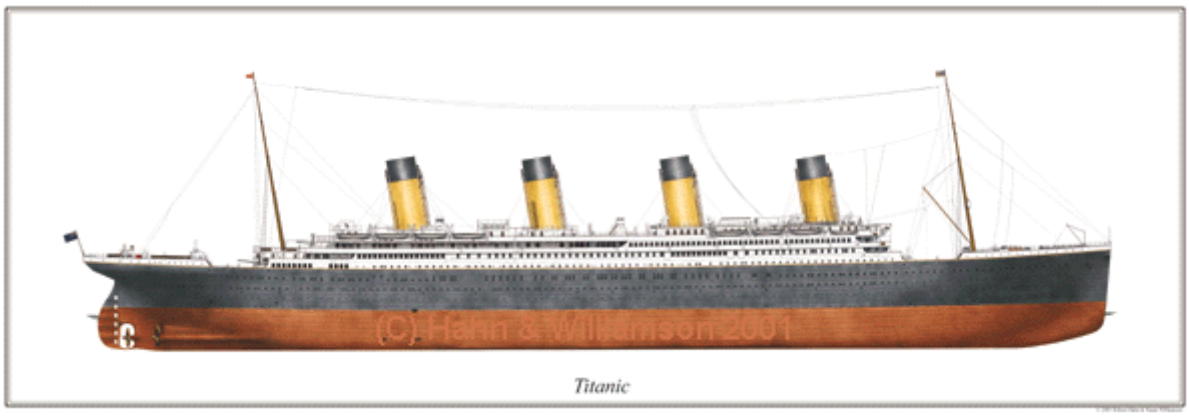
Explanation for the

CNC Wall and Deck House Set

of the

Hahn – Reed 1/144 Titanic Semi-Kit



Titanic

© Copyright 2010 Dr. Robert Hahn

Table of contents

1 General Information 4

1.1 What you need to know first! 4

1.2 Recommended Procedure of Build-up 5

1.3 Orientation - Where do I find which Part? 6

2 Deck Houses 7

2.1 2nd class Entrance – Plan 1 7

2.2 Fourth-Funnel Deck House – Plan 2 7

2.3 Tank Top – Plan 3 7

2.4 Raised Roof between Tank Top and Engine Casing – Plan 4 7

2.5 Engine Casing – Plan 5 7

2.6 Gymnasium und 1st class Entrance – Plan 6 and 9 8

2.7 Officer Quarters and Bridge – Plan 7, 8 and 9 8

3 Deck-Sections 9

3.1 C-Deck 9

3.1.1 After C-Deck Section underneath Poop-Deck – Plan 10 9
3.1.2 After C-Deck Section with 2nd class Library – Plan 11 9
3.1.3 Front C-Deck Section underneath Forecastle – Plan 12 9
3.1.4 Front C-Deck Section underneath Bridge – Plan 13 9

3.2 B-Deck 10

3.2.1 After B-Deck Section with 2nd class Smoking Room and Café Parisian – Plan 14 10
3.2.2 Midship B-Deck Section with Private Promenade and 1st class Entrance – Plan 15 10
3.2.3 Front B-Deck Section – Plan 16 10
3.2.4 B-Deck outer Screen – Plan 20 10

3.3 A-Deck 11

3.3.1 After A-Deck Section with Veranda Café and 1st class Reading and Writing Room – Plan 17 11
3.3.2 Midship A-Deck Section with 1st class Entrance and Grand Staircase – Plan 18 11
3.3.3 Front A-Deck Section with 1st class Reading and Writing Room and Cabins – Plan 19 11
3.3.4 A-Deck outer Screen – Plan 21 11

4 Part Maps 12

4.1 Part Map PLATE 1 12

4.2 Part Map PLATE 2 13

4.3 Part Map PLATE 3 14

© Dr. Robert Hahn 2010, All rights reserved

4.4 Part Map PLATE 4 15
4.5 Part Map PLATE 5 16
4.6 Part Map PLATE 6 17
4.7 Part Map PLATE 7 18
4.8 Part Map PLATE 8 19
4.9 Part Map PLATE 9 20
4.10 Part Map PLATE 10 21
4.11 Part Map PLATE 11 22
4.12 Part Map PLATE 12 23
4.13 Part Map PLATE 13 24

© Dr. Robert Hahn 2010, All rights reserved

1 General Information

1.1 What you need to know first!

Thank you very much for purchasing the CNC-wall Set of Hahn's Titanic Plans. This guide will help you finding the right part on the 13 different plates and to build up the deck houses and deck walls. First here are some important general information's which will give you basement knowledge before you start.

The material of the wall set is very easy to work with. It is similar to the one you find nearly in any plastic model kit. To build up your deck houses and deck walls, you need:

1. a set of different small files,
2. sand paper (240 – 400),
3. a sharp knife and
4. plastic glue.

Use the glue you know from plastic models. I have reached good results with REVELL CONTACT LIQUID. The glue should melt up the material and weld the parts together. Do not use CA glue. You need time to adapt the parts which you do not have with CA and it will also be too brittle when you later sand the glued house. When you want to use different glue, make sure that the solvent of the glue does not evaporate to fast. The parts are big and for some of them you need a lot of glue, which has to be applied at once.

