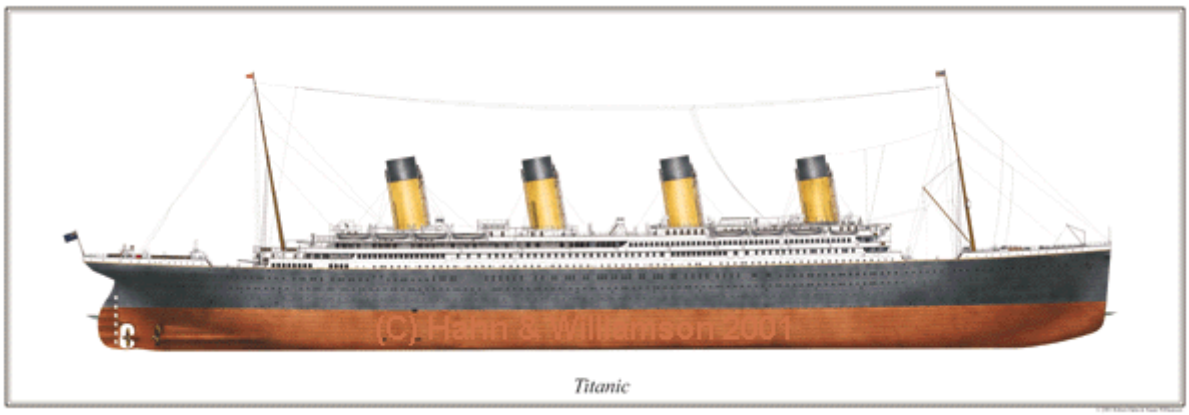
Explanation for the Photo Etch Set of the

Hahn – Reed 1:144 Titanic Semi-Kit



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1. Introduction

Important:

Please read this explanation carefully before you start to work with the set, especially if you have never worked with PE parts before. Cut out only those parts, which you actually need at your model. There are extra parts of many different types of parts in the set to make trials with or to replace lost or damaged parts.

Cutting and Bending the Parts:

To cut out the parts properly is very important. If you don’t do it right, the parts can get damaged easily. You need:

- a fine solder flame,
- a sharp knife or cutter,
- a hard plate, best is to use a glass-plate,
- a small pair of nipper,
- a set of small, fine and sharp files,
- a precise flat-nosed plier &
- a pair of tweezers.

By using a cutter, place the sheet on the glass-plate and cut out the part close to its edge. Remains of the brackets can be removed by using a fine and sharp file. To bend parts, use clean and new flat-nosed pliers and be sure to bring it perpendicular to the bending line. How to bend the stairs is explained further down.

Note, the description does not cover the parts made by Tom Modelworks (benches, deck chairs, rails & bollard plates). These come with an extra explanation.

Lost or Damaged Parts:

If you need replacement parts, please contact me at hahn@titanic-plan.de and specify the required part number. Availability, prices and shipping costs will be confirmed individually.

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2. Content of the Set and Part Description

Use the part-map of chapter 5 to identify the parts of the list.

Sheet A

Part	Description	Total Quantity	Quantity of Extra Parts
A1	Top of dome cover over the grand stair case between funnel 1 and 2	1	---
A2	Top of dome cover over the small stair case between funnel 3 and 4	1	---
A3	Long bow windows at deck house “Officer Quarter” on boat deck and “Private Promenade” on B-deck	20	---
A4a	Mainframe of rectangular windows at deck house “Officer Quarter” on boat deck Note: These windows are not all the same, they are different at the bottom. Use the plans for their correct placement	28	2
A4b	Upper Frames of rectangular windows at deck house “Officer Quarter” on boat deck. Glue these on part A4a.	28	2
A5	Doors with portholes for all decks	34	---
A5s	Narrow door with porthole at deck house “Officer Quarter” on boat deck	1	---
A6	Grating of rear fan trunk at funnel 2	1	---
A7	Grating of rear fan trunk at funnel 1	1	---
A8	Grating of front fan trunk at funnel 1	1	---
A9	Grating of front fan trunk at funnel 2	1	---
A10	Grating of front fan trunk at funnel 3	1	---
A11	Grating of rear fan trunk at funnel 3	1	---
A12	Portholes with bars at rear bulwark on rear well deck (C-deck) above hatch	4	2
A13	Gratings fore and behind funnels (same as part B22)	4	---
A14	Doors without portholes for all decks	43	---
A14s	Narrow door without porthole at deck house “Officer Quarter” on boat deck	1	
A15	Small bow windows with upper part open, for different deck houses and rear bulwark on A-deck	17	3
A16	Bow windows on A-deck and “2nd Class Smoke Room” on B-deck	39	---
A17	Windows on A-deck for “1st Class Lounge”	14	2
A18	Rectangular cabin windows on A-deck	46	2
A19	Simple rectangular windows on B-deck fore	15	1
A20	Complex bow windows of “Veranda and Palm Court” on A-deck	8	---

A21	Sliding doors of “Veranda and Palm Court” on A-deck	4	---
A22	Pair of windows of “Café Parisian” at B-deck	3	---
A23	Subdivided rectangular windows with bigger middle part of “2nd Class Smoke Room” at B-deck	27	1
A24	Even subdivided rectangular windows of “2nd Class Library” at C-deck	13	1
A25	Gratings at fore bulwark on rear well deck (C-deck)	4	---
A26	Small bow windows of “Café Parisian” on B-deck (see also part B63)	2	---
A27	Door grating at fore bulwark on B-deck	2	1
A28	Ladders at fore bulkhead on fore well deck	2	---
A29	Big rectangular windows of “1st Class Smoke Room and lounge” on A-Deck	25	1
A30a	Big subdivided rectangular windows of “1st Reading and Writing Room “ on A-deck	2	---
A30b	Big subdivided rectangular windows of “1st Reading and Writing Room“ on A-deck	2	---
A30c	Big subdivided rectangular windows of “1st Reading and Writing Room“ on A-deck	1	---
A31a	Upper part of part A30a on Boat deck	2	---
A31b	Upper part of part A30b on Boat deck	2	---
A31c	Upper part of part A30c on Boat deck	1	---
A32	Ladders at rear part of A-deck	2	---
A33	Gratings at rear bulwark on A-deck of “Veranda and Palm Court”	2	---
A34	Walls of skylights on roof of deck house “Officer Quarter”	4	2
A35	Top of skylights on roof of deck house “Officer Quarter”	3	1
A36	Big portholes at fore bulwark of dome cover on roof of deck house “officer quart”	4	2
A37	Ladder at deck house “Officer Quarter” at rear wall to raised roof	1	---
A38	Sidelights at deck house “Officer Quarter”	16	2
A39a	Ladder at deck house “Officer Quarter” near 1st Class Entrance	2	---
A39b	Ladder at deck house “Officer Quarter” near Bridge	2	---
A39c	Ladders at deck house “Tank House”	2	
A40	Simple rectangular windows of angled wall on A-deck fore	3	1
A41	Simple rectangular front windows of “Wheel House” and “Bridge”	15	1
A42	Simple rectangular side windows of “Wheel House”	2	---
A43	Simple rectangular side windows of “Bridge”	2	---

A44	Small bow windows with upper part closed of “Private Promenade” on B-deck	13	1
A45	Grating at the rear wall of the deck house “Tank House” on boat deck	1	---

Sheet B

Part	Description	Total Quantity	Quantity of Extra Parts
B1	Bow windows of deck house “2nd Class Entrance” on boat deck	8	1
B2	Rectangular grating of vent intake at deck house “2nd Class Entrance” on boat deck	2	---
B3	Portholes at side walls of elevator housing on deck house “2nd Class Entrance” on boat deck	2	---
B4	Doors with portholes of deck house “2nd Class Entrance” on boat deck	2	--
B5	Doors without portholes for crane bases	8	---
B6	Top of skylight on forecastle	1	---
B7	Hatch-windows of top of skylight on forecastle	4	----
B8	Side walls of skylight on forecastle	2	1
B9	Hand wheels for steam valves on forecastle and poop deck	21	11
B10	Big portholes in the hull at the high of C and D-deck	192	---
B11	Grating at main anchor on forecastle	1	---
B12	Side gratings at main anchor on forecastle	2	---
B13	Doors of “Fourth Funnel Deck House” on boat deck	5	---
B13a	Doors with bars of “Fourth Funnel Deck House” on boat deck	1	---
B14	Bow windows of “Raised Roof over 1st Class Lounge” on boat deck	16	---
B15	Rectangular windows of “Fourth Funnel Deck House” on boat deck	6	2
B15a	Rectangular vent opening in starboard wall of “Fourth Funnel Deck House” on boat deck	1	---
B16	Lid for rectangular vent opening in starboard wall of “Fourth Funnel Deck House” on boat deck	8	---
B17	Sides of rollers at the end of the crane beams (2 for each crane)	24	8
B18	Inner part of rollers at the end of the crane beams (2 for each crane)	16	---
B19	Closed bow windows at “Raised Roof over 1st Class Lounge” on boat deck	12	4
B20	Closed edged windows at “Raised Roof over 1st Class Lounge” on boat deck	14	2

