

Type 12 Frigate
H.M.S. ROTHESAY
1960-1988
1/350 Scale

The Type 12 Frigates were introduced in to the Royal Navy during the 1950's and were the first ships designed specifically for the anti-submarine role. With the new "V" form hull design, they were intended to counter the new fast diesel electric submarines and be able to keep up high speeds even in rough weather.

Six ships were initially ordered for the Royal Navy, one of which, HMS Blackpool, was loaned to the Royal New Zealand Navy, and a further two built for the Indian Navy. INS Talwar and INS Trishul. Such was the success of these ships that a further nine vessels to an upgraded specification (Type 12M) were ordered for the Royal Navy. Two were also ordered for the Royal New Zealand Navy and three for the South African Navy as the President Class. The Australian Navy also built their versions of the Type 12 under a licence agreement.

HMS Rothesay was the lead ship of this additional building program and was laid down by Yarrow Shipbuilders, Scotstoun on the Clyde on 6th November 1956. She was launched on 9th December 1957 and commissioned into service with the Royal Navy 23rd April 1960. Her first commission was to be visiting the Eastern seaboard of the USA and Canada, but was cut short early on in 1961 due to the Cuban missile crisis. She was detached to take up station at the RN dockyard in Bermuda for the duration to protect British interests in the area. Between 1962 and 1963 Rothesay had the distinction of being commanded by Captain BC Godfrey Place VC. She made further visits to the West Indies as guard ship and during one of these visits became involved with the filming of the James Bond movie 'Thunderball' At one point her pennant number F107 was altered to read 007 by placing a sheet of canvas with a 0 painted on it over the F1 part.

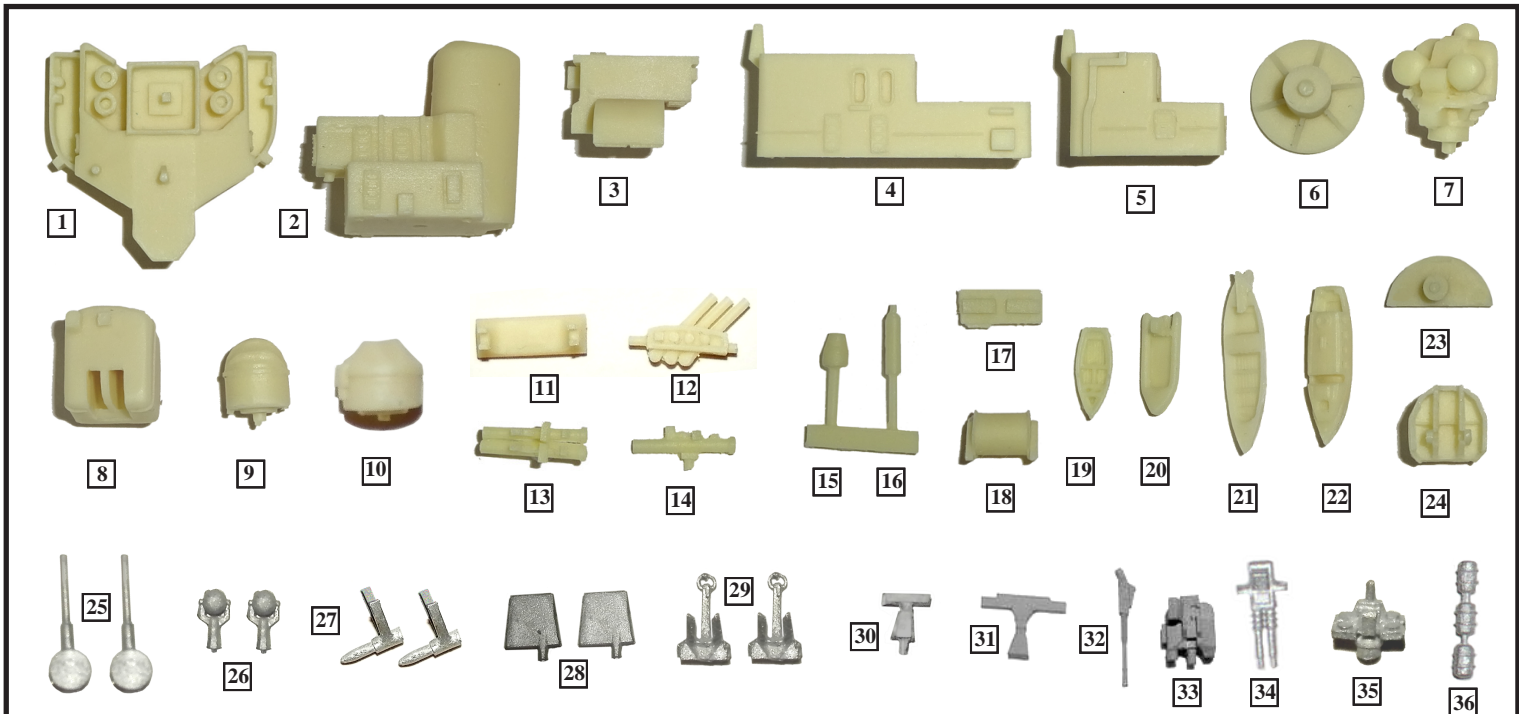
Between 1966 and 1968, HMS Rothesay was refitted and modernised extensively to bring her up to the same standard as the Improved Leander class. She had a new fire control system and a completely new aft superstructure and hangar for a Wasp helicopter. The forward Mortar Mk10 was removed and the forward part of the mortar well plated over to become the flight deck. HMS Rothesay continued in service mainly in the West Indies and Atlantic as well as being involved in the Cod War patrols during 1973. She attended the Queens Silver Jubilee Review in 1977 and was part of the 8th Frigate Squadron at this time. At the start of the Falklands conflict Rothesay was in being repaired following a collision with the sea wall at Ejsberg, Denmark, so she found herself being stationed in the West Indies again. She was transferred to the Dartmouth Training Squadron in 1985 and served in this role until 1988. She paid off 13th March 1988 and broken up in Santander, Spain later that year.

Specifications

Length: 370 ft oa. Beam: 41 ft Displacement: 2,150 tons standard 2,560 tons full load. Speed: 30 knots max

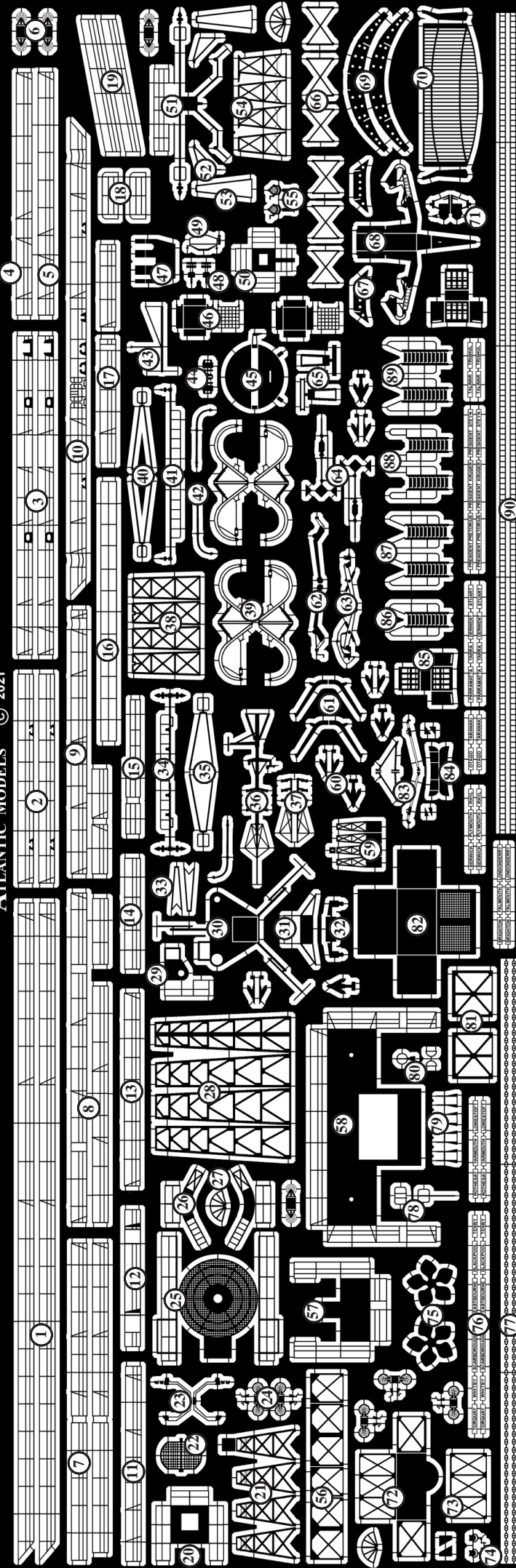
Armanent: 1 x Twin 4.5 inch Mk6 mounting. 1 x Twin Bofors Mk5 (Alternatively 1x Single Bofors Mk7)
 2 x Limbo A/S Mortar Mk10 12 x 18" A/S Torpedo Tubes (8 x Single 2 x Twin Mountings) Later Removed or not fitted