When you cut out the parts be aware not to cut to close of them. The part could be damaged. Smaller parts can be press out by hand as well. When you sand the parts, do it on an even surface and be careful not to round the edges. After the parts have been glued together, give them a night to dry out, before you sand them and round the corners which has to be rounded.

The parts have been cut by a milling cutter with a diameter of 1 mm. This leaves little round edges at the windows and other inner cut-outs. These round edges can not be avoided and can be made to a sharp edge by using a fine foil. Anyway for the windows it is not necessary, because the "glass" will be held in position when the sharp edges of the glasses grab into the curves.

One important note: When you look at the plans you see that the decks of Titanic are not even. The decks are curved from aft to the front. This effect is minimal for the deck houses. Therefore building up the deck-houses could be done separately on an even wooden plate. The glue does not react with wood, so you would have no trouble with a house glued to the plate. But when you build parts of C-, B- and specially the long A-deck section, this has to be done on the decks of the model. During the construction of the parts, this curve has been considered, so the section will follow the curvature. Just make sure, you glue the parts together in the right orientation. So

© Dr. Robert Hahn 2010, All rights reserved

double check any part if it is the right one and if you glue it the right way to the other 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.

1.2 Recommended Procedure of Build-up

The instruction for the different segments of the set only tells you how to build up the parts. It does not consider any filling or painting procedure. Generally I would suggest the following process:

1. Glue the parts together as shown in the instruction sheets. Do not glue the roof on the deck houses yet.
2. After the glue has completely dried out, sand the top, bottom and the edges of the segment. Use maximum 240 sand paper for this, not rougher. Place the sand paper on an even plate and maybe fix it with double layer tape.
3. Round the edges of the walls that have to, shown in the plan. Use the template from PLATE 7 (the only part without a number) to give the edges the right radius. The radius of the deck houses (1.5 mm) is smaller as the ones from A- to C-deck (2.0 mm). Do this with great care, because any mistake into the material is irreversible.
4. Give the whole segment a thin layer of primer/filler and sand it with fine sandpaper (320-400) after the primer has dried out. Note wet grinding will result in a higher quality of the surface and avoid any dust in you environment.
5. Paint the segment in flat white with a few thin layers of paint. Paint the roofs in the appropriate colour.
6. After the paint has completely (give it 2 days!) dried out, you can press in all windows. You may need to take of some paint in the frames for the right fit, because the windows do only hold in place of the crimp connection to the wall. When you use glue the risk to damage the clear surface of the window is too high. If you have to use glue because you took of to much material from the windows, wait some time after you applied the glue to the frame until you put in the glass and give the glue time to evaporate a bit. Use latex gloves to avoid finger prints onto the glass inside the houses..
7. Now you can glue the roofs to the deck houses.
8. Prepare all photo etch (PE) parts and pre-paint them. Then you can glue them to the walls and roofs. I used CA for the PE which worked out fine. Be aware to have only a thin layer of CA on the PE when you apply it to the glasses.
9. Some areas like the raised roof between the Tank-Top and the Engine-Casing, the roof of the Officer-Quarter and the Gymnasium as well as the raised roof at the Fourth-Funnel deck house have wooden planks. These wooden deck sections,

© Dr. Robert Hahn 2010, All rights reserved

made of thin plywood (0.4 mm – 0.6 mm -NOT part of the set) will have to be glued to the styrene plates later. The styrene plates act as the steel plates of the real ship, to which the wooden planks were attached.

1.3 Orientation - Where do I find which Part?

The parts have numbers from 1 to 446, with a few numbers missing. The following list helps you to find out, on which plate the part is located you are looking for.

PLATE 1	numbers from 1 – 49
PLATE 2	numbers from 50 – 69
PLATE 3	numbers from 70 – 97
PLATE 4	numbers from 100 – 126
PLATE 5	numbers from 130 – 152
PLATE 6	numbers from 160 – 197
PLATE 7	numbers from 200 – 236
PLATE 8	numbers from 240 – 269
PLATE 9	numbers from 270 – 305
PLATE 10	numbers from 310 – 360
PLATE 11	numbers from 370 – 423
PLATE 12	numbers from 430 – 446
PLATE 13	no numbers on this plate

At the end of this text you find the part maps for all plates. Use them to allocate the searched part on the plate. If you have damaged a part and need replacement, just give me the part number.

© Dr. Robert Hahn 2010, All rights reserved

2 Deck Houses

2.1 2nd class Entrance – Plan 1

The 2nd class entrance can be divided in three steps. First the house itself, second the elevator house on top of the roof and third the two little fan housings at the aft end of the roof. All three segments can be build separately and will be glued together at the end.

When building the little fan housings, you need to bend part (132/151) over part (118/119) and (116/117). Do this, after you have glued all parts to the ground base (121/120) and when the glue has completely dried out. Pre-bending this part over a round stick may be a good advice, before you glue it to the ground base.

