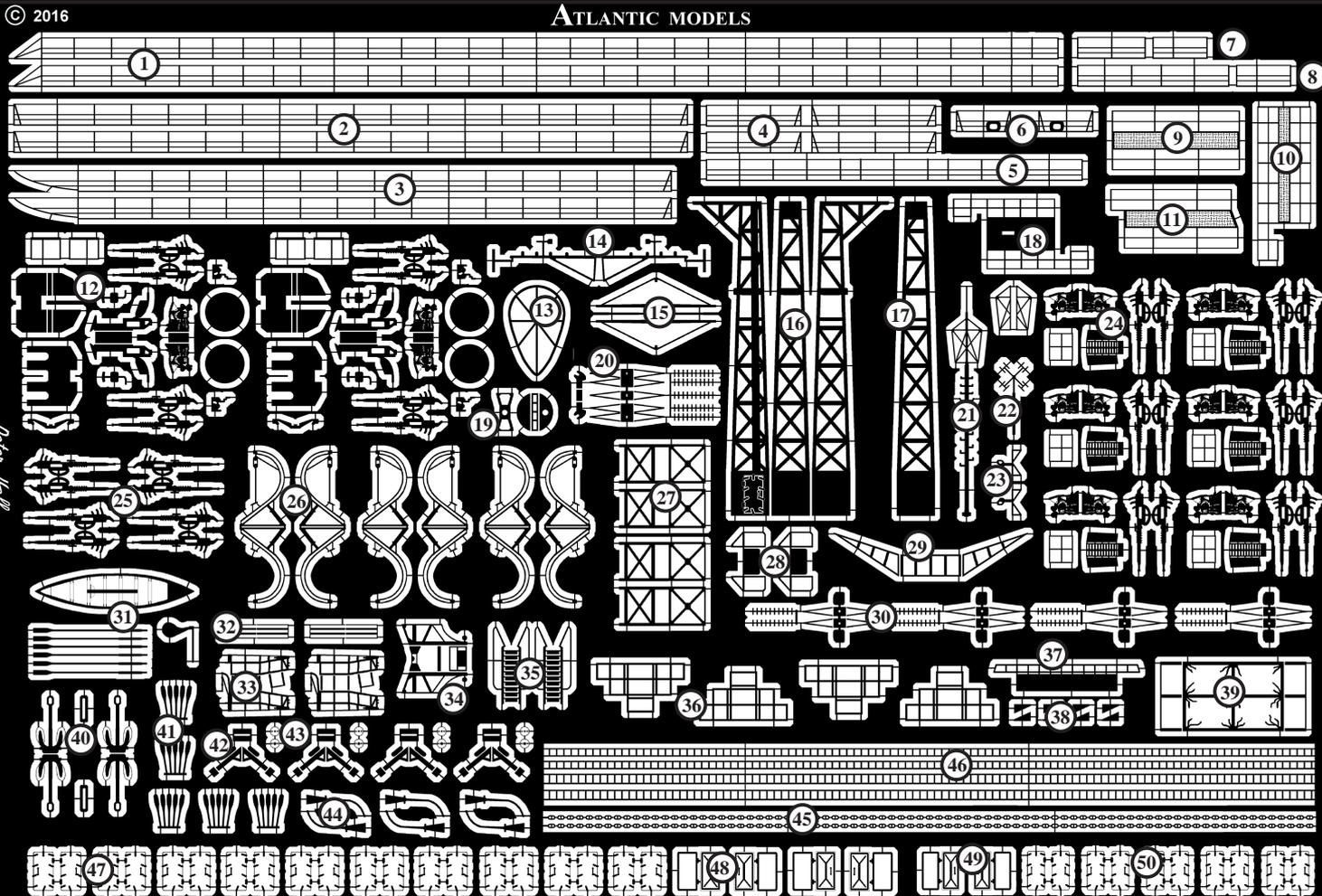


## HMS Trafalgar Battle Class Destroyer Photo-etched detail set to fit the Frog/ Novo kit

Parts List



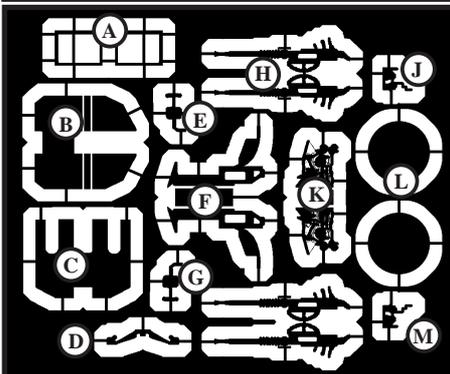
HMS Trafalgar Battle Class Destroyer 1/325 Scale

