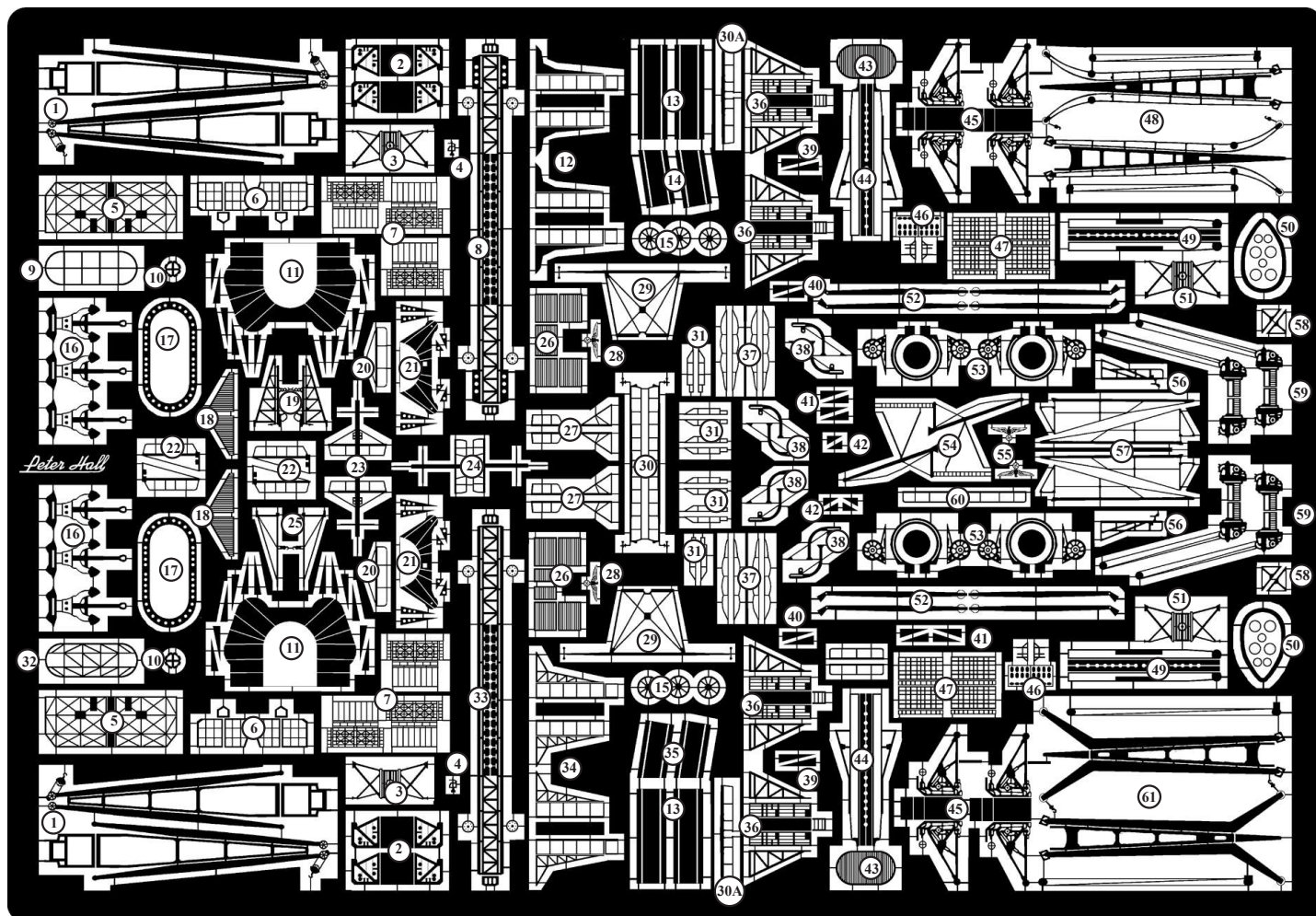
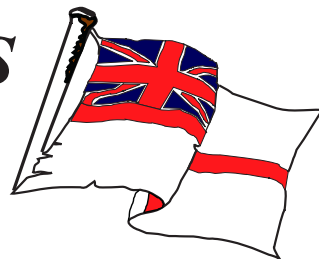