2.2 Fourth-Funnel Deck House – Plan 2

The Fourth Funnel deck house has to main sections, first the raised roof and second the deck house itself. Both will be build separately and glued together at the end. There is nothing special about this segment, just make sure you do not forget to place the support (10 and 18) because the roof has to carry one of the funnels.

2.3 Tank Top – Plan 3

There is nothing special on this section, just follow the diagram in plan 3.

2.4 Raised Roof between Tank Top and Engine Casing – Plan 4

The raised roof consists of three parts, the deck on top of the raised roof section and the little raised part on top of the deck for the compass tower. Do not glue this last little raised part onto the deck until you have placed a wooden deck there. The raised roof section itself is not part of the set, and has to cut out of 6 mm wood or plastic on your own.

2.5 Engine Casing – Plan 5

The Engine Casing has three main sections, the deck house, the big skylight on top and the house fort the little dome aft.

Building the Skylight is a bit tricky and you have to follow the instructions carefully. First glue the side walls (77), (78), (85) and (90) to the base plate (80). Then glue the little horizontal roof section (91) to the top of the “three-cornered” wall. After the glue has completely dried out, sand the angled sides of the roof on a plain plate. After this you can glue the angled roof parts (140) and (141) on top of the walls and finish the segment.

© Dr. Robert Hahn 2010, All rights reserved

2.6 Gymnasium und 1st class Entrance – Plan 6 and 9

The Gymnasium is the aft part of the big forward deck house. It consist of the deck house, the single fan trunk forward of the second funnel and the house for the big dome.

Special on this is the fan trunk. First glue the walls (108) and (105) and the pre-bended cover (183) to the base plate (109). Then glue the two supports (187) and (186) on top of the base plate. After the glue has completely dried out bend the cover over the walls and supports and fix it with a sticky tape.

2.7 Officer Quarters and Bridge – Plan 7, 8 and 9

This deck house consist of the main deck house, the little raised roof on top of the roof around the first funnel with the fan trunks and the bridge section with the nock on starboard and port side.

For the fan trunks at the little raised roof on top of the deck house, follow the instructions in 2.6. It is similar.

© Dr. Robert Hahn 2010, All rights reserved

3 Deck-Sections

3.1 C-Deck

The C-deck sections are beside the after C-deck section with the 2nd class library not very long. Therefore they are minor affected by the curvature of the decks. You can build these sections separately on a workbench and do not have to do it directly on the decks.

3.1.1 After C-Deck Section underneath Poop-Deck – Plan 10

There is nothing special on this section, just follow the diagram in plan 10. The parts (275) and (246) will be glued to the model after the Poop-Deck has being installed.

3.1.2 After C-Deck Section with 2nd class Library – Plan 11

The only thing, which is special here, is the angled rear part of this section. First glue part (299) to the base plate (297 or 287) and let the glue dry out. The shape the sides of this wall to the angle of the base plate and then glue the parts (265) and (296) to the section.

3.1.3 Front C-Deck Section underneath Forecastle – Plan 12

There is nothing special on this section, just follow the diagram in plan 12.

3.1.4 Front C-Deck Section underneath Bridge – Plan 13

There is nothing special on this section, just follow the diagram in plan 13.

© Dr. Robert Hahn 2010, All rights reserved

3.2 B-Deck

3.2.1 After B-Deck Section with 2nd class Smoking Room and Café Parisian – Plan 14

This section consist of the little rear bar and the big area with the Smoking Room and the Café Parisian. Special on this section is the curved wall (233) at the Café Parisian. This wall needs to be pre-bended, before you glue it to the section. It's a good idea to build the complete section and install this wall as a last step, with the top frame (210) already glued in. For the bending process of this thick part, it would be wise to make some trials with material of the bracket or frame from which you take off the parts. Warming up the part with a hair blower would help to get it to the right shape.

3.2.2 Midship B-Deck Section with Private Promenade and 1st class Entrance – Plan 15

There is nothing special on this section, just follow the diagram in plan 15.

3.2.3 Front B-Deck Section – Plan 16

There is nothing special on this section, just follow the diagram in plan 16.

3.2.4 B-Deck outer Screen – Plan 20

The parts for the outer B-deck screen are mostly useful if you do not build with the composite hull of Dan Reed. Anyway it can be also used when building with the hull to avoid cutting out all the little windows. To complete the screen you have to glue the separate parts together. Make sure to use the right part for the right side, because port and starboard side are different.

© Dr. Robert Hahn 2010, All rights reserved

3.3 A-Deck

The whole A-deck section is very long. I advice you to build it up first in the three single segments which you later glue together. Therefore the process will be described this way. To ensure, that the walls follow the curvature of the deck precisely, make sure you build up the segments on the deck itself. To attach the base plates to the decks without gluing, you can use the round holes in these plates to screw them do the decks. A different method would be to use double layer tape. Do not glue the base plates to the deck at the beginning, because you need to take them off, after and also during you glue in the walls for finishing and to round some edges.

