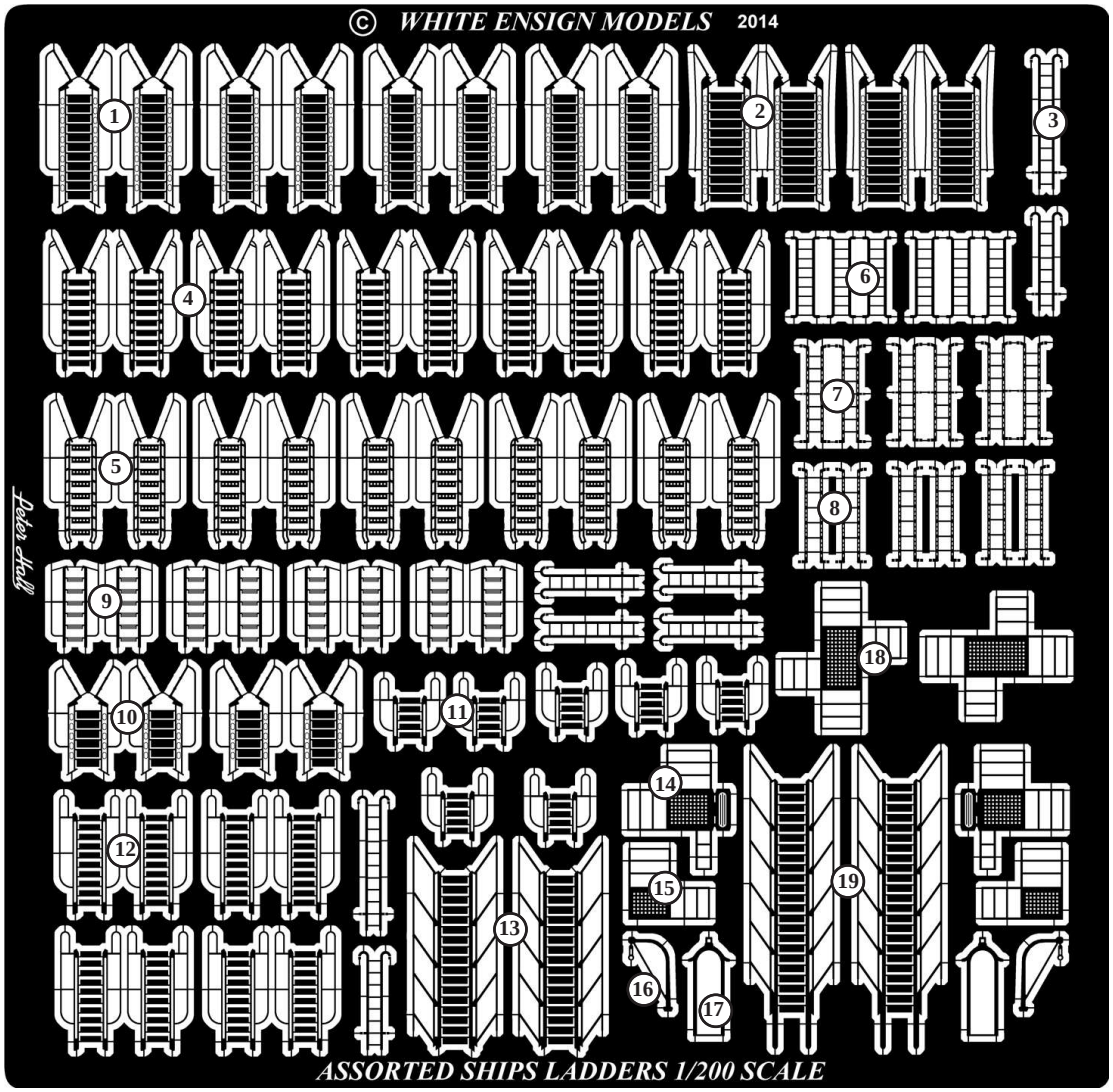
WHITE ENSIGN MODELS

Assorted Ships Ladders

Photoetched Parts for Model Ships in 1/200 scale

PARTS LIST



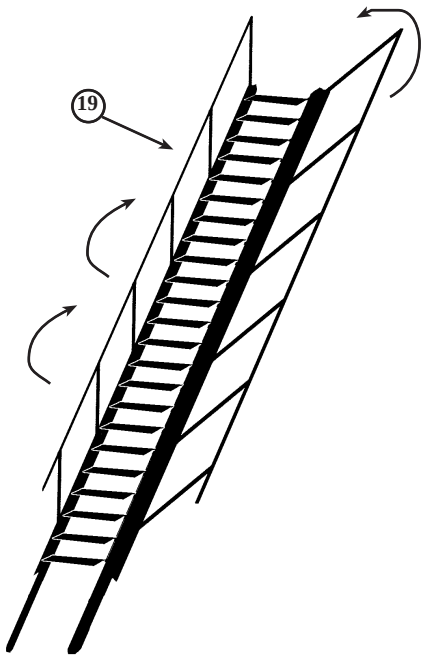
1. Standard Superstructure Ladders, British Pattern
2. Standard Hatchway Ladders, British Pattern
3. Iron Bar Vertical Ladder, Top Over Type
4. Standard Superstructure Ladders, DKM /USN Style
5. Standard Superstructure Ladders, IJN Style
6. Iron Bar Vertical Ladders, Side Fixing
7. Iron Bar Vertical Ladders, IJN Style 1
8. Iron Bar Vertical Ladders, IJN Style 2
9. Standard Hatchway Ladders, IJN Type
10. Short Platform Ladders, British Pattern
11. Short Catwalk Ladders, USN Type
12. Standard Superstructure Ladders, USN Type
13. Accommodation Ladder Section
14. Accommodation Ladder Top Landing
15. Accommodation Ladder Bottom Landing
16. Accommodation Ladder Davit
17. Accommodation Ladder Support Yoke
18. Accommodation Ladder Middle Landing
19. Accommodation Ladder Lower Section

General Instructions for working with Photoetched Metal

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. It is recommended that the entire fret be primed with an acrylic automotive primer, such as Halfords Grey Primer before assembling any of the parts.
3. Cyanoacrylate adhesive (super glue) or contact adhesive such as a white PVA 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 t using a No.10 rounded type of modelling knife blade for this purpose.
5. When shaping or bending a part, a straight edged blade such as a chisel blade will give a good sharp corner. 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.

