



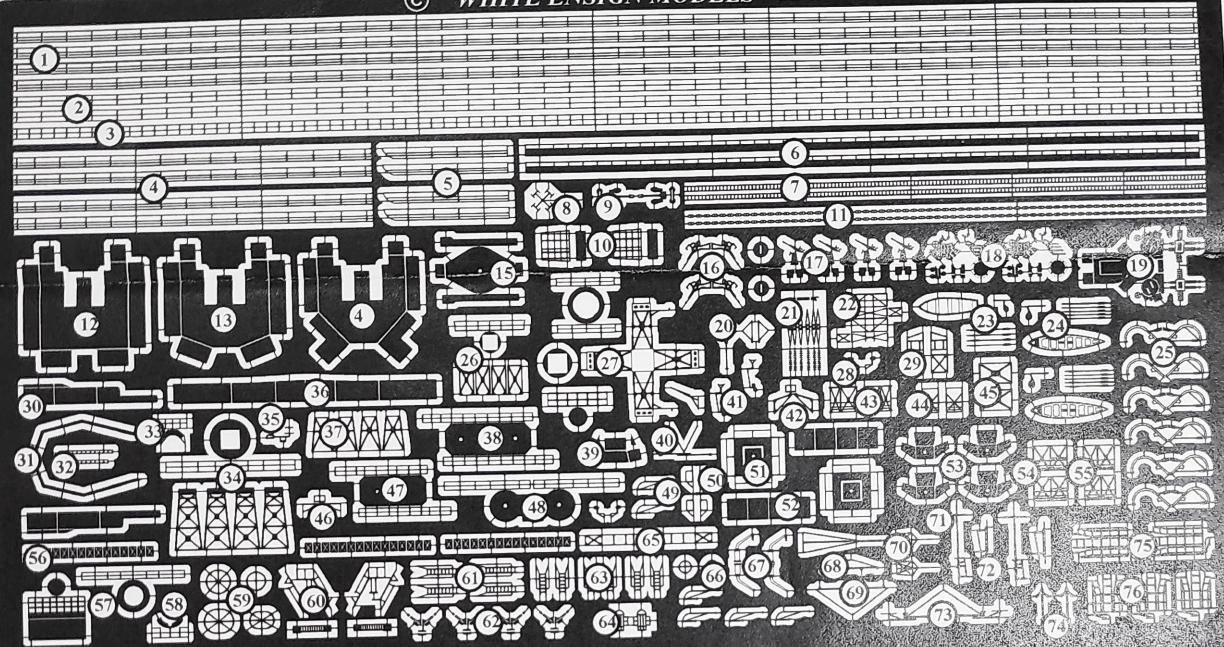
WHITE ENSIGN MODELS

British V and W Class Destroyers

PE791

Photo Etched details to fit the Tamiya HMS Vampire Kit in 1/700 Scale

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PARTS LIST

1. Standard 3-Bar Railings	26. Searchlight Platform Mast 1	52. Machine Gun Platform Pillar
2. 2-Bar Platform Railings	27. Aft Radar Lantern Mast 1	53. 4" Single Gun Shields
3. Close Stanchion Railings	28. Funnel Sirens	54. Bridge Wing Supports Type 3
4. Fo'c'sle Railings	29. Aft Carley Raft Racks	55. Bridge Wing Supports Type 4
5. Shaped Hull Step Railings	30. 4" Gun Spray Shield 1(WAIR)	56. Splinter Matting
6. Gun Platform Railings	31. Spray Shield Former (WAIR)	57. 277 Radar Lantern Assembly
7. Vertical Ladder Stock	32. Bridge Windscreens Frames	58. Funnel Siren Platform 2
8. 290/291 Radar Antenna	33. Funnel Platform 1	59. Funnel Cap Grilles
9. Anchors	34. Aft Radar Lantern Mast 2	60. Accommodation Ladder Assemblies
10. Depth Charge Rails (Short)	35. ECM Antenna	61. Bridge Wing Ladders
11. Anchor Chain	36. 4" Gun Spray Shield 2 (WAIR)	62. Depth Charge Throwers
12. Bridge Wing Assembly 1	37. Searchlight Platform Mast 2	63. Inclined Ladders (Standard)
13. Bridge Wing Assembly 2	38. Midships AA Gun Platforms 1	64. Rocket Flare Launchers
14. Bridge Wing Assembly 3	39. Bridge Forward Extension	65. Midships Carley Raft Rack
15. Aft Pom-Pom Platform (Wallace)	40. Jack Staff	66. Searchlight Lens Crosses
16. Single 2-Pdr Gun Mountings	41. Foremast Antenna & Light Array	67. Torpedo Davits.
17. 20mm Oerlikon Mountings	42. Bridge Front DF Antenna 1	68. Foremast Top Yardarm
18. .5" Quad Machine Gun Mountings	43. Bridge Wing Supports Type 1	69. Foremast Lower Yardarm
19. 4 Barreled Pom-Pom	44. Bridge Wing Supports Type 2	70. Aft HF/DF Antenna Assembly
20. Diamond Antenna	45. Midships Gun Platform Supports	71. Foremast Top ECM Antenna
21. 285 Gunnery Radar Antenna	46. Bridge Front DF Antenna 2	72. Foremast Headache Antenna
