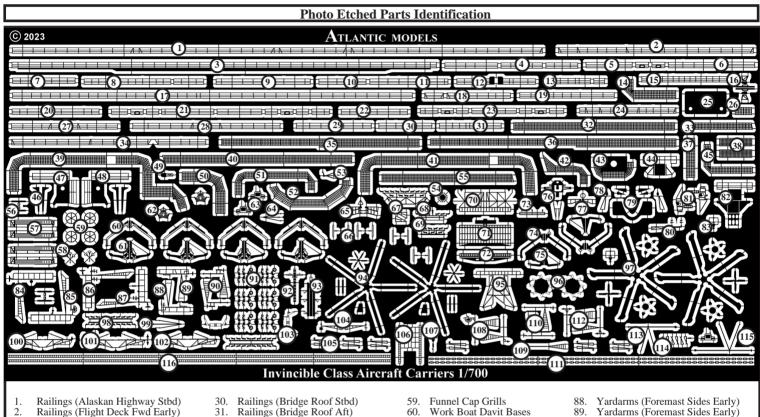


Royal Navy Invincible Class **Aircraft Carriers**

Photo-etched detail set to fit one of the Revell or Dragon kits in 1/700 Scale



- Railings (Flight Deck Fwd Early)
- Railings (Goofers Deck)
- Railings (Island Starboard)

- Railings (Hull Openings Stern) Railings (Crane Jib Rest Late) Railings (Mizzen Mast Upper) Railings (Mizzen Mast Lower)
- Railings (Mizzen Fwd Platform)
- Railings (Main Mast Upper Platforms)
- Railings (Main Mast Top Fwd Platform) 40.
- Railings (Main Mast Lower Platforms)
- Railings (Bridge Rear Platform) Safety Nets (Stbd Goalkeeper Deck) 13 14.
- Railings (Aft Funnel Platform) 15.
- Forward Radar Antenna
- Railings (Spare Stock)
- Railings (Stbd Goalkeeper Deck)
- 19 20.
- Railings (Island Aft Late)
 Railings (Port Chaff Deck Late)
 Railings (Hull Openings Port Side)
 Railings (Sea Dart Stbd)
- Railings (Hull Openings Stbd Side) Railings (Aft SCOT Platform)
- Mizzen Forward Platform
- 26
- Safety Net (Sea Dart Launcher)
- Railings (Forward 909 Platform) Railings (Aft 909 Platform)
- Railings (Bridge Roof Port)

2

6.

- Railings (Bridge Roof Aft)
- 33.
- 35 36.
- 37.

- 41.
- 42.
- Safety Nets (Stern Early Fit)
 Safety Nets (Stern Early Fit)
 Safety Nets (Stbd 20mm Deck)
 1022 Tower (Front Platform Late) 43.
- 44.

- 48
- 49
- 50.

- 53.

Do not remove the etched parts from the fret until you are ready to use them.

- 55
- 56
- Illustrious Funnel Badges

- Safety Nets (2000 Extra Stock)

- Safety Nets (Ramp Stbd Late)
 Railings (Focsle Catwalk Inter)
 Safety Nets (Ramp Port Early)
 Safety Nets (Ramp Port Late)
 Safety Nets (Forward Flight Deck)
- Safety Nets (Bow Goalkeeper)
- Safety Nets (Stern Late Fit) Safety Nets (Flight Deck Stbd Late)

- Safety Net (Stbd Phalanx Deck)
- Fwd SCOT Platform Supports
- Fwd SCOT Platform Port
- Fwd SCOT Platform Stbd 1022 Tower Antenna (Late) Safety Nets (Port Aft Goalkeeper)
- Safety Nets Ramp Front (Late) Safety Nets Ramp Front (Early)
- Antenna Aft Superstructure (Late)
- Telescopic Antenna Fwd
- Safety Nets (Flight Deck Stbd Early) 1006 Nav Radar Antennas Accommodation Ladders (Stowed)

