that they are parallel, then fold the life rings together so that they are double thickness. Fit in to the racks. Make two of these items.

Forward Life Ring Rack Location



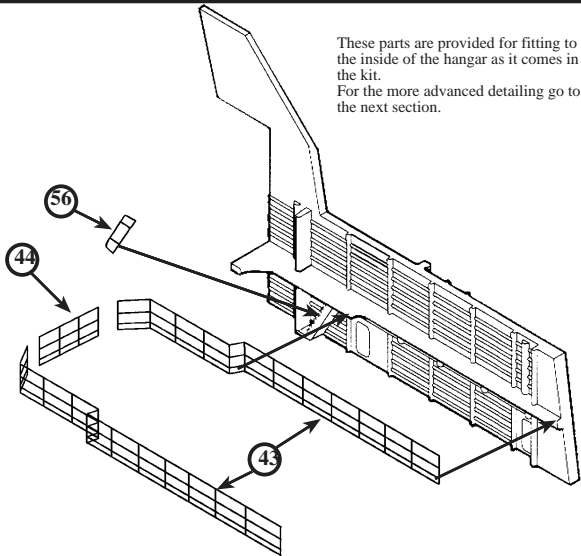
Fit the lifering rack assemblies, etched parts 45, to the small bridge wing bulwark face on each side of the bridge, so that the point of the rack is outboard.

Aft Life Ring Ejectors



Assemble the aft life ring ejector racks as shown above by folding sides so that they are parallel then folding the central plate horizontally so that the edges locate the lower bars on the sides. Fold the life rings double and fit into the racks. Make two of these and fit to the Flight Deck immediately against the hangar wall on each side of the deck.

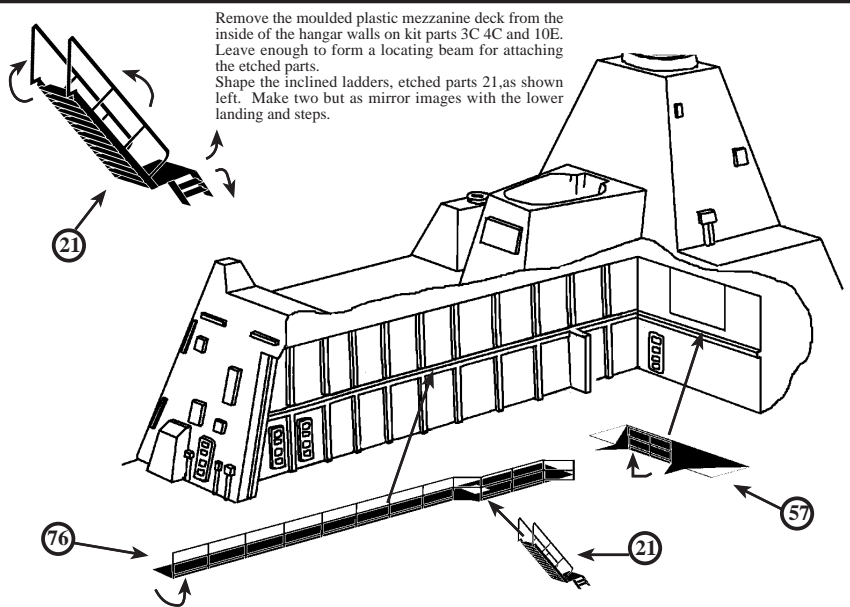
Basic Hangar Mezzanine Deck Railings



These parts are provided for fitting to the inside of the hangar as it comes in the kit. For the more advanced detailing go to the next section.

Shape and fit railing sections, etched parts 4, to the mezzanine decks on each side of the hangar. Also fit the small section, etched part 5 to the cross deck between the two sides at the forward end of the hangar. Fit the hand rails, etched parts 10, to the sides of the access ladders.