RESIN & WHITE METAL PARTS



- | | | | |
|-------------------------------|--------------------------------------|--------------------------------|------------------------------|
| 1. Bridge/ GDP Unit | 10. Sea Cat Director MRS3 | 19. 14' Bosun Dinghy | 28. Rudders |
| 2. Funnel Unit | 11. Mortar Mk10 Base x 2 | 20. Gemini Inflatable Boat | 29. Anchors |
| 3. Mid Deckhouse/ Vent Intake | 12. Mortar Mk10 Barrels x 2 | 21. 27' Motor Whaler | 30. 978 Nav Radar Antenna |
| 4. Aft Deckhouse (Large) | 13. Twin Torpedo Tube Mounting x 2 | 22. 25' Adm Motor Cutter | 31. IFF 1010 Cossor Antenna |
| 5. Aft Deckhouse (Small) | 14. Single Torpedo Tube Mounting x 8 | 23. 293 Radar Antenna | 32. 40mm Bofors Barrels x 2 |
| 6. Main Director Platform | 15. 277 Radar Antenna Base | 24. Twin 40mm Bofors Mk5 | 33. 40mm Bofors Mk7 Base x 2 |
| 7. Mk6 FC Director (Late) | 16. Large Whip Aerial Base | 25. 4.5" Mk6 Gun Barrels | 34. Twin 40mm Bofors x 2 |
| 8. Twin 4.5" Mk6 Gun Turret | 17. Inflatable Life Raft Packs x 4 | 26. Singnal Lamps | 35. Sea Cat Missile Launcher |
| 9. Aft AA Director Tub | 18. Large Hawser Reel | 27. Propeller A Frame Bearings | 36. Life Raft Canisters x 4 |

ATLANTIC MODELS © 2021



Type 12 and Type 12M Frigates (Early) 1/350

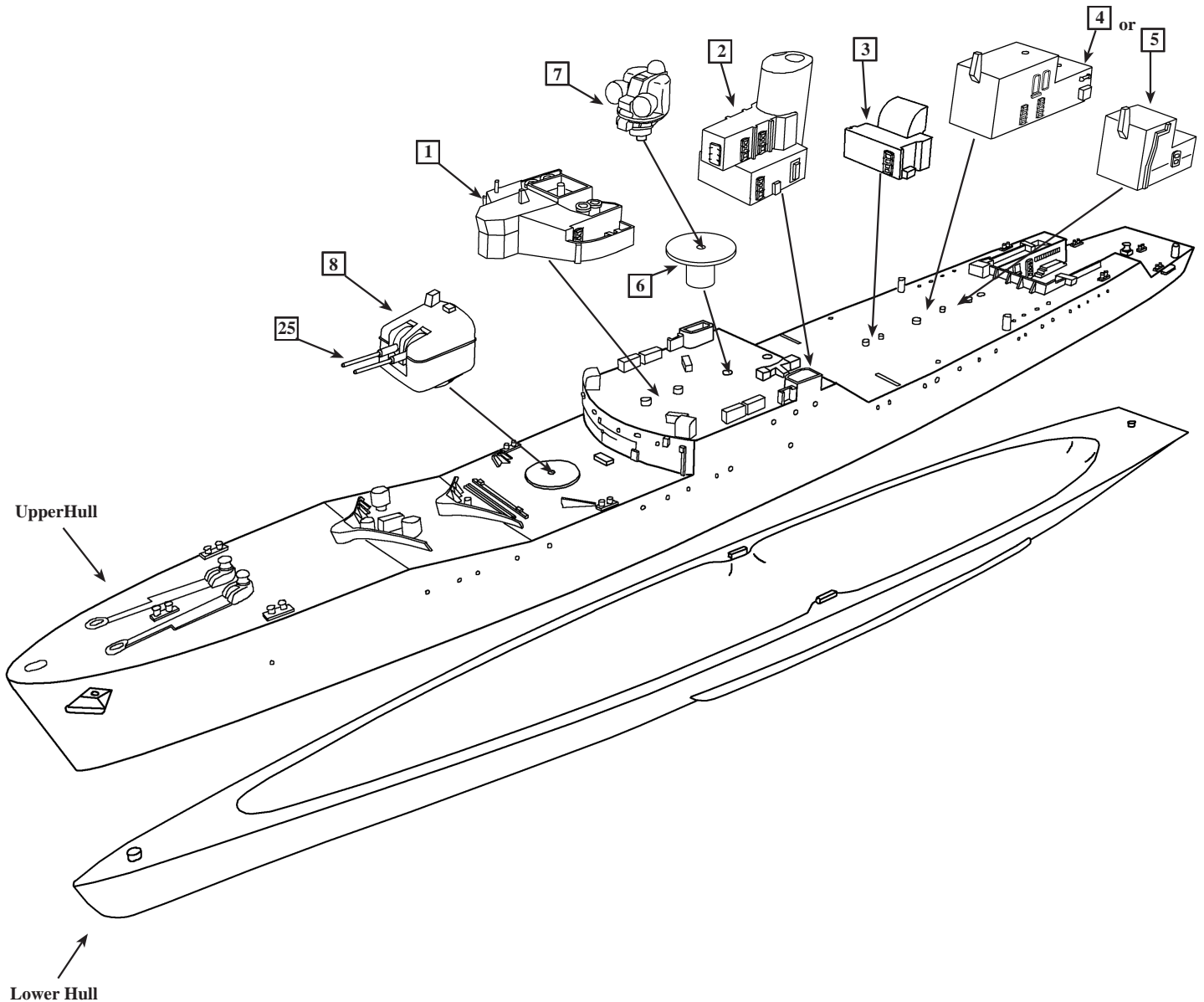
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|--------------------------------------|---|---|
| 1. Railings (Main Deck) | 46. Signal Flag Lockers | 69. LW 02 Radar Antenna Horizontal Spars |
| 2. Railings (Fore Deck) | 47. Twin 40mm Bofors Shield | 70. LW 02 Radar Antenna Antenna Face |
| 3. Railings (Foc' s' le) | 48. Bofors Gunner Seats | 71. Mounting Spindle |
| 4. Railings (Mortar Well Port) | 49. Twin Bofors Gun Sights | 72. Aux Conning Position Platform (Early) |
| 5. Railings (Mortar Well Stbd) | 50. Main Mast Top Platform (Early) | 73. Aux Conning Position Front Support |
| 6. Foc' s' le Cable Reels | 51. Main Mast Top Platform (Late) | 74. Bridge Signal Lamps |
| 7. Railings (Superstructure Sides) | 52. Main Mast Aft Yard Supports | 75. Propellers |
| 8. Railings (Large Aft Deckhouse) | 53. Yardarm Stays (Main Mast Late) | 76. Ships Ceremonial Name Plates |
| 9. Railings (Small Aft Deckhouse) | 54. Main Mast Lattice (Late) | 77. Anchor Chain |
| 10. Railings (Quarterdeck) | 55. Signal Lamps (Large) | 78. Amidships DF Antenna |
| 11. Railings (Mid Deckhouse Vent) | 56. Aux Conning Position Supports | 79. Sea Cat Loading Rails |
| 12. Railings (Hull Step Fwd) | 57. Aux Conning Position Platform | 80. Bridge Roof DF Antenna |
| 13. Railings (Aux Con Position) | 58. 40mm Bofors Platform (INS Ships) | 81. Bofors Platform Supports (INS Ships) |
| 14. Railings (277 Mast Base) | 59. Amidships DF Antenna Mast | 82. Vent Intake Box (INS Ships) |
| 15. Railings (Fore Mast Platform) | 60. Sea Cat Missile Assembly | 83. Bridge Front RAS Gantry |
| 16. Railings (STAG Platform) | 61. Torpedo Loading Davits | 84. RAS Gantry Platform |
| 17. Railings (Aux Con Position 2) | 62. Decoy Crane Type 1 | 85. Flammable Fuel Can Stowages |
| 18. Railings (Mortar Well Platforms) | 63. Decoy Crane Type 2 | 86. Inclined Ladder (Funnel Step) |
| 19. Railings (Fo' c' sle Incline) | 64. Dan Bouy Assembly | 87. Inclined Ladders (Hull Step) |
| 20. 277 Radar Mast Platform | 65. Main Mast IFF Antenna (Alt) | 88. Inclined Ladders (Hull Step Fwd) |
| 21. 277 Radar Lattice Mast | 66. LW 02 Radar Antenna Rear Frames | 89. Inclined Ladders (Bofors Platforms) |
| 22. 277 Radar Antenna | 67. LW 02 Radar Antenna Vertical Plates | 90. Vertical Ladder (Stock) |
| | 68. LW 02 Radar Antenna Mounting | |
| 23. 277 Radar Antenna Yoke | | |
| 24. Quarterdeck Cable Reels | | |
| 25. Main Director Platform Deck | | |
| 26. Main Director Access Landings | | |
| 27. Shield Antennas | | |
| 28. Lattice Fore Mast | | |
| 29. 978 Nav Radar Platform | | |
| 30. Fore Mast Top Platform | | |
| 31. Fore Mast Front Platform | | |
| 32. Fore Mast Sensors | | |
| 33. Fore Mast Aft Yard Stays | | |
| 34. Yardarms (Fore Mast Sides) | | |
| 35. Yardarm Stays (Fore Mast Sides) | | |
| 36. Fore Mast Top Antenna Array | | |
| 37. Antenna Array Side Sections | | |
| 38. Main Mast Lattice (Early) | | |
| 39. Boat Davits | | |
| 40. Yardarm Stays (Main Mast Sides) | | |
| 41. Yardarms (Main Mast Sides) | | |
| 42. Loading Davits | | |
| 43. Yardarm (Main Mast Rear Early) | | |
| 44. 293 Radar Mounting Post | | |
| 45. 293 Radar Antenna (Alternative) | | |

General Precautions

When assembling a Resin / Photoetched metal kit, certain precautions must first be taken.

