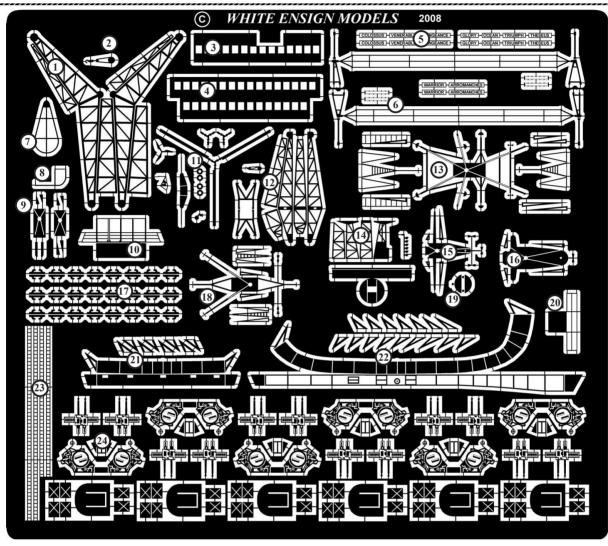






## HMS Colossus & FNS Arromanches

Photoetched metal detail set for the 1/400 scale Heller Kit



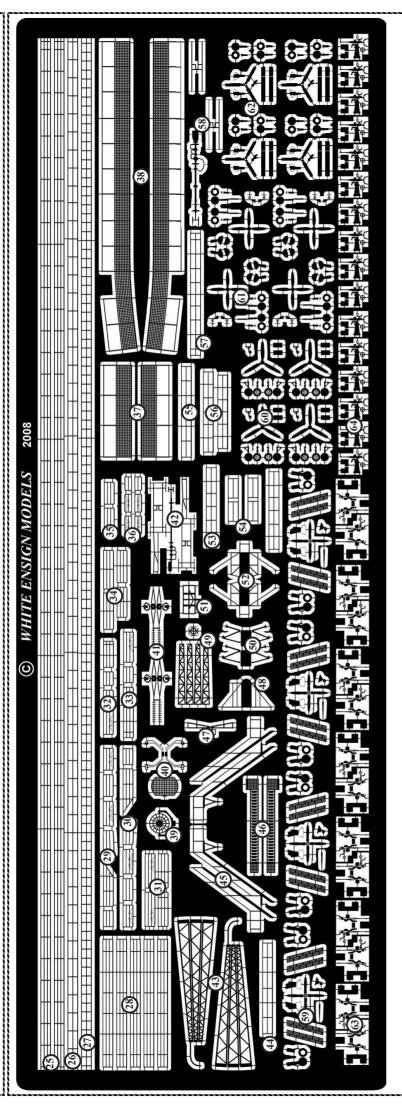
- Main Crane Jib
- Crane Hook
- Bridge Front (Colossus)
- Bridge Front (Modified)
- Ships' Name Plates
- Aircraft Crash Barriers
- Funnel Cap Grille
- Radar Antenna Waveguide
- 9. 281 Radar Mast Platforms
- 10. Additional Stern Platform
- 11. S51 Helicopter Parts
- 12. Jumbo Crane Fittings
- 13. Mast Top Platform 4 Assembly
- 14. Director Tub Mast Assembly
- 15. Mast Platform 2 Assembly
- 16. Mast Platform 1 Assembly
- 17. Open Fairleads/Chocks
- 18. Mast Platform 3 Assembly
- 19. Small Radar Antenna
- 20. Forward Antenna Mast Platform
- 21. Replacement Stern Catwalk Part 101
- 22. Full Width Stern Catwalk (Later Ships)
- 23. Vertical Ladder Stock
- 24. 4-Barrelled Pom-Pom Assembly

## General Instructions

- 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.
- Cyanoacrylate adhesive (super glue) or contact adhesive such as Elmers white 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. We suggest using a #11 type of modelling knife blade for this purpose.
- When shaping or bending a part, a straight edged blade such as a chisel blade #17 or # 18 will give a good sharp corner, or alternatively a small pair of smooth jawed pliers may be used.
- 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.
- We suggest that rails are pre-measured, where practical, using a pair of compass dividers & then tacked to the deck edge every third or fourth stanchion with a small drop of glue. When a section is complete, run a thin line of glue along the inside edge to attach it firmly to the deck.