- |                                |                                    |                                 |  |
|--------------------------------|------------------------------------|---------------------------------|--|
| 1. Railings (Focsls Deck)      | 14. Fore Mast Yardarms             | 26. Boat Davits                 | 38. Bridge Window Supports             |
| 2. Railings (Main Deck Aft)    | 15. Main Mast Yardarms             | 27. Carley Raft Racks           | 39. Bridge Canopy                      |
| 3. Railings Main Deck Fwd)     | 16. Fore Mast Lattice              | 28. Funnel Platforms            | 40. Anchors                            |
| 4. Railings (B Gun Deck Sides) | 17. Fore Mast Front Panel          | 29. Breakwater                  | 41. Carley Raft Paddles                |
| 5. Railings (B Gun Deck Front) | 18. Fore Mast Top Platform         | 30. 282 Radar Yagi Antennas     | 42. Depth Charge Throwers              |
| 6. Railings (Transom)          | 19. 293 Radar Antenna              | 31. 27' Whaler Thwarts & Rudder | 43. Depth Charge End Plates            |
| 7. Railings (Hull Step Stbd)   | 20. 285 Radar Yagi Antenna         | 32. Depth Charge Rails          | 44. Depth Charge Loading Davits        |
| 8. Railings (Hull Step Port)   | 21. Fore Mast Top Pole Antenna     | 33. Depth Charge Rail Frames    | 45. Anchor Chain                       |
| 9. Catwalk (Aft Section)       | 22. 291 Radar Antenna              | 34. Stern Gantry                | 46. Vertical Ladder Stock              |
| 10. Catwalk (Forward Section)  | 23. Funnel Sirens                  | 35. Hul Step Inclined Ladders   | 47. Watertight Door Front Faces        |
| 11. Catwalk (Centre Section)   | 24. 40mm Single Bofors Parts       | 36. Depth Charge Stowages       | 48. Watertight Door Inner Face & Frame |
| 12. 40mm Twin Bofors Mounting  | 25. 40mm Bofors Barrels for Staags | 37. Bridge Window Frames        | 49. Narrow Door Inner Face & Frame     |
| 13. Funnel Cap Grill           |                                    |                                 | 50. Watertight Door Narrow Width       |

Tips and Hints when working with Photo Etched Metal

- Do not remove the etched parts from the fret until you are ready to use them.
- 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. These can be applied with a pin or piece of stretched sprue.
- 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.
- 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.

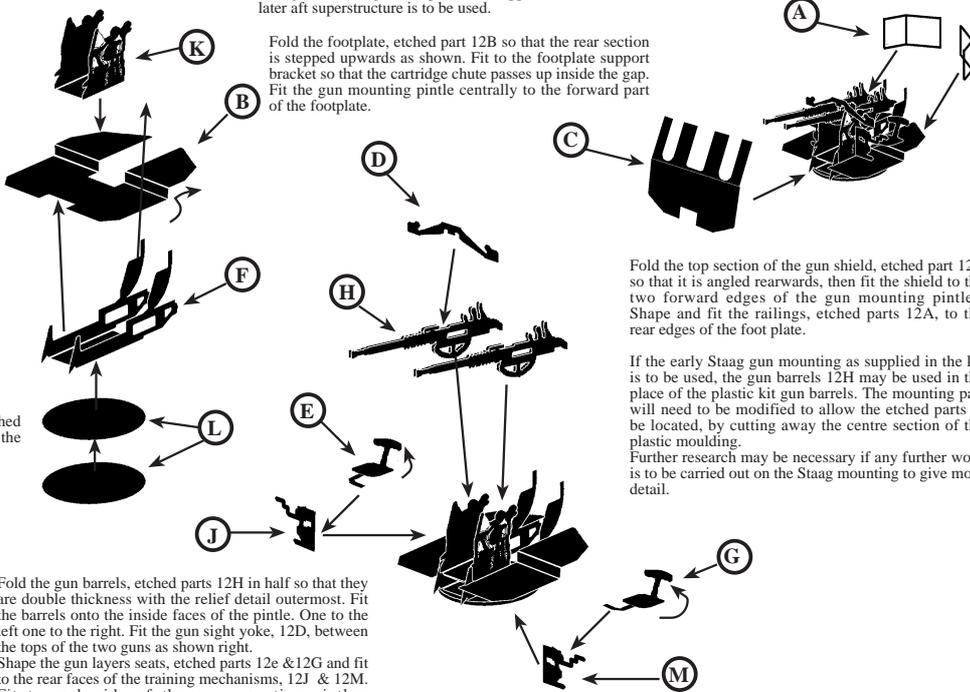
## Mk5 Twin 40mm Bofors Mounting Assembly



12

This gun mounting is to replace that supplied in the kit when the alternative later aft superstructure is to be used.