WHITE ENSIGN MODELS

Kriegsmarine Battleships 1/600 Scale

Photoetched Metal Detail Set for the Airfix
Bismarck/Tirpitz & the Revell Scharnhorst/Gneisenau Kits



Bismarck/Tirpitz Parts List

1. Main Crane Jibs
2. Main Crane Cab
3. Aircraft launch cradle
4. Top Director Antenna
5. Aft Hangar Doors
6. Fwd Hangar Doors
7. FuMo 23 Radar Antenna
8. Cross Deck Catapult (*Bismarck*)
9. Funnel Cap Grill (*Bismarck*)
10. RDF Antenna
11. Funnel Platform Assembly
12. Bridge Wing Platforms (*Bismarck*)
13. Fwd Aircraft Handling Tracks
14. Stbd Aft Aircraft Handling Tracks
15. Capstan Handwheels
16. Anchors
17. Funnel Cap Pipe Enclosure
18. Funnel Vent Grilles
19. Aircraft Handling Gantry (*Bismarck*)
20. Aft Director Yardarm
21. Funnel Lower Platform
22. Upper Platform Yardarm
23. Mainmast Top Array
24. Foremast Top Array
25. Aircraft Handling Gantry (*Tirpitz*)
26. Forward Superstructure Vents
27. Lower Platform Yardarms
28. Transom Crest
29. Mainmast Aerial Spreader
30. Mainmast Aerial Spreader Footbars
- 30A. Mainmast Lower Yardarm
31. Director Arm Footbars
32. Funnel Cap Grille (*Tirpitz*)
33. Cross Deck Catapult (*Tirpitz*)
34. Bridge Wing Platforms (*Tirpitz*)
35. Port Aft Aircraft Handling Tracks

Scharnhorst/Gneisenau Parts List

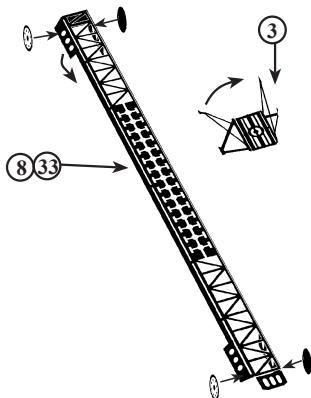
36. Bridge Wing Platforms
37. Upper Platform Yardarms
38. Cutter Davits
39. Lower Platform Extension Support
40. Funnel Platform Aft Supports
41. Funnel Platform Side Supports
42. Funnel Platform Front Supports
43. Turret Catapult Platform
44. Turret Top Catapult
45. Crane Bases
46. FuMb4 Antenna
47. FuMo26 Radar Antenna
48. Crane Jib & Cables (*Scharnhorst*)
49. Aircraft Midships Catapult
50. Funnel Inner Plate
51. Aircraft Launch Cradle
52. Forward Boat Crane Jib
53. Aft Elevator AA Gun Platforms
54. Ensign Staff & Aft Boat Boom
55. Transom Crests
56. Mainmast Yardarms (*Scharnhorst*)
57. Forward Boat Booms
58. Forward Bridge Platform Supports
59. Forward Boat Crane Base & Rig
60. Mainmast Yardarms (*Gneisenau*)
61. Main Crane Jibs (*Gneisenau*)

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Unit 5, Cobnash Industrial Estate, Kingsland, Leominster, HR6 9RW, U.K. Tel. 01568 709149 or Fax 01568 709182
E-mail: info@whiteensignmodels.com Website: <http://WhiteEnsignModels.com>

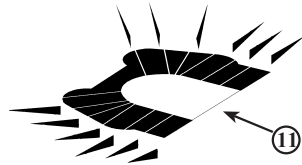
Parts Assembly *Bismarck/Tirpitz*

CATAPULT ASSEMBLY

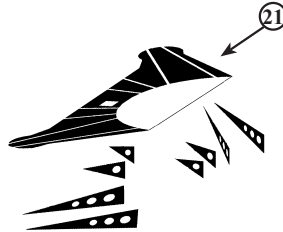


Fold down the sides of the catapult track & assemble as shown above. Fold up the sides of the seaplane cradle so that they are 90° to the base.
NOTE: The catapult of the *Tirpitz* differs in that the end supports are deleted as the deck runs the full width of the ship.
The seaplane cradle is designed to hold an Arado Ar-196.