Advanced Hangar Mezzanine Deck Assembly

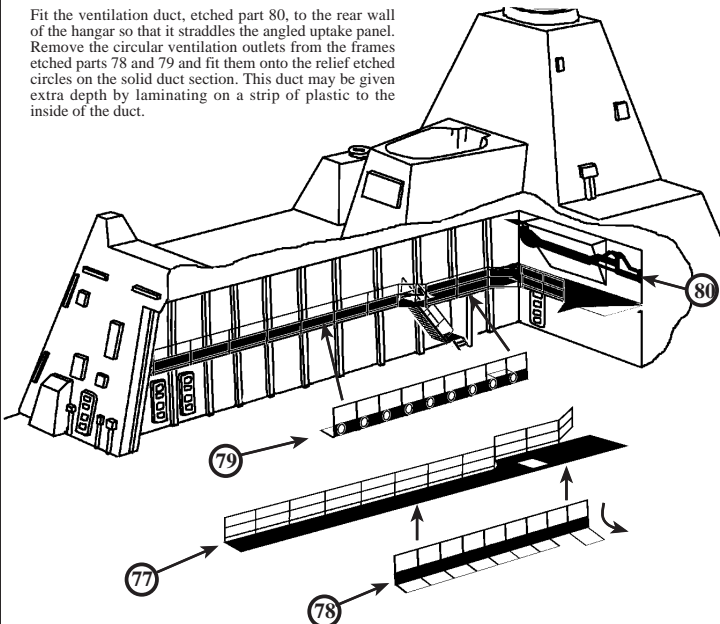


Remove the moulded plastic mezzanine deck from the inside of the hangar walls on kit parts 3C 4C and 10E. Leave enough to form a locating beam for attaching the etched parts. Shape the inclined ladders, etched parts 21, as shown left. Make two but as mirror images with the lower landing and steps.

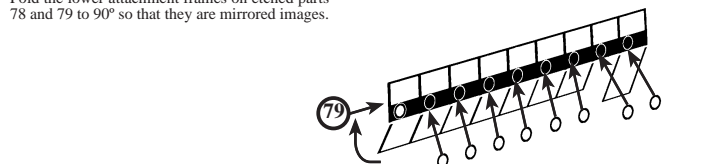
Assemble the hangar mezzanine deck in to the hangar interior before fixing the hangar superstructure unit to the main deck. First fit the short section to the rear wall. The decks fit onto the remaining part of the moulded plastic decks. Ensure that the relief etched triangular parts of the deck are upwards. Fit the side decks so that the corresponding angles fit fit over relief etched outer sections on the rear deck. Fold railings up to 90° then shape to fit the angled sections

Ventilation Duct Assembly

Fit the ventilation duct, etched part 80, to the rear wall of the hangar so that it straddles the angled uptake panel. Remove the circular ventilation outlets from the frames etched parts 78 and 79 and fit them onto the relief etched circles on the solid duct section. This duct may be given extra depth by laminating on a strip of plastic to the inside of the duct.

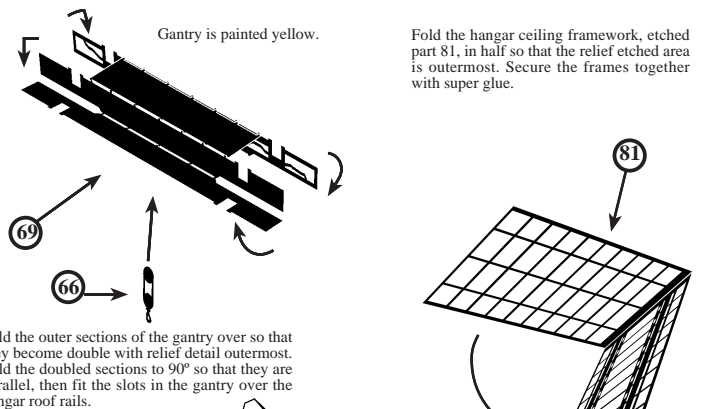


Fold the lower attachment frames on etched parts 78 and 79 to 90° so that they are mirrored images.



Fit the ventilation ducts so that the upper edges of the top attachment frames fit to the underside edges of the mezzanine deck. The opening in the lower frames, fits around the inclined ladder so that the shaped ducts lower frames fit against the hangar side walls.

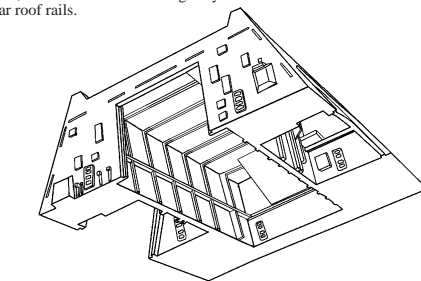
Hangar Overhead Gantry Crane Assembly



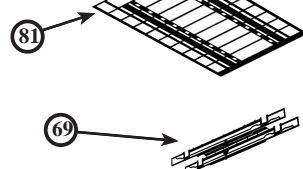
Gantry is painted yellow.

Fold the hangar ceiling framework, etched part 81, in half so that the relief etched area is outermost. Secure the frames together with super glue.