3.3.1 After A-Deck Section with Veranda Café and 1st class Reading and Writing Room – Plan 17

Special for this section are the 6 alcoves in the rear part. First glue all walls to the base plate excepting the angled walls of the alcoves. Make sure the straight walls of the alcoves are glued perpendicular to the base plate with a right angle. After the glue has dried out, you need to take off the segment from the deck. Now shape the edges of the straight walls of the alcoves to the appropriate angle. Use a wide and sharp foil for this and make sure you foil in a straight and plain angel from the bottom to the top. Maybe you do some trials before.

After this, you will have to fix the section to the deck again. Now you can glue the angled walls to the section. Make sure, that the edges of these parts, which are glued to the main walls, are angled a bit with a foil. Don't worry, that these walls reach a little bit over the straight walls of the alcove at this stage. After the glue has dried out, you take off the segment again and grind of the over-looking part of the angled walls.

3.3.2 Midship A-Deck Section with 1st class Entrance and Grand Staircase – Plan 18

Special for this section are the 4 alcoves and the curved wall. Just follow the instructions in 3.3.1 and 3.2.1 and do it in a similar way for this section.

3.3.3 Front A-Deck Section with 1st class Reading and Writing Room and Cabins – Plan 19

There is nothing special on this section, just follow the diagram in plan 19.

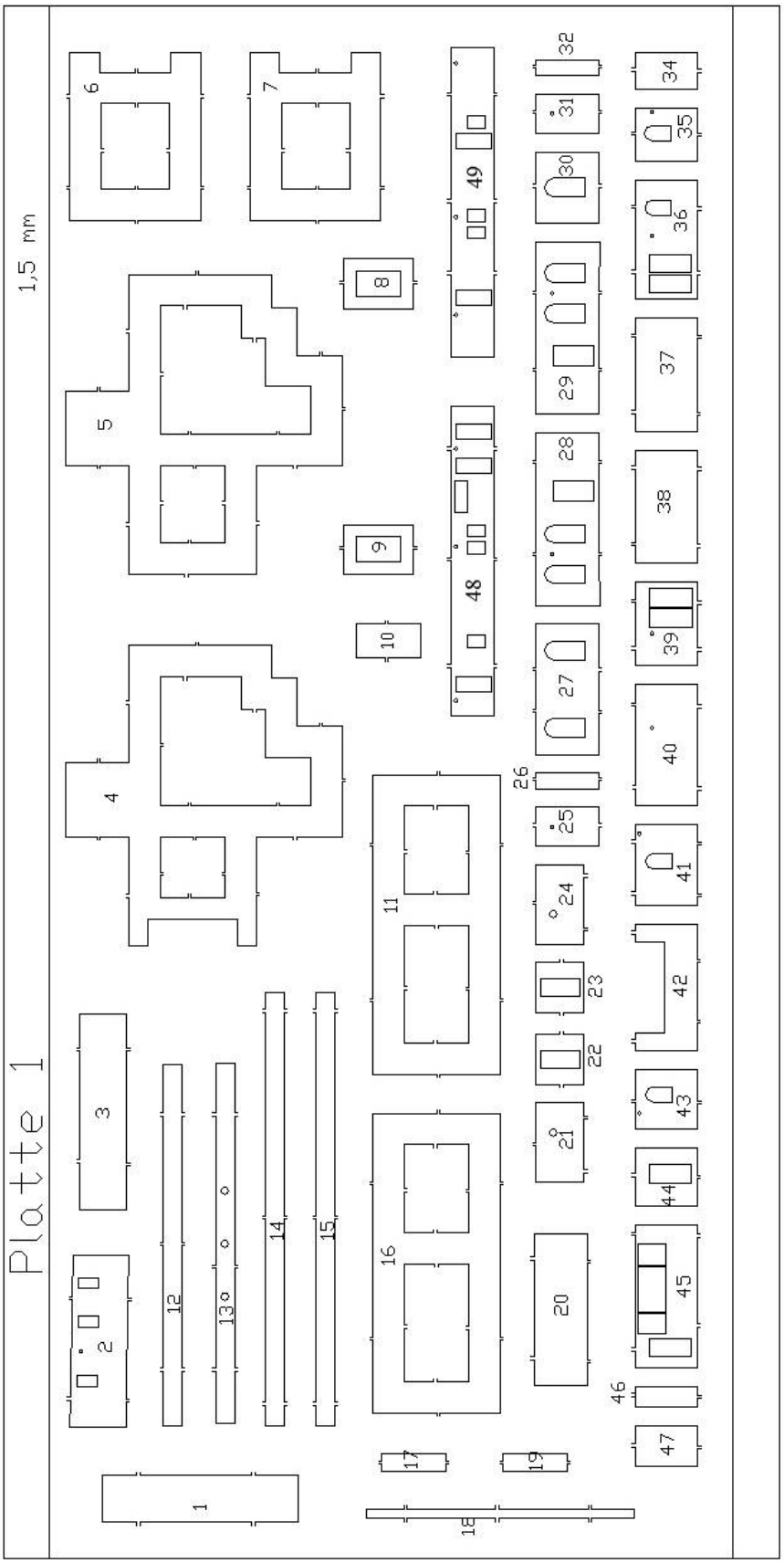
3.3.4 A-Deck outer Screen – Plan 21

The outer A-deck screen consists of 3 parts per side. Both sides are identical. Just follow the diagram in plan 20