Fold the footplate, etched part 12B so that the rear section is stepped upwards as shown. Fit to the footplate support bracket so that the cartridge chute passes up inside the gap. Fit the gun mounting pintle centrally to the forward part of the footplate.



Laminate the two turntable discs, etched parts 12L together and fit centrally to the footplate support bracket.

Fold the gun barrels, etched parts 12H in half so that they are double thickness with the relief detail outermost. Fit the barrels onto the inside faces of the pintle. One to the left one to the right. Fit the gun sight yoke, 12D, between the tops of the two guns as shown right. Shape the gun layers seats, etched parts 12e & 12G and fit to the rear faces of the training mechanisms, 12J & 12M. Fit to each side of the gun mounting pintles.

Fold the top section of the gun shield, etched part 12C so that it is angled rearwards, then fit the shield to the two forward edges of the gun mounting pintles. Shape and fit the railings, etched parts 12A, to the rear edges of the foot plate.

If the early Staag gun mounting as supplied in the kit is to be used, the gun barrels 12H may be used in the place of the plastic kit gun barrels. The mounting part will need to be modified to allow the etched parts to be located, by cutting away the centre section of the plastic moulding. Further research may be necessary if any further work is to be carried out on the Staag mounting to give more detail.

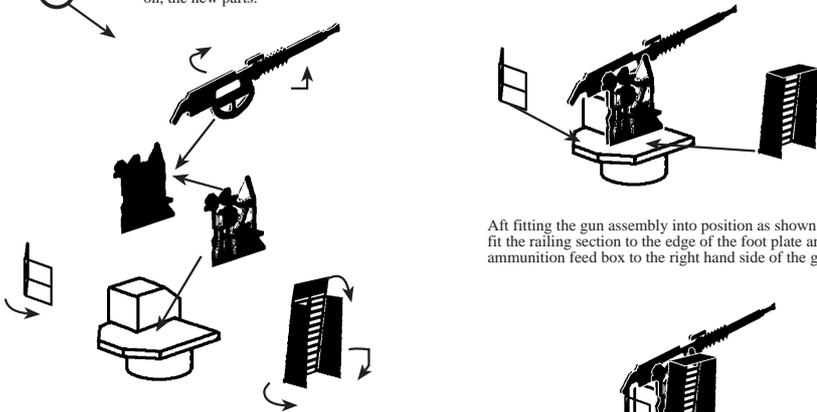


Fold up the sides of the gun pintle and the footplate support bracket, etched parts 12K and 12F, to 90° so that they are parallel.

## Single 40mm Bofors Assembly

24

Use the gun mountings supplied in the kit as parts 28, remove the moulded plastic gun and thin down the footplate and gun layers fairing, to make a good neat surface to build on, the new parts.

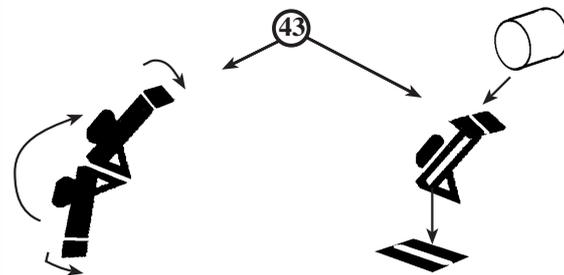


After fitting the gun assembly into position as shown above, fit the railing section to the edge of the foot plate and the ammunition feed box to the right hand side of the gun.

Fold the gun barrel parts in half so that they are double thickness, then fit between the two relief etched mountings. Fold the sides of the ammunition feed box rearwards so that they are parallel, then fold down the top plate. Shape the railings section to fit the edge of the foot plate directly behind the gun layers position.

## Depth Charge Thrower Assembly

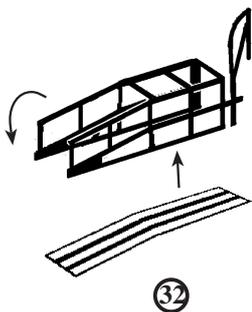
43



To assemble etched parts 43, fold the main body of the thrower gun in half, so that it is double thickness. Fold top plates outwards to 90° so that the depth charge can be located easily. Fit the base of the gun body to the footplate as shown above right. Make depth charges by cutting short lengths of 1mm (40thou) diameter plastic rod and fitting to the tops of the throwers.

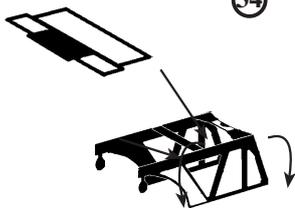
## Depth Charge Rail And Stern Gantry Assembly

33



Fold down the sides of the depth charge rail support frame, etched part 33, to 90° so that they are parallel, then fit the depth charge rail plate, etched part 32 inside the frame so that the edges attach to the angled centre bar on each side. Depth charges can be made from 2mm lengths of 1mm diameter plastic rod and fitted to the rails if desired.