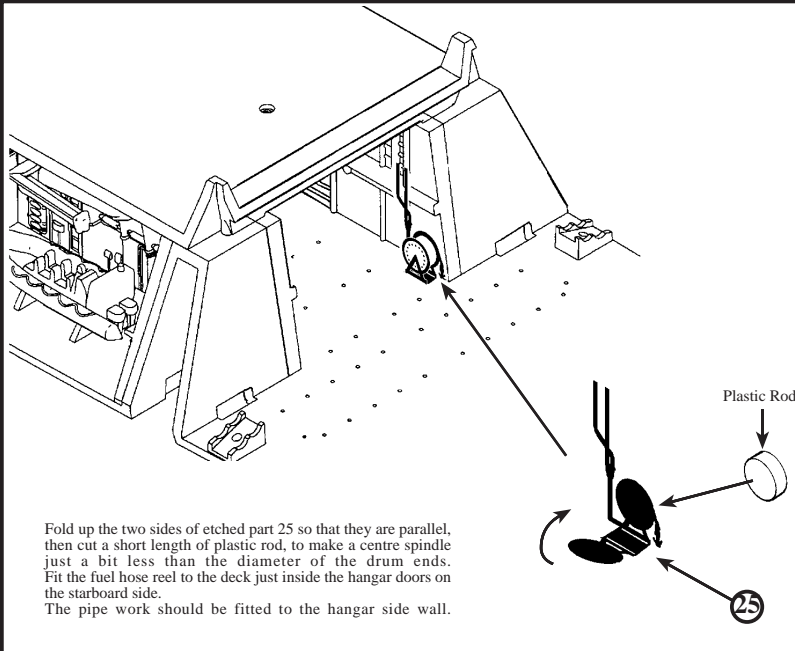
Fold the outer sections of the gantry over so that they become double with relief detail outermost. Fold the doubled sections to 90° so that they are parallel, then fit the slots in the gantry over the hangar roof rails.



Fit the hangar ceiling frame into place with the relief etched detail downward facing as shown left. Fit the hangar overhead crane so that the slots on the crane fit over the outermost rails on the ceiling framework.