22. 286 Radar Antenna Assembly	47. Midships AA Gun Platform 2	73. Foremast Lower Yardarm with Antennas
23. Open Boat Thwarts	48. Midships AA Gun Platform 3	74. Bridge Semaphores
24. 27' Whaler Thwarts and Oars	49. Depth Charge Handling Davits	75. Depth Charge Rails (Long)
25. Boat Davits	50. Funnel Siren Platform Rails	76. Depth Charge Rails (Medium)
	51. .5" Quad Machine Gun Platforms (WAIR)	

General Instructions for 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.
- 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. It is suggested that a #11 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 #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.
- It is suggested that rails are pre-measured, where practical, using a pair of compass dividers and 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.

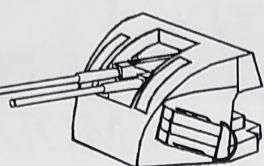
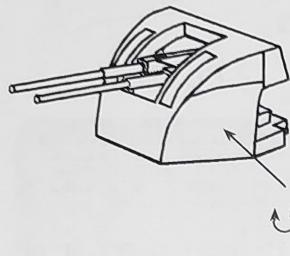
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8532 Lamar Drive, Huntington Beach, CA 92647 USA

E-mail: whiteensignmodels@aol.com Website: <https://www.whiteensignmodels.com/>

4" HA/LA TWIN GUN MOUNTING X

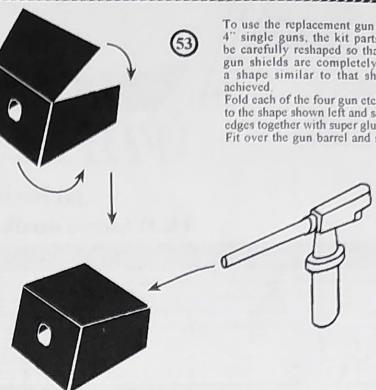
This 4" Twin turret configuration was fitted to the WAIR-converted ships only. Further research will be required as to which ships were converted and to what extent the conversion ran.
4" Turrets are available separately from White Ensign Models as WEM Pro 7001.



Fold the sides and the end frame of the rocket flare launchers, etched parts 32, to 90°. Fit the launchers to each side of the turret, positioning them as shown above.

SINGLE 4" GUN MOUNTING *

To use the replacement gun shields on the 4" single guns, the kit parts B1 must first be carefully reshaped so that the moulded gun shields are completely removed and a shape similar to that shown below is achieved. Fold each of the four gun etched gun shields to the shape shown left and secure the mated edges together with super glue. Fit over the gun barrel and secure in place.