1. Resin dust can be harmful if inhaled. It is recommended that you wear a suitable dust mask when drilling or sanding resin parts.
2. Cyano adhesives (super glues) are generally used to assemble this type of kit. Care must be taken when using this type of adhesive as it will bond in seconds. Follow the advice on the container.
3. Wash resin parts in a solution of warm soapy water before assembly. This will remove any residual mold release agents and ensure a good key for painting.
4. Soak photoetch parts in a suitable solvent, such as white spirit, to degrease the surfaces prior to painting.

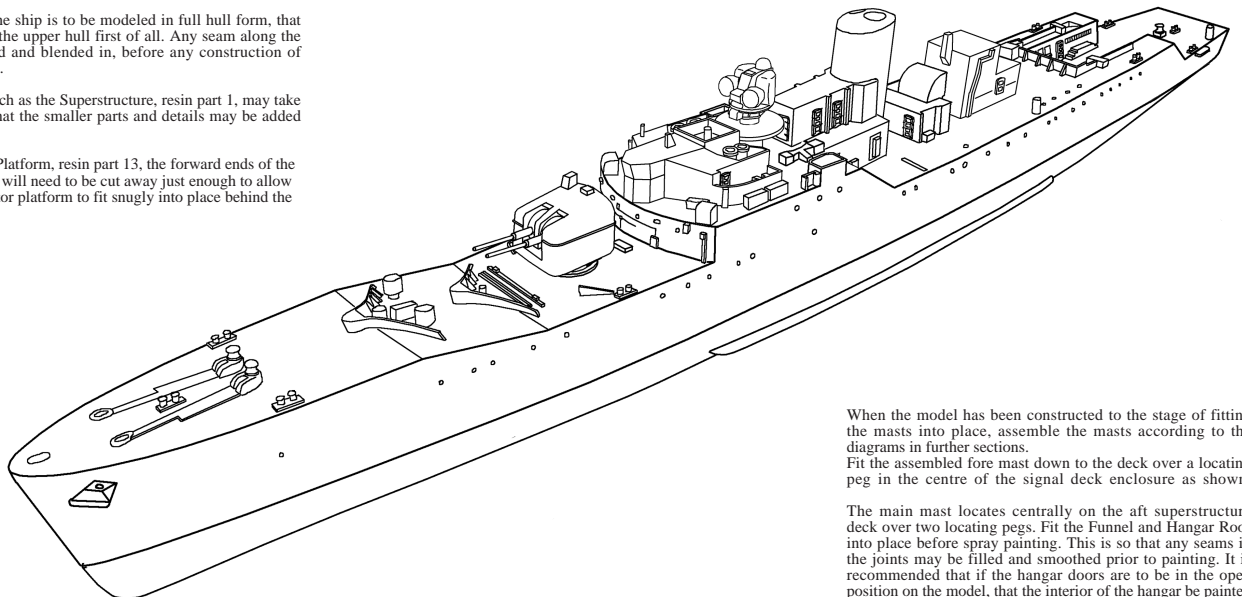
MAIN STRUCTURAL PARTS



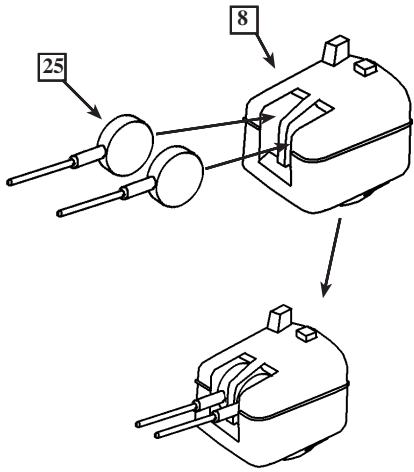
It is recommended that if the ship is to be modeled in full hull form, that the lower hull be joined to the upper hull first of all. Any seam along the join line may then be filled and blended in, before any construction of the smaller parts takes place.

Fitting of the larger parts such as the Superstructure, resin part 1, may take place at an early stage so that the smaller parts and details may be added around them.

To fit the forward Director Platform, resin part 13, the forward ends of the bulwarks on the signal deck will need to be cut away just enough to allow the housing below the director platform to fit snugly into place behind the bridge windows.

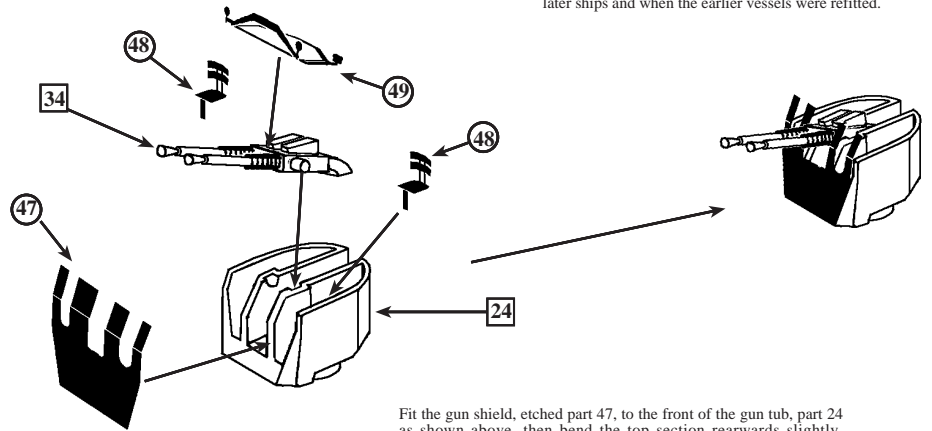


Twin 4.5" Mk6 Gun Turret Assembly



Clean off any excess material from the gun barrels, parts 25, so that the barrels and the elevation discs are clean and smooth. Fit the elevation discs on both barrels into the recesses in the front of gun turret, resin part 8. Elevate the barrels to the desired position and secure into place.

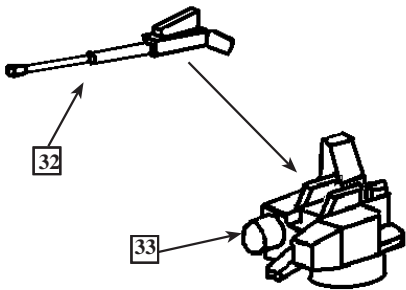
Twin 40mm Bofors Mk5 Assembly



This gun mounting was used to replace the STAAG mounting on later ships and when the earlier vessels were refitted.

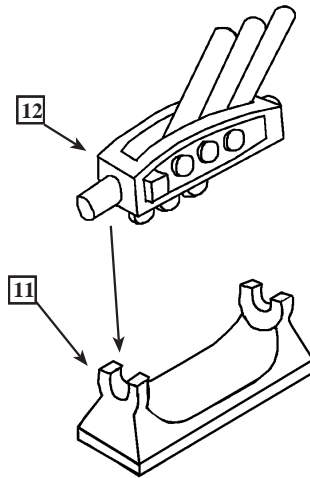
Fit the gun shield, etched part 47, to the front of the gun tub, part 24 as shown above, then bend the top section rearwards slightly. Shape the Gun Layers Seats as shown and then fit so the stalk locates against the step on the deck inside. Fold up the gun sights to 90° on the mounting frame, then fit to the top of the gun barrels as shown. Fit the gun barrels, metal part 34, into the gun tub so that the side lugs locate into the recesses in the central mounting.

Single 40mm Bofors Mk7 Assembly



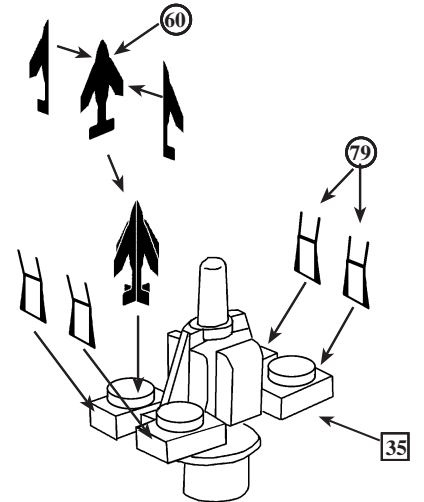
Fit the body of the 40mm Bofors gun, part 32, into the recess on the top of the Gun Mounting, part 33. Make two of these. This gun mounting was used on some ships to replace the STAAG mounting. Also the Indian Navy ships had two of these fitted on an amidships platform.

Mortar Mk10 Assembly



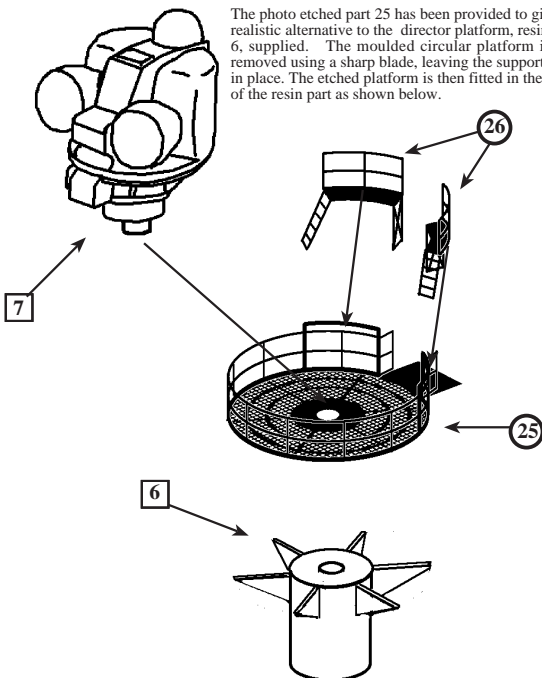
Fit the Mortar Mk 10 Barrel unit, resin part 12, so that the hinge lugs locate in the recessed ends of the Mounting base, resin part 11. The mortar barrels can be angled sideways as desired.