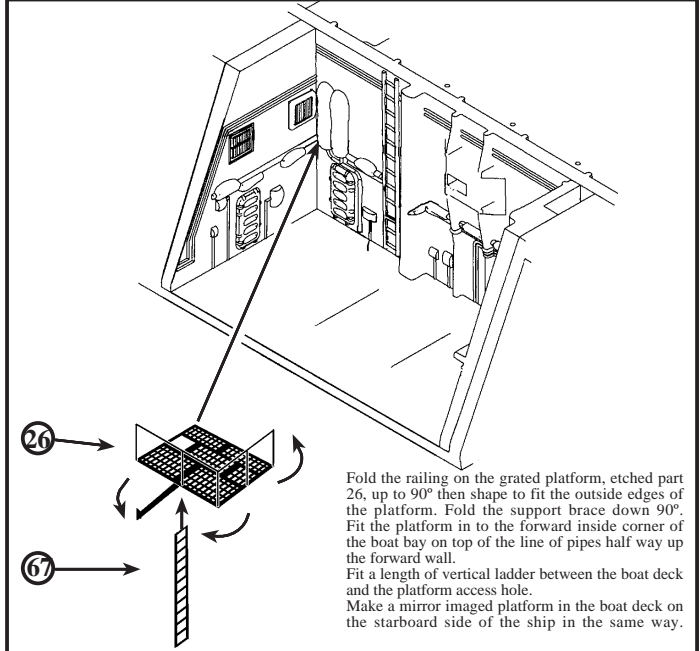


Aircraft Refueling Hose Reel Assembly & Location



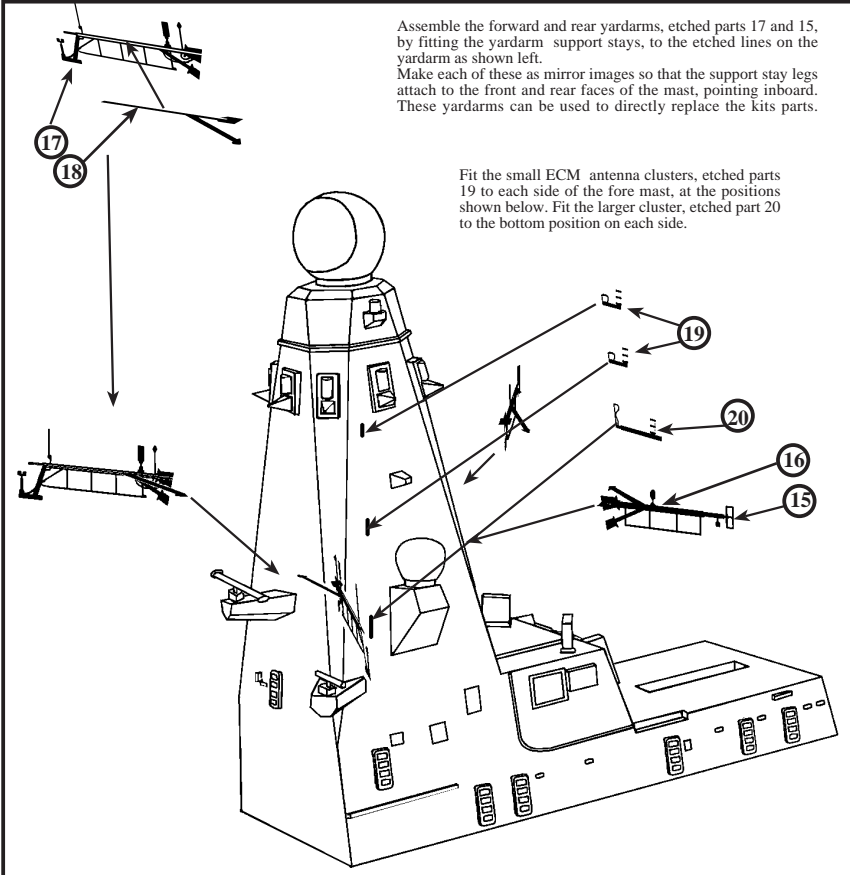
Fold up the two sides of etched part 25 so that they are parallel, then cut a short length of plastic rod, to make a centre spindle just a bit less than the diameter of the drum ends. Fit the fuel hose reel to the deck just inside the hangar doors on the starboard side. The pipe work should be fitted to the hangar side wall.

Boat Bay Access Platforms



Fold the railing on the grated platform, etched part 26, up to 90° then shape to fit the outside edges of the platform. Fold the support brace down 90°. Fit the platform in to the forward inside corner of the boat bay on top of the line of pipes half way up the forward wall. Fit a length of vertical ladder between the boat deck and the platform access hole. Make a mirror imaged platform in the boat bay on the starboard side of the ship in the same way.

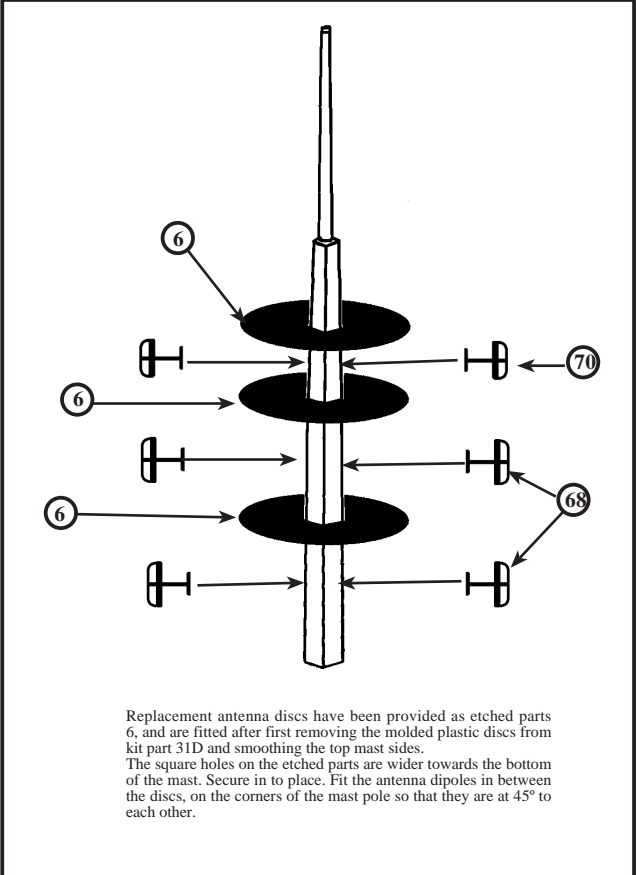
Fore Mast Yardarm Assembly & Location



Assemble the forward and rear yardarms, etched parts 17 and 15, by fitting the yardarm support stays, to the etched lines on the yardarm as shown left. Make each of these as mirror images so that the support stay legs attach to the front and rear faces of the mast, pointing inboard. These yardarms can be used to directly replace the kits parts.