FUNNEL PLATFORM ASSEMBLY



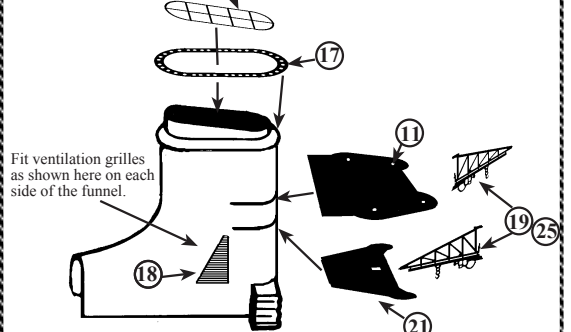
Assemble the two funnel platforms as shown, by fitting the support fillets into the etched slots on the undersides. The correct fillets for the slots are placed adjacent in the fret.



FUNNEL FITTINGS AND PLATFORMS

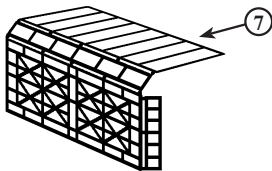
Fit funnel cap grilles to top of funnel first removing the moulded plastic version from the kit parts.
Note that *Tirpitz* is fitted with a different patterned grille.

Fit exhaust pipe enclosure to the ridge around the funnel cap as shown. Exhaust uptakes may be fitted into the holes in this part by using 3mm lengths of plastic rod.



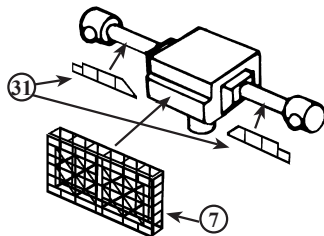
The slot for the upper funnel platform in the kit parts may require filling and recutting before fitting the photo etched part 11.
Measure downwards 4.5mm from the upper platform & cut another slot to take the lower platform.
The AA weapons & seachlights can be fitted to the upper platform as per kit instructions.
Fit the seaplane handling gantries parts 19 (*Bismarck*) or 25 (*Tirpitz*). These gantries are swung forward along the funnel sides when not in use.

FuMo 26 RADAR & DIRECTOR ASSEMBLY



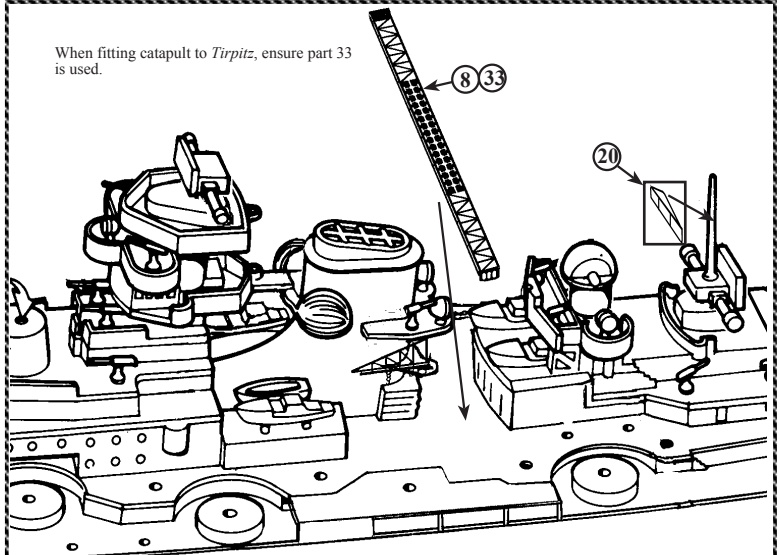
Fold the fadar antenna parts as shown & fit to the director, kit parts 72, 73 & 74. These replace kit parts 69, 70 & 71.