34

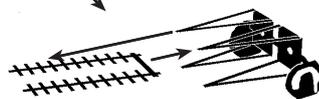


Fold down the sides of the TSDDS gantry, etched part 34, then fit the platform as shown below.

These parts have been provided for the modeller who wishes to build the ship in its original wartime fit. The TSDDS gantry was not fitted as a general item and the depth charge rails were fitted one centrally and the other offset to port. Further research is advised as to what was fitted at any given time frame.

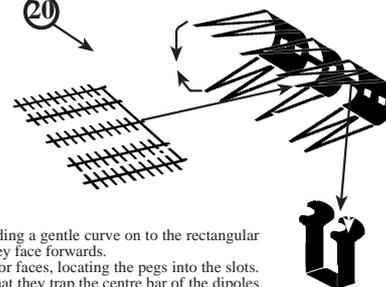
## 282 & 285 Radar Yagi Antennas

30



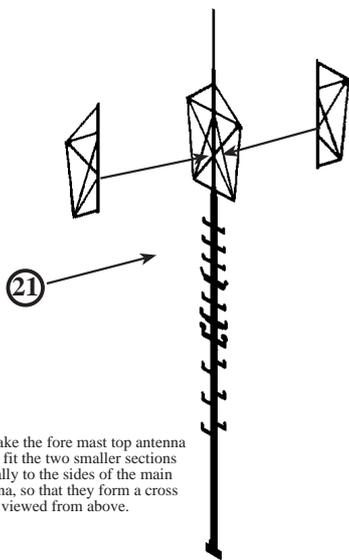
Assemble the 282 Yagi AA Armament Director antenna as shown above. Ensure the points of the stays are pinched together after the dipoles are fitted into place. Fold down the mounting plates each side into the position shown. These antennas are supplied for use if the model is being built as the ship appeared in its original wartime fit. Research will need to be done as to the location of the directors in which these were mounted.

20



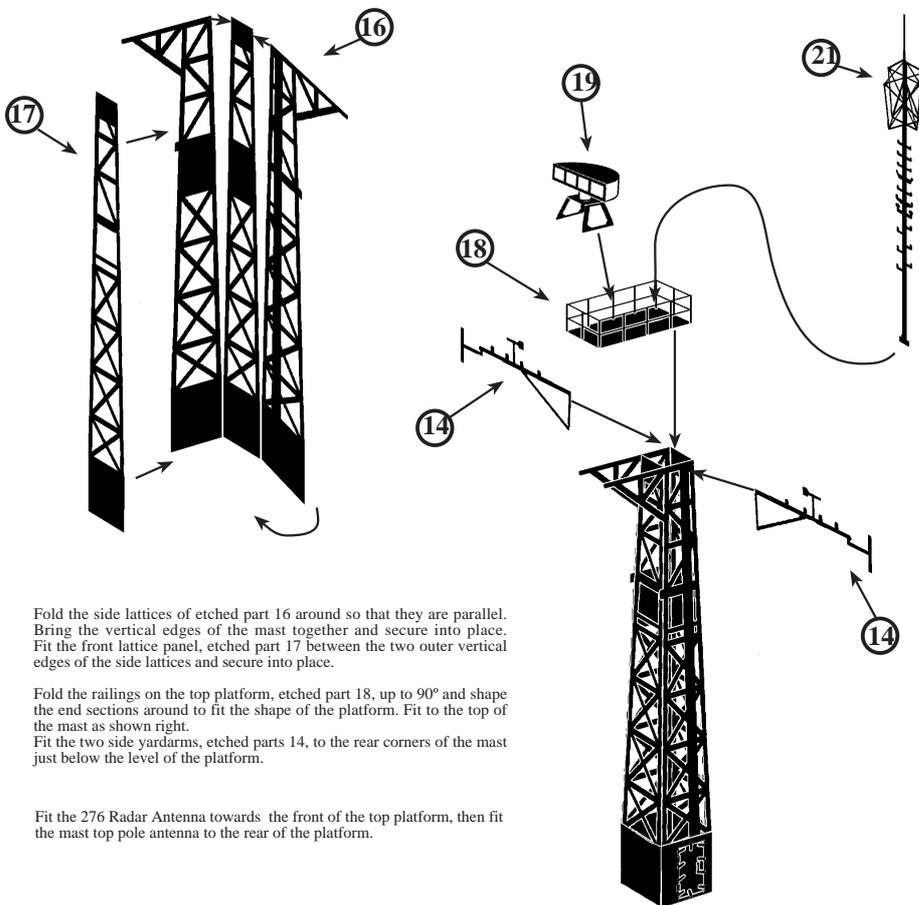
Assemble the 285 Fire Control antenna by folding a gentle curve on to the rectangular reflectors then folding over the stays so that they face forwards. Fit the set of dipoles centrally on to the reflector faces, locating the pegs into the slots. Nip the pointed ends of the stays together so that they 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 director control tower, kit part 34, in the place of kit part 35 if the model is being built in the ships wartime fit.