Sea Cat Missile Launcher



Assemble the Sea Cat missiles using etched parts 60 as shown above. These can be fitted to the launcher as desired. Fit the side loading rails, etched parts 79, to the short sides of the launcher.

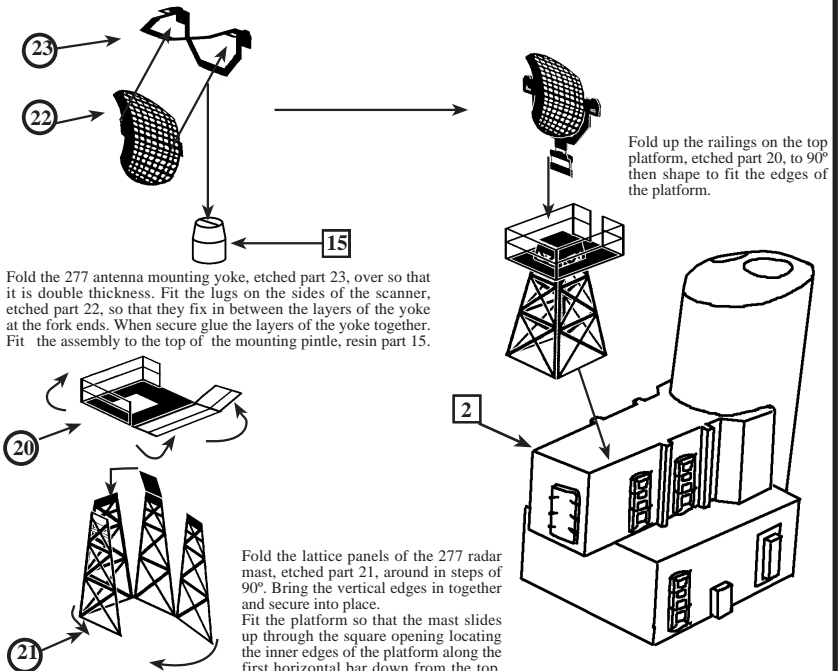
Mk 6 Gunnery Director Platform



The photo etched part 25 has been provided to give a realistic alternative to the director platform, resin part 6, supplied. The moulded circular platform is first removed using a sharp blade, leaving the support struts in place. The etched platform is then fitted in the place of the resin part as shown below.

Fold up the railings on the director platform, etched part 25, to 90° and shape to fit around the edge of the platform as shown. Shape the ladders and support frames on the access platform, etched parts 26, and fit into place against the insides of the supports on the platform as shown.

277 Radar Mast Assembly



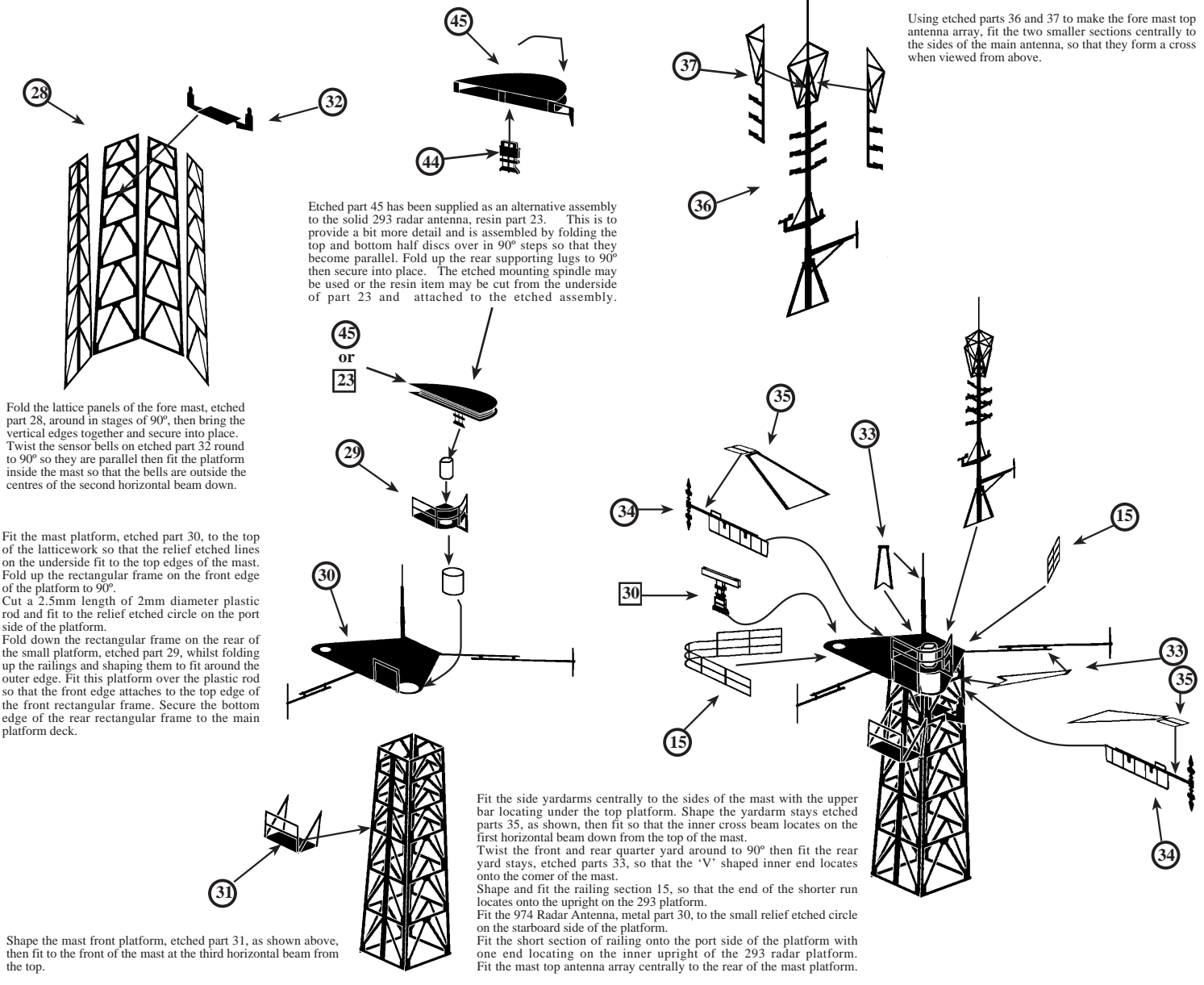
Fold the 277 antenna mounting yoke, etched part 23, over so that it is double thickness. Fit the lugs on the sides of the scanner, etched part 22, so that they fix in between the layers of the yoke at the fork ends. When secure glue the layers of the yoke together. Fit the assembly to the top of the mounting pintle, resin part 15.

Fold up the railings on the top platform, etched part 20, to 90° then shape to fit the edges of the platform.

Fold the lattice panels of the 277 radar mast, etched part 21, around in steps of 90°. Bring the vertical edges in together and secure into place. Fit the platform so that the mast slides up through the square opening locating the inner edges of the platform along the first horizontal bar down from the top. Fit the 277 antenna assembly to the top of the mast as shown right.

Fit the 277 mast assembly to the forward part of the funnel deckhouse, allowing enough room to fit the Fore Mast behind.

Foremast Assembly



Using etched parts 36 and 37 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.

Etched part 45 has been supplied as an alternative assembly to the solid 293 radar antenna, resin part 23. This is to provide a bit more detail and is assembled by folding the top and bottom half discs over in 90° steps so that they become parallel. Fold up the rear supporting lugs to 90° then secure into place. The etched mounting spindle may be used or the resin item may be cut from the underside of part 23 and attached to the etched assembly.

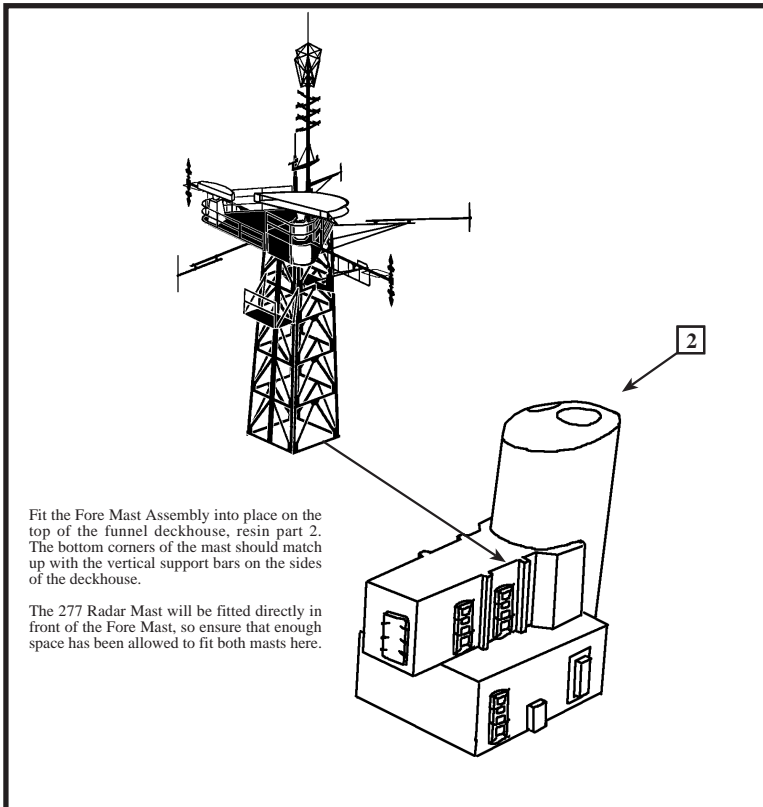
Fold the lattice panels of the fore mast, etched part 28, around in stages of 90°, then bring the vertical edges together and secure into place. Twist the sensor bells on etched part 32 round to 90° so they are parallel then fit the platform inside the mast so that the bells are outside the centres of the second horizontal beam down.