- Work Boat Davits
- Ark Royal Funnel Badges
- 63. RHIB Koll Bars
- 64
- 65
- Yardarm Stbd Bridge Wing DF Antenna (Late) Radar Sensor Antennas
- 66.
- 67.
- Aft Floodlight Gantry
- Fwd Upper Floodlight Gantry
- Fwd Lower Floodlight Gantry
- 70
- 1022 Radar Antenna Back 1022 Radar Antenna Screen 1022 Radar Transducer Face 71.
- 72.
- 996 Radar Antenna Face
- 73. Huntress Davit Base
- **Huntress Davits**
- 996 Radar Platform
- 78.
- Df Antenna (Early) Aft Funnel Platform Antennas Aft Funnel Platform (Late) 79.
- Ramp Port Yardarm (Early) DAPS Unit Assembly 80.
- DAPs Platform Assembly
- 83 Bowman DF Antennas (Late)
- 84 Yardarms Foremast Aft (Late) Yardarms Foremast Aft (Late) 85
- Yardarms Foremast Fwd (Late) 86.
- Yardarms Foremast Fwd (Late)

- Yardarms (Foremast Sides Early)
- Yardarms (Main Mast Mid Alt)
- Sea Harrier Undercarriage Sets
- 92. Main Mast Approach Light Bank
- 93
- Main Mast Approach Light Mount Sea King Helicopter Parts Main Mast Top Front Yard (Early) Main Mast ECM Antennas (Late)
- 94

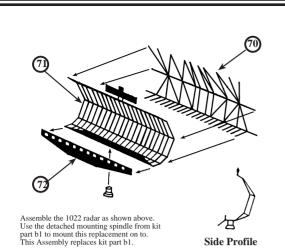
- Merlin Helicopter Parts Island Port Floodlight Strips
- Yardarm (Aft Funnel Early)
- Yardarms (Fore Funnel Front) Late Yardarms (Fore Funnel Rear) Late 100.
- Yardarms (Aft Funnel Front) Late
- Gemini Inflatable Launch Cranes
- Yardarms (Main Mast Top Platform)
- 105. Flood Light Booms
- 106. Caged Vertical Ladders 107. Ships Crane Hook 108. Yardarms (Main Mast Lower)
- 109 Yardarm (Aft Funnel Port Early) Yardarms (Main Mast Middle)
- Anchor Chain 112. Yardarms (Main Mast Upper)
- 113. Jack Staff
- 114. Main Mast Nightmare Antennas
- 115. Ensign Staff 116. Vertical Ladder Stock
- 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.

 Cyanoacrylate adhesive (Super glue) or contact adhesive such as a white PVA glue may be used.

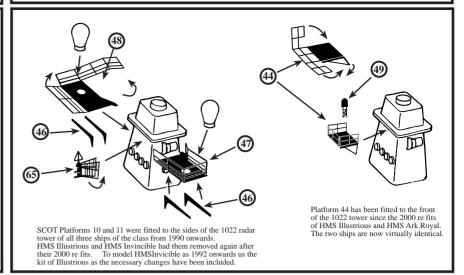
 When removing parts from the fret, place the fret on a hard surface, such as a smooth ceramic tile, in order to prevent parts bending whilst cutting through the holding 3.
- tabs. It is suggested that a No.10 rounded type of modelling knife blade is used for this purpose. 5. When shaping or bending a 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 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.

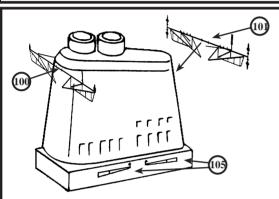
1022 Radar Antenna Assembly



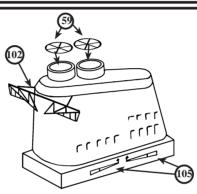
1022 Radar Tower Platform Alternatives



Funnel Yardarm Variations

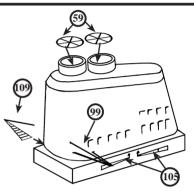


Because of the radical sensor fit to the main mast of HMS Illustrious, some of the antenna were moved to yards mounted on the funnels. These were fitted from the mid 1990s and the locations of parts are shown above.