### Fore Mast Pole Antenna Assembly



To make the fore mast top antenna array, fit the two smaller sections centrally to the sides of the main antenna, so that they form a cross when viewed from above.

### Lattice Fore Mast Assembly

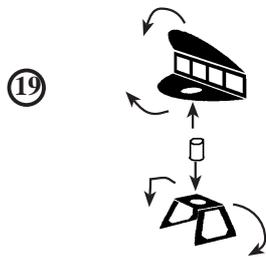


Fold the side lattices of etched part 16 around so that they are parallel. Bring the vertical edges of the mast together and secure into place. Fit the front lattice panel, etched part 17 between the two outer vertical edges of the side lattices and secure into place.

Fold the railings on the top platform, etched part 18, up to 90° and shape the end sections around to fit the shape of the platform. Fit to the top of the mast as shown right. Fit the two side yardarms, etched parts 14, to the rear corners of the mast just below the level of the platform.

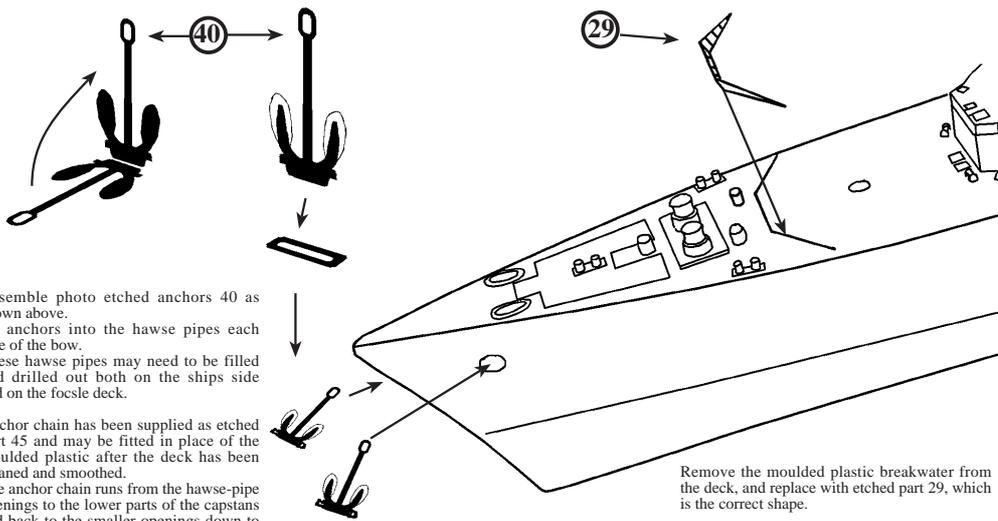
Fit the 276 Radar Antenna towards the front of the top platform, then fit the mast top pole antenna to the rear of the platform.

### 276 Radar Antenna Assembly



Shape the 276 radar antenna and its base as shown above then fit to the base with a short piece of plastic rod. The radar scanner may be filled in with a piece of plastic card of the appropriate thickness, and shaped around the curve of the top and bottom plates

### Anchor and Breakwater Locations

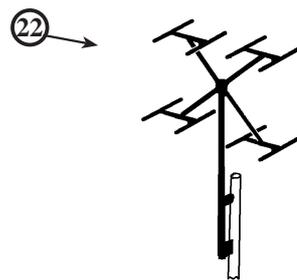


Assemble photo etched anchors 40 as shown above. Fit anchors into the hawse pipes each side of the bow. These hawse pipes may need to be filled and drilled out both on the ships side and on the foocle deck.

Anchor chain has been supplied as etched part 45 and may be fitted in place of the moulded plastic after the deck has been cleaned and smoothed. The anchor chain runs from the hawse-pipe openings to the lower parts of the capstans and back to the smaller openings down to the cable locker.

Remove the moulded plastic breakwater from the deck, and replace with etched part 29, which is the correct shape.