Fit the mast platform, etched part 30, to the top of the latticework so that the relief etched lines on the underside fit to the top edges of the mast. Fold up the rectangular frame on the front edge of the platform to 90°. Cut a 2.5mm length of 2mm diameter plastic rod and fit to the relief etched circle on the port side of the platform. Fold down the rectangular frame on the rear of the small platform, etched part 29, whilst folding up the railings and shaping them to fit around the outer edge. Fit this platform over the plastic rod so that the front edge attaches to the top edge of the front rectangular frame. Secure the bottom edge of the rear rectangular frame to the main platform deck.

Fit the side yardarms centrally to the sides of the mast with the upper bar locating under the top platform. Shape the yardarm stays etched parts 35, as shown, then fit so that the inner cross beam locates on the first horizontal beam down from the top of the mast. Twist the front and rear quarter yard around to 90° then fit the rear yard stays, etched parts 33, so that the 'V' shaped inner end locates onto the corner of the mast. Shape and fit the railing section 15, so that the end of the shorter run locates onto the upright on the 293 platform. Fit the 974 Radar Antenna, metal part 30, to the small relief etched circle on the starboard side of the platform. Fit the short section of railing onto the port side of the platform with one end locating on the inner upright of the 293 radar platform. Fit the mast top antenna array centrally to the rear of the mast platform.

Shape the mast front platform, etched part 31, as shown above, then fit to the front of the mast at the third horizontal beam from the top.

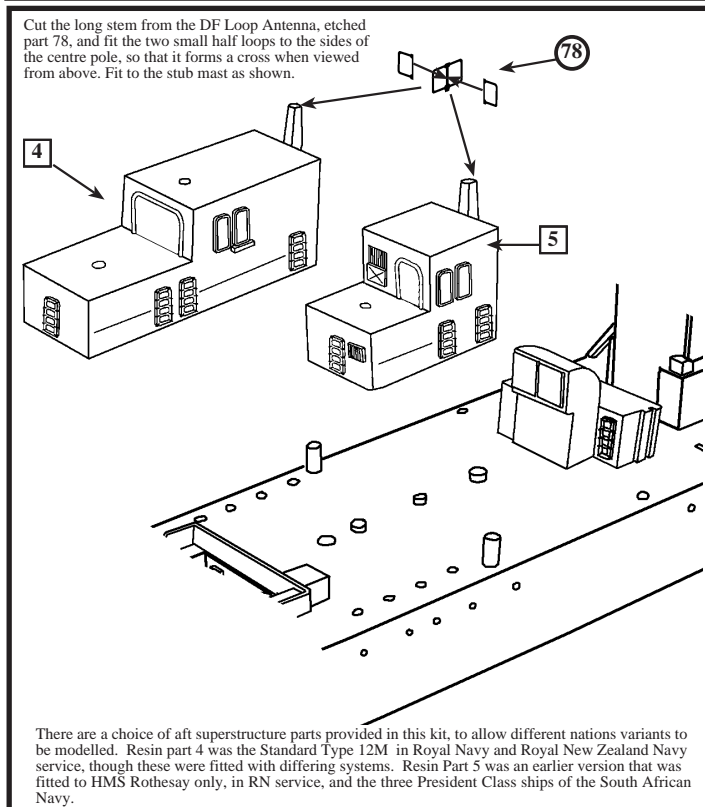
Fore Mast Location



Fit the Fore Mast Assembly into place on the top of the funnel deckhouse, resin part 2. The bottom corners of the mast should match up with the vertical support bars on the sides of the deckhouse.

The 277 Radar Mast will be fitted directly in front of the Fore Mast, so ensure that enough space has been allowed to fit both masts here.

Aft Superstructure Choices

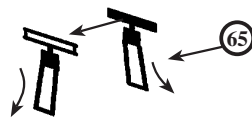
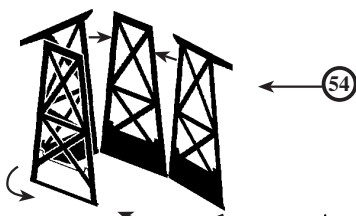


Cut the long stem from the DF Loop Antenna, etched part 78, and fit the two small half loops to the sides of the centre pole, so that it forms a cross when viewed from above. Fit to the stub mast as shown.

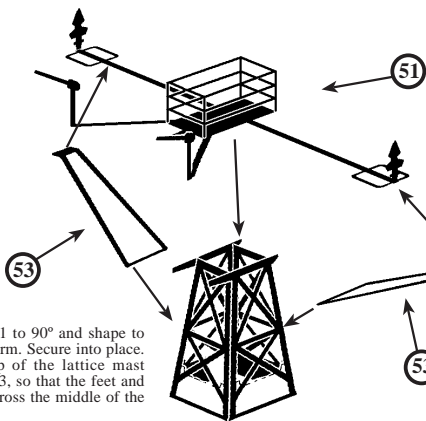
There are a choice of aft superstructure parts provided in this kit, to allow different nations variants to be modelled. Resin part 4 was the Standard Type 12M in Royal Navy and Royal New Zealand Navy service, though these were fitted with differing systems. Resin Part 5 was an earlier version that was fitted to HMS Rothesay only, in RN service, and the three President Class ships of the South African Navy.

Late Main Mast Assembly

Fold the Main Mast Lattice frames around in stages of 90° and join together in the same way that the Fore Mast was constructed.

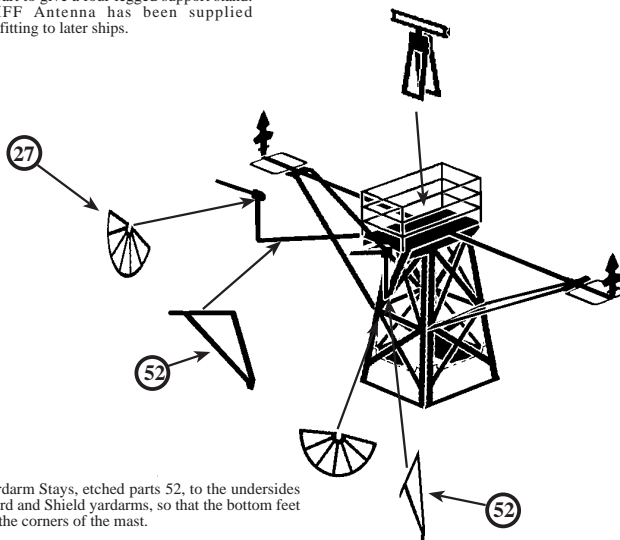


Fix the two sections of the IFF antenna, etched parts 65 together at the top, so that the cross bar is double thickness, then pull the legs apart to give a four legged support stand. An alternative IFF Antenna has been supplied as metal part 31 for fitting to later ships.



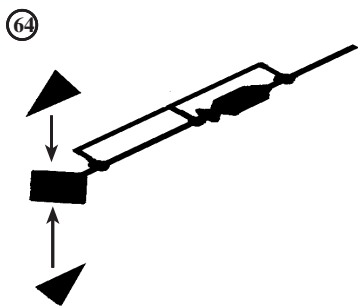
Fold up the railings on etched part 51 to 90° and shape to fit around the edges of the mast platform. Secure into place. Fit the mast platform on to the top of the lattice mast. Fit the Yardarm Stays, etched parts 53, so that the feet and crossbar fit onto the horizontal bar across the middle of the mast side frames.

Twist the Sword antenna dipoles on the aft quarter yardarms up to 90° then fit the Shield parts of the antennas, etched parts 27 centrally into place on the swords as shown right.



Fit the Yardarm Stays, etched parts 52, to the undersides of the Sword and Shield yardarms, so that the bottom feet fit against the corners of the mast.

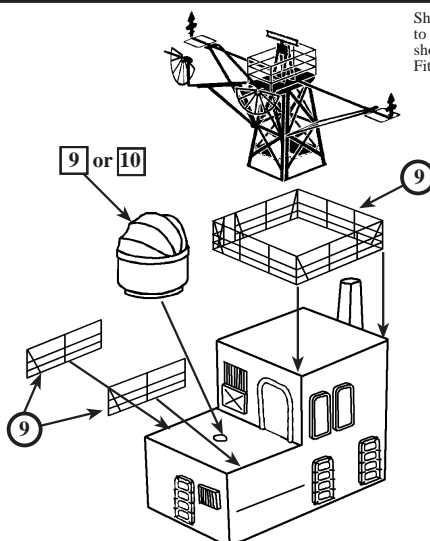
Dan Buoy Assembly



Assemble the radar reflectors on the Dan Buoys, etched parts 64, as shown above. Fit the rectangular bracket arrangement onto the side railings on each stern quarter.