B21	Crane platforms	8	---
B22	Gratings fore and behind funnels (same as part A13)	8	---
B23	Railing at crane platforms	8	---
B24	Leadsman platform outside the hull fore on A-deck	2	---
B25	Portholes for doors with portholes and part B29	96	37
B26-1	Ladder at funnel 1	1	---
B26-2	Ladder at funnel 2	1	---
B26-3	Ladder at funnel 3	1	---
B26-4	Ladder at funnel 4	1	---
B27	Platforms at funnels	5	1
B28	Brackets over platform at funnels to support the steam pipe	12	4
B29	Hatch covers for engine casing opening at “Tank House” on boat deck	8	---
B30	Ladders at cranes bases	10	2
B31	Ladder at fore mast near the top	2	---
B32	Crane beams of the small 1.5 tons cranes on A-deck	4	---
B33	Crane beams of the big 2.5 tons cranes	12	---
B34	Brackets to support the platforms at the cranes	16	---
B35	Big ladder at rear mast	1	---
B36	Ladder at elevator house on deck house “2nd Class Entrance”	4	3
B37	Ladders at deck house “Fourth Funnel”	3	---
B38	Steering wheels	3	1
B39	Propeller spanner at rear bulwark on rear well deck, portside (2 pieces to be glued together)	2	---
B40	Propeller spanner at rear bulwark on rear well deck, starboard side (2 pieces to be glued together)	2	---
B41	Ladders at rear part of B-deck	2	---
B42	Triangle supports for coaling manoeuvre outside the hull at the high of A-deck	20	2
B43	Stairs to compass tower on boat deck	1	---
B44	Stairs to poop deck	2	---
B45	Stairs from rear well deck to B-deck	2	---
B46	Stairs from fore well deck to forecastle	2	---

B48	Stairs from fore well deck to B-deck	1	---
B49	Stairs to docking Bridge on poop deck	1	---
B50	Stairs from A to B-deck at fore section of the superstructure	2	---
B51	Stairs from A to boat deck at fore section of the superstructure	2	---
B52	Stairs at raised roofs on boat deck	8	---
B53	Vent grating of vent #34	1	---
B54	Vent grating of vent #10	1	---
B55	Vent grating of vent #10	1	---
B56	Vent grating of vent #9	1	---
B57	Vent grating of vent #7	1	---
B58	Vent grating of vent #17	1	---
B59	Vent grating of vent #25	1	---
B60	Vent grating of vent #26	1	---
B61	Portholes at rear bulwark on fore well deck	10	4
B62	Doors without portholes for various decks	10	
B63	Small bow windows of “Café Parisian” on B-deck (see also part A26)	2	---

***Part B47 does not exist!**

Sheet C

Part	Description	Total Quantity	Quantity of Extra Parts
C1	Rat lines at front mast	2	---
C2	Rat lines at rear mast	2	---
C3	Base plates of double acting Welin davits	15	3
C4	Vertical middle plate of double acting Welin davits	15	3
C5	Vertical middle plate of single acting Welin davits	10	2
C6	Hand wheels for anchor chain capstans	2	---
C7	Brass top plate of rolls on rollers	50	26
C8	Top plate of double acting Welin davits	16	4
C9	Inner side plate of double acting Welin davits	15	3
C10	Inner side plate of single acting Welin davits	10	2
C11	Outer side plate of single acting Welin davits	10	2

C12	Outer side plate of double acting Welin davits	15	3
C13	Cable roll of Welin davits at inner side plate	64	20
C14	Base plates of single acting Welin davits	10	2
C15	Plate for single acting Welin davits	10	2
C16	Plate for double acting Welin davits	17	5
C17	Plate for single acting Welin davits	10	2
C18	Plate at tooth circle at davit arm	37	5
C19	Oar for open 25’ life boats	16	---
C20	Vent grating for vent # 43	2	1
C21	Vent grating for vent # 1, 31, 40, 45	12	8
C22a	Vent grating for vent # 11,13,19,23,28,37,44	11	4
C22b	Vent grating for vent # 12,15,18,20,21,22,33b,33s,36,39,47	12	1
C23	Walls on compass platform	2	1
C24	Breakwater on forecastle	2	---
C25	Zick-Zack structure for big cranes on Poopdeck and the Well decks	6	---
C26	Zick-Zack structure for small cranes on A-deck	3	1
C27	Rope-line at 30’ lifeboats	28	2
C28	Rope-line at Engelhard lifeboats	8	---
C29	Crows nest platform	1	---
C30	Crows nest front plate	1	---
C31	Compass tower frame	1	---
C32	Door frame for mast opening at crows nest	2	1
C33	Little skylights behind bridge at vent #8	2	1
C34	Upper crane beam clamp for crane post on Poop-, A- & rear Well deck	7	1
C35	Lower crane beam clamp for crane post on Poop-, A- & rear Well deck	6	---
C36	Connection beam for crane posts on poop deck	3	1
C37	Upper crane beam clamp for crane post on fore Well deck	3	1

Sheet D

Part	Description	Total Quantity	Quantity of Extra Parts
D1	Welin davit arms	35	3
D2	Lifeboat shocks for 30’ lifeboats	66	2
D3	Bending template for welin davit arms	2	---
D4	Lifeboat shocks for Engelhard collapsible	16	---
D5	Windows on A-deck for the angled walls of the alcoves for the smoke room	9	1
D6	Top plate of 4th funnel	1	---
D7	Venting plates for top plate part D6	2	---
D8	Lower plate for compass tower	1	---
D9	Upper plate for compass tower	1	---
D10	Gangway doors for hull	2	---
D11	Web plate for fore Well deck	2	---
D12	Upper plate for steam pipe housing on Forecastle	1	---
D13	Lower plates for steam pipe housing on Forecastle	2	---
D14	Crane post for cranes on rear Well deck and A-Deck	4	---
D15	Crane post for cranes on fore Well deck	2	---
D16	Crane post for cranes on Poopdeck	2	---
D17	Lower plates for steam pipe housing on Forecastle	2	---
D18	Lower plates for steam pipe housing on Forecastle	2	---

3. Classification of the Parts to the different Areas of the Ship

The following text tells you which parts of the set you need for the different sections of the ship. Use the *Hahn's Titanic Plans* for reference.

Forecastle

Part	Description	Amount of Parts you need
B6	Top of skylight on forecastle	1
B7	Hatch-windows of top of skylight on forecastle	4
B8	Side walls of skylight on forecastle	1
B9	Hand wheels for steam valves on forecastle and poop deck	4
B11	Grating at main anchor on forecastle	1
B12	Side gratings at main anchor on forecastle	2
C24	Breakwater on forecastle	2
C7	Brass top plate of rolls on rollers	12
D12	Upper plate for steam pipe housing on Forecastle	1
D13	Lower plates for steam pipe housing on Forecastle	2
D17	Lower plates for steam pipe housing on Forecastle	2
D18	Lower plates for steam pipe housing on Forecastle	2

Fore Well-Deck (C-Deck)

Part	Description	Amount of Parts you need
B46	Stairs from fore well deck to forecastle	2
B48	Stairs from fore well deck to B-deck	1
B61	Portholes at rear bulwark on fore well deck	6
A28	Ladders at fore bulkhead on fore well deck	2
A14	Doors without portholes for all decks	9
D15	Crane post for cranes on fore Well deck	2
C1	Rat lines at front mast	2
C25	Zick-Zack structure for big cranes on Poopdeck and the Well decks	2
C37	Upper crane beam clamp for crane post on fore Well deck	2
D11	Web plate for fore Well deck	2