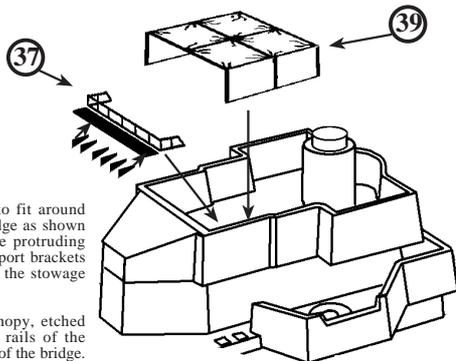
### 291 Radar Antenna



The 291 radar antenna is folded in to shape by bending the outer dipoles so that they face in the direction shown above. This antenna is fitted to the very top of the main mast pole and was part of the original ships wartime fit. These antennas were removed at a later date post war so it is advised that further research be done to establish at what time frame these antennas were actually fitted.

Short Yardarms have also been supplied as etched parts 15, for fitting to the short main masts kit parts 17 and 21.

### Bridge Windscreen and Canopy Fitting

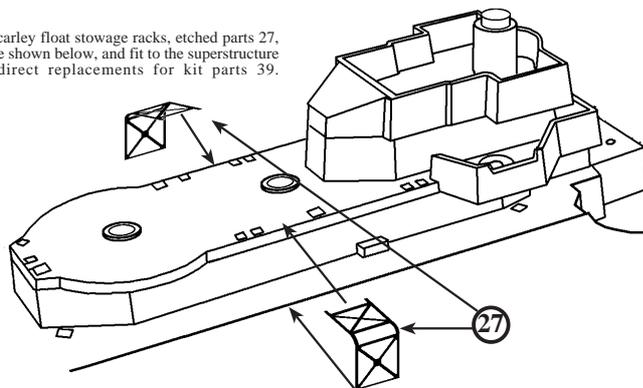


Shape the bridge windows to fit around the forward edges of the bridge as shown right, with the stowage plate protruding forwards. Fit the angled support brackets provided to the underside of the stowage plate.

Shape and fit the bridge canopy, etched part 39, so that the bottom rails of the side frames fit onto each side of the bridge.

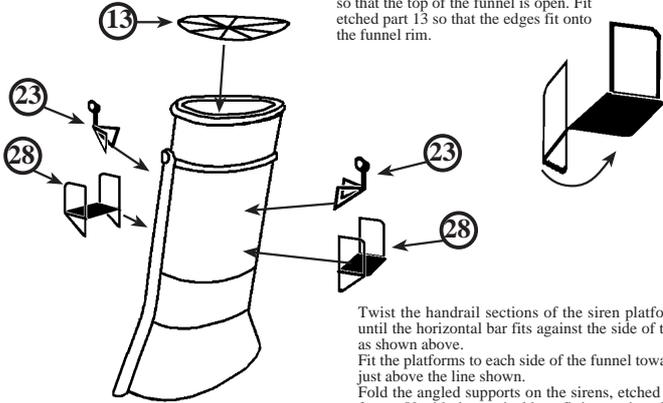
### Forward Carley Float Racks

Shape the carley float stowage racks, etched parts 27, to the shape shown below, and fit to the superstructure sides as direct replacements for kit parts 39.



### Funnel Fittings Assembly

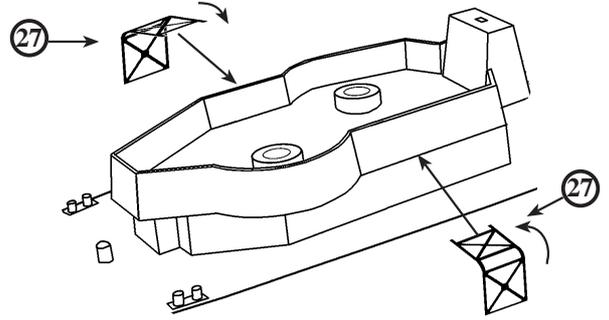
Remove the moulded plastic funnel cap so that the top of the funnel is open. Fit etched part 13 so that the edges fit onto the funnel rim.



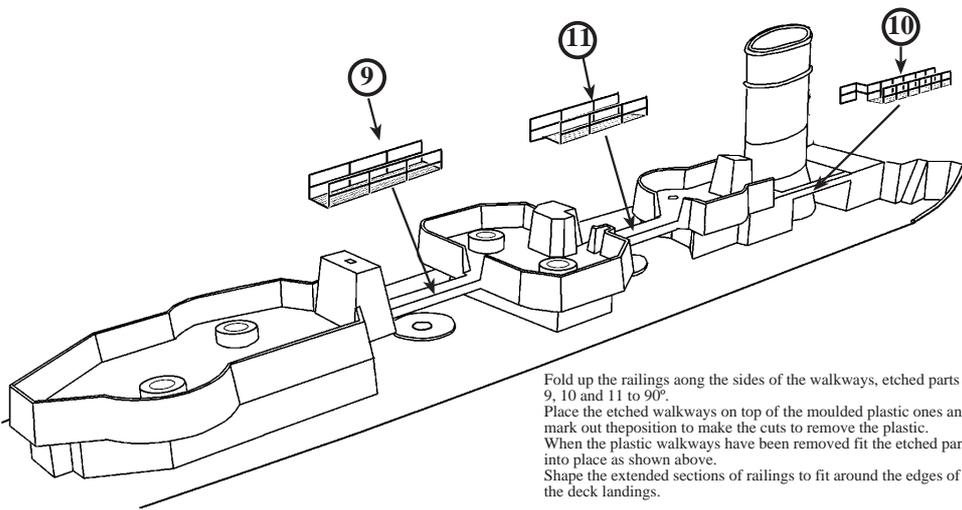
Twist the handrail sections of the siren platforms around until the horizontal bar fits against the side of the platform as shown above.  
Fit the platforms to each side of the funnel towards the rear just above the line shown.  
Fold the angled supports on the sirens, etched parts 23, to form a V with the vertical bars fitting against the funnel as shown left.

