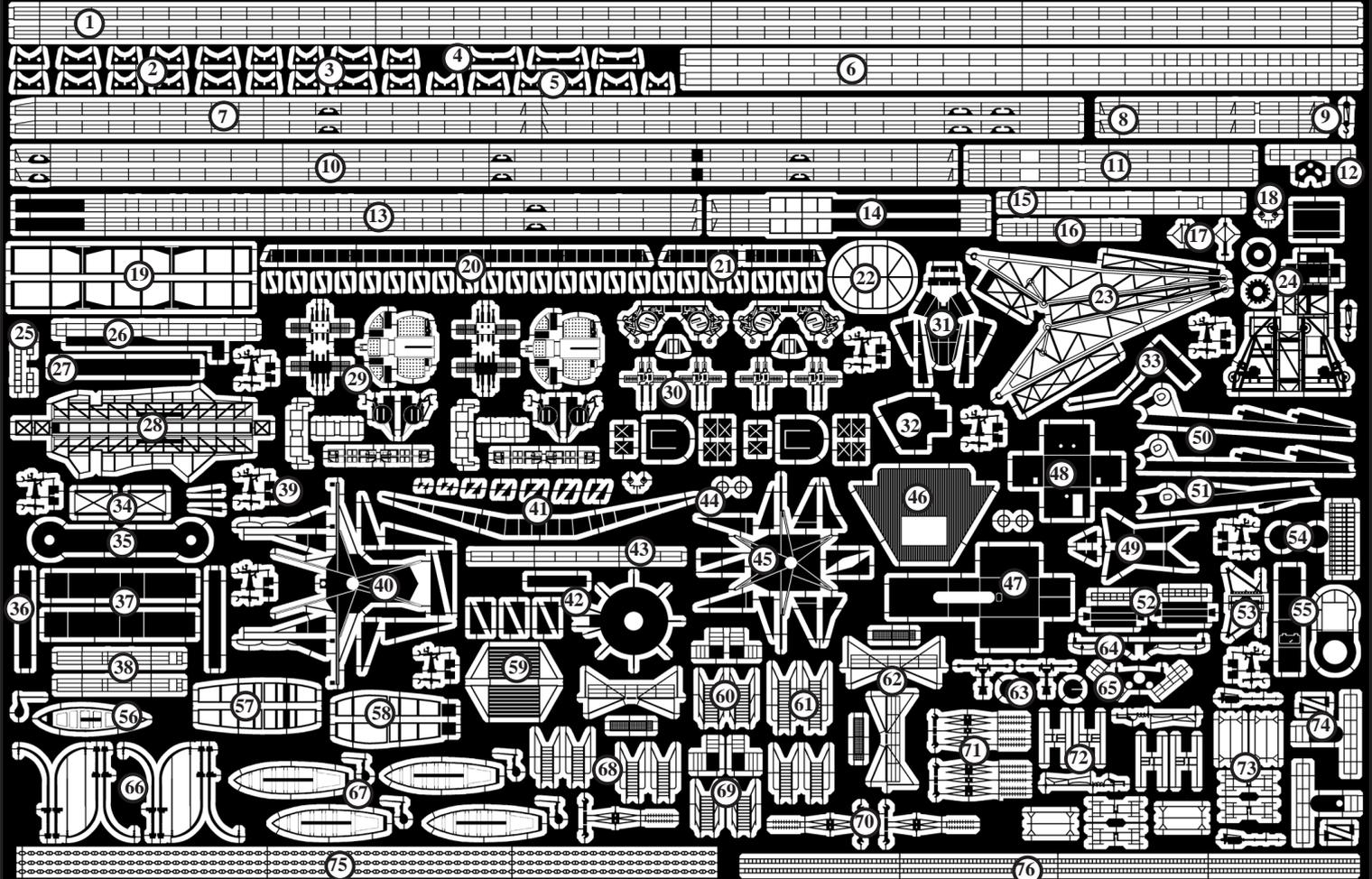


# HMS Royal Sovereign 'R' Class Battleships

Photo-etched detail set to fit one of the  
 Frog/ Novo/ Eastern Express  
 kits in 1/500 Scale

## Parts List



HMS Royal Sovereign 'R' Class Battleship 1/500 Scale

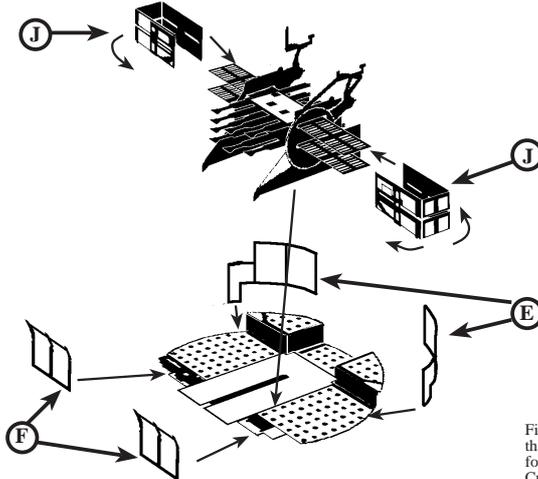
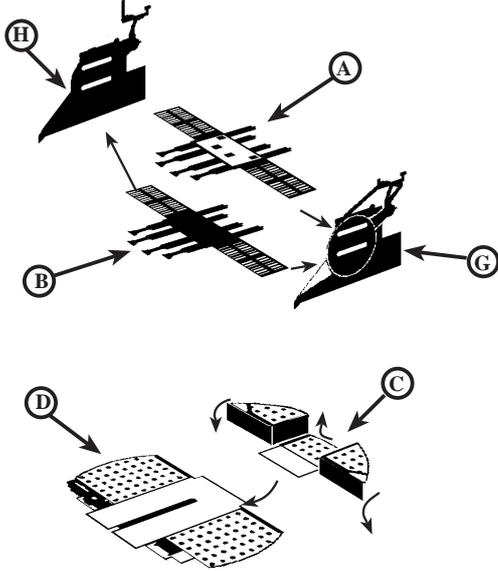
- |                                       |   |  |
|---------------------------------------|---|--|
| 1. 3 Bar Railing Stock                | 26. Catapult Walkway                          | 52. 684 Fire Control Radar Antenna                 |
| 2. 32' Cutter Cradles                 | 27. Catapult Base Plate                       | 53. Aircraft Launch Cradle                         |
| 3. 35' Motor Boat Cradles             | 28. Catapult Assembly                         | 54. Radar Lantern Assembly                         |
| 4. Large Motor Boat Cradles           | 29. 8 Barrelled Pom Pom Assembly              | 55. Radar Lantern Platform and Housing             |
| 5. 42' Pinnacle Cradles               | 30. 4 Barrelled Pom Pom Assembly              | 56. 27' Whaler Thwarts and Rudder                  |
| 6. 2 Bar Railing Stock                | 31. Main Mast Mid Platform                    | 57. 4" Gun Enclosures (Aft)                        |
| 7. Railings (Quarterdeck)             | 32. Aircraft Crane Base Deck Plate            | 58. 4" Gun Enclosures (Forward)                    |
| 8. Railings (Conning Tower Deck)      | 33. Main Mast Wave Guide Conduit              | 59. Carley Raft Platforms (Shelterdeck Aft)        |
| 9. Crane Hooks                        | 34. Main Mast AA Platform Supports            | 60. Inclined Ladder and Landing (Quarterdeck)      |
| 10. Railings (Focsle Deck)            | 35. Main Mast AA Platforms                    | 61. Inclined Ladder Conning Tower Deck Aft         |
| 11. Railings (Shelter Deck Aft)       | 36. Main Mast AA Platform Splinter Shields    | 62. Leadsman's Platforms                           |
| 12. Main Mast Tripod Top Platform     | 37. Main Mast AA Platform Under Housing       | 63. Bridge Rangefinders                            |
| 13. Railings (Focsle Deck Aft)        | 38. Main Mast AA Platform Railings            | 64. Fore Mast Lower Yardarm                        |
| 14. Railings (Shelter Deck Forward)   | 39. 20mm Single Oerlikon                      | 65. Fore Mast Tripod Top Platform                  |
| 15. Railings (Main Mast SF Platform)  | 40. Fore Mast Starfish Platform Assembly      | 66. Sea Boat Davits                                |
| 16. Railings (Radar Lantern Platform) | 41. Focsle Breakwater Assembly                | 67. 32' Cutter Thwarts and Rudder                  |
| 17. DF Antenna                        | 42. B Turret AA Platform Assembly             | 68. Inclined Ladders                               |
| 18. Signal Lamps                      | 43. B Turret AA Platform Railing              | 69. Inclined Ladder and Landing (Shelter Deck Aft) |
| 19. Shelter Deck Support Frames       | 44. Searchlight Lens Crosses                  | 70. 282 Radar Yagi Antenna                         |
| 20. X Turret Blast Screen             | 45. Main Mast Starfish Platform               | 71. 285 Radar Yagi Antenna                         |
| 21. B Turret Blast Screens            | 46. Shelter Deck Aft Plate                    | 72. 279 Air Warning Radar Antenna                  |
| 22. Funnel Cap Grill                  | 47. Main Mast Lower House                     | 73. 281 Air Warning Radar Antenna                  |
| 23. Aircraft Crane Jib                | 48. Shelter Deck Aft House                    | 74. Mast Top Radar Platforms                       |
| 24. Aircraft Crane Base               | 49. Fore Mast Upper Director Platform Support | 75. Anchor Chain                                   |
| 25. Compass Platform Windscreen       | 50. Anchor Chain Running Plates Port and Mid  | 76. Vertical Ladder Stock                          |
|                                       | 51. Anchor Chain Running Plate Starboard      |  |