0.5" QUAD MACHINE GUN X

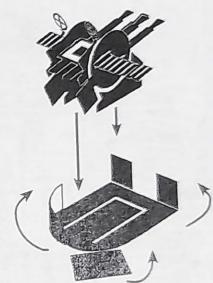


(18)

Assemble the 0.5" quad mounting by folding the side panels of the centre section so that they are parallel. Fix down to circular base. Fit the offset magazine part, so that they match the slot on the centre section. Fit the slot on the barrels section so that it slides over the slot on the centre section, with the barrels facing forewards as shown left. Make two of these to fit to either the single gun platforms, or the double gun platforms of the WAIR converted ships.

PHOTO ETCHED 4 BARREL POM-POM ASSEMBLY X

(19)



A 4-barrel pom-pom has been provided as part of the photoetched detail set, and may be assembled as shown above and used if HMS Wallace is being modelled.

20mm OERLIKON X

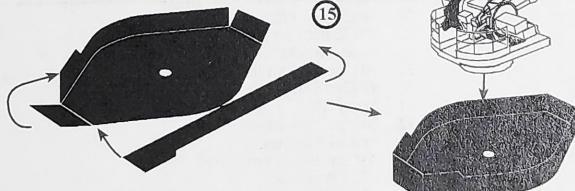
(17)



Assemble the 20mm mountings as shown above. These mountings were fitted at a later date to both WAIR and LRE converted ships. Further research will be required to establish which ships had them fitted.

AFT POM-POM PLATFORM (HMS WALLACE) X

(15)



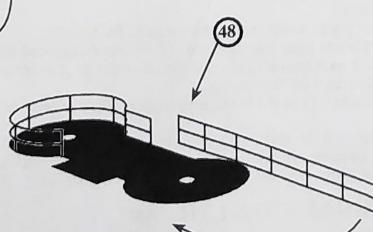
This entire modification was only fitted to HMS Wallace and was located on the quarterdeck to the rear of the aft superstructure.

MIDSHIPS DOUBLE GUN PLATFORMS X



(38) or (47)

Three different types of double gun platforms have been supplied in the set. The rectangular platform 38, is the larger of the two and spans the width of the ship. This platform also uses support frames etched parts 45 at the outboard edges.

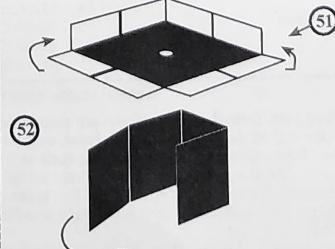


(48)

The smaller rectangular platform is of the type that was located forward of the searchlight tower on HMS Winchester for example. A rectangular deck house would be used as the support for this type of platform.

The circular type of platform would have been used further forward and would have been used in conjunction with the larger circular 4" single HA gun mounting platform positioned centrally.

SINGLE GUN PLATFORMS X

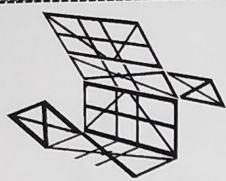


(52)



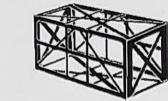
These single platforms were used on HMS Wallace to mount the quad .5" Vickers machine guns. One platform was positioned port side just forward of the aft superstructure. The other platform was on the starboard side just aft of the aft funnel. Make both platforms by folding etched parts 52 around themselves to make boxes, and fit them to the undersides of the platforms. Fold the railings on the platforms up to 90° and secure the corners.

286 RADAR ANTENNA ASSEMBLY



Fold etched part 22 around to form a closed box lattice type of structure as shown above and right.
Secure mating edges together with super glue.

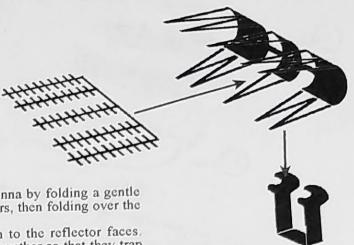
This radar antenna was fitted to the foretopmast on some ships. Further research will be required as to which ships had this radar fitted and at which times.



(22)



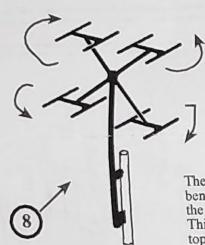
285 YAGI ANTENNA



(21)

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.
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 fit on to the top of the main gun rangefinder on the bridge, or on top of a HACS director depending on what was fitted to a particular ship.