B-Deck

Part	Description	Amount of Parts you need
A27	Door grating at fore bulwark on B-deck	1
A19	Simple rectangular windows on B-deck fore	14
A5	Doors with portholes for all decks	21
B25	Portholes for doors with portholes	21
A14	Doors without portholes for all decks	3
B50	Stairs from A to B-deck at fore section of the superstructure	2
A44	Small bow windows with upper part closed of “Private Promenade” on B-deck	12
A3	Long bow windows at deck house “Officer Quarter” on boat deck and “Private Promenade” on B-deck	2
A26 / B63	Small bow windows of “Café Parisian” on B-deck	4
A22	Pair of windows of “Café Parisian” at B-deck	3
A23	Subdivided rectangular windows with bigger middle part of “2nd Class Smoke Room” at B-deck	26
A16	Bow windows on A-deck and “2nd Class Smoke Room” on B-deck	2
B41	Ladders at rear part of B-deck	2

A-Deck

Part	Description	Amount of Parts you need
A5	Doors with portholes for all decks	8
B25	Portholes for doors with portholes	8
A14	Doors without portholes for all decks	10
A18	Rectangular cabin windows on A-deck	44
A16	Bow windows on A-deck and “2nd Class Smoke Room” on B-deck	37
A30a	Big subdivided rectangular windows of “1st Reading and Writing Room “ on A-deck	2
A30b	Big subdivided rectangular windows of “1st Reading and Writing Room “ on A-deck	2
A30c	Big subdivided rectangular windows of “1st Reading and Writing Room “ on A-deck	1
A31a	Upper part of part A30a on Boat deck	2
A31b	Upper part of part A30b on Boat deck	2
A31c	Upper part of part A30c on Boat deck	1

A40	Simple rectangular windows of angled wall on A-deck fore	2
A17	Windows on A-deck for "1st Class Lounge"	12
A29	Big rectangular windows of "1st Class Smoke Room and lounge" on A-Deck	16
A20	Complex bow windows of "Veranda and Palm Court" on A-deck	8
A21	Sliding doors of "Veranda and Palm Court" on A-deck	4
A15	Small bow windows with upper part open, for different deck houses and rear bulwark on A-deck	2
A33	Gratings at rear bulwark on A-deck of "Veranda and Palm Court"	2
A32	Ladders at rear part of A-deck	2
B51	Stairs from A to boat deck at fore section of the superstructure	2
D5	Windows on A-deck for the angled walls of the alcoves for the smoke room	8
D14	Crane post for cranes on rear Well deck and A-Deck	2
C34	Upper crane beam clamp for crane post on Poop-, A- & rear Well deck	2
C35	Lower crane beam clamp for crane post on Poop-, A- & rear Well deck	2
C26	Zick-Zack structure for small cranes on A-deck	2

Boat Deck

Welin Davits

Building the davits is easier as you might think, but I advise you to follow the instructions carefully. I recommend soldering instead of gluing here. Soldering has many advantages. First it creates a stronger joint, which also lasts longer. Second you can easily correct any joint by simply heating up the parts again and if you do not use much of the tin it trickles away into the caps and doesn't leave any residue. For that make sure the parts do not get to hot. Also use very thin tin and a solder flame instead of a soldering iron.

Welin Davit with double arms

You start by soldering part C4 to the base plate C3. Next solder part C12 and C9 to the right ends of the base plate C3. Next cut out C8 and bend it so that it fits perfect between C12 and C9. Do not solder it yet.

Cut off four pieces of wire. To straighten the wire take the hole piece between two pairs of nipper and pull both ends. The pieces you cut of shouldn't be longer as 15 mm. Push all four wires through the little holes in part C12, C9 and C8. Now solder all parts together. Solder part C16 on top of part C8. Take two times two parts of C13 and solder them to each end of part C9. For better understanding see **figure 1**.

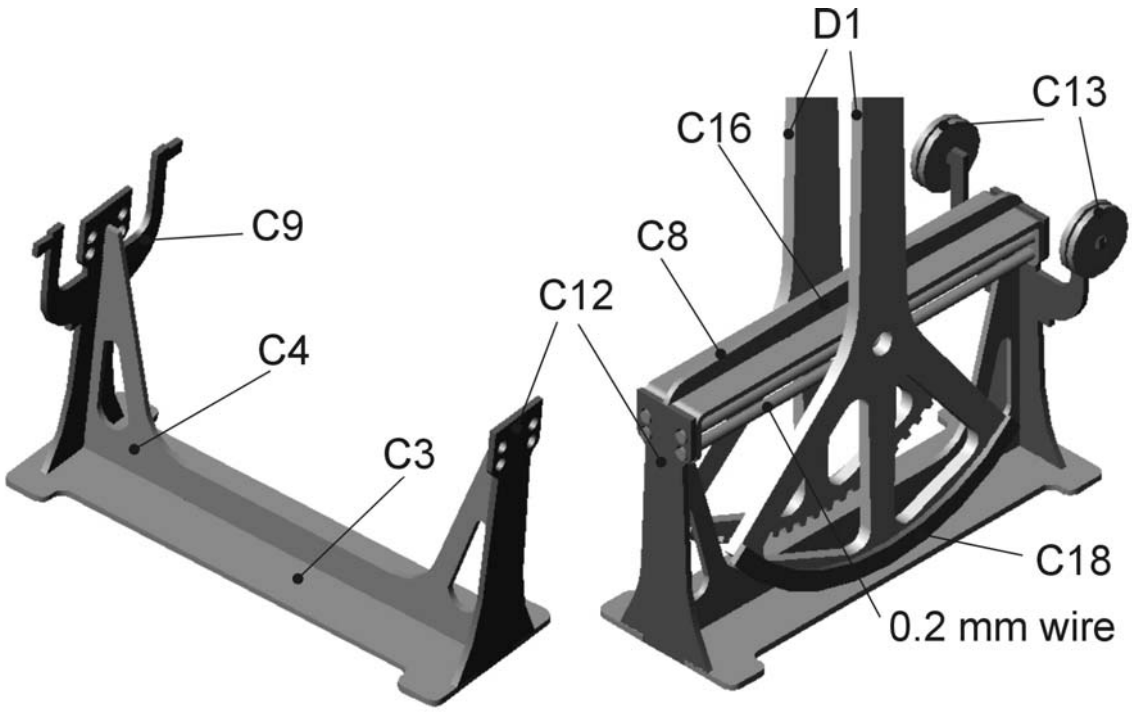


Figure 1: Part explanation for Welin Davits with double arms

Welin Davit with single arm

NOTE: there are two different types of these davits, which are mirrored to each other. Check the Hahn plans for the correct orientation.

The davit also starts by soldering part C5 to the base plate C14. Then solder part C11 and C10 to the correct ends of the base plate C14 and check for their correct orientation.

Cut out part C17 and bend it so that it fits between C11 and C10. Do not solder it yet. Cut off four pieces of wire. To straighten the wire take the hole piece between two pairs of nipper and pull both ends. The pieces you cut of shouldn't be longer as 15 mm. Push the wire through the whole and solder all parts together. Last glue part C15 to the side.

Take two parts of C13 and solder them to part C10. For better understanding see **figure 2**.