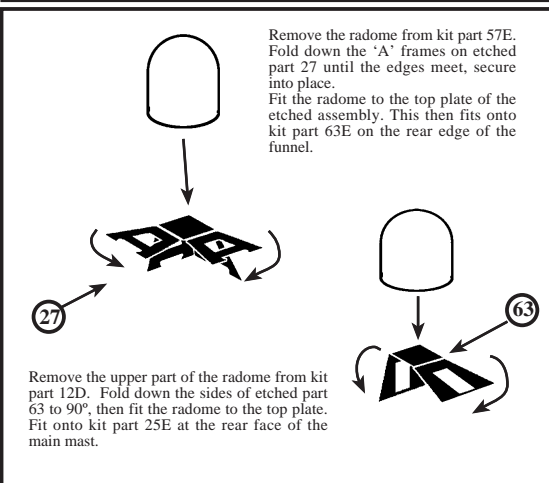
Fit the small ECM antenna clusters, etched parts 19 to each side of the fore mast, at the positions shown below. Fit the larger cluster, etched part 20 to the bottom position on each side.

Main Mast Antenna Assembly



Replacement antenna discs have been provided as etched parts 6, and are fitted after first removing the molded plastic discs from kit part 31D and smoothing the top mast sides. The square holes on the etched parts are wider towards the bottom of the mast. Secure in to place. Fit the antenna dipoles in between the discs, on the corners of the mast pole so that they are at 45° to each other.

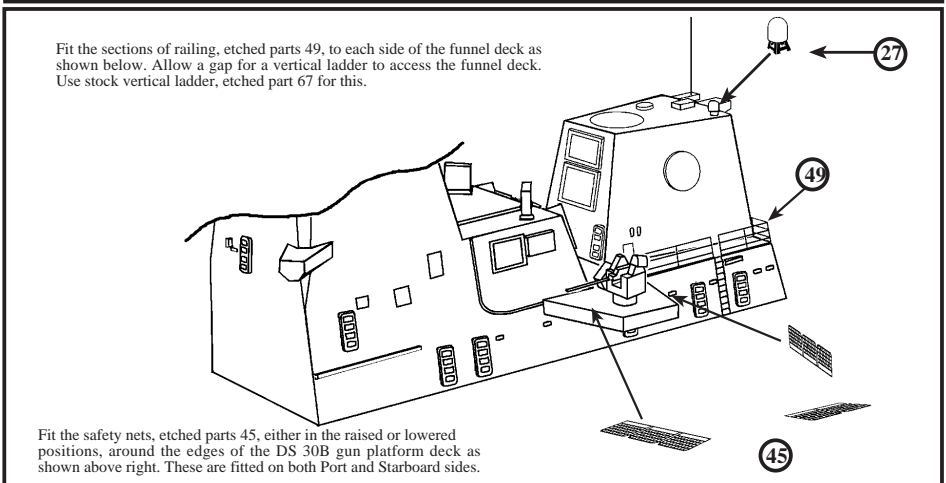
Small Sensor Dome Mountings



Remove the radome from kit part 57E. Fold down the 'A' frames on etched part 27 until the edges meet, secure into place. Fit the radome to the top plate of the etched assembly. This then fits onto kit part 63E on the rear edge of the funnel.

Remove the upper part of the radome from kit part 12D. Fold down the sides of etched part 63 to 90°, then fit the radome to the top plate. Fit onto kit part 25E at the rear face of the main mast.