The colour of the reflector and body of the Dan Buoys varied from Dayglo Orange which was the most common, to Red and White 90° alternate sections. These were usually fitted to the railings, outboard, on each side of the quarterdeck.

Aft Superstructure Assembly (HMS Rothesay and President Class)



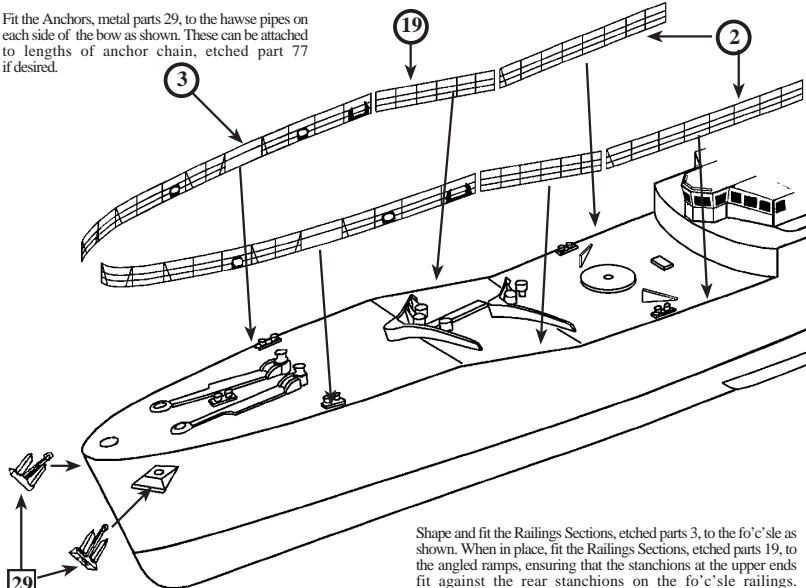
Shape the long section of railings from etched parts 9, around in stages of 90° to fit the edges of the superstructure upper deck. The vertical ladder access should be positioned on the Port side. Fit the two short sections of railing to each side of the lower deck as shown.



The director that was fitted to HMS Rothesay was the early type AA 262 director, which is supplied as resin part 9. The President class had the later MRS 3 director fitted in the same location in anticipation of Sea Cat being fitted. A small landing was fitted to the sill of the aft most opening in the side of the upper housing. An inclined ladder, etched part 89, would then be fitted leading downwards between the two lower doors on each side.

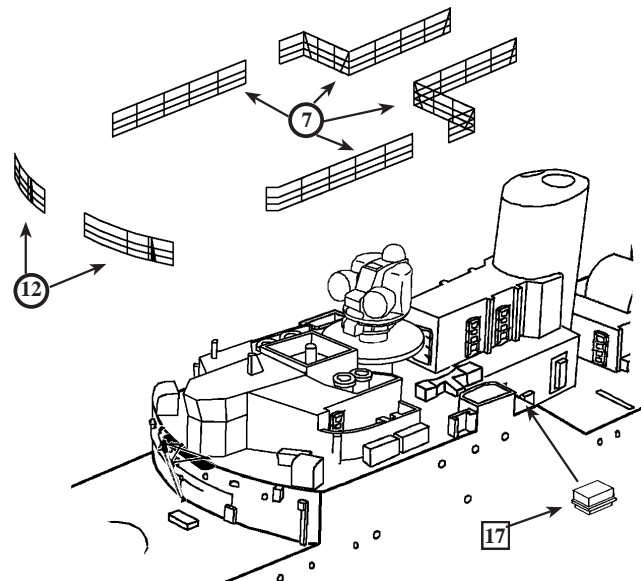
Fo'c'sle Railing Location

Fit the Anchors, metal parts 29, to the hawse pipes on each side of the bow as shown. These can be attached to lengths of anchor chain, etched part 77 if desired.



Shape and fit the Railings Sections, etched parts 3, to the fo'c'sle as shown. When in place, fit the Railings Sections, etched parts 19, to the angled ramps, ensuring that the stanchions at the upper ends fit against the rear stanchions on the fo'c'sle railings. Fit Railing Sections, etched parts 2, between the lower stanchions on the ramp railings and the forward superstructure front bulkhead.

Forward Superstructure Railings



Gently curve the Railing Sections, etched parts 1 to fit the forward edges of the deck step. The larger fitting on the Port side. Shape and fit the Railings Sections, etched parts 7, to fit the sides of the superstructure deck as shown above. The longer front section goes to the Port side.

Forward RAS Equipment Assembly

80

84

83

Fold the RAS Gantry Platform, etched part 84, in half so that it is double thickness and secure. Fit the support brackets to the relief etched lines on the underside.
Fit in place centrally in front of the bridge so that it overhangs the edge of the deck.
Fold the RAS Post, etched part 83, in half so that it is double thickness then fit the restraining frame as shown.
Bend the angled frames rearwards equally so that the feet attach to the edge of the superstructure deck, whilst the foot of the post fits against the bottom of the forward bulkhead.

Port Side Boat Fitting

Fit the boat davits as shown on to the raised strips molded on the deck port and starboard.

39

17

22

Fit the boats in to place by measuring the distance of the falls from the davits, then drilling through the boat at those points forward and aft. Feed the falls down through the boat, until the boat is in the correct position on the davits. Secure into place.
Cut the Life Raft Containers, resin parts 17, into two and fit two single units next to the hull step aft of the signal lamp enclosure, one on each side of the ship.

Main Deck Railing Location and Starboard Side Boat Fitting

Fold the boat davits, etched parts 33, in half so that they are double thickness with the relief etched detail outer most. Secure in to place.

39

86

1

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87

17

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1

Fit the ships boat on this side in the same way as fitting the boat on the port side.

Shape and fit the Main Deck Railings, etched parts 1, to the edges of the deck having turned the very aft sections inwards as shown.
Fold up the side rails of the Inclined Ladders, etched parts 86 and 87, so that they are parallel, then turn the steps in between so that they are level.
Fit the ladders 87 to each side of the Mortar Well at the hull step and ladder 86 to the port side of the funnel unit.

Auxiliary Conning Platform

72

73

17

3

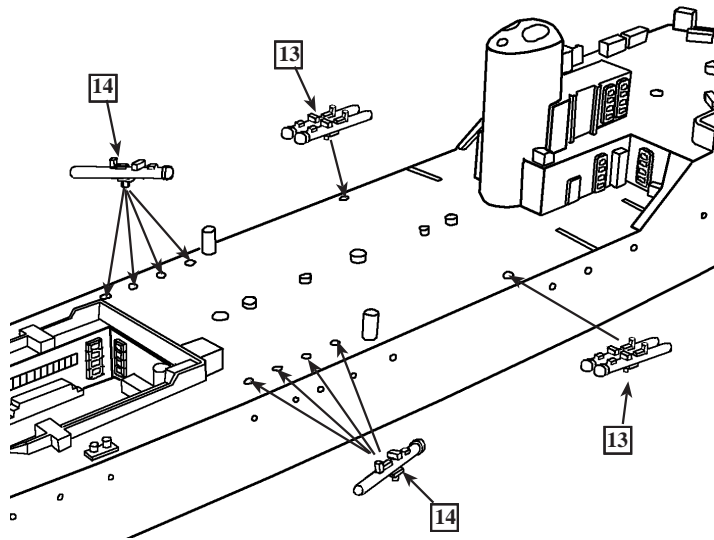
16

Fold the frame end panels of the support structure etched part 72, to 90° so that they are parallel. Fit the single open frame, etched part 73, to the open edges of the end panels. Fold down the platform to 90° and secure the edges of the deck to the top of the support structure as show.

Shape and fit the railings, etched parts 17 to the edges of the platform deck. Fit the support brackets to the underside of the curved extension.

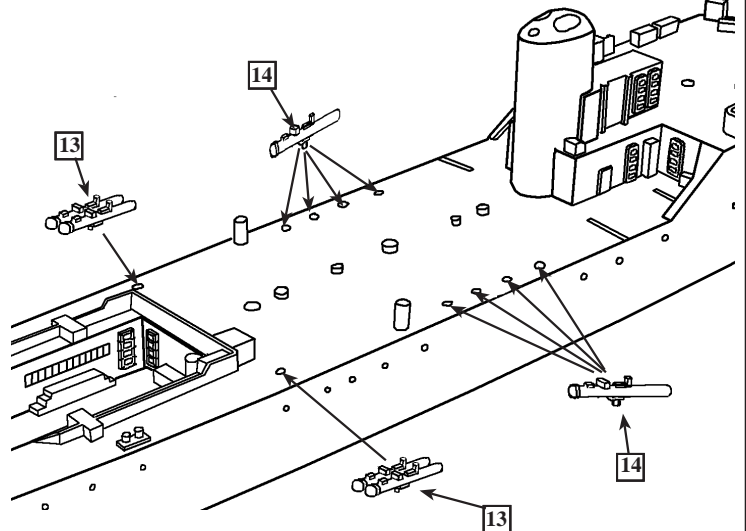
With the improvements incorporated in the Type 12M, the original position occupied by the auxiliary conning platform was taken up by larger superstructure units that were required for the proposed addition of the Sea Cat missile system. The auxiliary conning platform was thus moved onto an open framed structure, very similar to the original fit of the Type 12, only place further forward of the main boiler room ventilator box as shown above right. The large HF Whip aerial, resin part 16, remained in place.