### Aft Superstructure Carley Float Racks

Shape the carley float storage racks, etched parts 27, to the shape shown below, and fit to the superstructure sides as direct replacements for kit parts 39.

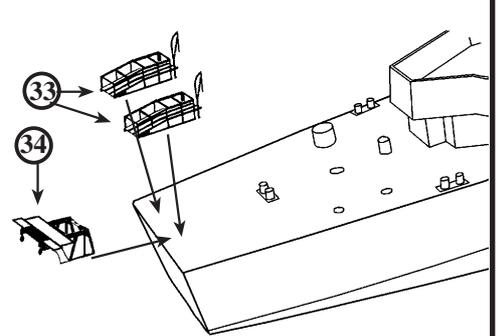


### Aft Superstructure Walkway Assembly



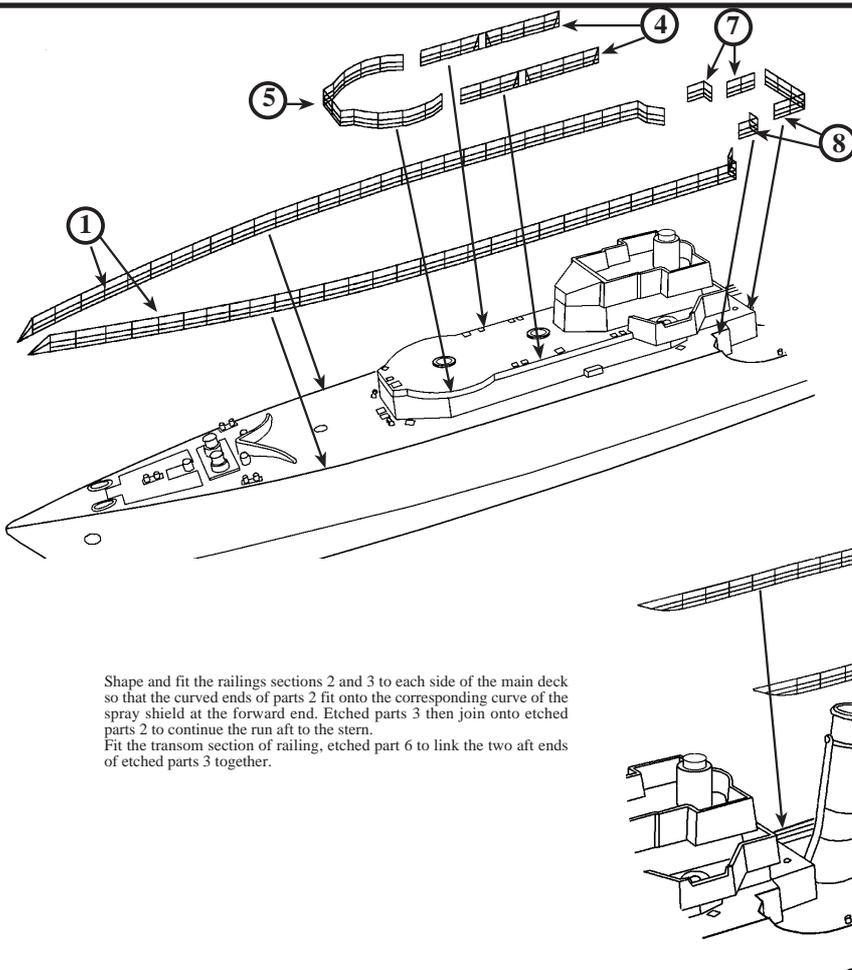
Fold up the railings along the sides of the walkways, etched parts 9, 10 and 11 to 90°.  
Place the etched walkways on top of the moulded plastic ones and mark out the position to make the cuts to remove the plastic.  
When the plastic walkways have been removed fit the etched parts into place as shown above.  
Shape the extended sections of railings to fit around the edges of the deck landings.