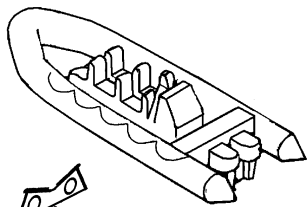
30mm Gun Deck Fittings



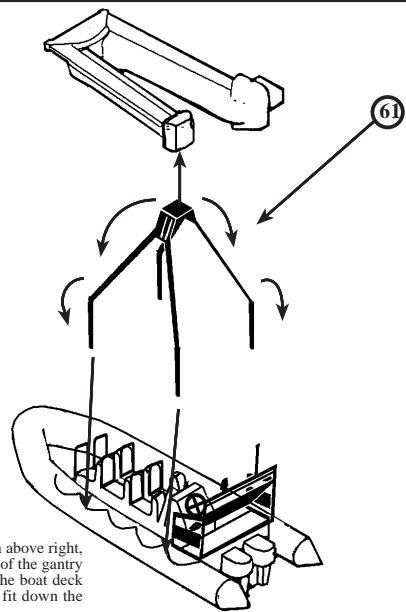
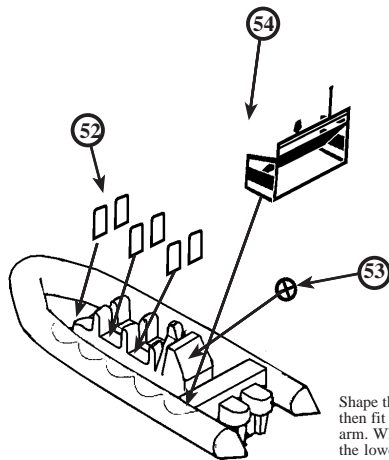
Fit the sections of railing, etched parts 49, to each side of the funnel deck as shown below. Allow a gap for a vertical ladder to access the funnel deck. Use stock vertical ladder, etched part 67 for this.

Fit the safety nets, etched parts 45, either in the raised or lowered positions, around the edges of the DS 30B gun platform deck as shown above right. These are fitted on both Port and Starboard sides.

RHIB Sea Boat Fittings



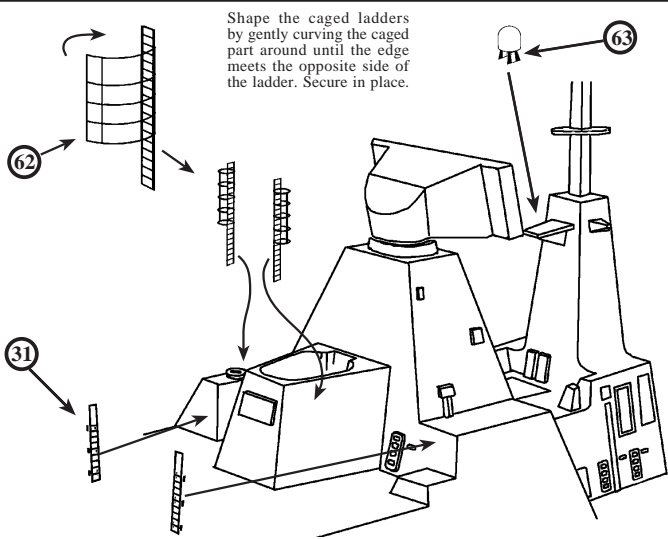
Cut the moulded rectangular structure from the back of each of the boats and shape and fit the self righting gear framework in its place. Fit the individual hand holds, to the front of each seat position as shown below.



Fold the boat cradles, etched parts 71, in half so that they are double thickness, then fit the lower edge in to the etched line on the top of the base, etched part 72. Make two for each boat. Remove the moulded plastic boat cradles from the deck in the boat bays and fit the etched items in their place.

Shape the boat steady frame as shown above right, then fit to the underside of the outer end of the gantry arm. When the boat is in its cradles on the boat deck the lower ends of the steady frame legs fit down the sides of the boat.

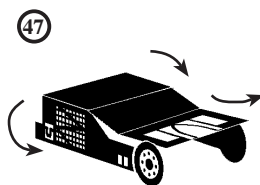
Aft Superstructure Ladders



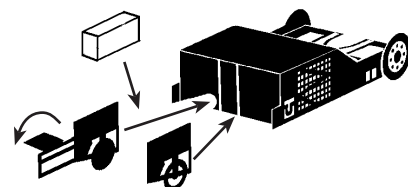
Shape the caged ladders by gently curving the caged part around until the edge meets the opposite side of the ladder. Secure in place.

Fit the caged ladders to each side of the aft funnel, and the smaller vertical ladders to the positions shown above with the top handrail protruding above the deck level.

Aircraft Movement Tractor



Etched Parts 47, make up in to the piece of machinery used to move aircraft around the deck and in and out of the hangar. The jaws at the front between the wheels close around the aircrafts nose wheel and raise them off the ground slightly, allowing the aircraft to be towed and steered in whatever direction needed.