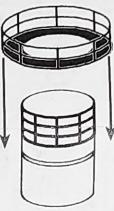
291 RADAR ANTENNA



(8)

The 291 radar antenna is folded into 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 topmast pole.
Further research will be required to establish which ships of the class had this radar fitted.

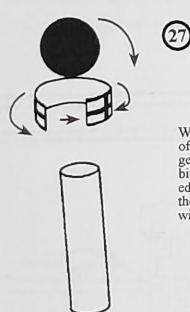
277 RADAR LANTERN ASSEMBLY



(57)

277 Radar antenna lanterns and masts have been provided for those modellers who wish to use them on a particular ship that is being modelled.
Roll the lantern part of etched parts 57 around the shank of a drill bit until the outer edges meet forming a cylinder. Secure the edges into place, then fold the circular top plate down to close off the top of the lantern. At this point, either the circular platform may be fitted to the etched line around the lantern body, or the lantern body may be cut down to the same line, depending on where the radar is to be fitted. The completed assembly would be as that fitted to the rear of the bridge in place of the rangefinder or HACS director.

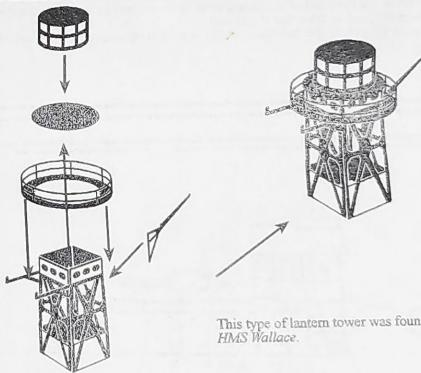
SHAPING RADAR LANTERN



(27)

When assembling the lantern part of etched parts 27, roll the part gently around the shank of a drill bit as shown left, until the outer edges meet. Secure them in place, then close off the top of the lantern with the circular plate.

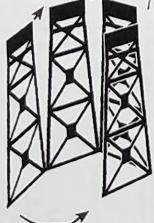
277 RADAR MAST TYPE 1 ASSEMBLY



This type of lantern tower was found on HMS Wallace.

277 RADAR MAST TYPE 2 ASSEMBLY

(34)



This type of 277 radar antenna tower is fitted on to the top of the searchlight platform found in the kit, and is of the type found to be fitted to HMS Whitehead in 1944.

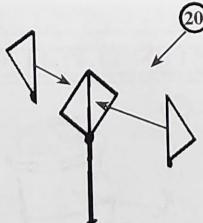
Use the cut-down lantern etched part 57 to fit on top of the mast.



Fold the four lattice panels around, each to 90° then secure the edges together with superglue.

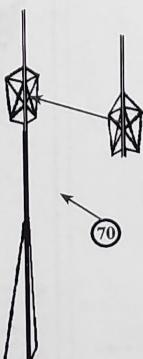
Fit the platform over the top of the mast so that the solid panels protrude above the platform.

DF ANTENNA ASSEMBLIES



(20)

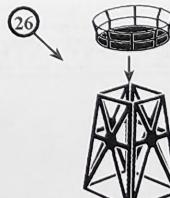
Assemble the small diamond style of HF/DF antenna as shown left. This antenna was fitted to several ships in some variety of places, HMS Vidette and HMS Whitehall being two.



(70)

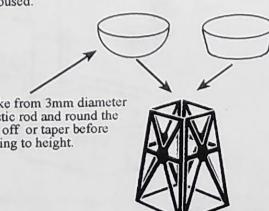
The tall HF/DF antenna mast was fitted to several of the ships. It is assembled as shown right and was fixed to the fore end of the aft superstructure deck of HMS Verity, Watchman and Broke to name but a few.