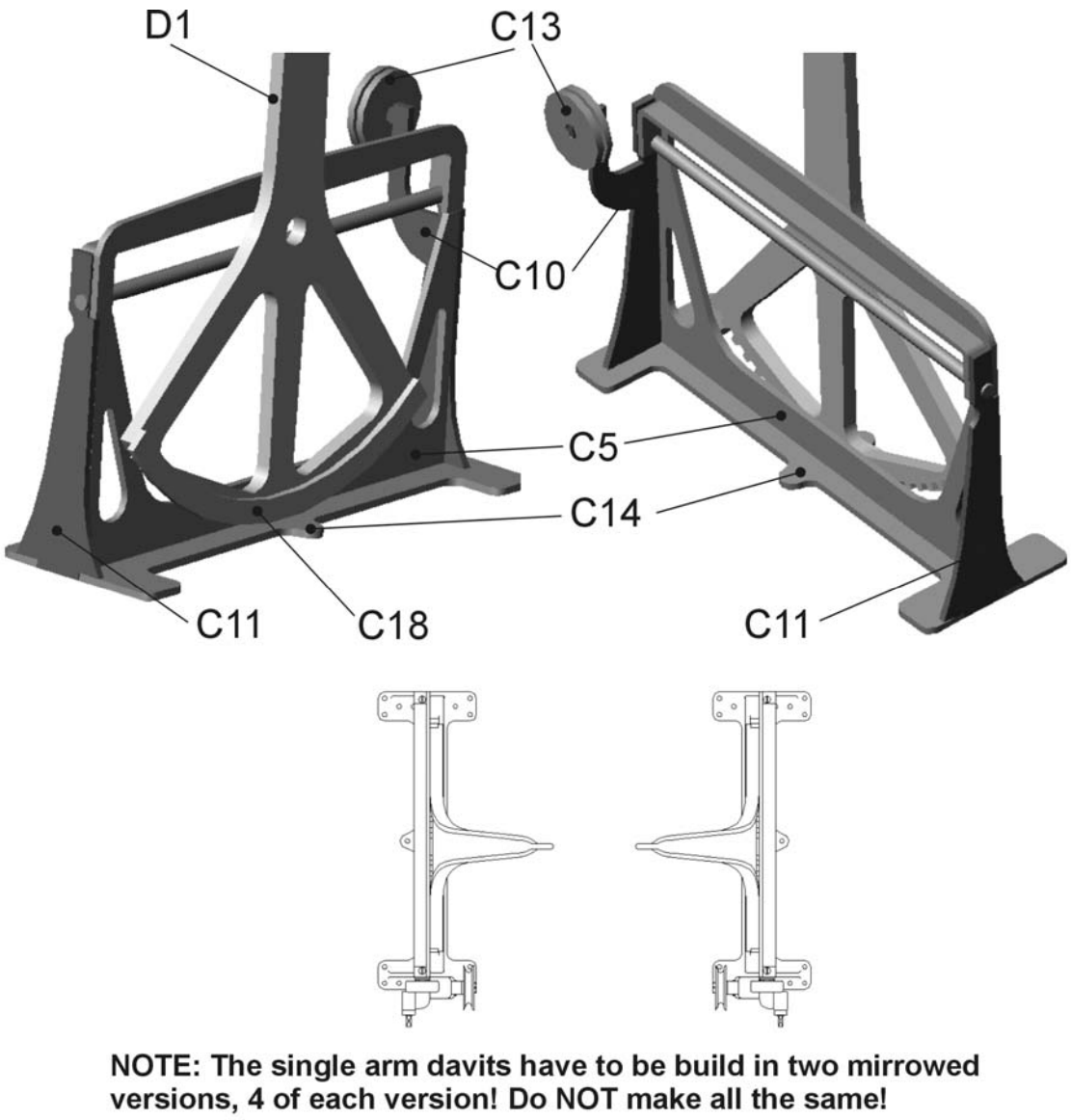


Figure 2: Part explanation for Welin Davits with single arm

The Welin Davit arms

Cut out the arms (part D1) and bend them with the assistance of the bending template D3. Solder part C18 to the arm over the row of teeth. The ready assembled davit arms will be glued (I would solder these as well!) to the davit basements.

Officer Quarter

Part	Description	Amount of Parts you need
A5	Doors with portholes for all decks	5
B25	Portholes for doors with portholes	5
A5s	Small door with porthole at deck house “Officer Quarter” on boat deck	1
A14s	Narrow door without porthole at deck house “Officer Quarter” on boat deck	1
A4a	Mainframe of rectangular windows at deck house “Officer Quarter” on boat deck Note: These windows are not all the same; they are different at the bottom. Use the plans for their correct placement	26
A4b	Upper Frames of rectangular windows at deck house “Officer Quarter” on boat deck. Glue these on part A4a.	26
A38	Sidelights at deck house “Officer Quarter”	14
A41	Simple rectangular front windows of “Wheel House” and “Bridge”	14
A42	Simple rectangular side windows of “Wheel House”	2
A43	Simple rectangular side windows of “Bridge”	2
A3	Long bow windows at d. house “Officer Quarter” on boat d. and “Private Promenade” on B-deck	18
A6	Grating of rear fan trunk at funnel 2	1
A7	Grating of rear fan trunk at funnel 1	1
A8	Grating of front fan trunk at funnel 1	1
A9	Grating of front fan trunk at funnel 2	1
A1	Top of dome cover over the grand stair case between funnel 1 and 2	1
A34	Walls of skylights on roof of deck house “Officer Quarter”	2
A35	Top of skylights on roof of deck house “Officer Quarter”	2
A13	Gratings fore and behind funnels	4
B22	Gratings fore and behind funnels)	4
A36	Big portholes at fore bulwark of dome cover on roof of deck house “Officer Quarter”	2
A37	Ladder at deck house “Officer Quarter” at rear wall to raised roof	1

A39a	Ladder at deck house “Officer Quarter” near 1st Class Entrance	2
A39b	Ladder at deck house “Officer Quarter” near bridge	2
B38	Steering wheels	2
C33	Little skylights behind bridge at vent #8	2
D4	Lifeboat shocks for Engelhard collapsible	8

Raised Roof over 1st Class Lounge

Part	Description	Amount of Parts you need
B52	Stairs at raised roofs on boat deck	4
B43	Stairs to compass tower on boat deck	1
B19	Closed bow windows at “Raised Roof over 1st Class Lounge” on boat deck	8
B20	Closed edged windows at “Raised Roof over 1st Class Lounge” on boat deck	12
C23	Walls on compass platform	2
C31	Compass tower frame	1
D8	Lower plate for compass tower	1
D9	Upper plate for compass tower	1

Building the Compass Tower

Building the compass tower starts with cutting out part C31. Bend the four sides along the bending lines. Glue or solder the open ends together. Next is to glue or solder part D8 on D9. Be sure that both are perfect cantered. Then glue or solder D8/9 to part C31 and make sure D8 looks downward. C31 should fit perfect around part D8. Solder both together.

Next, cut out part C23 and bend it along the bending lines to a square. Place it around part D9 and solder it to the other parts.



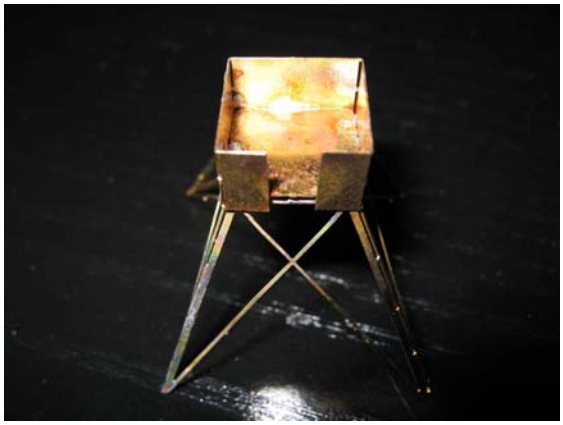


Figure 3: Compass Tower during construction

3rd Funnel Deck House

Part	Description	Amount of Parts you need
B22	Gratings fore and behind funnels)	4
A14	Doors without portholes for all decks	8
A15	Small bow windows with upper part open, for different deck houses and rear bulwark on A-deck	4
A10	Grating of front fan trunk at funnel 3	1
A11	Grating of rear fan trunk at funnel 3	1

Tank House

Part	Description	Amount of Parts you need
A2	Top of dome cover over the small stair case between funnel 3 and 4	1
B29	Hatch covers for engine casing opening at “Tank House” on boat deck	8
A14	Doors without portholes for all decks	3
A15	Small bow windows with upper part open, for different deck houses and rear bulwark on A-deck	8
A45	Grating at the rear wall of the deck house “Tank House” on boat deck	1
A39c	Ladders at deck house “Tank House”	2

4th Funnel Deck House and Raised Roof over 1st Class Smoke Room

Part	Description	Amount of Parts you need
B52	Stairs at raised roofs on boat deck	4
B13	Doors of “Fourth Funnel Deck House” on boat deck	5
B13a	Doors with bars of “Fourth Funnel Deck House” on boat deck	1
B14	Bow windows of “Raised Roof over 1st Class Lounge” on boat deck	16
B15	Rectangular windows of “Fourth Funnel Deck House” on boat deck	4
B15a	Rectangular vent opening in starboard wall of “Fourth Funnel Deck House” on boat deck	1
B16	Lid for rectangular vent opening in starboard wall of “Fourth Funnel Deck House” on boat deck	8
B37	Ladders at “Fourth Funnel Deck House”	3