All three carriers had this type of yard fitted to the aft funnel during the 1990s.
The floodlight booms 105 were fitted to each funnel on both

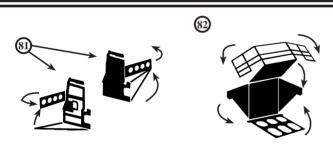




HMS Invincible and HMS Illustrious were fitted with this type of yardarm on the aft funnel during their first years in the 1980s. This is how the funnel yards for the HMS Invincible kit

should be fitted.

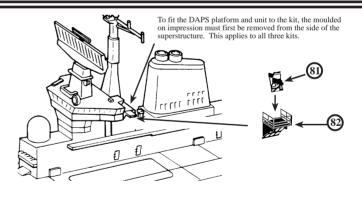
DAPS Lighting Unit Assembly



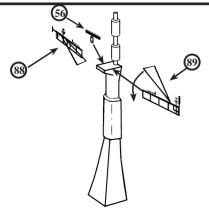
A 1980s model of HMS Illustrious can be modelled from the Invincible kit using the DAPS unit, parts 81 and 82 as shown above.

This system was also fitted to HMS Invincible after she was brought up to the same standard as HMS Illustrious after the Falklands conflict.

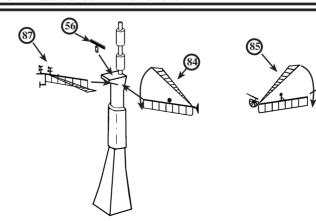
DAPS Platform Location



Fore Mast Yardarm Variations

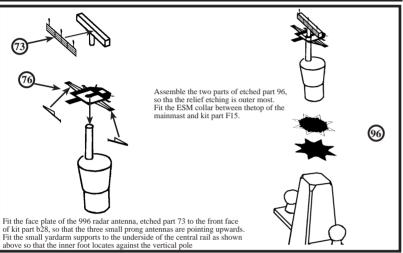


Replacement yardarms for the masts have been provided in the set. To fit these as shown, the moulded on impressions must first be removed from the kit parts. Fold the support frame over the yard arms until they are positioned as shown on item 88. Etched part 56 replaces kit parts b25. All three ships had this fit until year 2000.

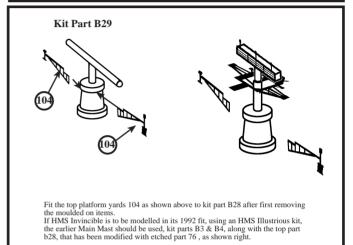


During theyear 2000 re fits of HMS Illustrious and HMS Ark Royal, the main mast yard arms were removed to allow for countermeasures to be fitted. Some of the Antenna were moved to the Foremast by fitting additional yards as shown above so they extended at 45° to the Fore and Aft line. The after pair of yards were also fitted lower than the front pair. The laddered support frames fold down so that they sit to the rear of the yards and not either side as earlier fittings.

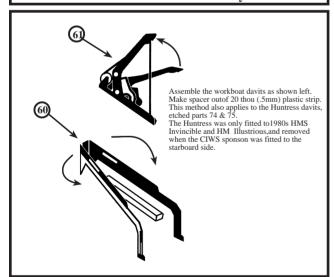




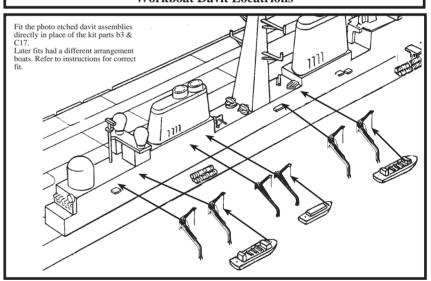
Main Mast Top Fittings (Early)