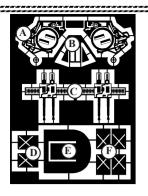
- Stock 3-Bar Railings Stock 2-Bar Railings
- 2-Bar Close Stanchion Railing
- Boat Deck Railings Quarterdeck Railings (Starboard)
  - Quarterdeck Railings (Port) Aft Weatherdeck Railings
- Mid Weatherdeck Railings (Starboard)
- Upper Weatherdeck Railings (Port & Starboard) Mid Weatherdeck Railings (Port)
- Triangle Opening Railings (Port & Starboard) 22225. 2022.
  - Forward Berthing Bay Railings Aft Flight Deck Safety Nets

- Forward Flight Deck Safety Nets 277 Radar Antenna (Early)
  - 277 Radar Antenna (Late)
- 282 AA Gunnery Radar Antenna 281 Radar Antenna 338.
  - Folding Wire Antenna Masts
- Side Catwalk Railings Parts 18
  - Accommodation Ladder Rails
- Accommodation Ladder Steps Bridge Front DF Antenna
  - Bow Towing Platform
- Starboard Forward Antenna Mast Forward Anchor Platforms

  - YE Radar Antenna

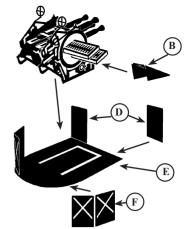
- Forward Berthing Platforms
  - Railing Mast Plafform 3
    - Railing Mast Platform 4 Railing Mast Platform 2
- Railing Radar Mast Platforms Railing Mast Platform 1
  - 271 Radar Antenna Assembly
    - Curtiss SB2C Helldiver Parts
      - Corsair IV Parts Barracuda Parts
- F6F Hellcat Parts
- Fwin 20mm Oerlikon Mounts 552. 554. 557. 558. 559. 660. 662.
- Single 20mm Oerlikon Mounts

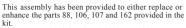
## 4 BARRELLED POM POM ASSEMBL



Fit assembled gun mounting to base part 24E.
Fit spent case shute 24B to the

front of the mounting after folding down the support sides. Fit the splinter shields, parts 24D and 24F in to place as shown right



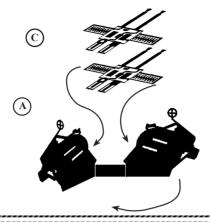


kit.

It is recommended that the plastic bases of kit parts 88 and 162 be used as foundation parts for the etched base part 24E after first removing the moulded splinter shields.

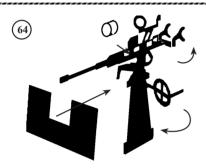
To assemble fold the sides of etched part 24A round so that they are parallel and at the same time pass the ammo trays on the gun clusters 24C, through the slots from the inside as shown right.

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.



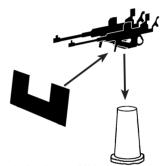
## 20mm SINGLE & TWIN OERLIKON ASSEMBLY

63)



Ships of the Colossus class were fitted with Ships of the Colossus class were fitted with a variety of light AA weapons during their early years of service according to availability. Single or twin Oerlikon mounts were fitted to some of the sponsons in lieu of the 40mm Bofors which are represented by kit parts 95 and 117.

Further research must be done to establish which ships of the class were fitted with what weapons & their locations.

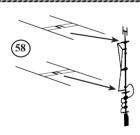


To assemble the twin mount, fold the guns up to 90° on each side of the centre

To assembly can now be mounted onto a scratch built pintle made from a 3mm length of 30-thou diameter (.75mm) plastic rod or even stretched sprue.