2nd Class Entrance

Part	Description	Amount of Parts you need
B1	Bow windows of deck house "2nd Class Entrance" on boat deck	1
B2	Rectangular grating of vent intake at deck house "2nd Class Entrance" on boat deck	2
B3	Portholes at side walls of elevator housing on deck house "2nd Class Entrance" on boat deck	2
B4	Doors with portholes of deck house "2nd Class Entrance" on boat deck	2
B5	Doors without portholes of deck house "2nd Class Entrance" on boat deck	2
B36	Ladder at elevator house on deck house "2nd Class Entrance"	1

Rear Well-Deck (C-Deck)

Part	Description	Amount of Parts you need
B44	Stairs to poop deck	2
B45	Stairs from rear well deck to B-deck	2
B39	Propeller spanner at rear bulwark on rear well deck, portside (2 pieces to be glued together)	2
B40	Propeller spanner at rear bulwark on rear well deck, starboard side (2 pieces to be glued together)	2
A12	Portholes with bars at rear bulwark on rear well deck (C-deck) above hatch	2
A25	Gratings at fore bulwark on rear well deck (C-deck)	4
A14 / B62	Doors without portholes for all decks	20
A24	Even subdivided rectangular windows of "2nd Class Library" at C-deck	6
C25	Zick-Zack structure for big cranes on Poopdeck and the Well decks	2
C34	Upper crane beam clamp for crane post on Poop-, A- & rear Well deck	2
C35	Lower crane beam clamp for crane post on Poop-, A- & rear Well deck	2
D14	Crane post for cranes on rear Well deck and A-Deck	2

Poop Deck

Part	Description	Amount of Parts you need
B38	Steering wheels	1
B49	Stairs to docking Bridge on poop deck	1
C7	Brass top plate of rolls on rollers	12
C25	Zick-Zack structure for big cranes on Poopdeck and the Well decks	2
C34	Upper crane beam clamp for crane post on Poop-, A- & rear Well deck	2
C35	Lower crane beam clamp for crane post on Poop-, A- & rear Well deck	2
C36	Connection beam for crane posts on poop deck	2
D16	Crane post for cranes on Poopdeck	2

Hull Details on Shell Plating

Part	Description	Amount of Parts you need
B10	Big portholes in the hull at the high of C and D-deck	192
B42	Triangle supports for coaling manoeuvre outside the hull at the high of A-deck	18
B24	Leadsman platform outside the hull fore on A-deck	2
D10	Gangway doors for hull	2

Funnels

Part	Description	Amount of Parts you need
B27	Platforms at funnels	4
B28	Brackets over platform at funnels to support the steam pipe	8
B26-1	Ladder at funnel 1	1
B26-2	Ladder at funnel 2	1
B26-3	Ladder at funnel 3	1
B26-4	Ladder at funnel 4	1
D6	Top plate of 4th funnel	1
D7	Venting plates for top plate part D6	2

Be sure you cut the funnel ladders at the right point and use them for the correct funnel, **figure 4**.

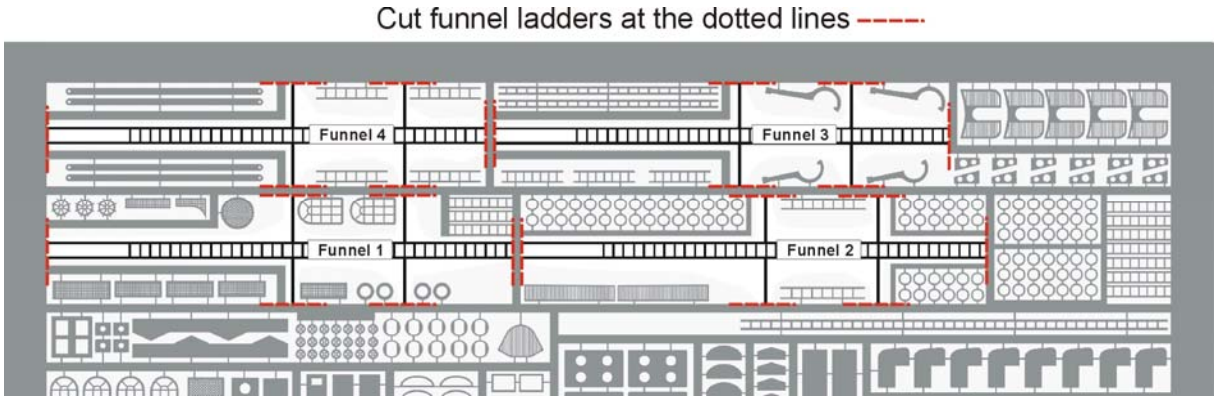


Figure 4: Cutting the funnel ladders

Masts

Part	Description	Amount of Parts you need
B31	Ladder at fore mast near the top	2
B35	Big ladder at rear mast	1
C32	Door frame for mast opening at crows nest	2
C29	Crows nest platform	1
C30	Crows nest front plate	1

Cranes

Part	Description	Amount of Parts you need
B21	Crane platforms	8
B23	Railing at crane platforms	8
B17	Sides of rollers at the end of the crane beams (2 for each crane)	16
B34	Brackets to support the platforms at the cranes	16
B18	Inner part of rollers at the end of the crane beams (2 for each crane)	16
B30	Ladders at cranes bases	8
B32	Crane beams of the small 1.5 tons cranes on A-deck	4
B33	Crane beams of the big 2.5 tons cranes	12
B5	Doors without portholes for crane bases	8
D14	Crane post for cranes on rear Well deck and A-Deck	4
D15	Crane post for cranes on fore Well deck	2
C25	Zick-Zack structure for big cranes on Poopdeck and the Well decks	6
C26	Zick-Zack structure for small cranes on A-deck	3
C34	Upper crane beam clamp for crane post on Poop-, A- & rear Well deck	7
C35	Lower crane beam clamp for crane post on Poop-, A- & rear Well deck	6
C36	Connection beam for crane posts on poop deck	3

Ventilator Detail

Part	Description	Amount of Parts you need
B53	Vent grating of vent #34	1
B54	Vent grating of vent #10	1
B55	Vent grating of vent #10	1
B56	Vent grating of vent #9	1
B57	Vent grating of vent #7	1
B58	Vent grating of vent #17	1
B59	Vent grating of vent #25	1
B60	Vent grating of vent #26	1
C20	Vent grating for vent # 43	1

C21	Vent grating for vent # 1, 31, 40, 45	4
C22a	Vent grating for vent # 11,13,19,23,28,37,44	7
C22b	Vent grating for vent # 12,15,18,20,21,22,33b,33s,36,39,47	11

Lifeboat detail

Part	Description	Amount of Parts you need
C27	Rope-line at 30’ lifeboats	28
C28	Rope-line at Engelhard lifeboats	8
C19	Oar for open 25’ life boats	16
D2	Lifeboat shocks for 30’ lifeboats	66
D4	Lifeboat shocks for Engelhard collapsible	16

For the lifeboat shocks, always glue or solder two pieces together to create one shock.

4. Bending the Stairs

The following pictures explain how to work with the stairs of the set.

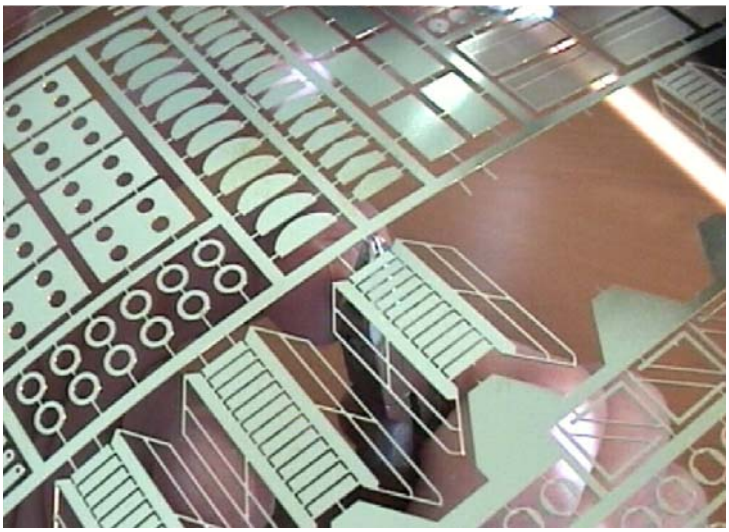


Figure 5: Cutting out the stair



Figure 6: Remove the remains of the brackets at the part roughly with a pair of nippers