Fit the director arm footbars to the undersides of the director arms as shown.



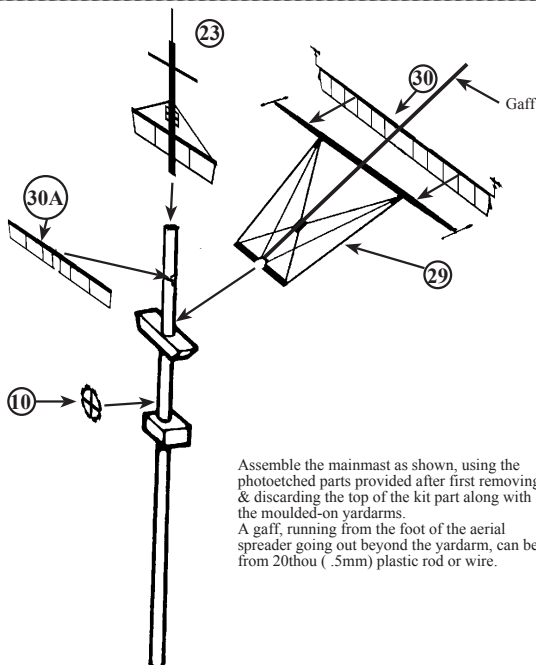
MIDSHIPS CATAPULT LOCATIONS

When fitting catapult to *Tirpitz*, ensure part 33 is used.



When modelling the *Tirpitz*, the catapult area of the battery deck was extended as shown above between the two secondary turrets. The main crane was located in the same place, but raised up by one deck.

MAINMAST ASSEMBLY



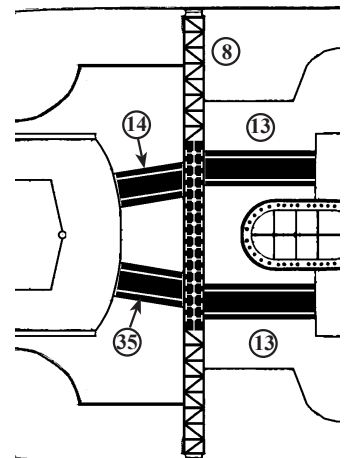
Assemble the mainmast as shown, using the photoetched parts provided after first removing & discarding the top of the kit part along with the moulded-on yardarms.
A gaff, running from the foot of the aerial spreader going out beyond the yardarm, can be from 20thou (.5mm) plastic rod or wire.

FOREMAST YARDS

Replace the top of the kit's foremast.