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.

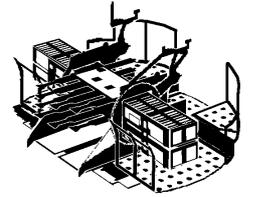
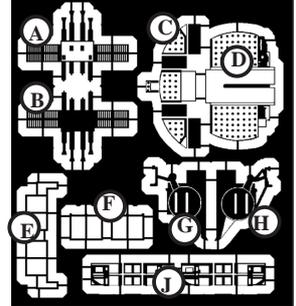
### 8 Barrelled Pom Pom Assembly

Slide the ammunition belts through the slots in the side panels of the gun mounting, so that they are horizontal and the side panels are at 90° to them. Fix in to place with super glue.

This AA gun mounting assembly has been provided to replace the plastic Pom Pom mounting provided in the kit as parts 39.



29

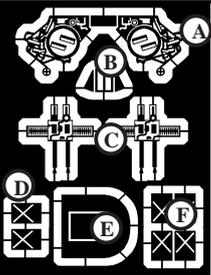


Fold the rear footplate to the shape shown above, then slide the tab underneath the centre of the front footplate then secure in to position. The footplate can be thickened by laminating a piece of plastic card to the underside as desired.

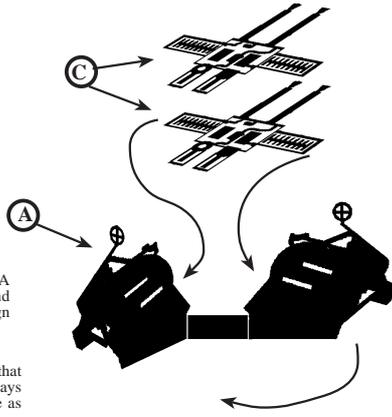
Fold the sides of the ammunition trays around to 90° from the end plate, so that they are parallel then fit to the ammunition belts on each side of the gun mounting, so that the ammunition belts sit just below the top edge of each of the tray sides.

Fit the gun mounting to the central area on the footplate so that the sides of the shell case chutes fit up to the perforated footplate's. Cut a block of plastic card to size so that it fits in the central void between the upper and lower sets of gun barrels. This will give a more solid appearance to the gun mounting. Gently curve the rear railings to fit around the raised parts of the footplate's as shown left. Put a slight angle outwards to the tops of the front railings then fit to each side of the forward foot plate.

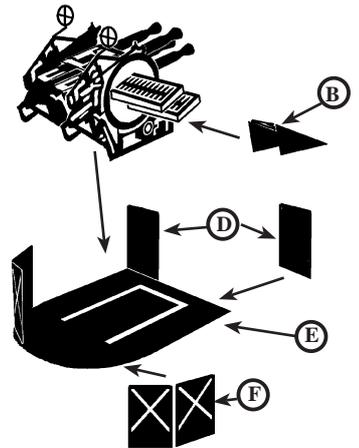
### 4 Barrelled Pom Pom Assembly



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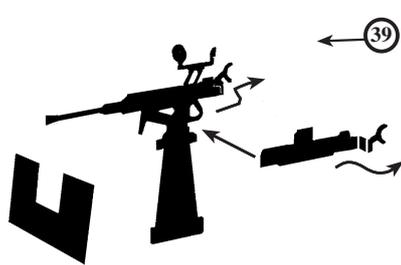
Fit assembled gun mounting to base part 30E. Fit spent case chute 30B to the front of the mounting after folding down the support sides. Fit the splinter shields, parts 30D and 30F into place as shown right.



This assembly has been provided for the additional AA gun mountings fitted to the platform on 'B' Turret and the aft area of the quarterdeck, just forward of the ensign staff.

To assemble fold the sides of etched part 30A round so that they are parallel and at the same time pass the ammo trays on the gun clusters, through the slots from the inside as shown right. The ammunition trays may be given additional depth by adding strips of plasticard to the undersides of the trays then trimming back to the shape of the tray

### 20mm Single Oerlikon

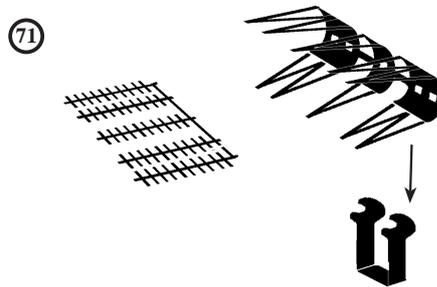


Fold the shoulder rests on each part of the gun body so that they are set apart when the gun body doubler is fitted. Fit the doubler plate to the gun body so that the long part fits over the gun body making it double thickness.

Fit the gun shield centrally to the locating lug just below the mid point on the gun.

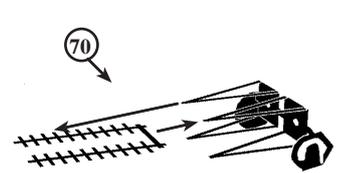
These gun mountings were fitted to all the ships of the class in various positions, at different times during WW2, but as a guide they can directly replace kit parts 69.