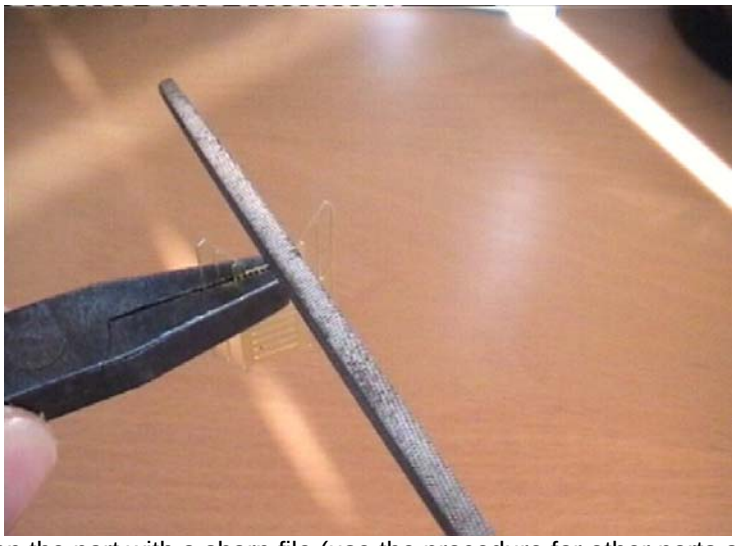


Figure 7: Clean the part with a sharp file (use the procedure for other parts as well)