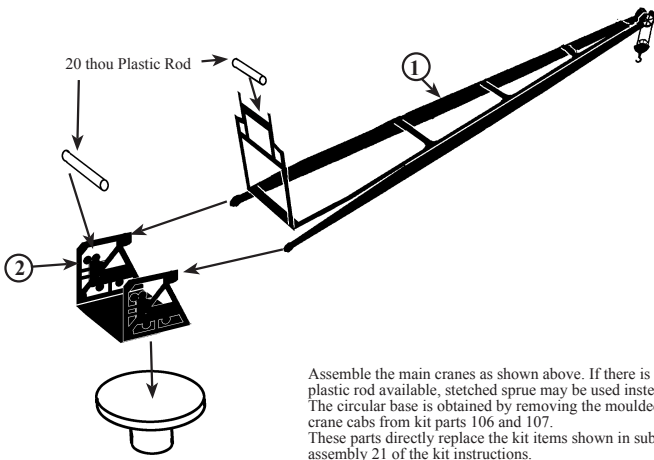


SEAPLANE HANDLING TRACKS

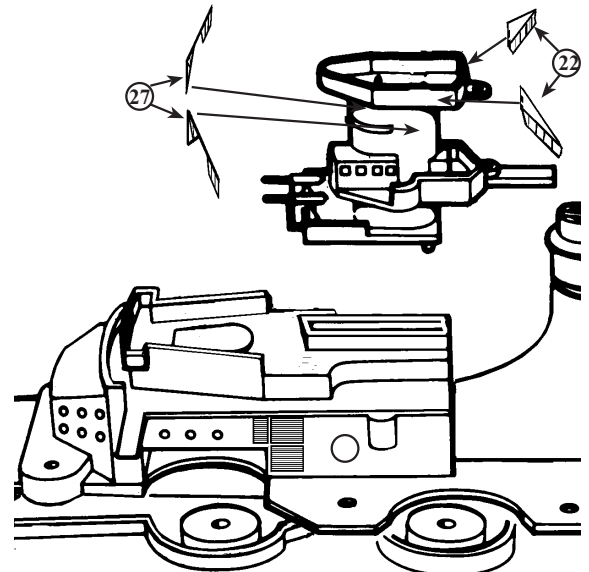


Fit the seaplane cradle tracks to the battery deck so that they are arranged between the hangars & catapult as shown above.

BOAT CRANE ASSEMBLY

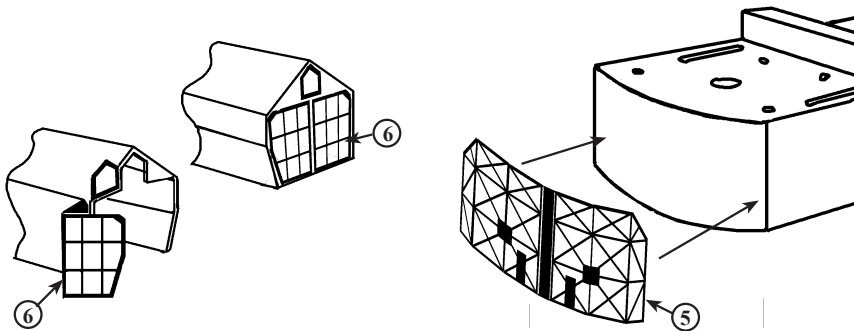


PLATFORM YARDARM LOCATION



HANGAR DOOR ASSEMBLY

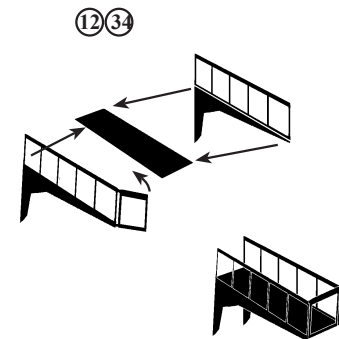
Fit forward hangar doors over the smooth surface on the kit parts 42 & 43. Alternatively, the doors may be modelled in the open position by cutting the top off the photoetched part 6 as shown left & folding the main door back. Cut away the plastic end of the kit part so that it takes the shape shown below, & assemble the door parts thus.



To fit the aft hangar doors to the superstructure, the raised detail must first be removed from the front of kit part 50, to which surface the photoetched part 5 is then applied.

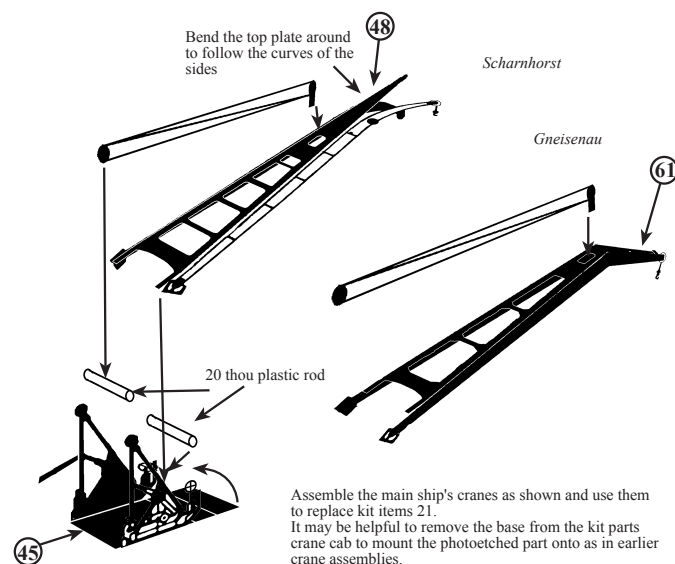
BRIDGE WING ASSEMBLY

Remove the bridge wing extensions from kit part 9 & replace with the assembled photoetched items 12 (*Bismarck*) and 34 (*Tirpitz*)