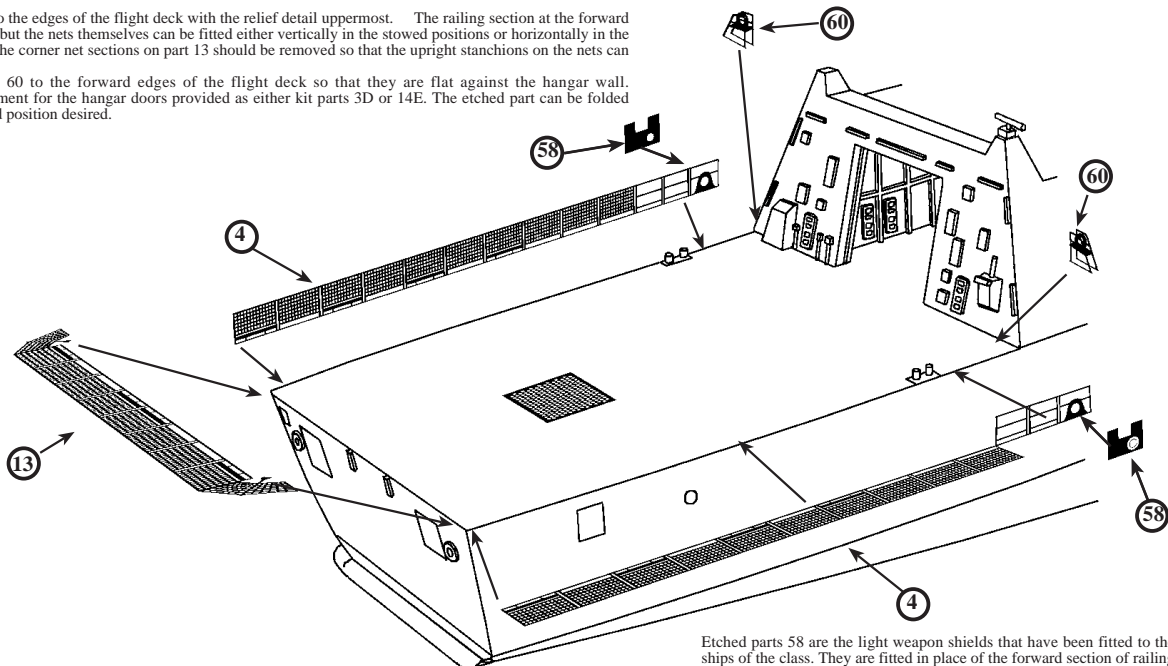


Fold the sides of part 47, so that they are parallel then shape the top panel as shown left so that the jaws fit between the wheels. Fit the rear wheel unit parts into the etched slots in the back panel. Fill the gap between with a plastic card block as shown above.

Flight Deck Fittings

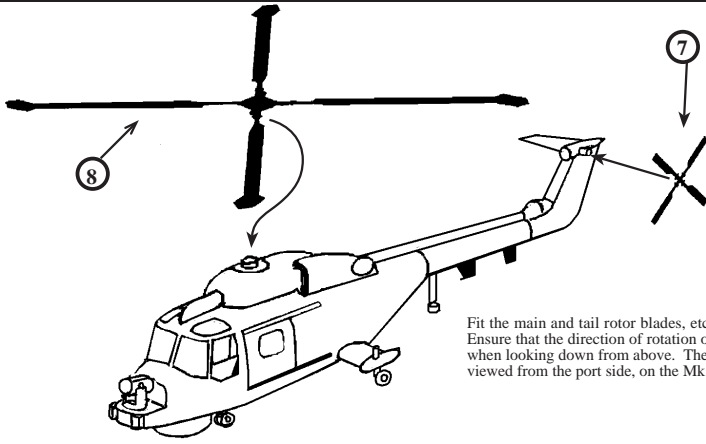
Fit the flight deck safety nets, etched parts 4, to the edges of the flight deck with the relief detail uppermost. The railing section at the forward ends of the flight deck will always be vertical, but the nets themselves can be fitted either vertically in the stowed positions or horizontally in the deployed position. If they are fitted vertically the corner net sections on part 13 should be removed so that the upright stanchions on the nets can locate against each other.

Fit the life ring ejector racks, etched parts 60 to the forward edges of the flight deck so that they are flat against the hangar wall. Etched part 1, has been supplied as a replacement for the hangar doors provided as either kit parts 3D or 14E. The etched part can be folded along the joints to any degree of open or closed position desired.

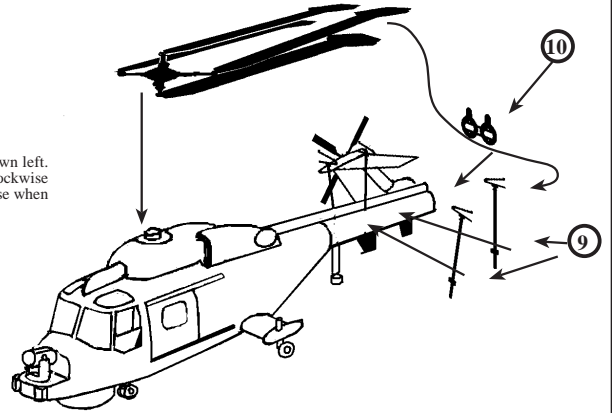


Etched parts 58 are the light weapon shields that have been fitted to the ships of the class. They are fitted in place of the forward section of railing on etched parts 4, which are removed complete with fairlead.