© Dr. Robert Hahn 2010, All rights reserved

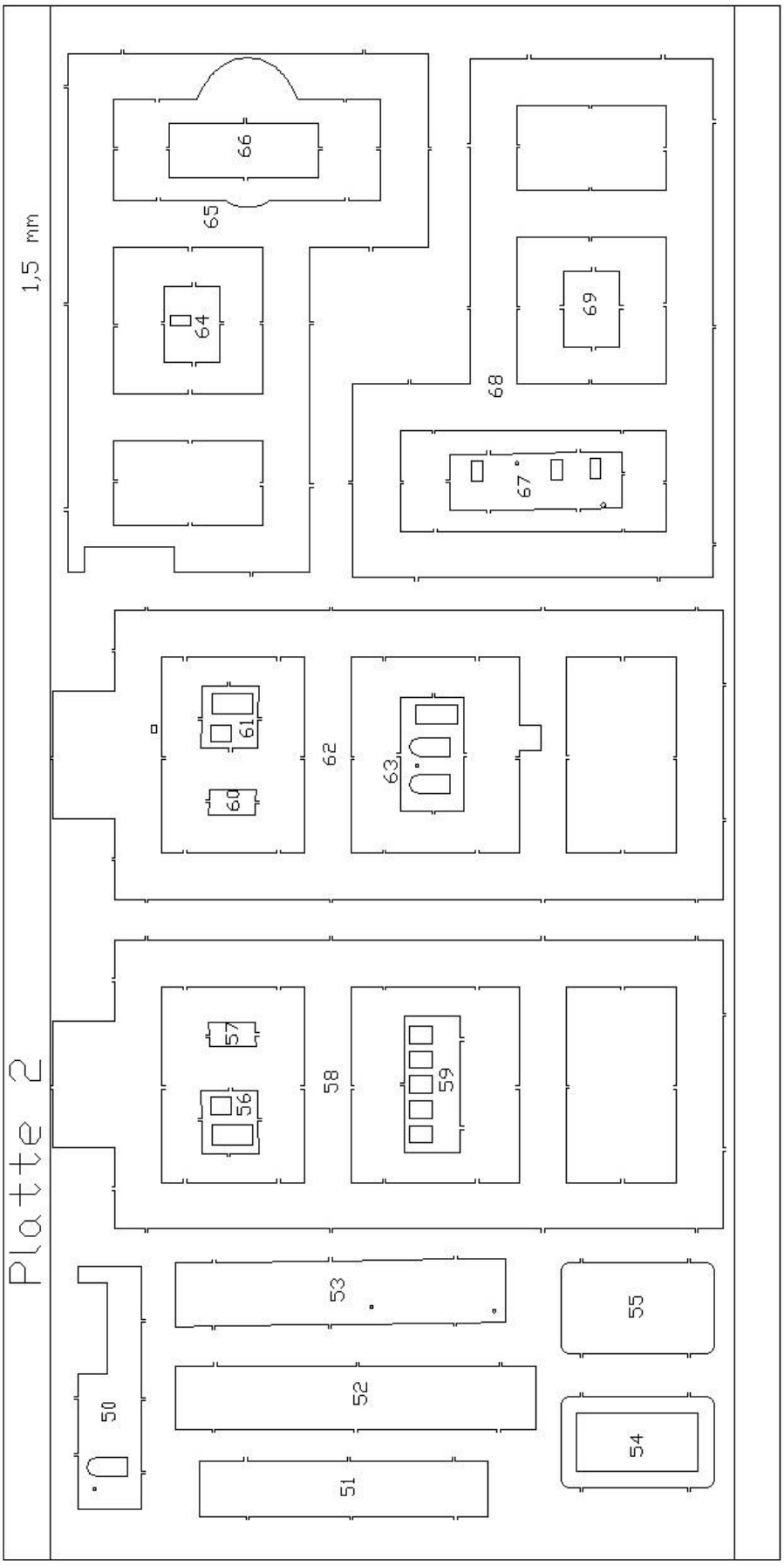
4 Part Maps

4.1 Part Map PLATE 1



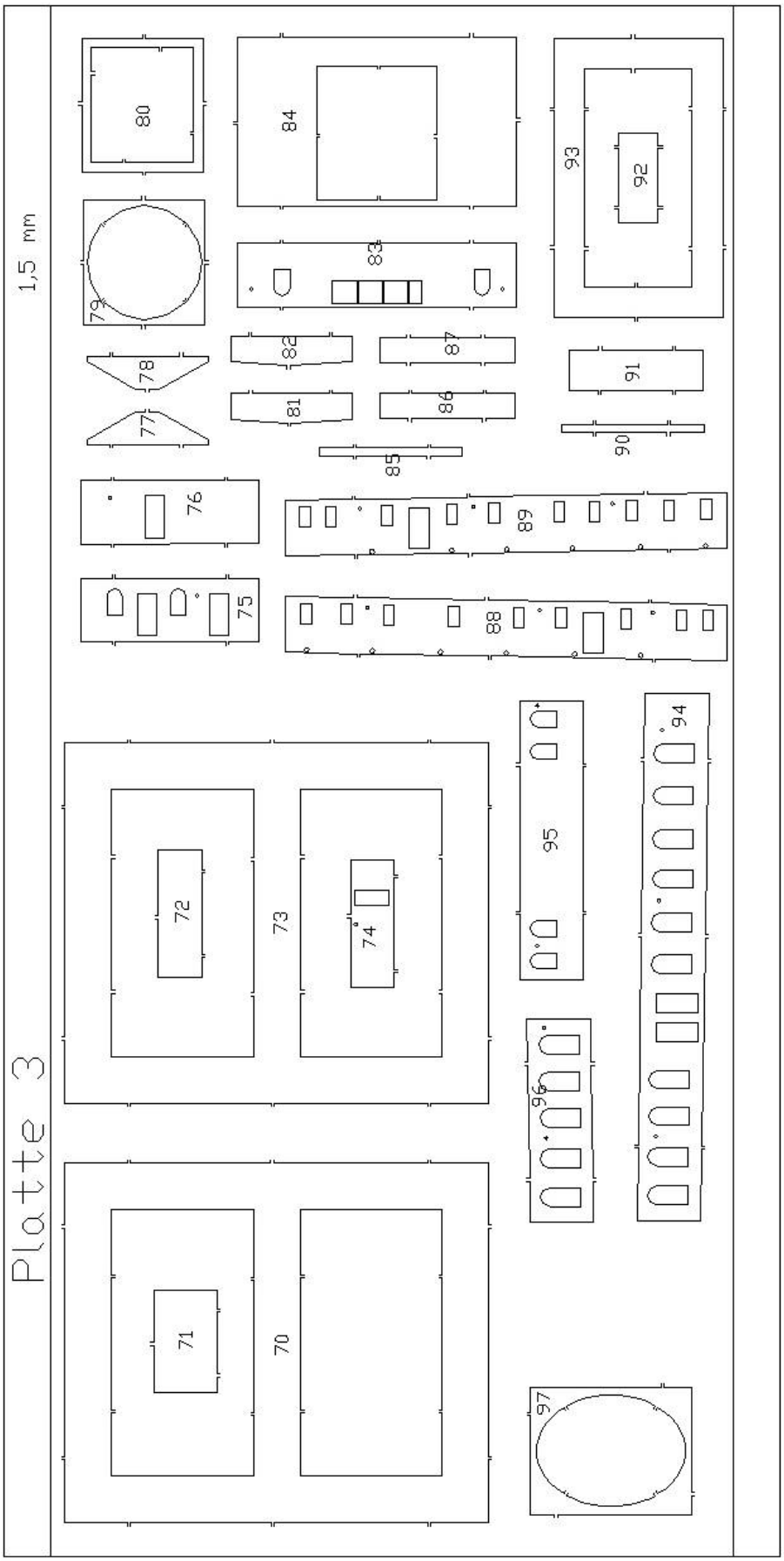
© Dr. Robert Hahn 2010, All rights reserved