SEARCHLIGHT PLATFORMS



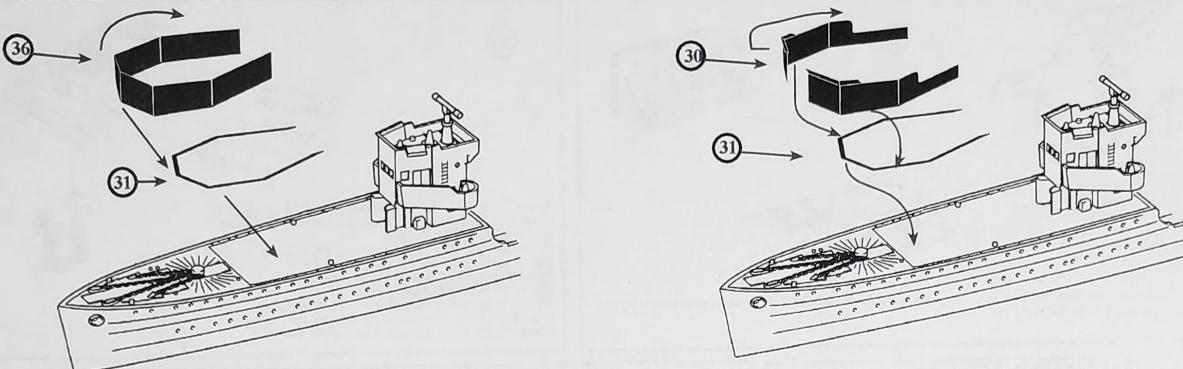
(26)

The searchlight tower provided in the kit is of a type used on a few of the ships, but most of them had a lattice type of tower as provided in etched part 26. Onto this tower can be fitted a variety of platforms in which the searchlight was housed.



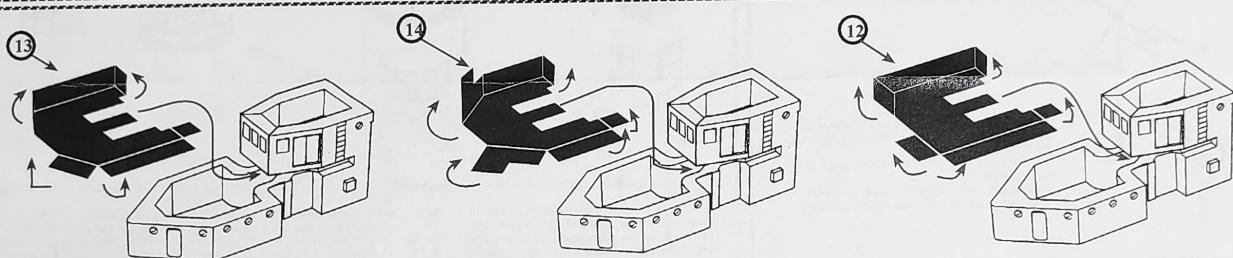
Make from 3mm diameter plastic rod and round the end off or taper before cutting to height.

WAIR CONVERSION FORWARD GUN SPRAY SHIELDS



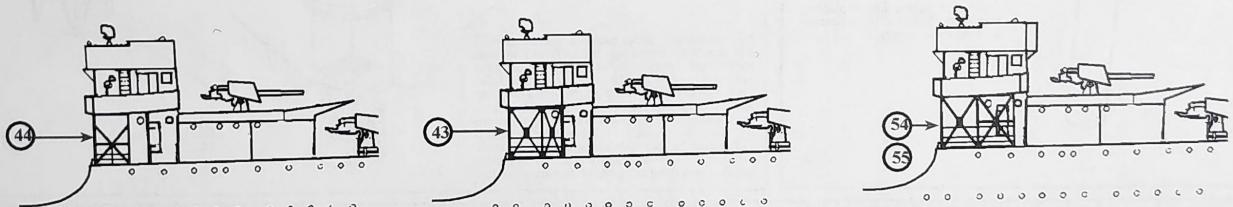
The parts provided here are for two different types of spray shield for the forward 4" twin gun mounting. They are of the same plan view on the deck and use the common etched part 31 but the actual shield shapes are different. The spray shields and gun mounts are fitted after the removal of the forward superstructure from below the single 'B' gun mounting. Further research will be required to establish which of the WAIR-converted ships had what type of spray shield pattern.