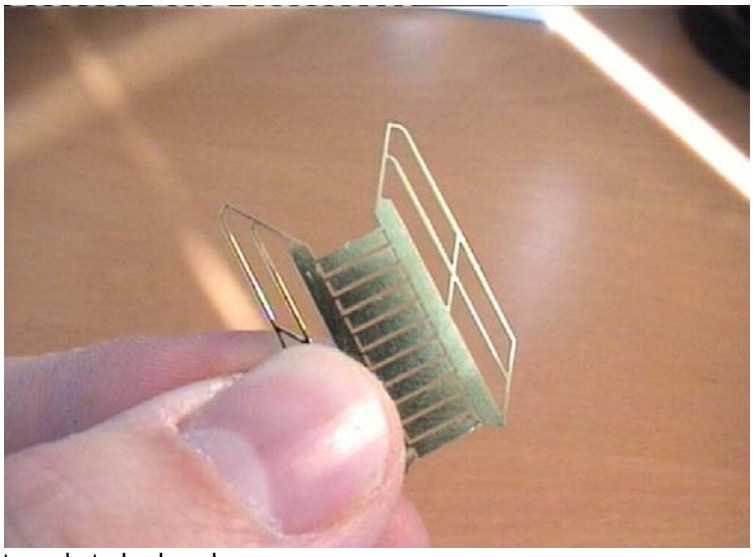


Figure 8: Part ready to be bend

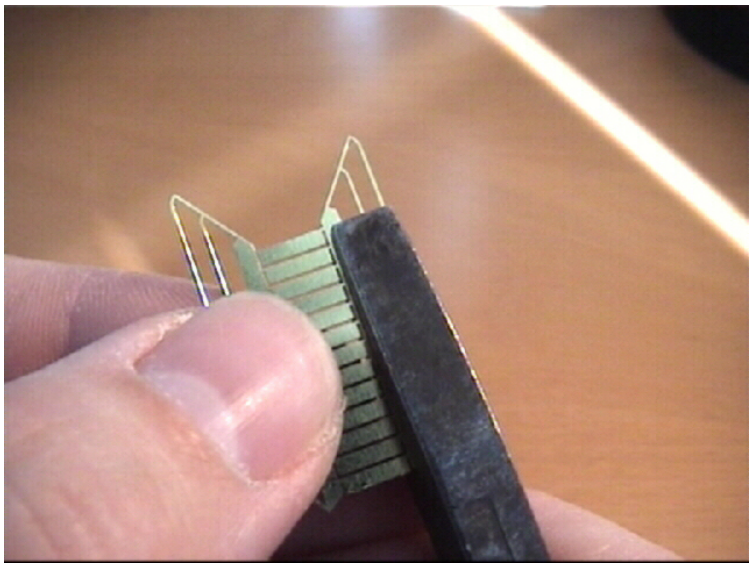


Figure 9: Place the flat-nosed pliers close to the edge of the stairs side



Figure 10: Bend both sides up to a right angle

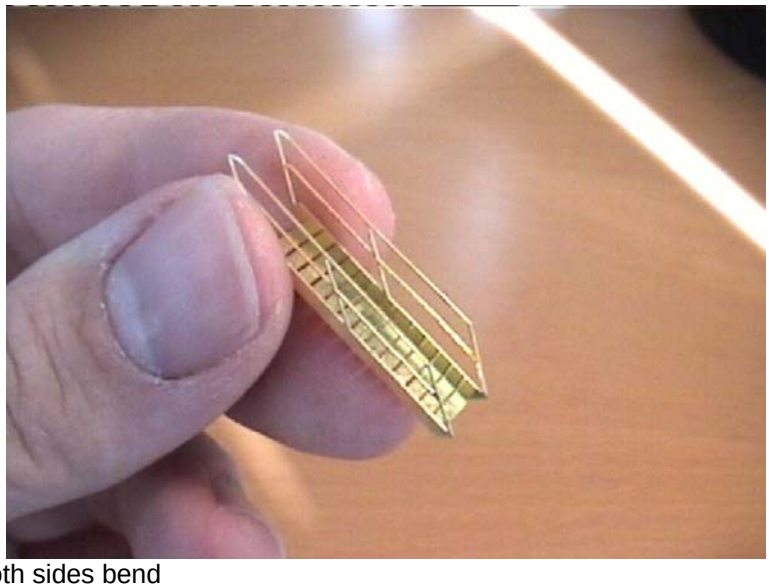


Figure 11: Both sides bend

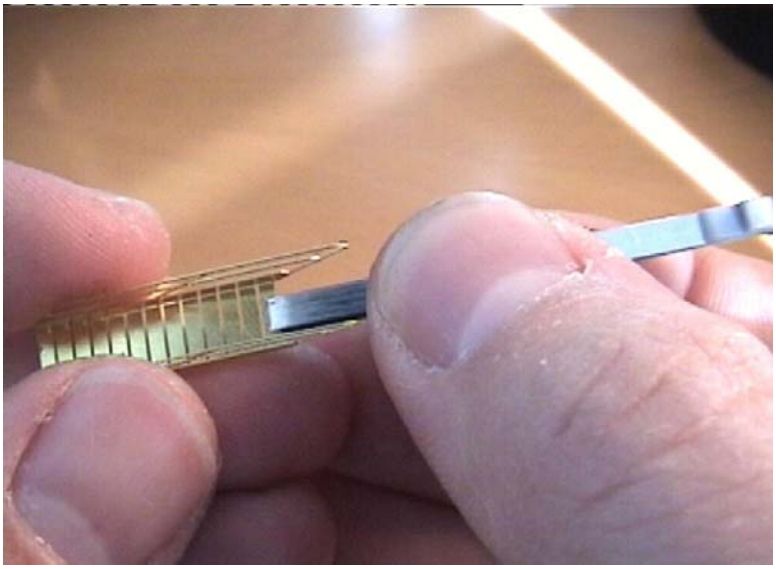


Figure 12: Use a small pair of tweezers to bend up the steps

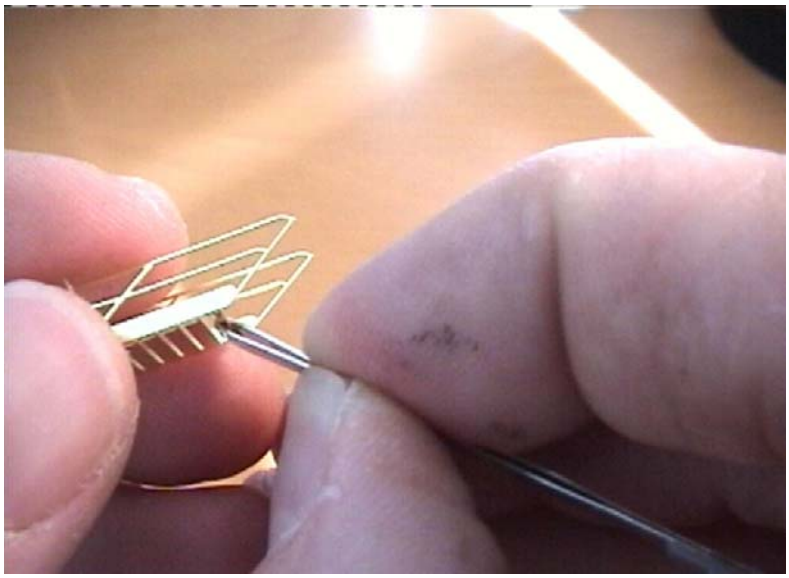


Figure 13: Bend up any single step



Figure 14: Bending the steps

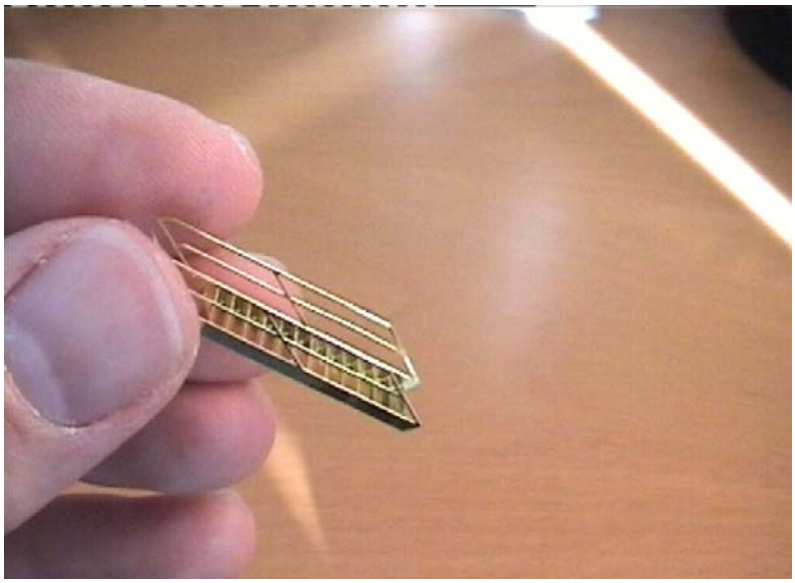
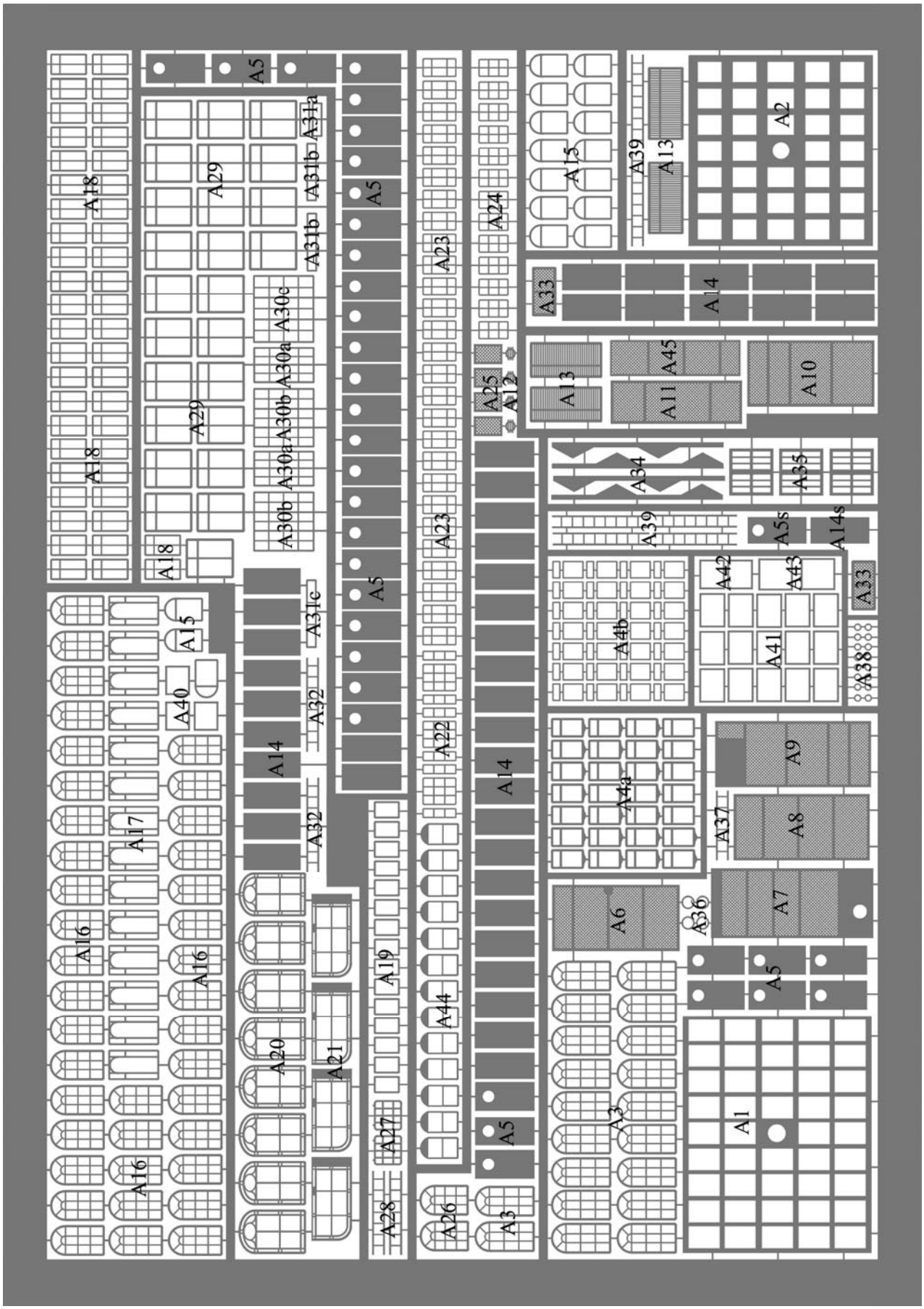
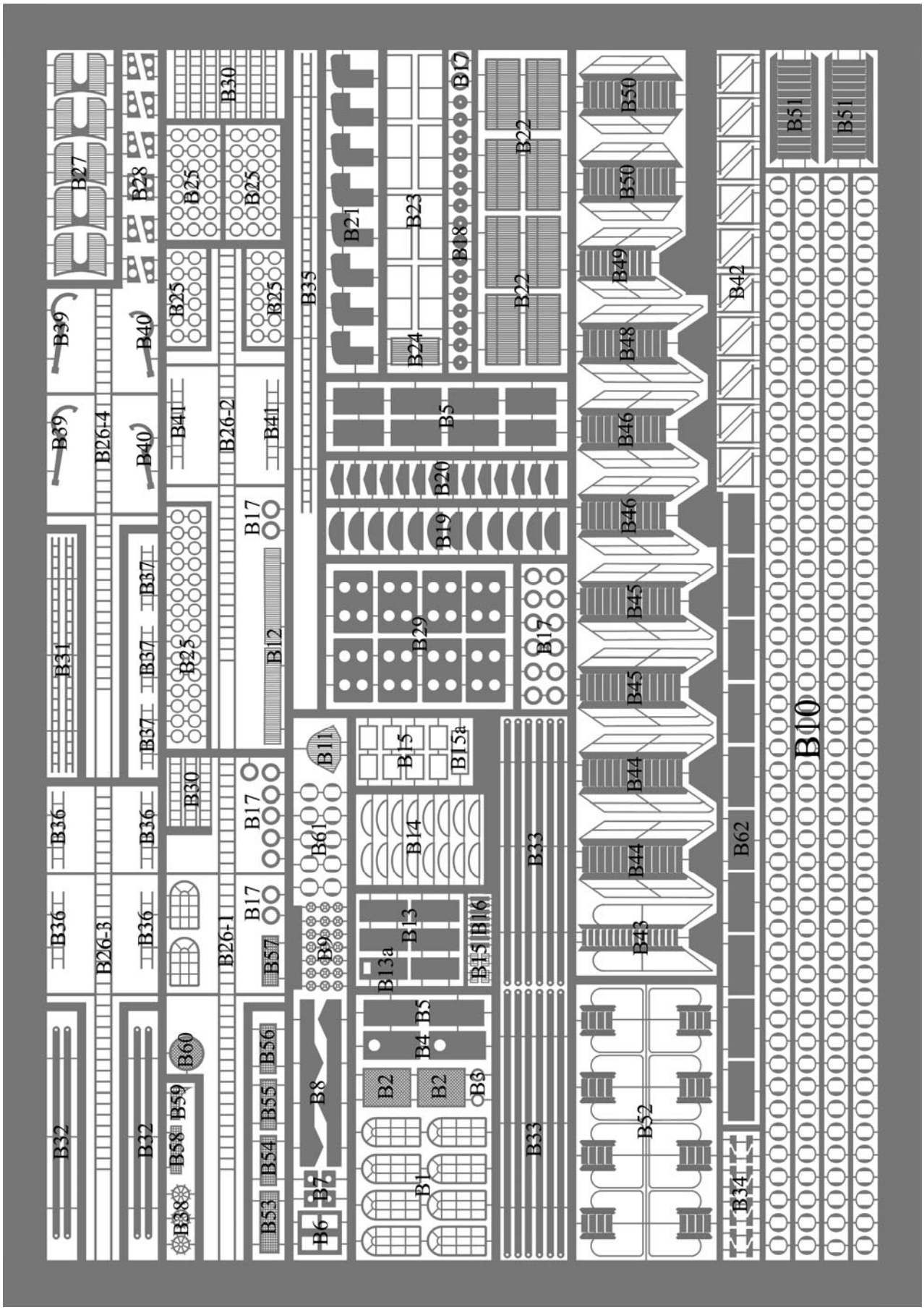
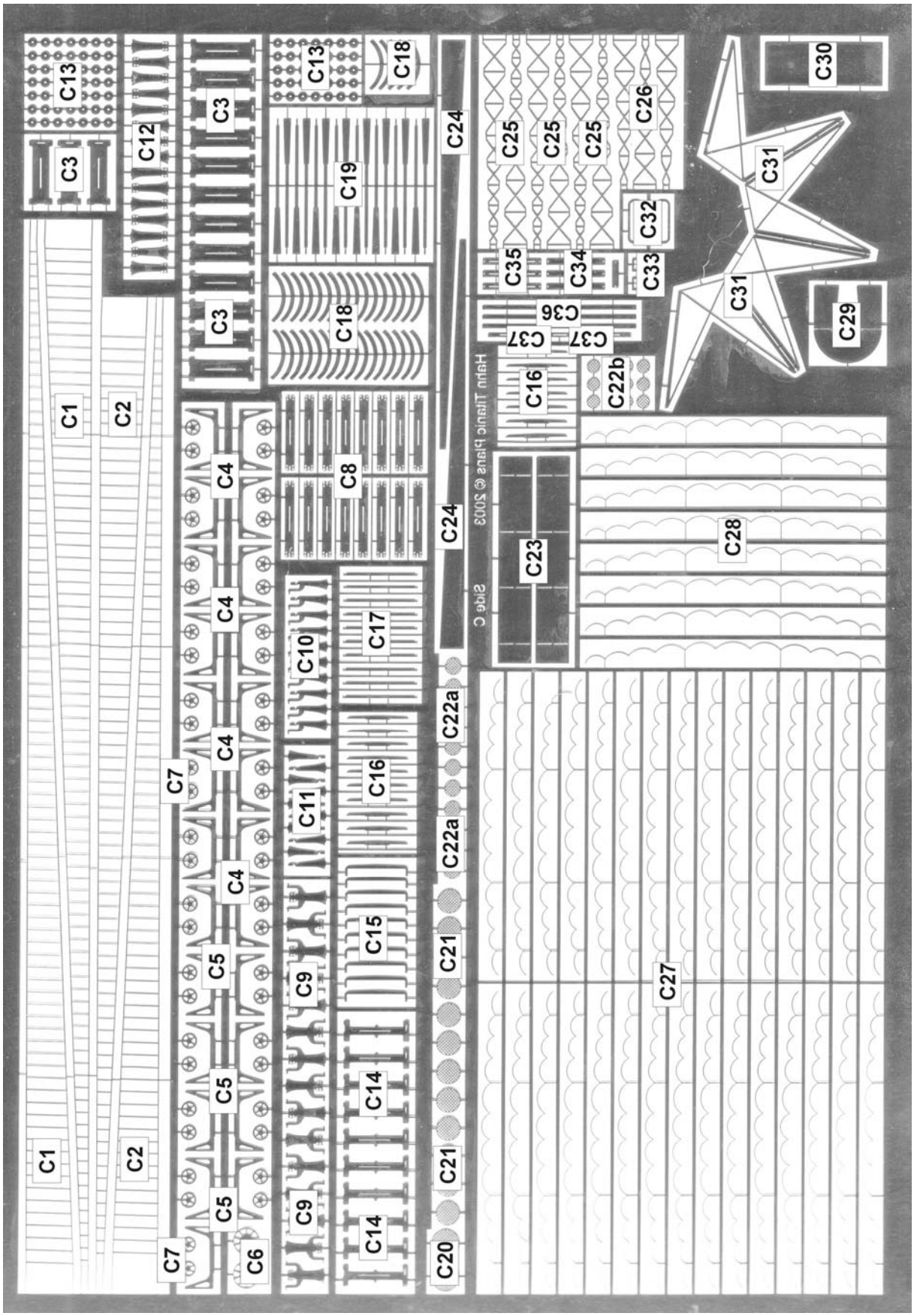