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

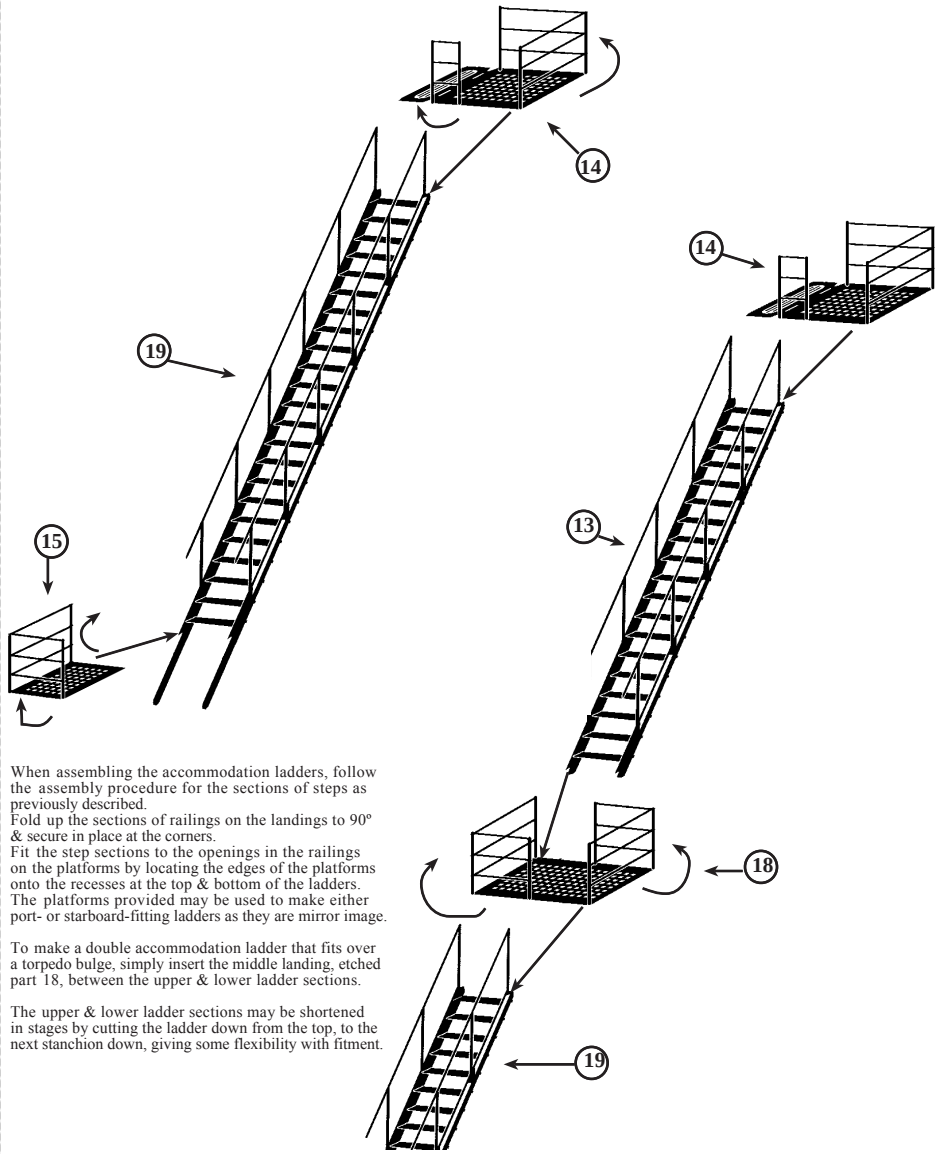
LADDER ASSEMBLY



The assembly of all inclined ladders follows the same method to achieve the initial shape. Remove the complete ladder from the fret & place on a flat surface such as a ceramic tile or glass plate. Hold down the part with a steel rule so that the edge to be folded along the base of the hand rail is just protruding.
Fold up the handrail/side to 90º with a chisel blade, lifting the handrail evenly all the way along.
When this is complete, flip the ladder over so that the opposite handrail is flat on the tile or plate & hold down again with the steel rule, so that the steps are protruding. Fold up to 90º so that the handrails are now parallel.
Using a pair of needle point tweezers, starting at the top, turn each step so that it is placed between the sides at the desired angle.

The diagram above shows the lower section of accommodation ladder, which is assembled in the same way. A broader chisel blade for lifting the fold will help get an even line along the folded edge.