### 285 AA Radar Yagi Antenna Assembly



Assemble the 285 Fire Control antenna by folding a gentle curve on to the rectangular reflectors then folding over the stays so that they face forwards. Fit the set of dipoles centrally on to the reflector faces, locating the pegs into the slots. Nip the pointed ends of the stays together so that they trap the centre bar of the dipoles between them. Fit the mounting arms to the spindles between the reflectors. The complete assembly then fits on to the top of the HAC's directors, kit part 32, after removing the extended arms.

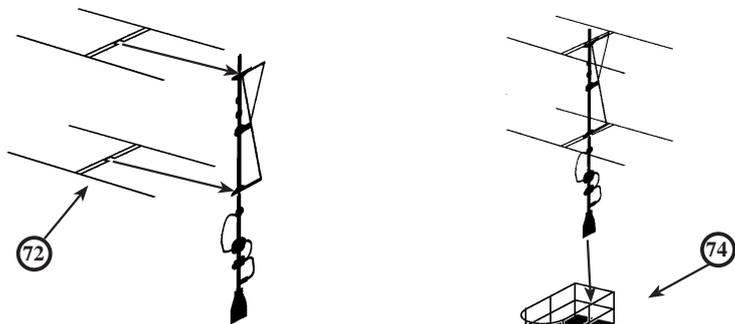
### 282 Radar Yagi Antenna



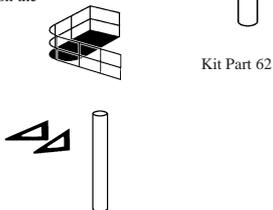
Assemble the 282 Yagi AA Armament Director antenna as shown above. Ensure the points of part 70 are pinched together after the dipoles are fitted into place.

Fold down the mounting plates each side into the position shown. Make two sets. Fit these on to plastic rod pintles and fit to the tops of kit parts 49.

### 279 Radar Antenna Assembly



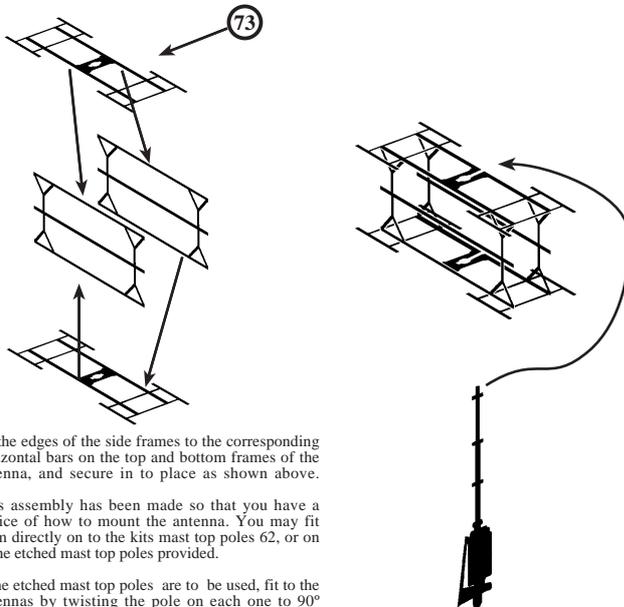
Fit the two sets of dipoles so that the central slots locate onto the upright pole above and below the middle frame as shown above.  
 Fold up the railings on the mast top platform, etched part 74, and shape to fit around the edges of the platform. Fit the platform to the mast top and secure into place with the angled supports locating under the platform and onto the mast pole. The platform should face rearwards on the mast when fitted in place.



Kit Part 62

Make two sets of these and use to fit to the mast top poles of the ships in early WW2 fit.

### 281 Radar Antenna Assembly

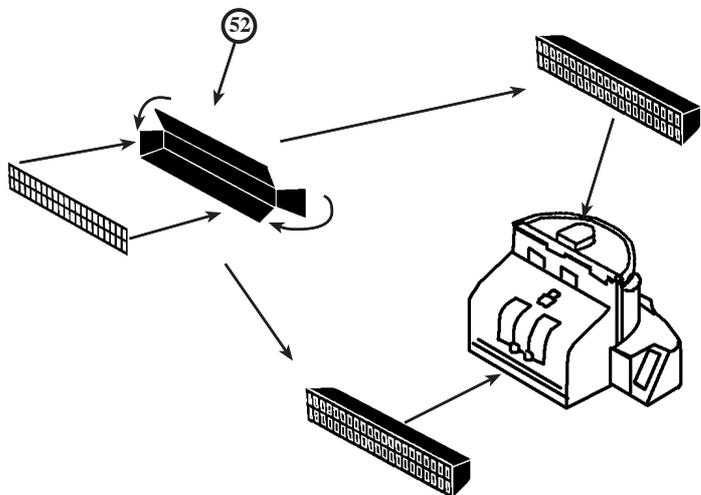


Fit the edges of the side frames to the corresponding horizontal bars on the top and bottom frames of the antenna, and secure in to place as shown above.

This assembly has been made so that you have a choice of how to mount the antenna. You may fit them directly on to the kits mast top poles 62, or on to the etched mast top poles provided.

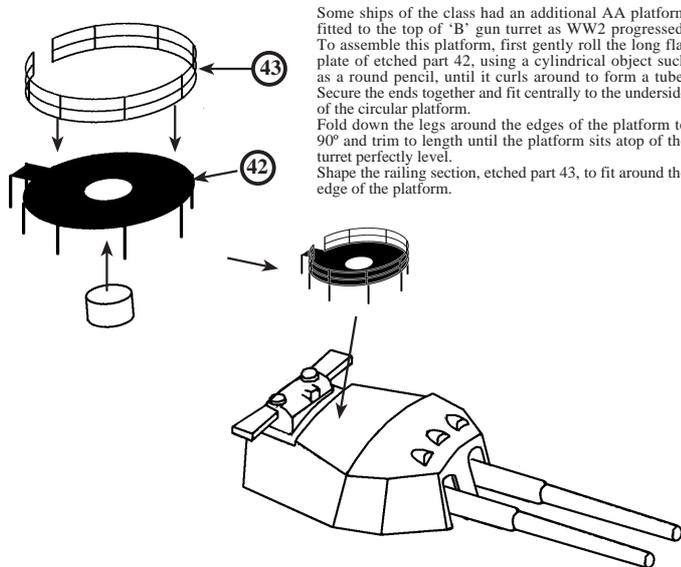
If the etched mast top poles are to be used, fit to the antennas by twisting the pole on each one to 90° against the base. This will allow the locating bars on the poles to engage the central platform on the antennas. Fit to the mast top platform in the same way as with the previous 279 antenna. Make two of these and fit to the late WW2 fit ships.

### 284 Gunnery Radar Fittings



284 Gunnery radar antennas have been provided as etched parts 52. Fold the antenna body to shape, bringing the end plates around to 90° then folding the top and bottom plates to meet up with the angled edges of the end plates. Secure in to place. Fit the grilled front panel as shown above. One of the antenna is fitted to the top of the director, kit part 35, as shown above, whilst the other is fitted to the lower front of the director.