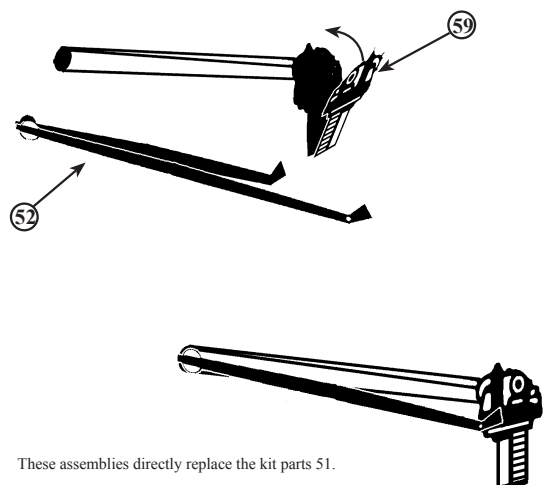


Parts Assembly *Scharnhorst*/*Gneisenau*

MAIN CRANE JIB ASSEMBLY

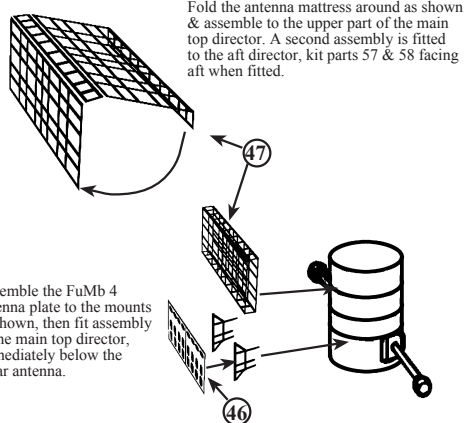


FORWARD BOAT CRANE ASSEMBLY



These assemblies directly replace the kit parts 51.

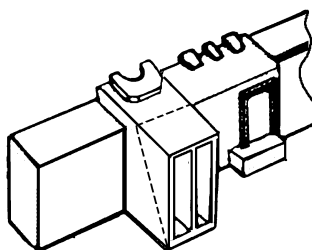
FuMo 26 & FuMb 4 RADAR



Fold the antenna mattress around as shown & assemble to the upper part of the main top director. A second assembly is fitted to the aft director, kit parts 57 & 58 facing aft when fitted.

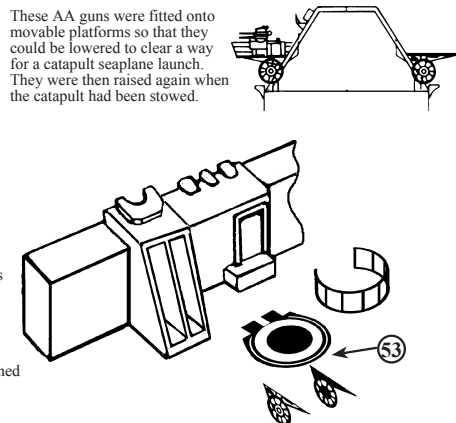
Assemble the FuMb 4 antenna plate to the mounts as shown, then fit assembly to the main top director, immediately below the radar antenna.

AFT AA GUN PLATFORM LAYOUT & ASSEMBLY



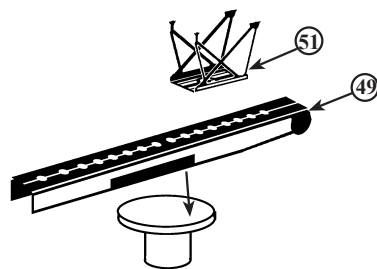
To fit the elevating AA gun mounts correctly, the kit parts 32 and 34 need to be modified by cutting away part of the side extensions at an angle as shown by the dotted line on the above diagram.