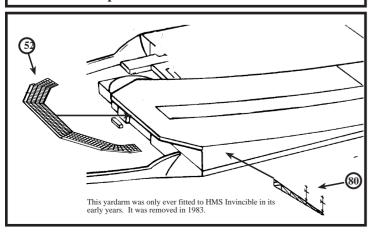
Workboat Davit Assembly



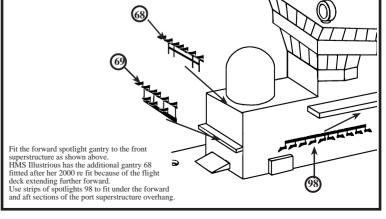
Workboat Davit Locatrions

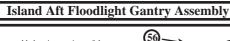


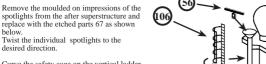
Ramp Port Side Yardarm Location



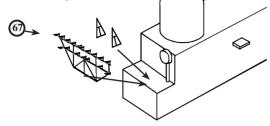
Forward Floodlight Gantry Assembly



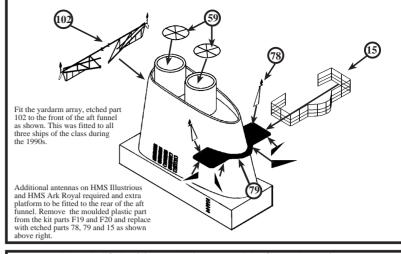




Curve the safety cage on the vertical ladder around so that it touches the other side of the ladder. Secure in place with superglue. Fit the ladder to the radar pole.

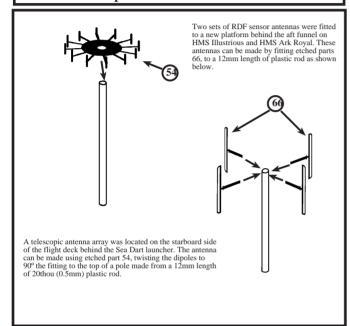


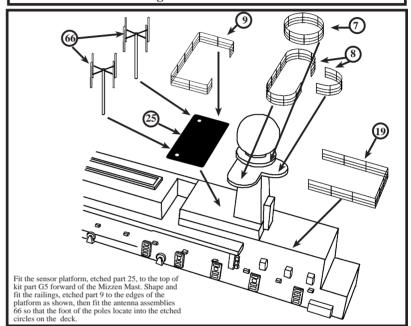
Island Aft Railing and Antenna Platform Locations