4.2 Part Map PLATE 2



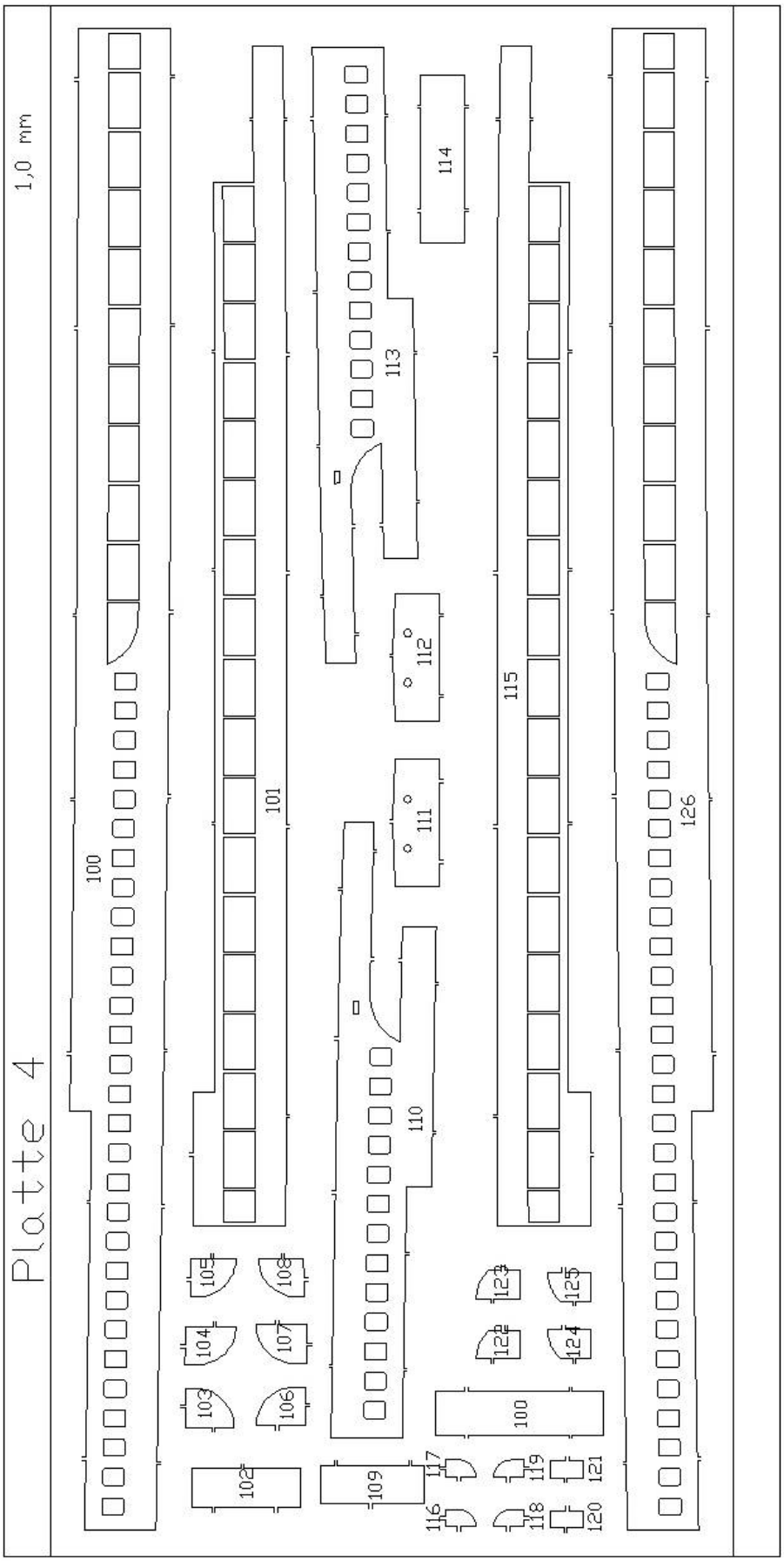
© Dr. Robert Hahn 2010, All rights reserved