BRIDGE WING VARIANTS



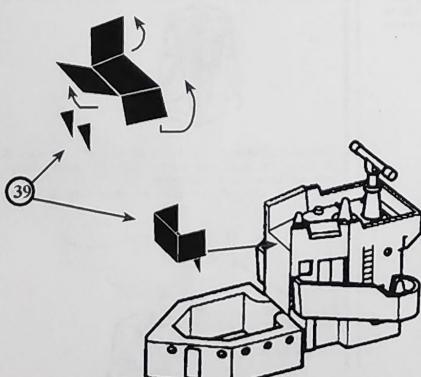
There were several sizes and shapes of bridge wings on the V&W class of ships, according to what version the ship was or what weapons were fitted to the bridge wings, though just about all of them that had guns fitted there had 20mm Oerlikons.
Fold up the bulwarks of the etched parts as shown and fit as direct replacements for the kit part B3. The bulwarks may be partially removed on some of the ships and replaced with open railings. Sufficient railing stock has been supplied to cover this if required.
Most ships had the bulwarks of the bridge wings covered with splinter mats at some stages of their duties. Stock splinter mats, etched parts 56 have been supplied to be cut to length and fitted as required.

BRIDGE WING SUPPORT VARIANTS



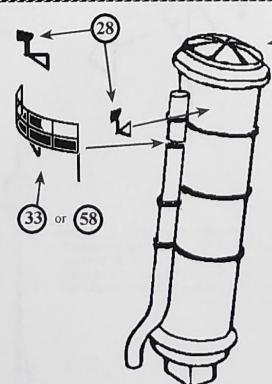
A variety of lattice type supports has been provided for the bridge wings, and can be fitted as required for just about any ship of the class being modeled. These are also applicable for the WAIR and LRE conversions.

BRIDGE FRONT EXTENSION



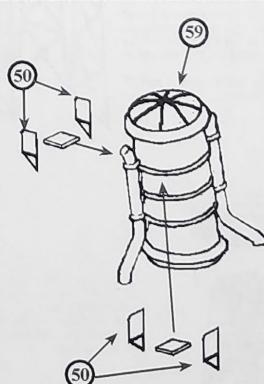
Some ships of the class had a simple bridge extension fitted, and this has been provided for in this set by etched parts 39.
HMS Winchester is an example of a ship with this type of bridge extension fitted.
Etched parts 32 are window frames that can be used to fit across the front and around the front sides of the bridge as windshields.

FORE FUNNEL PLATFORM



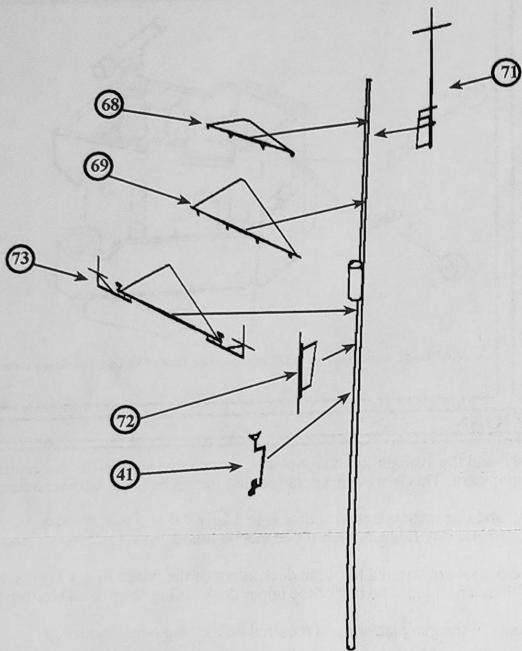
The fore funnel supplied in the kit is unusual in that it is a flat-sided funnel turned sideways. On most funnels the flats would be sides and not front and rear. Normally a funnel platform would be fitted as provided by etched parts 33 or 58, depending on whether it is a round or flat-sided funnel to which it is fitted. Fit the platform as shown and finish by fitting the siren horns as shown above.