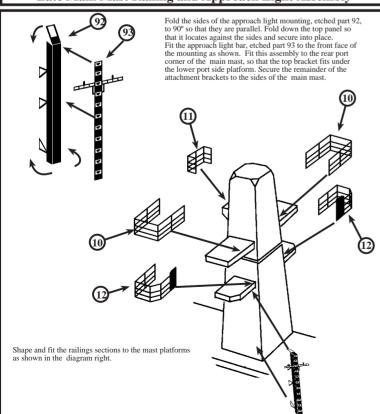
Late Aft Funnel Platform Assembly

Telescopic and Radar Sensor Antennas

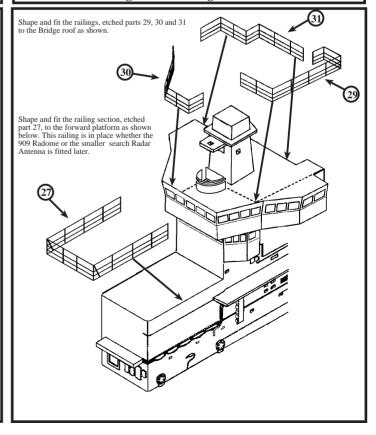




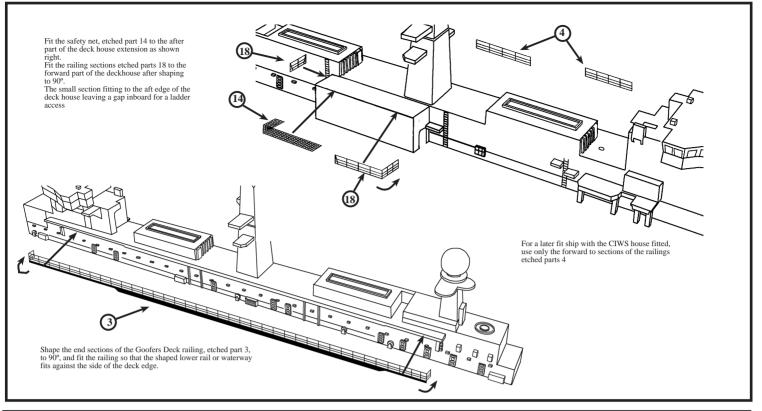
Late Main Mast Railing and Approach Light Assembly



Bridge Roof Railing Location



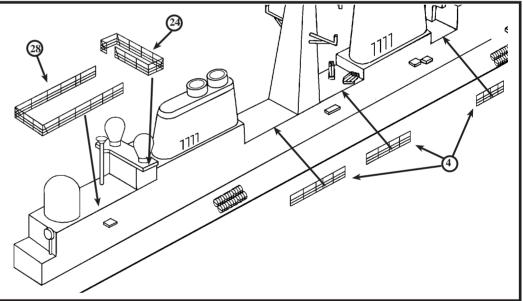
Island Mid Section Railing Locations (Late Fit)



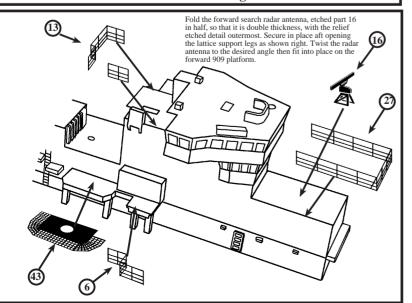
Island Starboard Railing Location (Early Fit)



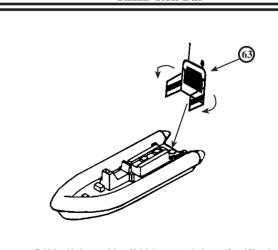
Shape and fit the aft 909 Radome platform railings etched part 28 to the edges of the deck as shown. Shape and fit the SCOT platform railing section etched part 24, to the edges of the platform, with a gap left for the radar antenna pole bracket.



Island Forward Late Fittings Locations



RHIB Roll Bar

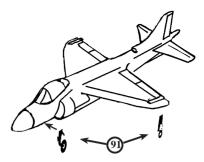


Fold the side frames of the self righting gear, etched parts 63, to 90° so that they are parallel, then fit into the rear of the boat, kit assembly b59 in the kit instructions.



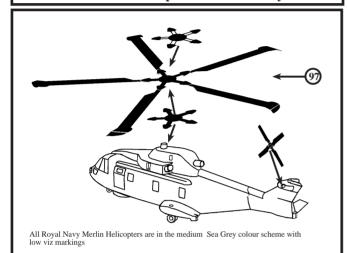
The ASW Seaking Helicopters were painted RAF Blue/Grey up until 1986 when they were changed gradually to Medium Sea Grey. The AEW Sea Kings were initially painted Dark Sea Grey but were also changed to Medium Sea Grey after 1987.