### 'B' Turret Pom Pom Platform

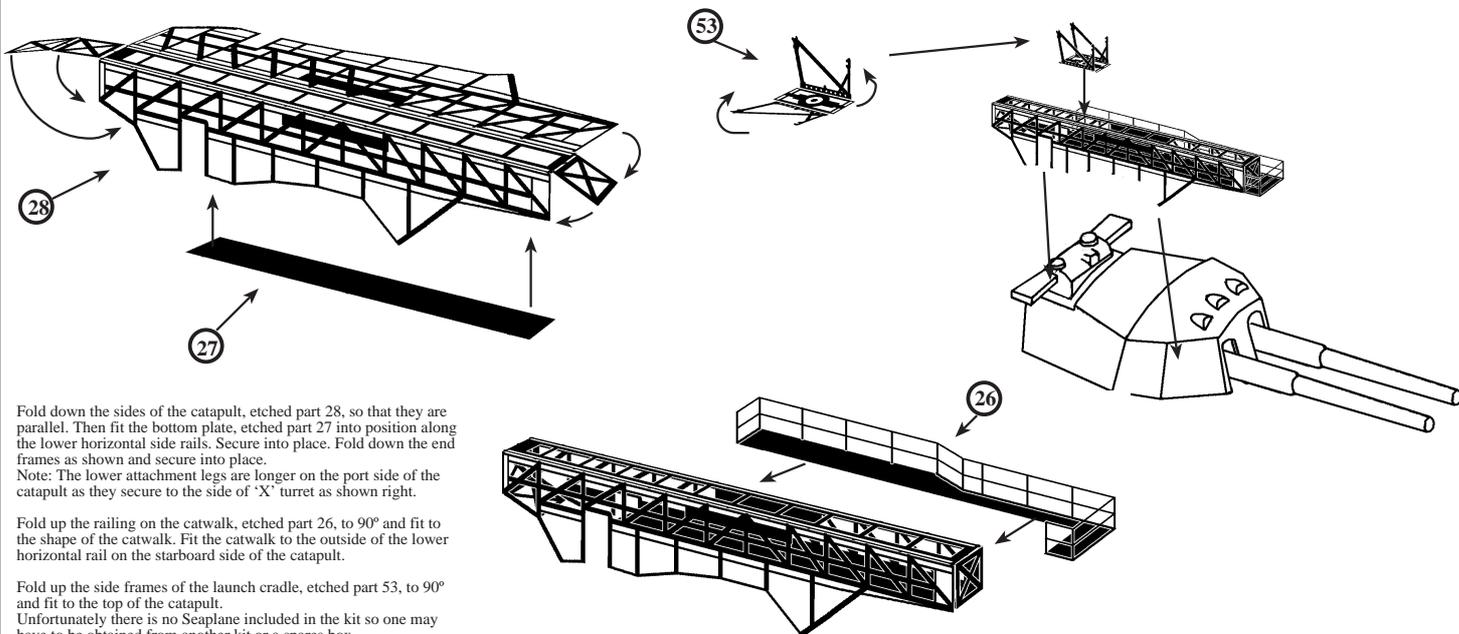


Some ships of the class had an additional AA platform fitted to the top of 'B' gun turret as WW2 progressed. To assemble this platform, first gently roll the long flat plate of etched part 42, using a cylindrical object such as a round pencil, until it curls around to form a tube. Secure the ends together and fit centrally to the underside of the circular platform.

Fold down the legs around the edges of the platform to 90° and trim to length until the platform sits atop of the turret perfectly level.

Shape the railing section, etched part 43, to fit around the edge of the platform.

### 'X' Turret Seaplane Catapult Assembly



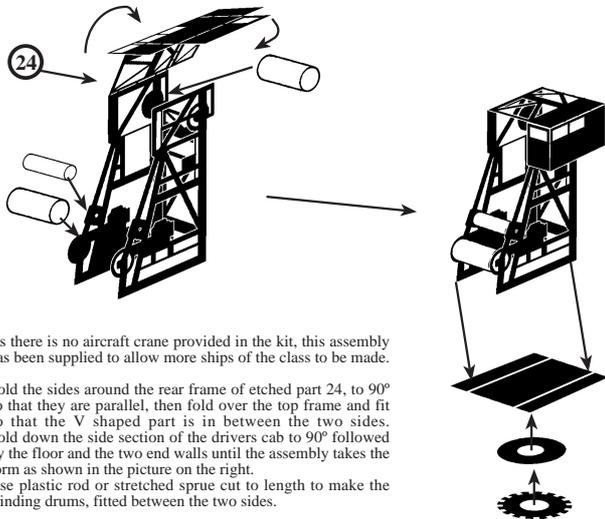
Fold down the sides of the catapult, etched part 28, so that they are parallel. Then fit the bottom plate, etched part 27 into position along the lower horizontal side rails. Secure into place. Fold down the end frames as shown and secure into place.

Note: The lower attachment legs are longer on the port side of the catapult as they secure to the side of 'X' turret as shown right.

Fold up the railing on the catwalk, etched part 26, to 90° and fit to the shape of the catwalk. Fit the catwalk to the outside of the lower horizontal rail on the starboard side of the catapult.

Fold up the side frames of the launch cradle, etched part 53, to 90° and fit to the top of the catapult. Unfortunately there is no Seaplane included in the kit so one may have to be obtained from another kit or a spares box.

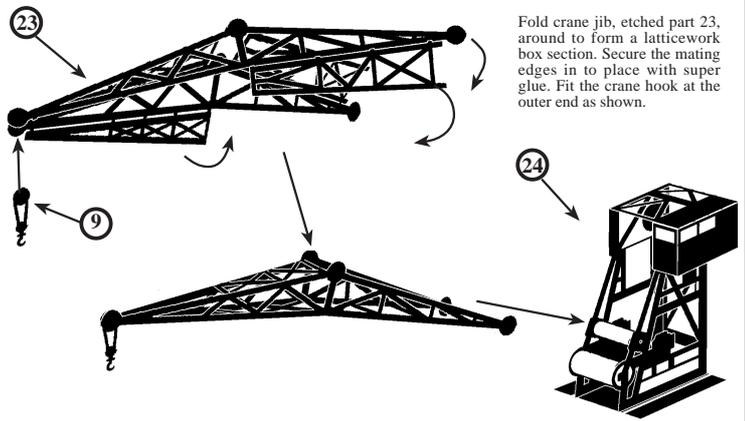
## Crane Cab Assembly



As there is no aircraft crane provided in the kit, this assembly has been supplied to allow more ships of the class to be made.

Fold the sides around the rear frame of etched part 24, to 90° so that they are parallel, then fold over the top frame and fit so that the V shaped part is in between the two sides. Fold down the side section of the drivers cab to 90° followed by the floor and the two end walls until the assembly takes the form as shown in the picture on the right. Use plastic rod or stretched spruce cut to length to make the winding drums, fitted between the two sides.

## Crane Jib Assembly

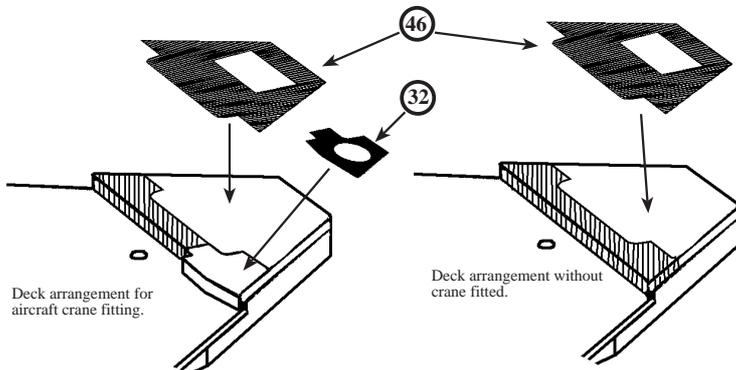


Fold crane jib, etched part 23, around to form a latticework box section. Secure the mating edges in to place with super glue. Fit the crane hook at the outer end as shown.