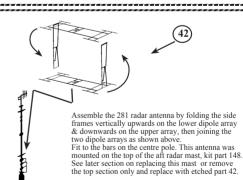
To assemble the 20mm mount, twist the base of the shoulder braces to 90° then fold the shoulder braces rearwards 90° so that they appear as shown. Fold the hand wheel around so that it fits onto the pintle. Fit the gun shield so that the attachment bracket locates into the etched slot on the shield. An ammunition magazine may be cut from plastic rod & fitted as shown.

## 279 & 281 RADAR ANTENNA ASSEMBLY

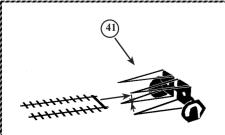


Assemble the 297B antenna as shown left by passing the centre pole into the slots in each of the dipole centre spans. This antenna was mounted to the top of the forward top pole of the main mast, replace kit part 171 with this item.





### 282 AA GUNNERY ANTENNA



Assemble the 282 Yagi AA Armament Director Antenna as shown above.

above.

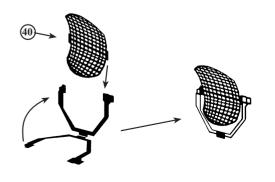
Ensure the 'V' shaped points are pinched together after the dipoles are fitted into place. Fold down the mounting plates each side into the position shown.

These parts fit into the tubs on the top of the bridge and aft of the funnel on a small lattice mast.

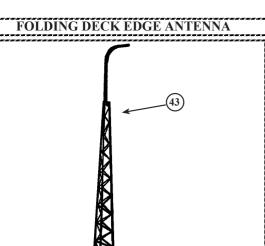
## 277 RADAR ANTENNA ASSEMBLIES



This radar antenna assembly is a direct replacement for kit part 174, though the base of the kit part may be used as a means of mounting the etched part.

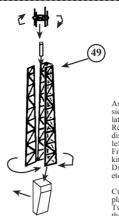


This assembly is of a later variant of the 277 radar, & is again used as a direct replacement for the kit part 174. Further research will be required to establish which ships of the class had this version of the antenna fitted.



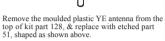
Fold the sides of etched parts 43 around to form a triangular section lattice mast as shown above. Secure the edges with super glue & use these assemblies to replace kit parts 136. The curved upper part points outboard when fitted vertically. These parts may also be fitted horizontally by cutting away the plastic base part from the edge of the flight deck & fitting the antenna directly to the side of the

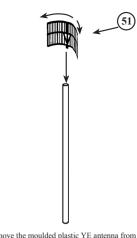
## FORWARD ANTENNA MAST



Assemble etched part 49 by folding the sides around to form a square sectioned lattice mast. Secure the edges into place. Remove upper part of kit part 135 & discard. Shape the lower part as shown left & fit the etched part into place. Fit to the side of the hull as shown in the kit instructions section 20. Discard kit part 99 & replace with etched part 20 as shown left.

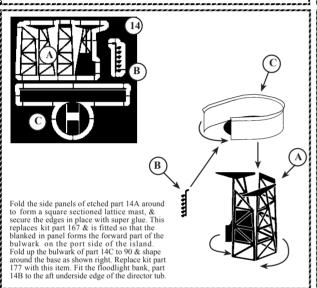
Cut a 3mm length of .5mm diameter plastic rod & fit to the top of the mast. Twist the dipoles on the antenna loop so that they are vertical then fit to the top of the rod.



