## 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. Sbdh 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
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. FuMdB4 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)

## Scharnhorst/Gneisenau Parts List

62. Bridge Wing Platforms
63. Upper Platform Yardarms
64. Cutter Davits
65. Lower Platform Extension Support
66. Funnel Platform Aft Supports
67. Funnel Platform Side Supports
68. Funnel Platform Front Supports
69. Turret Catapult Platform
70. Turret Top Catapult
71. Crane Bases
72. FuMdB4 Antenna
73. FuMo26 Radar Antenna
74. Crane Jib & Cables (Scharnhorst)
75. Aircraft Midships Catapult
76. Funnel Inner Plate
77. Aircraft Launch Cradle
78. Forward Boat Crane Jib
79. Aft Elevator AA Gun Platforms
80. Ensign Staff & Aft Boat Boom
81. Transom Crests
82. Mainmast Yardarms (Gneisenau)
83. Forward Boat Booms
84. Forward Bridge Platform Supports
85. Forward Boat Crane Base & Rig
86. Mainmast Yardarms (Gneisenau)
87. Main Crane Jibs (Gneisenau)
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 90º to the base.

**FuMo 26 RADAR & DIRECTOR ASSEMBLY**

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

**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:* 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.

**FUll ExHAUST PIPE ENCLOSURE**

Fit the 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.

**FUNNEL CAP GRILLE**

Fit ventilation grilles as shown here on each side of the funnel.

**FuMo 26 RADAR & DIRECTOR ASSEMBLY**

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

**MIDSHIPS CATAPULT LOCATIONS**

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

**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 foremost.

**SEAPLANE HANDLING TRACKS**

Fit the seaplane cradle tracks to the battery deck so that they are arranged between the hangars & catapult as shown above.
Assemble the main cranes as shown above. If there is no plastic rod available, etched sprue may be used instead. The circular base is obtained by removing the moulded crane cabs from kit parts 106 and 107. These parts directly replace the kit items shown in subassembly 21 of the kit instructions.

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.

Bend the top plate around to follow the curves of the sides.

Assemble the main ship's cranes as shown and use them to replace kit items 21.

These assemblies directly replace the kit parts 51.
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.

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