Fit the crane jib on to the crane base at the locating points shown. Set at the required angle before applying adhesive. Cut two lengths of plastic rod or spruce to fit across the pulley points on the crane base and jib.

## Shelter Dck Aft Section Re Shape

At this point, some modification is required to re shape the mouldings of the kit parts around the rear of the shelter deck.



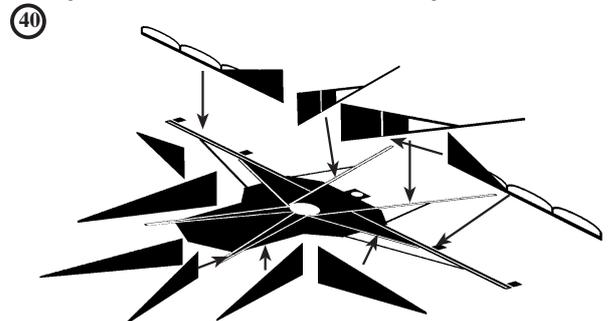
Deck arrangement for aircraft crane fitting.

Deck arrangement without crane fitted.

First of all, the deck house moulded into the rear of kit part 24 must be removed using a sharp blade or razor saw. Also remove the oval HACs tower. Next, using the etched deck plate 46 as a template, mark out and remove the excess area that is hatched out in the diagrams above. Smooth down and fit the deck plates as shown.

## Fore Mast Starfish Assembly

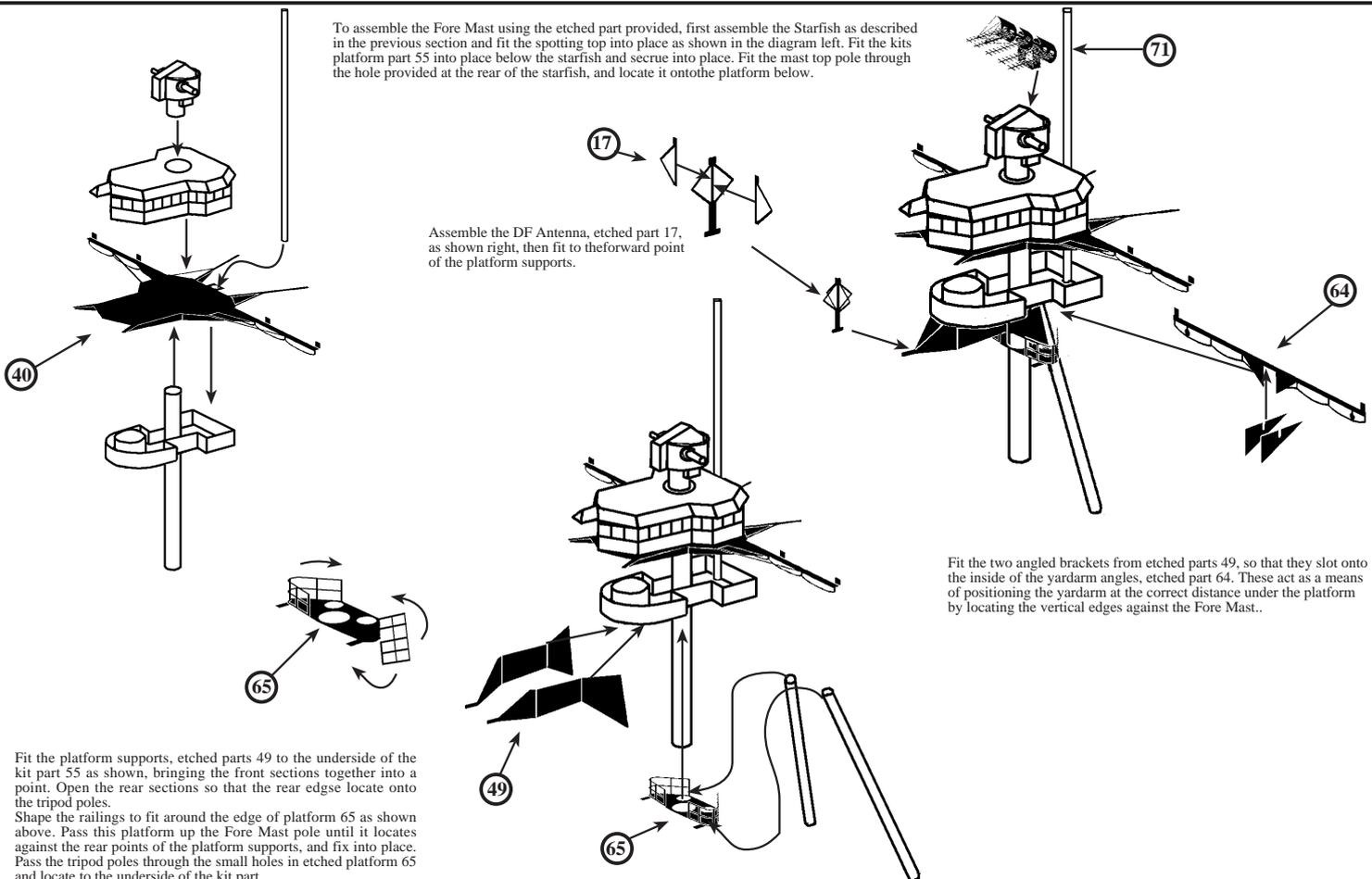
It is recommended that when assembling the photoetched replacement starfish, the platform is fixed to the top of the mast pole first and positioned correctly so that the mast top covers the relief etched circles on the underside of the platforms.



Now the supports brackets may be fitted as shown above into the etched slots on the undersides of the platform arms. The vertical edges of the brackets fit against the mast pole. Use the etched slots as a guide as to which direction each of the brackets fit as not all of them fit against the mast pole. When the starfish has been assembled, the Spotting Top parts 56 and 57 may now be fitted to the Fore Mast starfish after removing the moulded plastic from underneath.

## Fore Mast Assembly and Detail Location

To assemble the Fore Mast using the etched part provided, first assemble the Starfish as described in the previous section and fit the spotting top into place as shown in the diagram left. Fit the kits platform part 55 into place below the starfish and secure into place. Fit the mast pole through the hole provided at the rear of the starfish, and locate it onto the platform below.



Assemble the DF Antenna, etched part 17, as shown right, then fit to the forward point of the platform supports.

Fit the two angled brackets from etched parts 49, so that they slot onto the inside of the yardarm angles, etched part 64. These act as a means of positioning the yardarm at the correct distance under the platform by locating the vertical edges against the Fore Mast.

Fit the platform supports, etched parts 49 to the underside of the kit part 55 as shown, bringing the front sections together into a point. Open the rear sections so that the rear edge locate onto the tripod poles. Shape the railings to fit around the edge of platform 65 as shown above. Pass this platform up the Fore Mast pole until it locates against the rear points of the platform supports, and fix into place. Pass the tripod poles through the small holes in etched platform 65 and locate to the underside of the kit part.