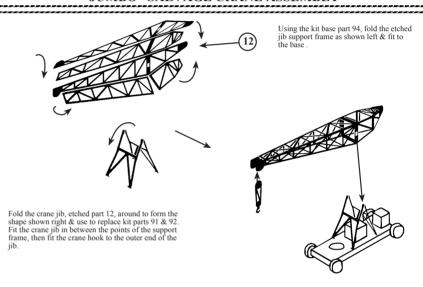


YE RADAR ANTENNA

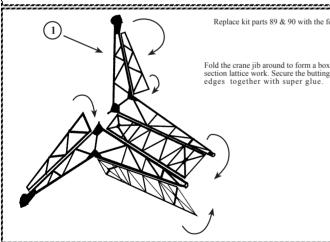
## 282 RADAR ANTENNA TUB ASSEMBLY

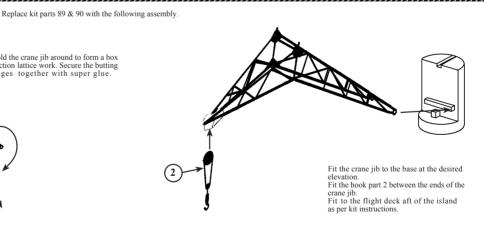


## "JUMBO" SALVAGE CRANE ASSEMBLY









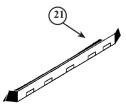
ROUNDOWN CATWALK ASSEMBLY

## FUNNEL CAP GRILLE

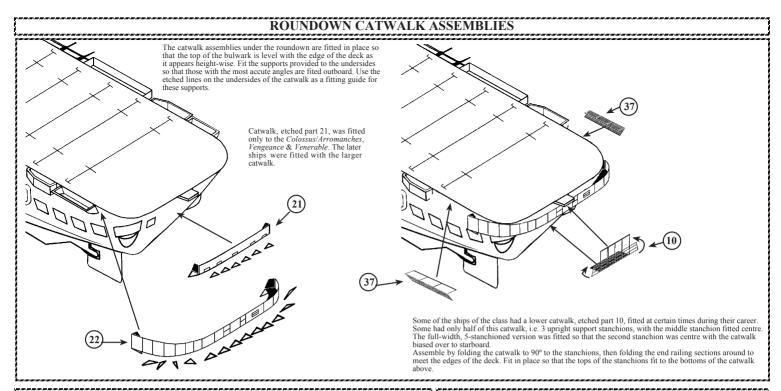
## Some of the ships of the class were fit full-width catwalk under the roundout part 22 provides this alternative, if any ships of the class are to be modelled, if further research will be necessary to e which ships had these fitted.

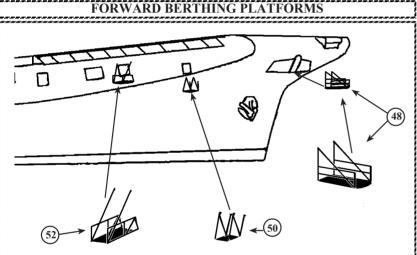
Assemble the funnel according to the kit instructions, then clean out the moulded grille from kit part 7. Smooth the remaining area and fit the funnel cap grille etched part 7.

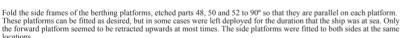
# Some of the ships of the class were fitted with a full-width catwalk under the roundown. Etched part 22 provides this alternative, if any other ships of the class are to be modelled, though further research will be necessary to establish which ships had these fitted. To assemble, fold up the bulwark to 90° so that the relief-etching is outermost, then gently curve around to the shape of the catwalk deck plate. Bend the ends inwards along the fold line.



Etched part 21 is supplied to replace kit part 101 directly. This part is assembled in the same manner as previously described for the full width catwalk. Only the first 3 ships of the class were fitted with this smaller catwalk on the stern.