ACCOMMODATION LADDER PLATFORM ATTACHMENT

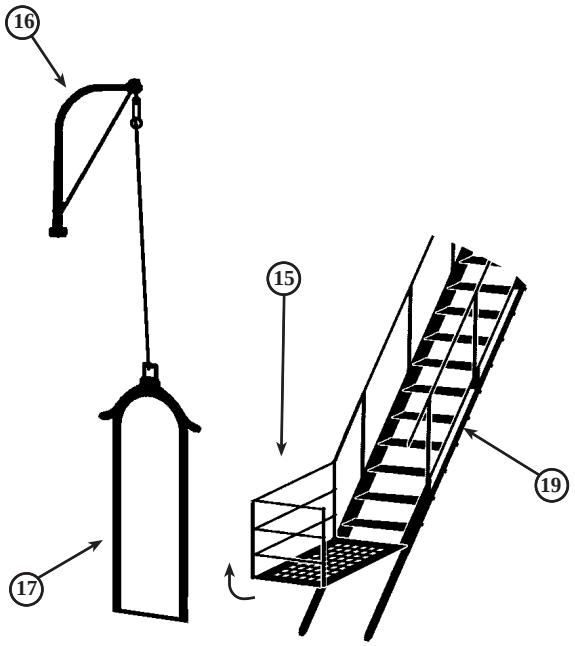


When assembling the accommodation ladders, follow the assembly procedure for the sections of steps as previously described.
Fold up the sections of railings on the landings to 90º & secure in place at the corners.
Fit the step sections to the openings in the railings on the platforms by locating the edges of the platforms onto the recesses at the top & bottom of the ladders.
The platforms provided may be used to make either port- or starboard-fitting ladders as they are mirror image.

To make a double accommodation ladder that fits over a torpedo bulge, simply insert the middle landing, etched part 18, between the upper & lower ladder sections.

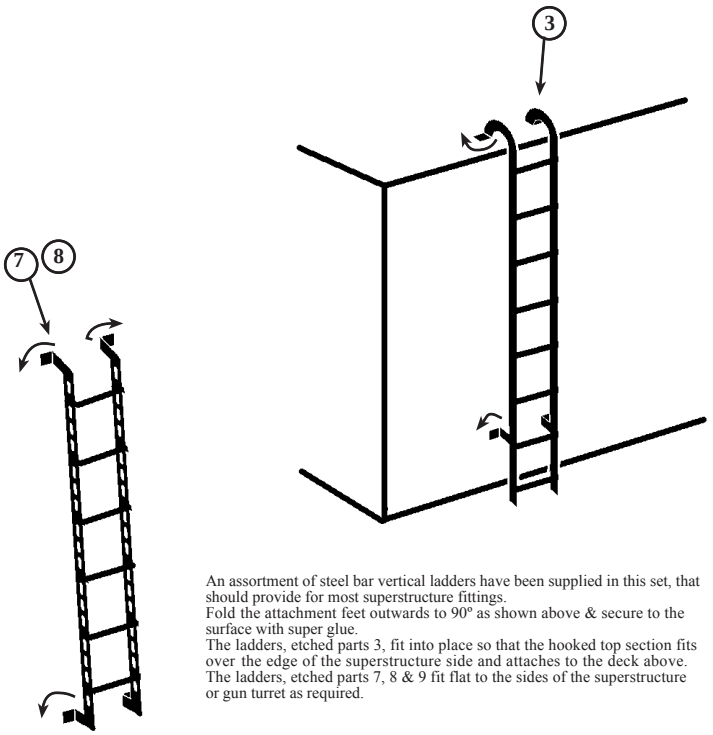
The upper & lower ladder sections may be shortened in stages by cutting the ladder down from the top, to the next stanchion down, giving some flexibility with fitment.

LADDER RIGGING



The accommodation ladders are supported over the ship's side by means of a davit & yoke system in most cases. The yoke, etched part 17, is fitted with the bottom of the legs placed each side of the outer edge of the lower landing as shown above.
Alternatively, on some IJN ships the feet of the yoke fitted across the inner edge on the landing at the base of the steps.
The davit supplied in this set, etched part 16, is of a generic nature & the exact method of deploying the accommodation ladders on individual ships should be researched to be more accurate.

VERTICAL LADDERS



An assortment of steel bar vertical ladders have been supplied in this set, that should provide for most superstructure fittings.
Fold the attachment feet outwards to 90º as shown above & secure to the surface with super glue.
The ladders, etched parts 3, fit into place so that the hooked top section fits over the edge of the superstructure side and attaches to the deck above.
The ladders, etched parts 7, 8 & 9 fit flat to the sides of the superstructure or gun turret as required.