Sea Harrier Undercarriage Fittings

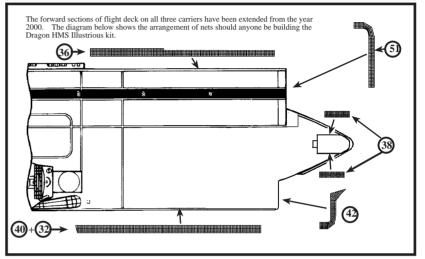


The Sea Harriers were originaly painted Extra Dark Sea Gray upper surfaces and White undersides, but after 1981 were changed to Dark Sea Grey all over. During 1982 HMS Illustrious 809 NAS Sea Harriers were Medium Sea Grey. In 1994 the Mk 2 Sea Harriers were changed to Medium Sea Grey.

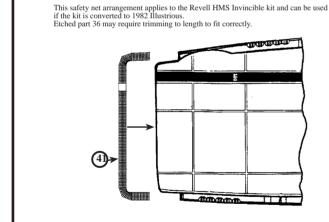
Merlin Helicopter Rotor Assembly

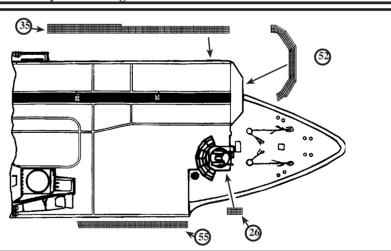


2000 Forward Extended Flight Deck Safety Net Arrangement

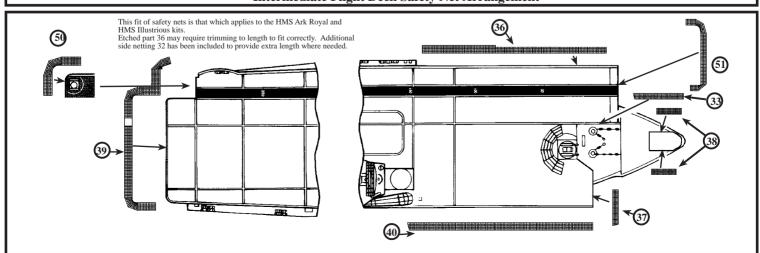


Early Flight Deck Safety Net Arrangement





Intermediate Flight Deck Safety Net Arrangement



Other Instructions

- 1. Etched part 17 is a length of Stock Railing with varying spaced stanchions, that will allow any areas to be fitted out, that do not have tailored to fit railings provided.
- 2. Etched parts 116 are stock lengths of Vertical Ladder. This allows vertical ladders to be cut to the required lengths and fitted to any bulkheads, platforms and masts as required. It may be necessary to remove some raised moulded detail from some areas that require these ladders to be fitted in lieu.
- 3. Etched parts 111 are stock lengths of Anchor Chain. This can be cut to length to fit around the capstans on the fo'c'sle deck and attach to the shackles on the anchors or longer lengths can be used to run from the hawse pipe holes to the surface of a sea scape diorama if the model is being portrayed at anchor.
- 4. The Bowman DF Antennas, etched parts 83, are provided in case anyone should wish to build the model as HMS Illustrious in her final fit. These antennas were located on small platforms at the rear base quarters of the Mizzen Mast.
- 5. Etched Parts 5, 21 and 23 are specially shaped sections of railing to fit the openings in the Stern, Port Side and Starboard Side of the hull respectively. The small sections of railing have been placed in the fret in sequence from fore to aft as they fit into the hull openings. The Stern Railings are symmetrical and only the left hand sets are deleted where the CIWS sponson fits.
- 6. Etched parts 57 are the Accommodation Ladders in the stowed position. These are handed to fit on the port and starboard side embarkation bays with the small rectangular part positioned to forward.
- 7. Further research will be necessary to establish the exact parts required for any one of the variety of projected fits in the time frames given with the kits available. The later Dragon kits have the most parts included to give the best range of fits for all three ships of the class, but some good reference material will help establish the details that were apparent on each individual ship at various points in time.

 Jecobin Plans sets are always a good reference point and are now available again from Quaycraft Model Boats. Modern Combat Ships Volume 2 Invincible Class Carriers by Paul Beaver is a good source of information.