4.3 Part Map PLATE 3



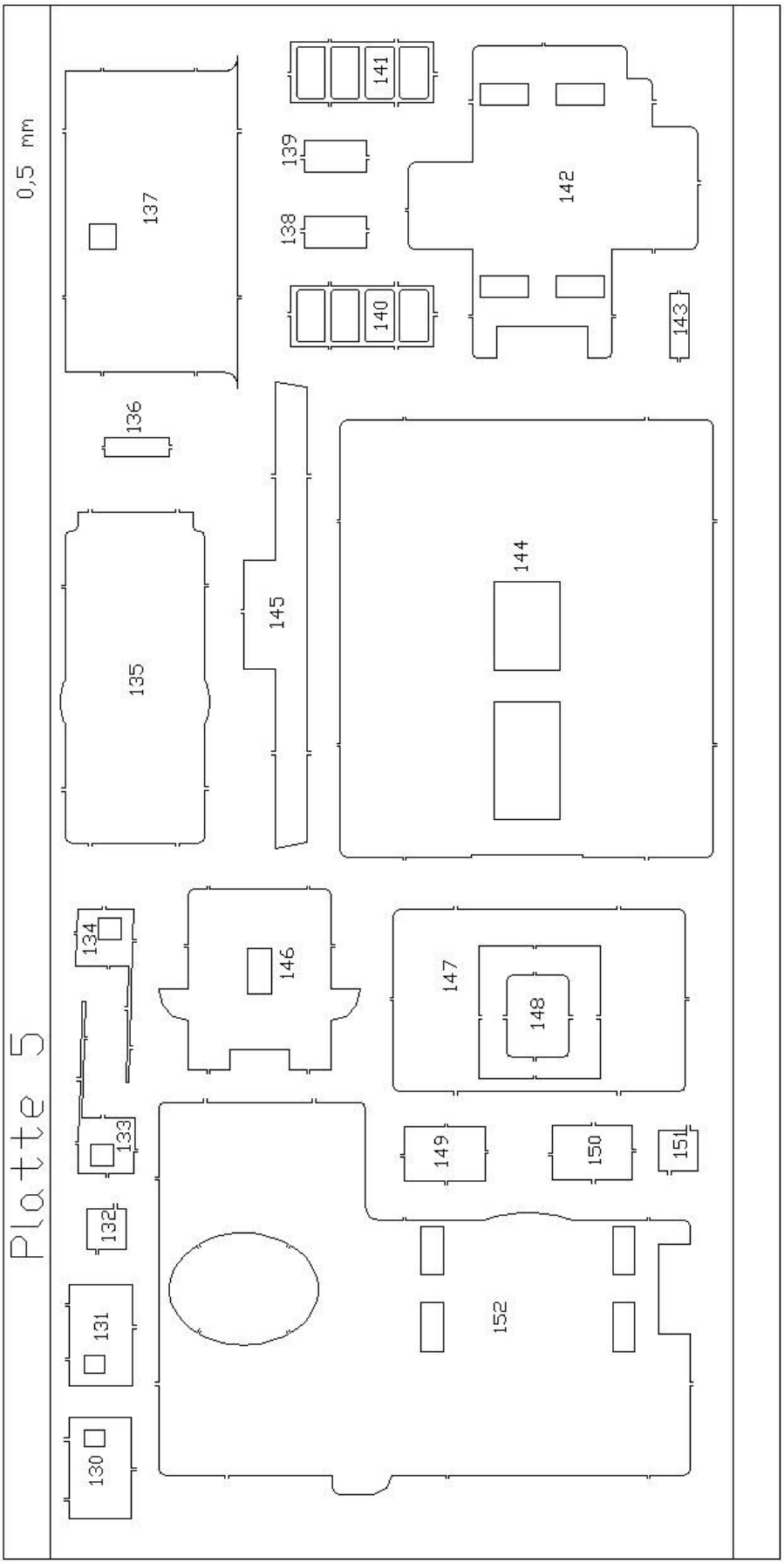
© Dr. Robert Hahn 2010, All rights reserved