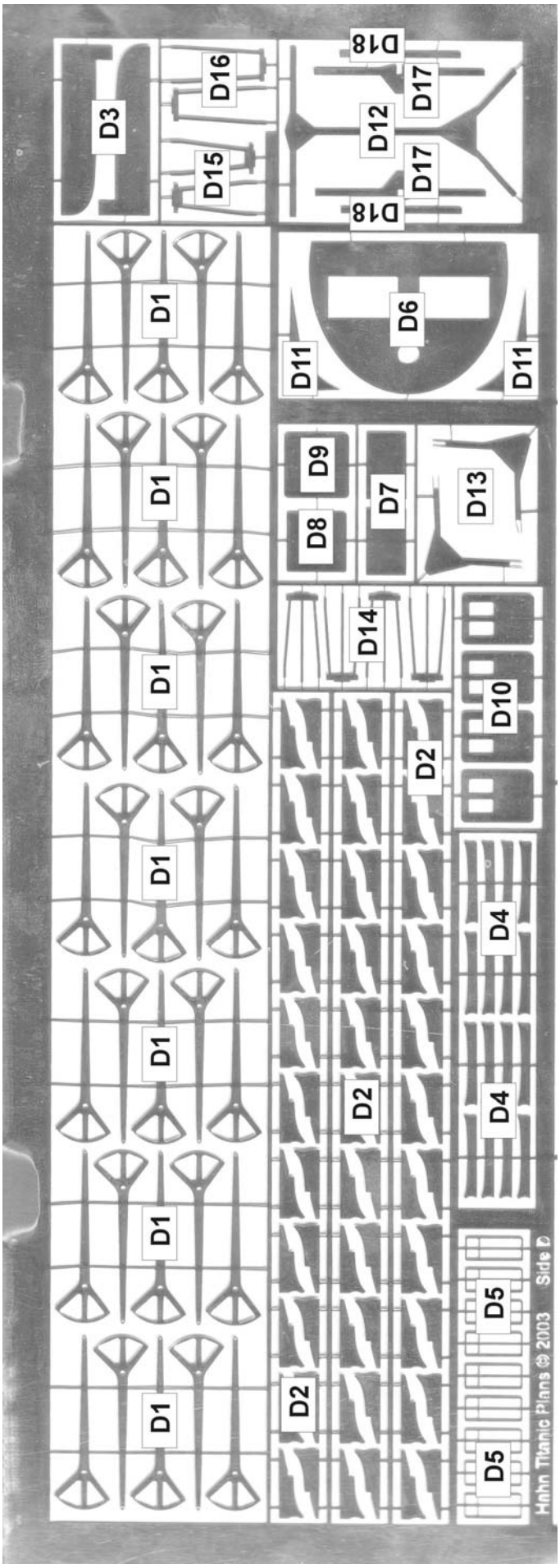
Figure 15: Stair ready bend

5. Part-map


A1
A2
A3
A4a
A4b
A5
A5s
A6
A7
A8
A9
A10
A11
A12
A13
A14
A14s
A15
A16
A17
A18
A19
A20
A21
A22
A23
A24
A25
A26
A27
A28
A29
A30a
A30b
A30c
A31a
A31b
A31c
A32
A33
A34
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A40
A41
A42
A43
A44
A45


B1
B2
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B13a
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B15a
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B26-3
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C1
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C17
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C21
C22a
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C37
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Side C


D3
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