### Focsle Deck Forward Fittings

Fold the side frames of the leadsmans platform around to 90° so that they are parallel, then fit the platform to the large lower horizontal rail.

Remove the anchor chain detail from the focsle deck and smooth the surface. Fit the anchor chain rubbing plates, etched parts 50 and 51 to the deck in the positions shown above. Shape the focsle section of railing, etched parts 10, to fit the edges of the deck and secure into place.

The moulded plastic breakwater may be removed if desired and replaced with etched parts 41 as shown above. The support braces fit to the rear of the breakwater. Fit the leadsman's platforms to the side of the ship protruding out from the railings at the point where there is a very narrow gap in the stanchions. Once the railings have been fitted, cut the sections of upper railings out and fit the inner platform onto the deck edge.

### Focsle Deck Aft Fittings and 'X' Turret Shield Location

Shape the sections of railing, etched parts 13, to fit the edges of the deck above the secondary gun casemates, as shown below.

Remove the moulded plastic blast shield from the deck behind X turret barbette and smooth the surface of the deck. Shape the shield section, etched part 20, as shown left and fit into position of the former moulded part. Fit the bracing fillits to the forward sides of the blast shield.

Fold up the railings on the ladder landings of etched parts 60, to 90° and shape a further 90° to fit the edge of the landing. Fold up the sides of the ladders to 90° so they are parallel. Fit the landings to the forward end of the angled deck edge between the end of railings 13, and the forward edge of the blast shield 20.

### Shelter Deck Detail Location

Shape the 4" gun splinter shields, etched parts 57 and 58, and fit them to shelter deck as shown.

Shape and fit the ladder landings etched parts 69, to the gap in the railings 11, in the same way as previously described in an earlier section.

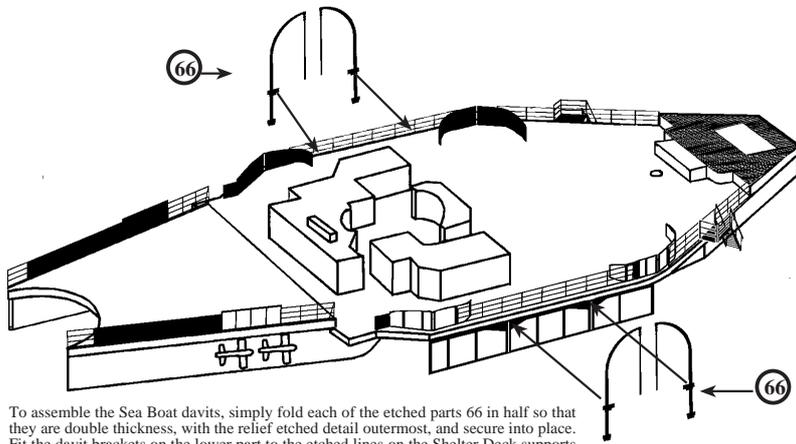
Fit the railing and splinter shield sections, etched parts 14 to the forward edges of the shelter deck with the relief etched detail outermost.

Fit the shelter deck overhang supports, etched parts 19, so that the top horizontal rail fits to the outside edge of the deck and the bottom rail fits to the focsle deck below.

### 'B' Turret Shield Location

Some ships of the class had blast shields fitted behind 'B' gun turret. These are supplied as etched parts 21. Shape these as shown below and fit to the front of the shelter deck just behind the turret barbette as shown above.

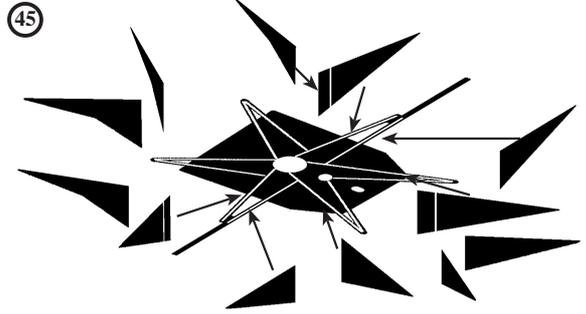
### Sea Boat Davit Location



To assemble the Sea Boat davits, simply fold each of the etched parts 66 in half so that they are double thickness, with the relief etched detail outermost, and secure into place. Fit the davit brackets on the lower part to the etched lines on the Shelter Deck supports as shown. Twist the davits inwards to position the falls over the boats. The Sea Boats in this case are the 32' Cutters and are mounted on the deck in cradles.

### Main Mast Starfish Assembly

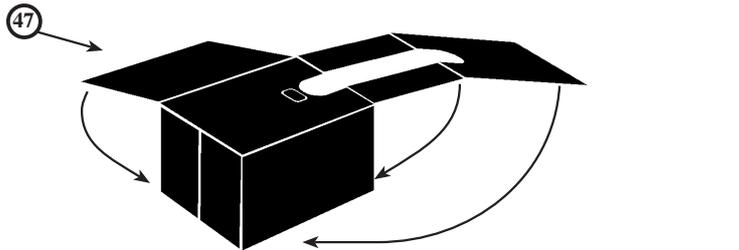
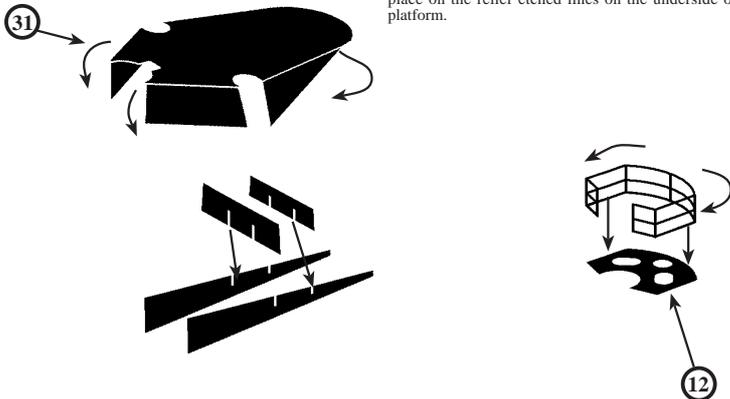
It is recommended that when assembling the photoetched replacement starfish, the platform is fixed to the top of the mast pole first and positioned correctly so that the mast top covers the relief etched circles on the underside of the platforms.



The underside support brackets for the starfish assembly are positioned in the frame adjacent to their assembled positions, for ease of identification.

### Main Mast Platforms and Radar Office Assembly

Turn down the angled side plates of etched part 31, to 90°. Assemble the inner supports by slotting the cross beams into place on the fore and aft beams as shown. Fit into place on the relief etched lines on the underside of the platform.