Torpedo Tube Fitting and Alternatives (If Fitted)



Fit the torpedo tubes into the locating holes in the deck, with the four single tubes on each side angled towards the rear. When these tubes were deployed, they were angled further outwards away from the ships side.

In the very early days of these ships careers, Torpedo Tubes, resin parts 13 and 14, were fitted to the edges of the main deck. Some ships had them fitted as shown left, with the bank of four single tubes at the aft location and trainable aft, with the twin tube mountings in the forward location. Later the fitting location was reversed, so that the twin tube mountings were located aft and the four singles forward as shown below.



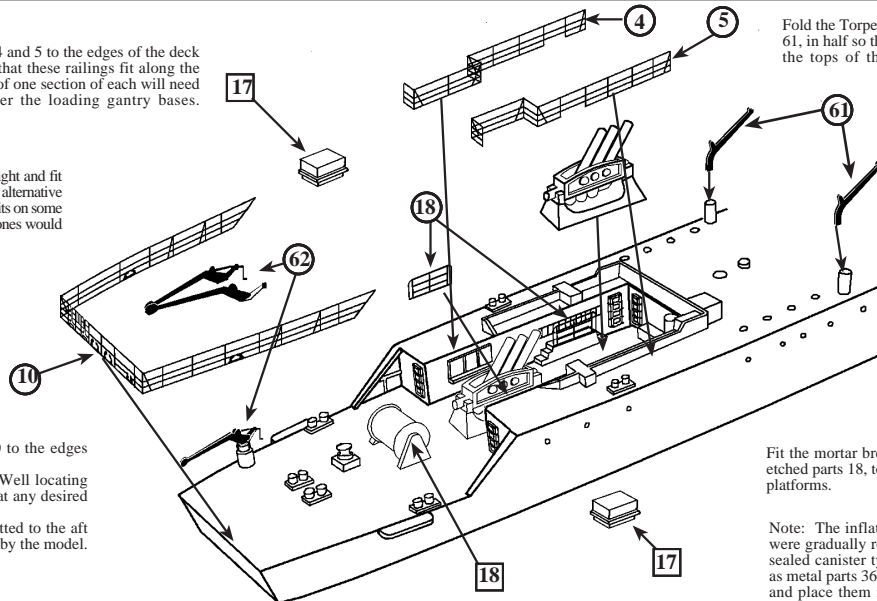
If the torpedo tubes are to be fitted in the later locations, then fill the three locating holes in the deck nearest the loading crane post. Then drill three new holes in corresponding positions in the deck forward of the loading crane post.

Quarterdeck and Mortar Well Fittings

Shape and fit the Railings Sections, etched parts 4 and 5 to the edges of the deck surrounding the mortar well. It should be noted that these railings fit along the outside of the raised bulwarks, so the bottom rail of one section of each will need to be cut away to allow the railing to fit over the loading gantry bases.

Shape the paravane crane, etched part 62, as shown right and fit to the top of the mounting pillar on the stern deck. The alternative crane, etched part 63, is a late model fitted during the refits on some ships of the class. Further research to establish which ones would have to be done.

Shape and fit the Railings Section, etched part 10 to the edges of the quarterdeck. Fit the Mortar Mk10 Assemblies into the Mortar Well locating holes. The mortar barrels can be secured in place at any desired angle to suit the model. The Life Frat containers, resin parts 17, may be fitted to the aft portions as either single or double units, as required by the model.

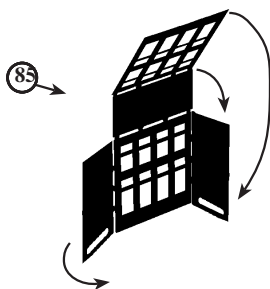


Fold the Torpedo Loading Crane Jibs, etched parts 61, in half so that they are double thickness. Fit to the tops of the moulded crane posts as shown

Fit the mortar breach access platform railings, etched parts 18, to the outer edges of the access platforms.

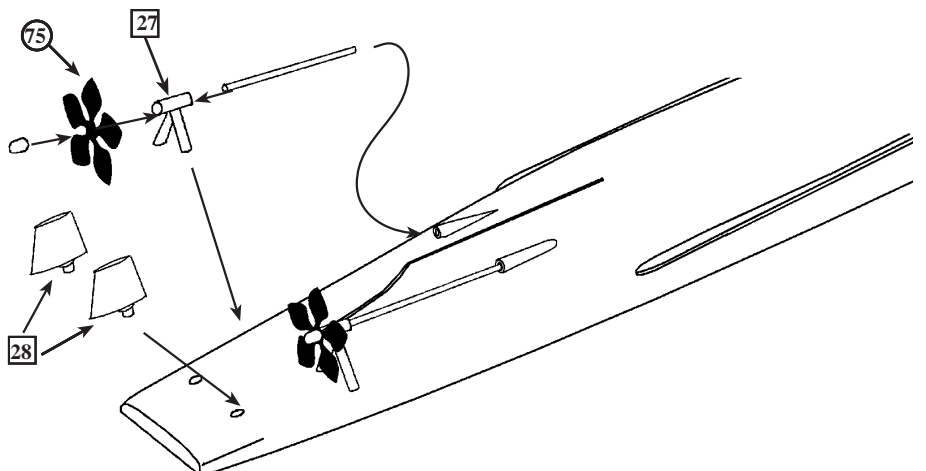
Note: The inflatable life raft packs, resin parts 17, were gradually replaced through the 1960s with the sealed canister type of life raft. These are supplied as metal parts 36 in strips of 3 items. Cut these away and place them in the same locations on the deck.

Fuel Can Rack Assembly



Fold the sides of the fuel can rack round to 90° so that they are parallel, then fold the top and front panels down in stages of 90° so that they form a box construction rack. These racks are meant to contain the Jerry cans of fuel required by the ships boats. They are usually positioned on the edges of the deck in the vicinity of the ships boats, but the exact location will have to be researched by the modeller. Normally painted red

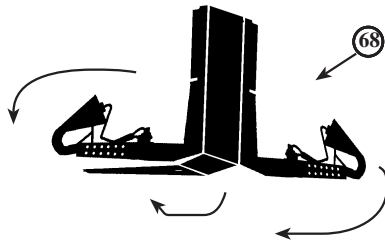
Propeller and Rudder Assembly



If the kit is being built as a full hull model, prepare the lower hull and fit to the upper hull as described at the beginning of these instructions. Cut two 30mm lengths of the 1mm diameter plastic rod stock provided, to make the propeller shafts. Cut the front of the hub boss from the bearing and retain. Fit the propeller, etched part 75, centrally to the flat face on the front of the A frame bearing. Re-fit the hub boss to the front of the propeller as shown above. Fit the propeller shaft assemblies to the lower hull so that the open end of the shaft fits into the hull sleeve. The legs of the A-frame may need to be trimmed in length to get the A-frame to sit correctly on the hull, but there is sufficient length on both legs to do this. Fit the rudders, metal parts 28, in to place in the locating holes on the stem.

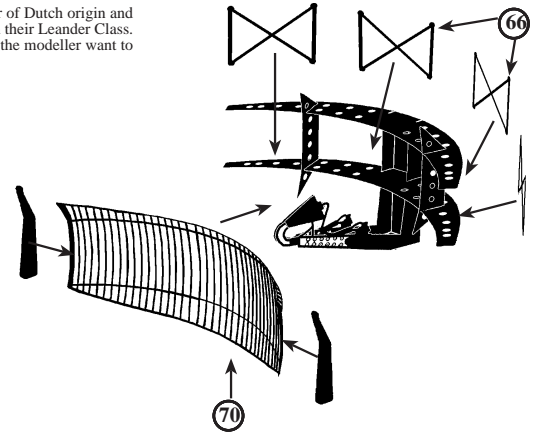
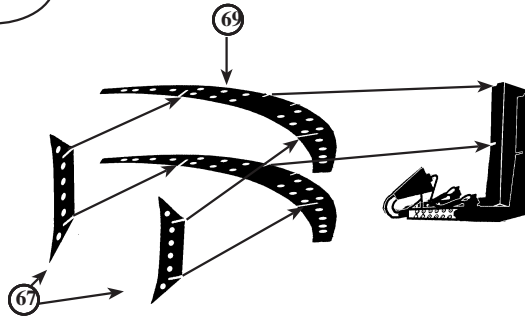
LW-02 Radar Antenna Assembly

The Hollandse-Signaal LW-02 Radar was a long range air search radar of Dutch origin and employed by the RAN on their Type 12 Frigates and by the RNZN on their Leander Class. Although not immediately used in this kit, it has been included should the modeller want to convert the kit to an RAN version.



Fold the sides of the mounting, etched part 68, forward to 90° so that they are parallel, then fold up the tapered central plate until the edges meet the bottom edges of the side panels. Secure into place. Bring the transmitter horn parts on the side plates together and secure so that it is double thickness.

Fit the two horizontal formers, etched parts 69, into the slots in the front of the centre mounting. Fit the two vertical formers, etched parts 67, into the slots in the front of the horizontal formers.