Westland Lynx HMA 8 Assembly

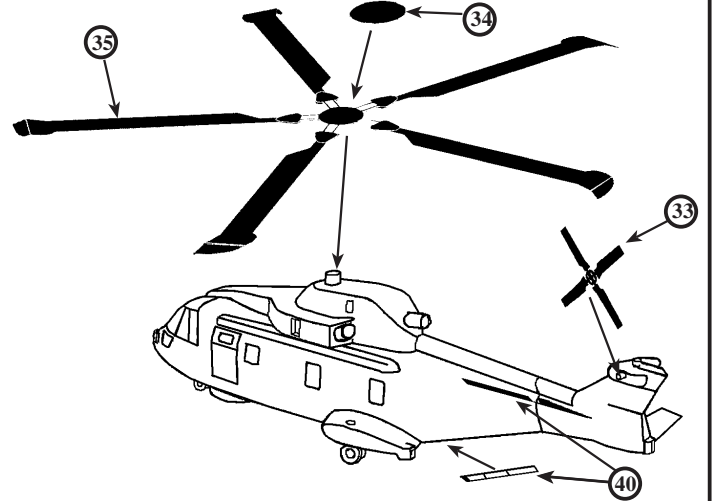
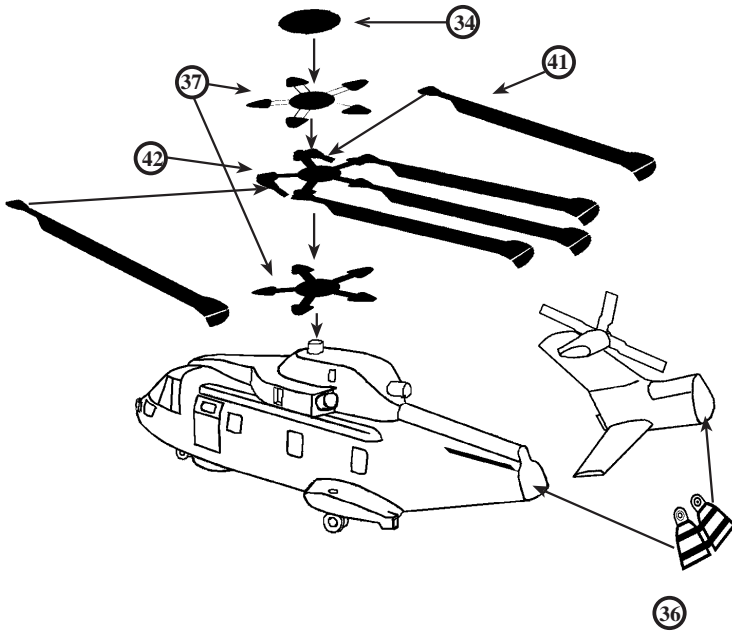


Fit the main and tail rotor blades, etched parts 8 and 7, as shown left. Ensure that the direction of rotation of the main rotor is anti clockwise when looking down from above. The tail rotor rotates clockwise when viewed from the port side, on the Mk 8 Lynx.



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. The tail pylon is a separate kit part and is split at the fold joint. Etched part 10 can easily be fitted. This will allow the tail to be attached 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.

Augusta Westland Merlin HM 1 Assembly



Bend the tips of the rotor blades, etched parts 35 or 42, along the etched lines so that they are angled downwards. Fit the main rotor in to position as shown, either in the folded or spread positions. Add the two separate rotors, to the forward stubs on the rotor head of the folded version. Doublers, etched parts 37, have been provided to thicken the rotor head, giving the parts a greater depth and adding realism. The rotor head cover, etched part 34, can be used or the moulded plastic cover can be cut from the plastic rotors in the kit parts. Fit the tail rotor, etched part 33, to the tail pylon. If the tail pylon is to be fitted in the folded position, use etched part 36, tail fold joint as a means of securing the folded pylon in to place. Fit the rail aerial 40 to the port side of the fuselage angle as shown. Fit the aerodynamic strakes, etched parts 40, to the port side of the tail cone as shown. Fit the folded main rotor blades so that they are all positioned over the tail.