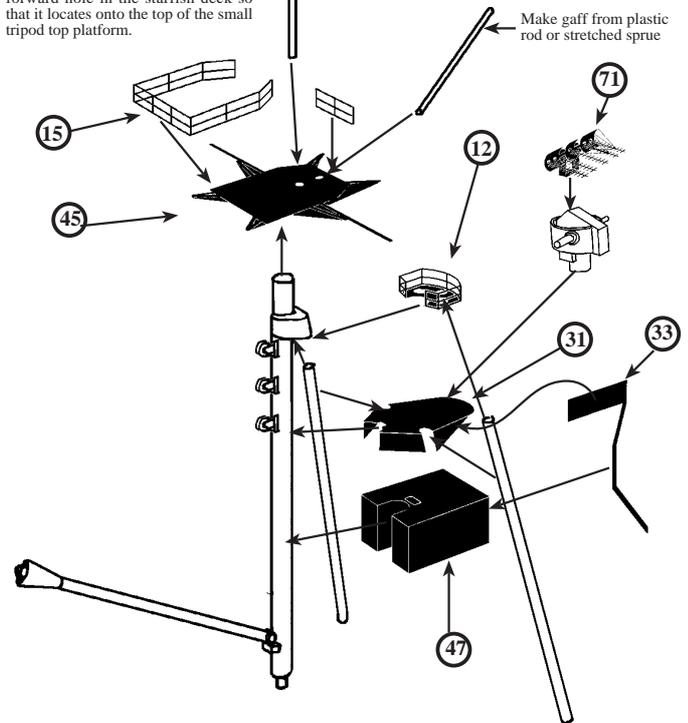


Fold down the sides and back of the radar office, etched part 47, to 90° and secure into place. Fold the front face with the opening for the mast, to 90°, then continue folding the floor panel a further 90°. Secure the edges into place. Shape and fit the railings to the edges of the small tripod top platform, etched part 12.

### Main Mast Assembly

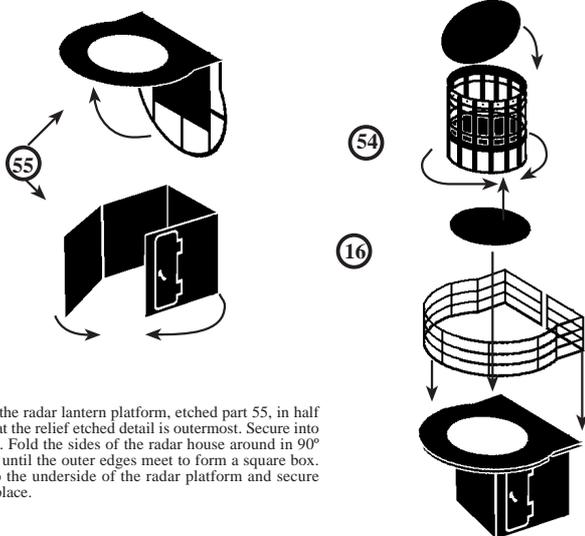
Fit the main mast starfish assembly to the top of the main mast pole, kit part 58. Shape and fit the railings etched part 15 to the edges of the starfish platform. Pass kit part 62 down through the forward hole in the starfish deck so that it locates onto the top of the small tripod top platform.

Fit the platform assembly, etched part 31, to the main mast so that it is positioned just below the lower boat crane pulley. Fit the radar office assembly, etched part 47 to the mast pole so that the roof is 7mm below the level of the platform etched part 31.

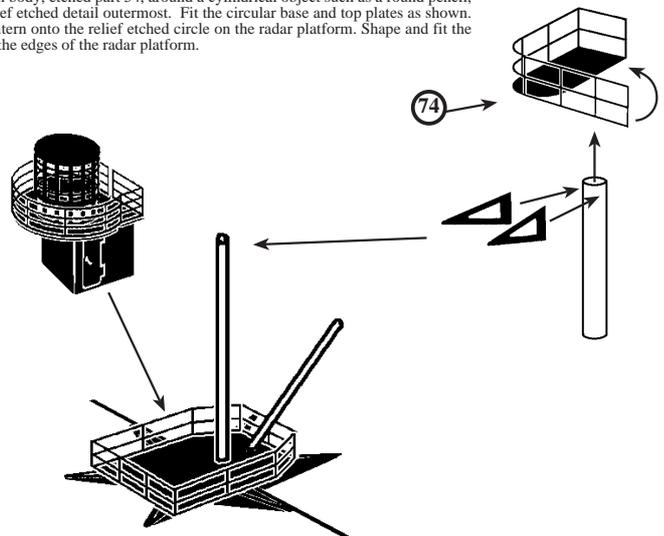


### Main Mast Radar Assembly and Location

Gently roll the radar lantern body, etched part 54, around a cylindrical object such as a round pencil, to form a tube with the relief etched detail outermost. Fit the circular base and top plates as shown. Fit the assembled radar lantern onto the relief etched circle on the radar platform. Shape and fit the railings, etched part 16, to the edges of the radar platform.

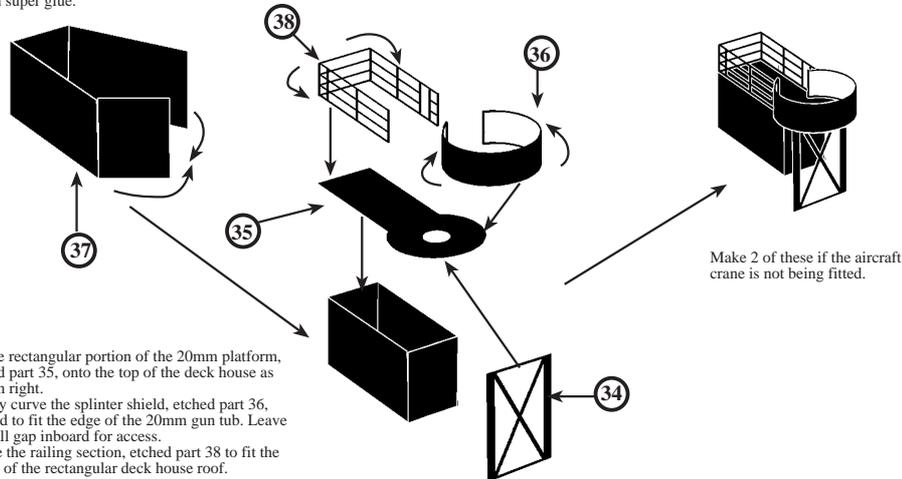


Fold the radar lantern platform, etched part 55, in half so that the relief etched detail is outermost. Secure into place. Fold the sides of the radar house around in 90° steps until the outer edges meet to form a square box. Fit to the underside of the radar platform and secure into place.



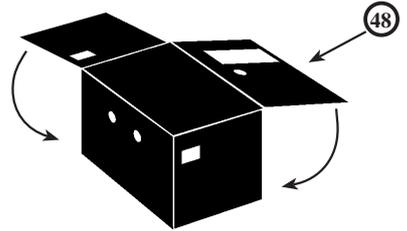
## Main Mast 20mm Platforms and Deck House

Fold the sides of the 20mm platform house round in steps of 90° until the outer ends meet and form a rectangular box. Secure in place with super glue.



Fit the rectangular portion of the 20mm platform, etched part 35, onto the top of the deck house as shown right.  
Gently curve the splinter shield, etched part 36, around to fit the edge of the 20mm gun tub. Leave a small gap inboard for access.  
Shape the railing section, etched part 38 to fit the edges of the rectangular deck house roof.