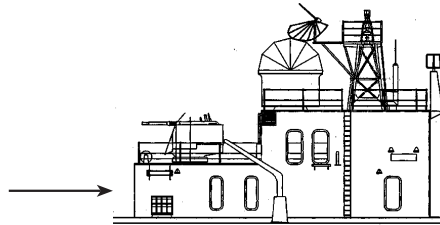
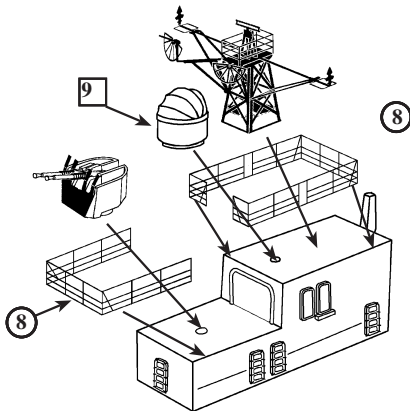


Gently curve the radar antenna screen, etched part 70, until it fits snugly against the front edges of the formers, with the two horizontal formers following the horizontal lines on the screen.

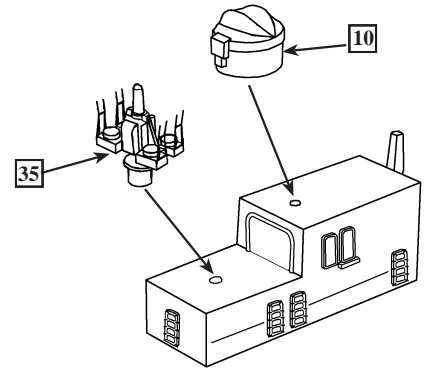
Fit the end plates onto the outer ends of the radar screen and also to the outer ends of the horizontal formers. Fit the cross bracing supports to the rear edges of the horizontal formers to fit into the sections formed by the vertical formers.

Aft Superstructure Weapons Configuration

Shape and the railings sections, etched parts 8, to fit around the edges of the aft superstructure decks as shown. The Royal Navy Type 12Ms were all fitted with either a Single Bofors Mk7 or Twin Bofors MK5 mounting to the position shown below.



Profile diagram showing the positions of mast and ladders relative to the superstructure parts.



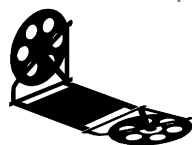
The Aft Superstructure of the RNZN ships Otago and Taranaki were fitted out in the same way as the RN ships, but the director was upgraded to the MRS 3 for the GWS 20 Sea Cat Missile system. These were fitted to the locations shown above.

The redundant small section of railing, has been provided in case the director mounting was not fitted to the upper position, whereby the railings can be trimmed so that this short section fits across the gap on the upper level.

Other Instructions and Information

1. The photo etched detail set supplied in this kit, contains several parts and sub assemblies that are included as extras to help with building the model as one of the modified ships in service with the Commonwealth Navies. For example the additional Bofors gun platform as fitted to the Indian Navy Ships Talwar and Trishul and the LW-02 Radar antenna as later fitted to HMAS Parramatta and HMAS Yarra the first two Type 12s built for the RAN. These parts are for the earlier Type 12 only and do not apply to this kit.
2. Stock lengths of vertical ladders, etched parts 90, have been supplied to be cut to the required lengths for fitting to masts platforms and bulkheads as required.
3. Long lengths of Anchor Chain, etched parts 77, have been supplied to be cut and fitted to the focsle deck, from the hawse pipe holes to the capstans. There is also sufficient to run from the awse pie holes, down to the surface of the water in a seascape diorama if that is being modelled.
4. A selection of cable and cordage reels, etched parts 6 and 24 has been supplied to be fitted as desired to the focsle and quarter deck.
5. Name plates for all the ships of the class, etched parts 76, including other nations ships, have been supplied for fitting as required. These can be painted in the appropriate background colour and then the raised etching scraped clean back to brass to represent the metal lettering on these ceremonial name plates. These were fitted to a bulkhead adjacent to where an accommodation ladder or gangway would be positioned on each side of the ship.

To assemble the cable reels, first fold up the drum ends to 90° so that they are parallel, then cut a length of plastic or brass rod to fit in between as a centre spindle. Super glue in to place.



To add extra depth and realism to the cable reels, lengths of thin fuse wire can be wound round the centre spool to represent the wound on cables or hoses.



Main Colour Chart and Painting Guide



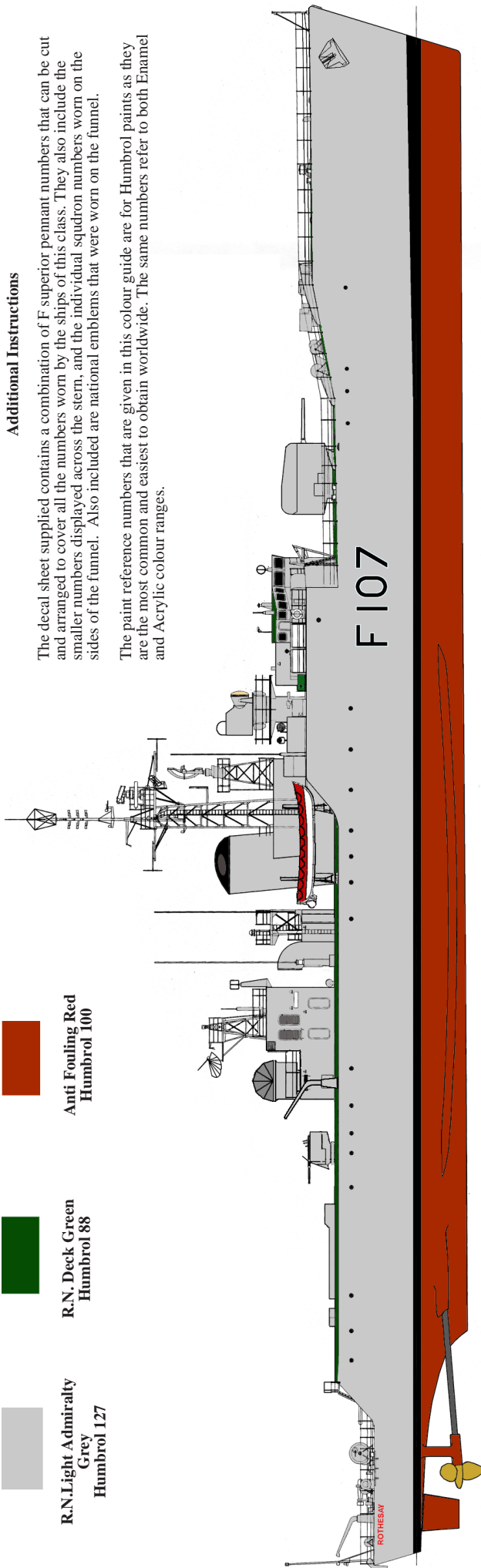
Anti Fouling Red
Humbrol 100



R.N. Deck Green
Humbrol 88



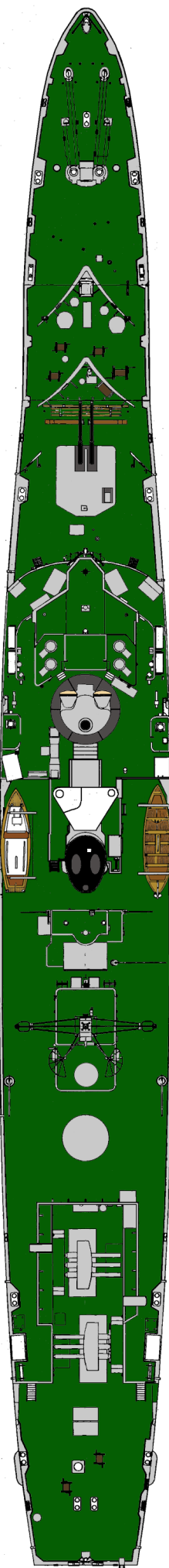
R.N. Light Admiralty
Grey
Humbrol 127



Additional Instructions

The decal sheet supplied contains a combination of F superior pennant numbers that can be cut and arranged to cover all the numbers worn by the ships of this class. They also include the smaller numbers displayed across the stern, and the individual squadron numbers worn on the sides of the funnel. Also included are national emblems that were worn on the funnel.

The paint reference numbers that are given in this colour guide are for Humbrol paints as they are the most common and easiest to obtain worldwide. The same numbers refer to both Enamel and Acrylic colour ranges.



Pennant Numbers for all Ships of the Class

F101 HMS Yarmouth F103 HMS Lowestoft F106 HMS Brighton
F107 HMS Rothesay F108 HMS Londonderry F113 HMS Falmouth
F115 HMS Berwick F126 HMS Plymouth F129 HMS Rhye

F111 HMNZS Otago F148 HMNZS Taranaki

F145 SAS President Pretorius F147 President Steyn F150 President Kruger

The colour guide above shows the main scheme and the areas covered. There are smaller less obvious areas that are listed below.

Matt Black

Upper parts of Masts and Funnel Cap, Gun Barrels, Waterline Boot Topping.

Matt White

Fore Mast Top Array, Life Raft Canisters, Bollards and Fairleads, Coachwork on Motor Boat

Bronze

Propellers, Elevation Discs on 4.5" Guns.

Natural Wood

Boat Thwarts and Interior, Motor Boat Decking.

The colours of the ships boats varied and could change from time to time at the discretion of the captain.

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