The gun platforms can then be fitted to the tracks as shown right. The railing, taken from stock section, is fitted into the etched recess at the edge of the platform. AA guns can be obtained in a separate accessory set from White Ensign Models.



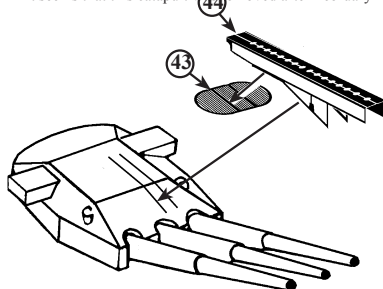
These AA guns were fitted onto movable platforms so that they could be lowered to clear a way for a catapult seaplane launch. They were then raised again when the catapult had been stowed.

CATAPULT ASSEMBLIES

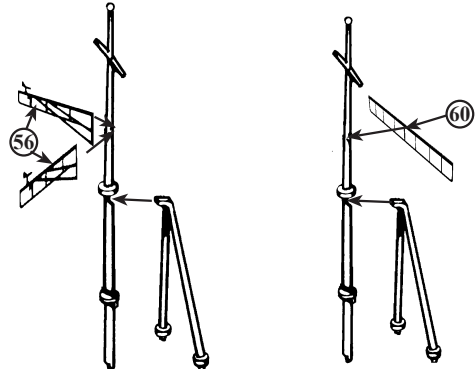


The main midships catapult is assembled using the etched parts 49 and 51 as shown above. The turntable is obtained by cutting away the moulded catapult track from the kit part 31.

The 'C' Turret catapult was fitted to both ships at the outbreak of WW2 but was removed from *Scharnhorst* earlier than *Gneisenau*. It seems that this catapult was removed after February 1940.



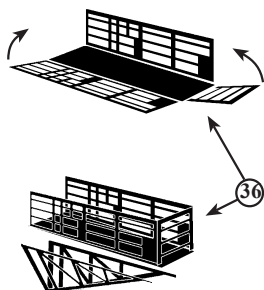
MAINMAST YARDARMS



Scharnhorst

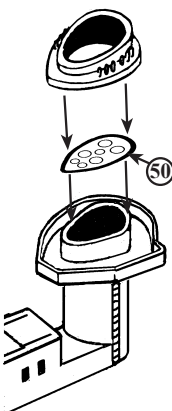
Gneisenau

BRIDGE WING EXTENSIONS



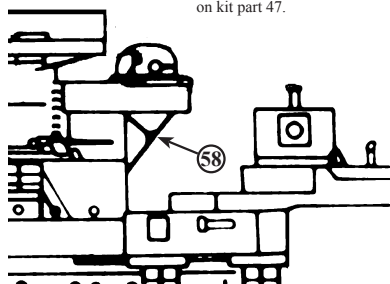
These photoetched parts are designed to replace the moulded items on kit part 44. Fold the railings and fix in place as shown. Fit the supports so the rear one is vertical and near to the rear edge of the platform. These platforms were folded back along the sides of the superstructure when not in use for berthing the ship.

FUNNEL CAP PLATE



Fit the uptake pipe enclosure plate to the top of the funnel as shown, then fit the funnel cap over the top.

FORWARD PLATFORM SUPPORTS



Fit the forward platform supports as shown to the underside of kit part 46, so that the bottoms fit against the bulwark on kit part 47.

General Instructions

1. Do not remove the etched parts from the fret until you are ready to use them.
2. Before assembly, soak the etched parts in a suitable solvent, such as white spirit, to de-grease the surfaces for painting.
3. 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.
4. When removing parts from the fret, place the fret on a hard surface, such as a smooth ceramic tile, in order to prevent parts bending whilst cutting through the holding tabs. We suggest using a #11 type of modelling knife blade for this purpose.
5. 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.
6. If a part is bent incorrectly, lay it on a hard flat surface and roll it flat with a cylindrical object such as a modelling knife handle.
7. We suggest 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.

We hope that you will find this set to your satisfaction and that you enjoy assembling the fittings to the kits.

HAPPY MODELLING
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