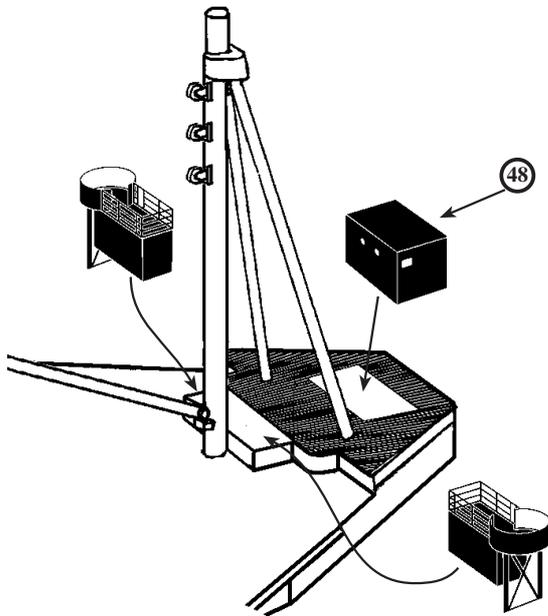
Fold down the sides of the aircraft store, etched part 48, to 90° and fix into place.



Make 2 of these if the aircraft crane is not being fitted.

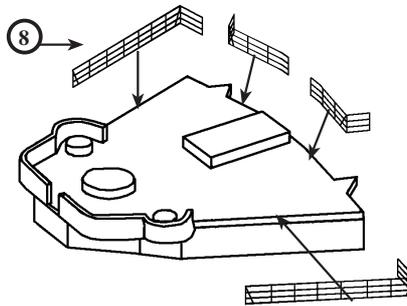
### Main Mast Deck House Location

Fit the two 20mm AA platform houses to the raised step in the deck aft of the main mast as shown below. Only the starboard platform is fitted if the aircraft crane is fitted to port.  
The cross braced supports fit down onto the lower deck level.



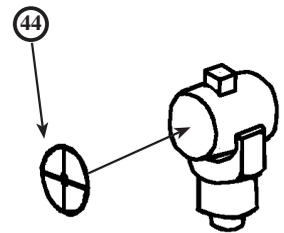
Fit the aircraft store to the relief etched rectangle on the aft shelter deck plate.

### Conning Tower Deck Railings



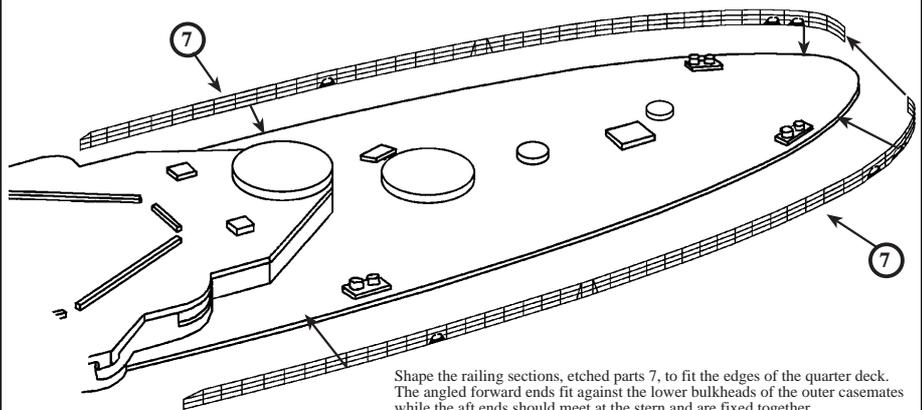
Shape the railings sections, etched parts 8, to fit the edges of the conning tower deck as shown above. The triangular protrusions to the rear of the deck are ladder landings for etched parts 61.

### Searchlight Lens Fitting



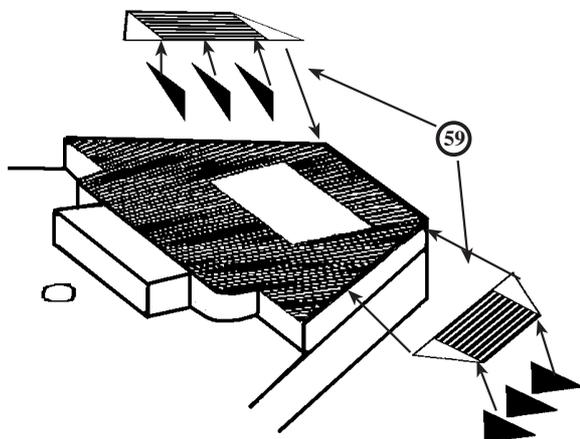
The searchlight lens cross may be fitted to kit parts 40 after first drilling out the front of the searchlight to give the lens depth.

### Quarterdeck Railing Location



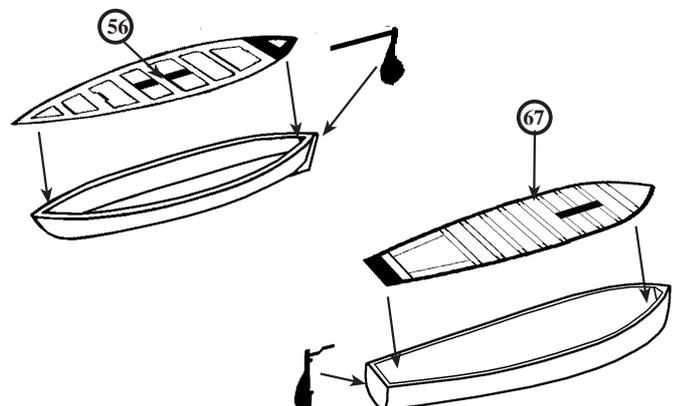
Shape the railing sections, etched parts 7, to fit the edges of the quarter deck. The angled forward ends fit against the lower bulkheads of the outer casemates while the aft ends should meet at the stern and are fixed together.

### Aft Carley Raft Rack Location



Fit the Carley float racks, etched parts 59 to the angled deck edge of the aft section of the shelter deck.  
Fit the three support brackets to the underside of the racks, one centrally two at the outer ends.

### Ship's Boats Assembly



The boats provided in the kit are rather basic and will need to be shaped a little to give them the correct appearance. Remove any detail from inside the open boats and fit the thwarts provided to the top rim as shown. Shape the hull to the plan view of the etched part and then follow by smoothing the hull shape all the way down.. Fit the rudder to the stern post.

## Other Instructions

1. This detail set is designed to fit the original Frog kit of HMS Royal Sovereign from the 1960s and the subsequent re-releases of the kit from companies such as Novo, Eastern Express, Chematic etc. As time has gone on, the moulds have become worn and a lot of the kit parts need replacing. The aim of the detail set is to replace some of the parts where possible and to guide towards any scratch building that may be necessary. The set will also provide the extras that are needed to enhance the kit further and make it a reasonably accurate and presentable part of a collection. It also makes it possible to build other ships of the R class especially HMS Royal Oak and HMS Resolution.
2. The plans used to make this detail set are those supplied by Profile Morskje of HMS resolution and also the publication British Battleships of World War 2, by Raven and Roberts. It is recommended that a copy of these are obtained where possible and used as references when building the model.
3. It is recommended that the instructions are read through completely before starting work, to familiarise yourself with the contents of the detail set and the application and assembly of the parts. Use these instructions in conjunction with the kits instructions for the best result.
4. The ships boats have been provided with cradles, etched parts 2, 3, 4 and 5. The parts list indicates which cradle set is for which boat type.
5. Stock lengths of vertical ladder, etched parts 76, has been supplied to fit to vertical walls, platforms and masts as required. Cut the length needed to fit.
6. Stock lengths of anchor chain, etched parts 75, have been included to replace the moulded plastic impressions on the focsle deck..
7. Etched part 25, is a length of bridge window that fits around the top front of the compass platform combing, kit part 51. Shape to fit exactly.