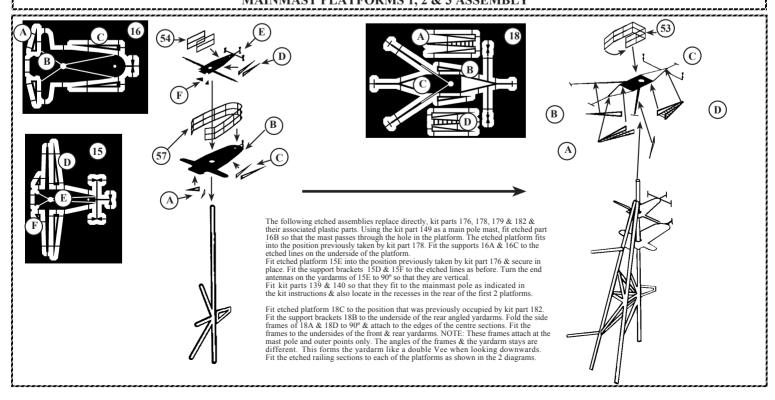


# RADAR ANTENNA MAST ASSEMBLY 8

The 2 platforms, etched parts 9, that have been provided are to replace the moulded plastic platforms on kit part 148. Remove all the detail from kit part 148 so that all that is left is a straight pole. The platforms can now be assembled as shown left with the smaller platform as the lower. Fit the adjacent support brackets to the under side of the platforms using the etched lines as fitting guides.

The 281 radar antenna assembly etched parts 42 may be fitted to the top platform.

## MAINMAST PLATFORMS 1, 2 & 3 ASSEMBLY



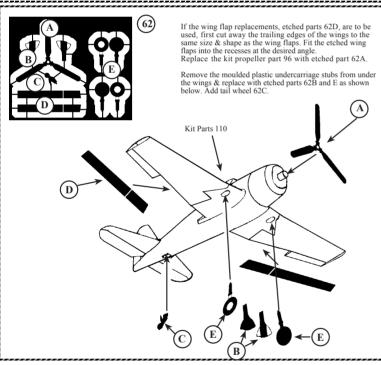
## MAIN MAST PLATFORM 4 ASSEMBLY 13) RAILINGS AND SMALL FITTINGS LOCATION This diagram shows the locations of the tailored-to-fit railings & also some of the smaller sub-assemblies fitted to the sides of the hull. Care must be taken when fitting the railings anoud the stern openings, as they are shaped to take up the majes of the hull sides as they curve around the stern quanters. <del>(4</del>) Fit the etched platform assembly 13 in the place of kit part 179. This platform fit to the very top of the mast pole. Fold & fit the section of railings 55 to the centre of the platform. Fold the side frames of etched parts 13B & 13E up to 90° then fix the edges to the centre frames. Fit the uprights of parts B & E to the corner stanchions of the railings. Fit parts 13A to the under side of the rear yardarms. Fit support brackets D to the undersides of the forward yardarms. Fit the small supports F to the small angled side yardarms. $(\frac{2}{4})$ Basic rigging of the wire antennas between the two folding antenna masts is shown below. 293 RADAR ANTENNA ASSEMBLY (\(\frac{\kappa}{2}\) Fold the two 293 antenna parts over so that the top & bottom plates are parallel. These items now replace kit parts 157 & can either be fitted to the existing mounts kit parts 155 or new ones can be made as shown below. The taller of the mountings fitting on platform 1 of the mainmast. ₫,

## FAIREY BARRACUDA ASSEMBLY Before assembling the undercarriages, first fold in half to double the thickness making sure the relief-etch is outermost Turn the antenna parts of 61A to 90° so that they are horizontal before fitting into position on top of the outer wings

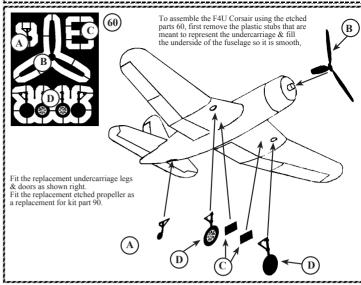
Shape the main undercarriage legs & fit in place as shown above. The moulded plastic landing gear will first need to be cut down so that only the angular stubs are left. Fit the undercarriage doors to the insides of the main legs & the outer wing panels as shown above.

Cut the spinner from the kit propeller & use to fit onto the replacement etched part.