AFT FUNNEL PLATFORMS



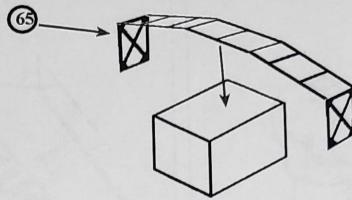
An alternative position for the siren horns was on the aft funnel of some ships, in which case there were two single platforms on the rear quarters of the funnel. Use etched parts 50 to make the platforms side railings as shown above.
Further research will be required to establish what type of funnel platform is used on the ship being modeled.

FOREMAST ASSEMBLY

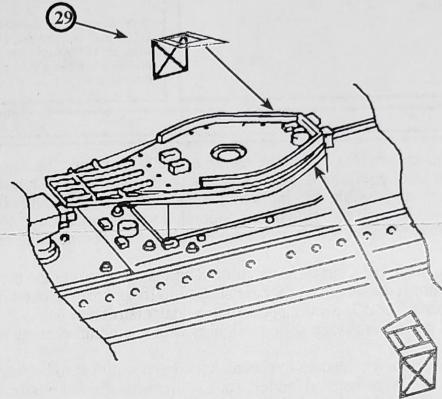


The foremast on the V&W class took several different combinations, depending again on the ship and what the conversion state was. The parts shown here were not necessarily fitted at the same time, the diagram only serves to show their location. Different combinations of mast top radar was also fitted in that the 286 antenna was fitted to the topmast in some cases, and the 290/291 antenna fitted to others.

CARLEY RAFT STOWAGE RACKS

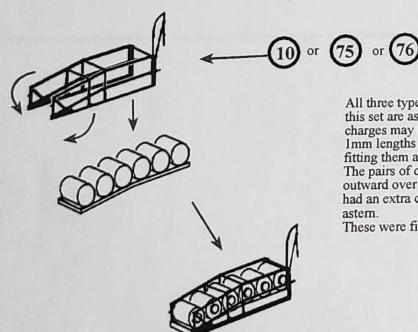


A midships carley raft stowage rack was fitted to some ships immediately forward of the aft funnel. This was fitted over a small deckhouse forward of the funnel and is provided for in etched part 65, shaped as shown above. This was fitted mainly to WAIR conversions, and carried four carley rafts.



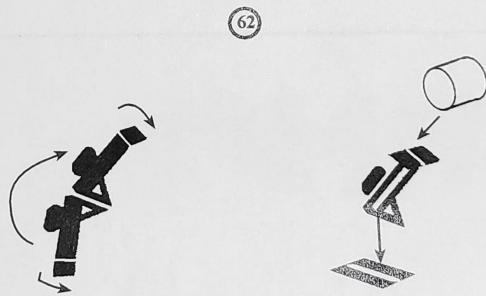
More common were the carley raft stowage racks that were fitted to each side of the aft superstructure and provided here in etched parts 29. These carried one carley raft each.

DEPTH CHARGE RAILS



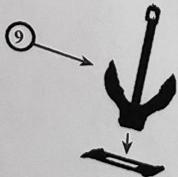
All three type of depth charge rail provided in this set are assembled in the same manner. Depth charges may be fitted to the rail plate by cutting 1mm lengths of .5mm diameter plastic rod and fitting them as shown left. The pairs of depth charge rails were angled outward over the stern. The triple bank of rails had an extra central rail that ran out directly astern. These were fitted to the LRE-converted ships.

DEPTH CHARGE THROWER ASSEMBLY



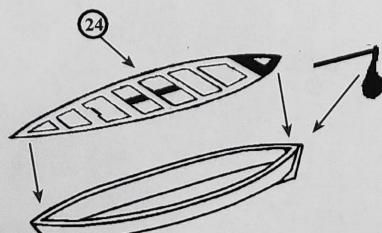
Another LRE modification was the fitting of up to four depth charge throwers, two on each side. These are provided as etched parts 62 and are shaped by folding the etched part in half as shown left then bending the upper tags outwards to 90°. Fit the thrower to the rectangular base plate, then cut a depth charge from .5mm diameter plastic rod to a length of 1mm and fit to the top tags.