### Depth Charge Rail Location



If the Depth Charge rails are to be fitted to the stern positions, fit one set centrally and the other offset to port as shown above. If the TSDS gantry is fitted it would normally fit over the centre set of depth charge rails.  
If Depth Charge throwers are to be fitted, they would normally be fitted in pairs on the main deck each side of the aft superstructure. Further research as to the exact locations is recommended.

### Fore and Main Deck Railings Locations



Shape and fit the railings sections, etched parts 1, to each side of the foredeck as shown left. Note that the rearmost parts of the railing run is shaped to fit around the edges of the deck step, up to the inclined ladder access.  
Shape and fit railings, etched parts 7 and 8 to fit around the deck step at the base of the foremast. Note that there should be a gap on the starboard side of the mast housing where etched part 8 finishes short for the forward walkway to access.

Shape and fit the railings sections 4 and 5 to 'B' Gun deck edges. The rear most stanchion on etched parts 4 fits against the solid splinter shielding on the AA gun sponson.

Shape and fit the railings sections 2 and 3 to each side of the main deck so that the curved ends of parts 2 fit onto the corresponding curve of the spray shield at the forward end. Etched parts 3 then join onto etched parts 2 to continue the run aft to the stern.  
Fit the transom section of railing, etched part 6 to link the two aft ends of etched parts 3 together.

### Boat Davit Assembly

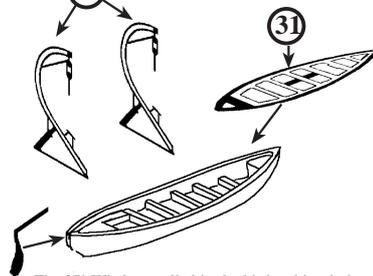
26



Fold the davits, etched parts 26 in half so that the relief etched detail is outermost. Fix the halves together with adhesive. Two sets of davits have been provided in this set for the boats on the port and starboard sides. These parts replace the kit parts 11 directly.

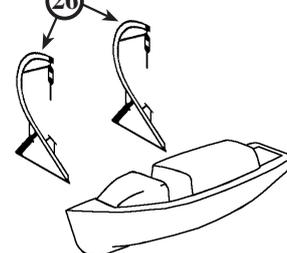
### Boats Assembly

26



The 27' Whale supplied in the kit is a bit misshapen and will need a bit of work to bring it to a reasonable state. Using the set of thwarts provided in etched parts 31, as a template, shape the boat's hull so that the thwarts fit onto the top exactly. Hollow out the inside of the boat, to give the impression of depth when the thwarts are fitted in place. Finally fit the rudder and oars as desired. Fit the boat to the davits supplied before fitting to the main deck of the ship.

26



It may be found to be easier if the davits are fitted in to position on the deck first. Then drill small holes in the boats in the positions so that the falls may pass through and ease the fitting of the boat to the davits. Once the boat is in position on the davits it can then be secured in place with a drop of superglue on each of the falls.

### Other Instructions

1. This detail set has been designed to give a bit of life to an ageing kit. In that respect there are only a basic collection of parts to allow the model to be given a facelift. If any further conversion work is required to achieve a later or major reworked version of this class of ship, then other sources will have to be investigated.
2. Inclined Ladders, etched parts 35, have been supplied for fitting to the deck step on each side of the funnel well, at the gap in the railings on the focsle. Stock lengths of vertical ladders, etched parts 46, have been supplied in two widths for fitting to masts, platforms and bulkheads as desired. Cut to the required length as necessary.
3. Anchor chain, etched parts 45, has been included in this set in sufficient lengths to allow for the ship to be modelled in a diorama at anchor. The anchor chain is passed through the hawse-pipes at the bow and secured to the surface at the desired angle.
4. Etched parts 36, are American style depth charge stowage racks for the K gun type throwers, that were fitted later in WW2. These have been supplied as an extra option as at some stage in the early days, some of these ships were fitted with them.
5. Paddles for the Carley rafts, etched part 41, are included in this set. They are fitted so that the ends of the paddles are on one side of the raft and the ends of the handles on the other side.
6. Etched parts 44 are the handling davits for the depth charge throwers, should they be fitted. These are normally fitted next to each thrower mounting.
7. A selection of watertight doors, etched parts 47, 48, 49 and 50 have been included to help enhance an otherwise bare sided superstructure. There are two widths of door, along with some inner faces and frames so that an open door can be modelled if desired.
5. If further research into this class of ship is necessary, then it is suggested that the publication *British Destroyers and Frigates* by Norman Friedman is a good source of information. Also the out of print Edgar March book, *British Destroyers* is an excellent reference if one can be obtained.