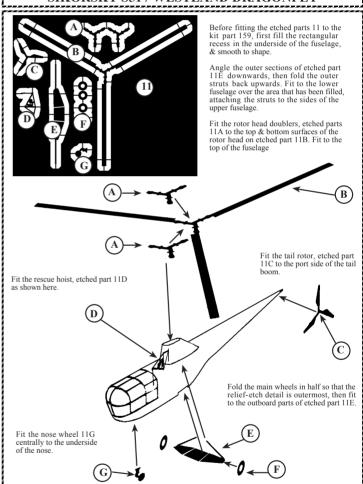
## GRUMMAN F6F HELLCAT ASSEMBLY



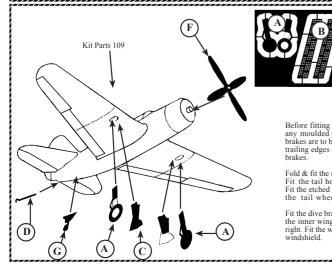
## VOUGHT F4U CORSAIR ASSEMBLY



## SIKORSKY S51 / WESTLAND DRAGONFLY



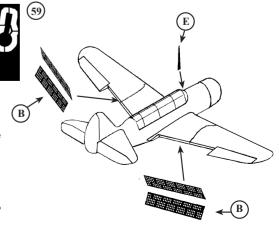
## CURTISS SB2C HELLDIVER PARTS ASSEMBLY



Before fitting any etched parts to the kit parts 109, remove any moulded plastic undercarriage detail, & if the dive brakes are to be displayed in the open position, cut away the trailing edges of the wings to the size & shape of the dive brakes.

Fold & fit the undercarriage parts 59A & C as shown left. Fit the tail hook 59D to the lower part of the rudder. Fit the etched propeller as a replacement for kit part 98. Fit the tail wheel 59G centrally to the rear fuselage.

Fit the dive brakes, etched parts 59B, in the open position to the inner wing sections that have been cut away as shown right. Fit the wire antenna mast 59E offset to the left of the windshield.



# If accommodation ladders are to be fitted to the amidships or aft

Parts 46 are a port and starboard pair with the top landing extending inboard to the main deck when fitted.

ACCOMMODATION LADDER

# To fit the aircraft crash barriers, first fit the riser plates to the deck on each side as shown. A good guide to the exact position is indicated by a curved molded track on the inside of the island. These tracks are guides for the inner riser. Assemble the barriers simply by folding the barrier risers at the points to form a triangle. Fit the two front feet at the front of the riser plate & the rear foot in the riser plate itself.

FLIGHT DECK CRASH BARRIER ASSEMBLY

## OTHER INSTRUCTIONS

- 1. Sufficient stock railings of both the 2- & 3-bar varieties has been supplied to finish of any runs of railing or platforms that have not be covered by the tailored-fit sections. These are items 25, 26 & 27 on the larger fret.
- 2. Two panels have been provided, etched parts 3 and 4, to wrap around the front of the bridge superstructure to overlay or replace the bridge fronts. Item 3 is for the *Colossus* or early ships of the class. Item 4 is for the *Arromanches* or later ships of the class that had the top deck area closed in.
- 3. Name plates have been included, etched parts 5, for every ship of the class in case ships other than the kitted ones are being modeled. These are located on the sides of the island below the lower bridge platform.
- 4. Etched parts 17 are fairleads that are folded in half to give extra thickness. These can be used to thicken up the fairleads etched in to the railing sections, or to provide for any additional items needed.
- 5. Item 23 is stock vertical ladder which is used in short sections as access ladders to the flight deck catwalks & gun sponsons, or in longer lengths on masts.
- 6. An excellent reference for ships of this class is in the Fan publication *The Colossus Class Aircraft Carriers* 1944 1972 by Neil McCart. Also by Neil McCart is the sister Fan publication *HMS Glory* 1944 1961.