ANCHOR ASSEMBLY



Assemble photoetched anchors 9 as shown above, by fitting the fluke base into the slot in the upper palm. Fit anchors into the hawsepipes each side of the bow, after first drilling out the holes with a .5mm drill bit. These can be used to replace kit parts A2.

SHIP'S BOATS ASSEMBLY



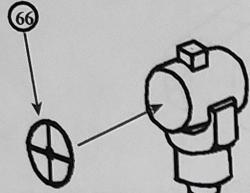
The moulded plastic thwarts may be removed from the insides of the ship's boats and replaced with the etched metal items provided in the set. This assembly method is the same for all types of boats provided in the kit. The oars provided with this set can be divided from the tags and placed in the boats as desired.

BOAT DAVIT ASSEMBLY



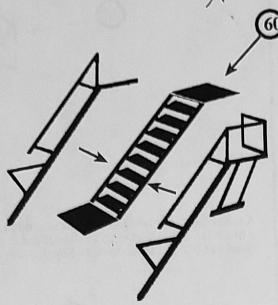
Fold the davits, etched parts 25, in half so that the relief-etched detail is outermost. Fix the halves together with adhesive. Three sets of davits have been provided in this set as some ships carried up to 3 boats. 27 Whalers were normally fitted but other open boats were sometimes fitted too. These can be used with or replace the kit parts as desired.

SEARCHLIGHT LENS



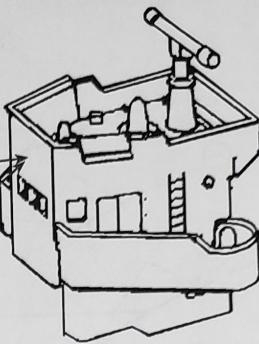
The searchlight lens cross may be fitted to kit part B9 after first drilling out the front of the searchlight to give the lens depth.

ACCOMMODATION LADDER



If the ship is to be modelled at anchor, an accommodation ladder may be deployed for the ship's boats, on the ship's sides aft of the hull step. There are enough etched parts provided to make a ladder for each side of the ship, should it be desired.

BRIDGE FRONT DF ANTENNAS



Fold and fit the desired type of DF antenna to the front of the bridge as shown above.

OTHER INSTRUCTIONS

1. It is well known that due to the nature of the conversions the ships of this class went through and the availability of equipment, that no two ships were the same in weapon fit or equipment. Some could actually tell a ship by name simply from the fit of equipment. This is why this detail set has had to be made fairly simple and as generic as possible, but including some of the major features fitted to some of the ships. Research of each individual ship modelled will be necessary to get the equipment fit right, and one recommended source is in *Man O' War 2 V & W class Destroyers* by Alan Raven and John Roberts. Another valuable but rare source is *British Destroyers* by Edgar March if one can be found.
2. Railings have been supplied as tailored and stock to cover the more awkward areas. Etched parts 4 are tailored to fit the deck edges of the raised fo'c'sle area. Etched parts 5 are sections of rail that are shaped to fit against the curved shield of the hull step if these are fitted. The rest of the upper deck railings can be taken from the stock parts 1 and 2, for the platforms and superstructure decks.
3. Ladders, both inclined and vertical, have been supplied to be fitted in various places as replacement for any Aztec steps that are moulded into the kit parts. Etched parts 7 are stock vertical ladders for use on masts, funnel platforms and sides of superstructures as required. These are cut to the required length, then the top and bottom rungs bent in slightly and used to locate the part so that the ladder stands away from the side of the superstructure. The longer inclined ladders, etched parts 61, are the bridge access ladders and are fitted up to the recesses on the rear of the bridge wings. The shorter ladders, etched parts 63, are for areas such as the hull step, replacing the moulded ladders, and some of the platforms and aft superstructure access.
4. Etched parts 67 are replacements for the kit's torpedo davits, kit parts B24, if desired. These fold in half to provide the double thickness, with the relief etching outermost.
5. Etched parts 59 are a selection of funnel cap grilles of different shapes and sizes to cover most of the different funnels used on these classes of ship. The fitting of these is covered in an earlier diagram, but please note that the moulded plastic grilles of the kit parts should first be carefully removed before fitting the etched parts.