4.4 Part Map PLATE 4



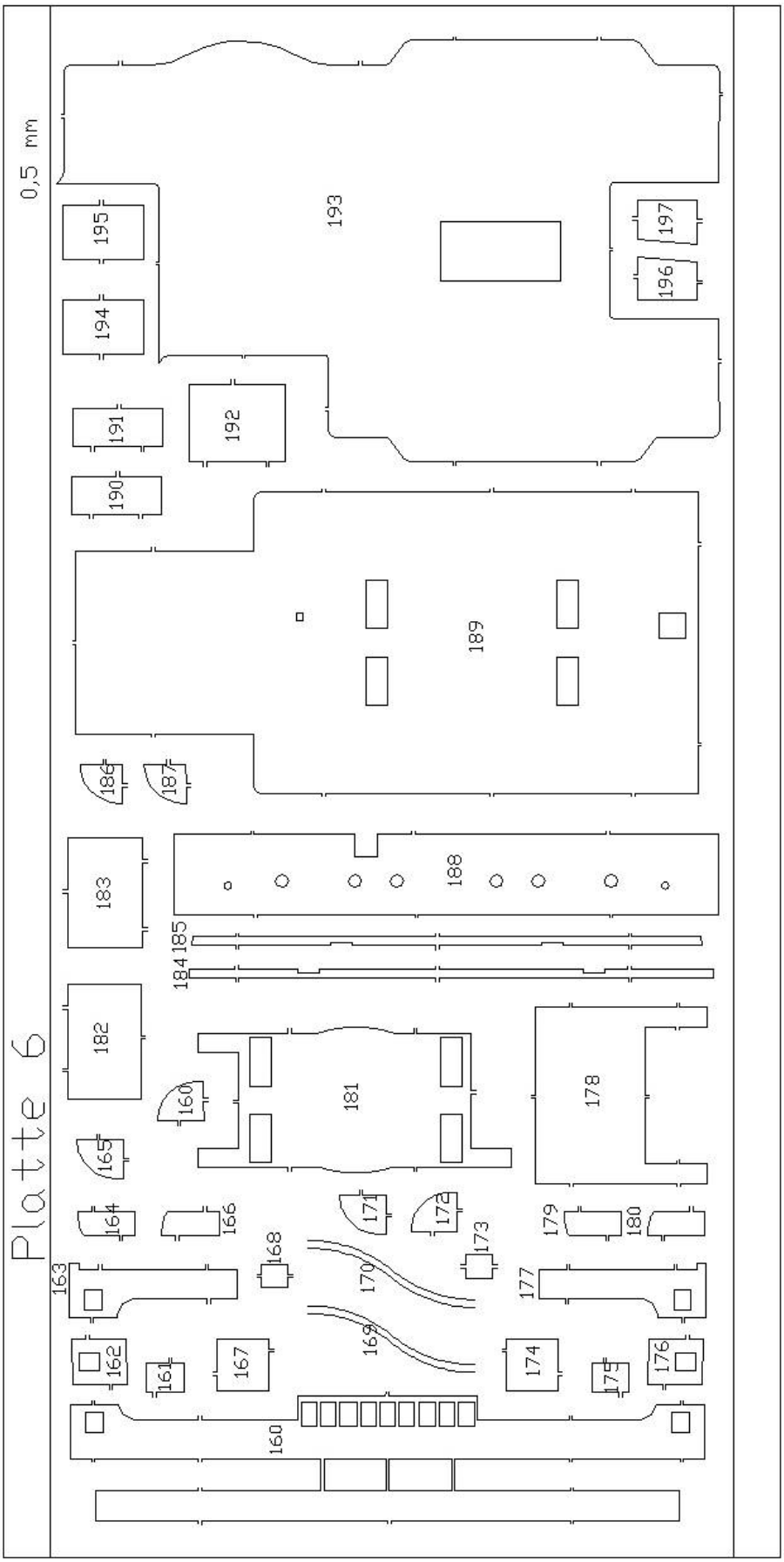
© Dr. Robert Hahn 2010, All rights reserved

4.5 Part Map PLATE 5



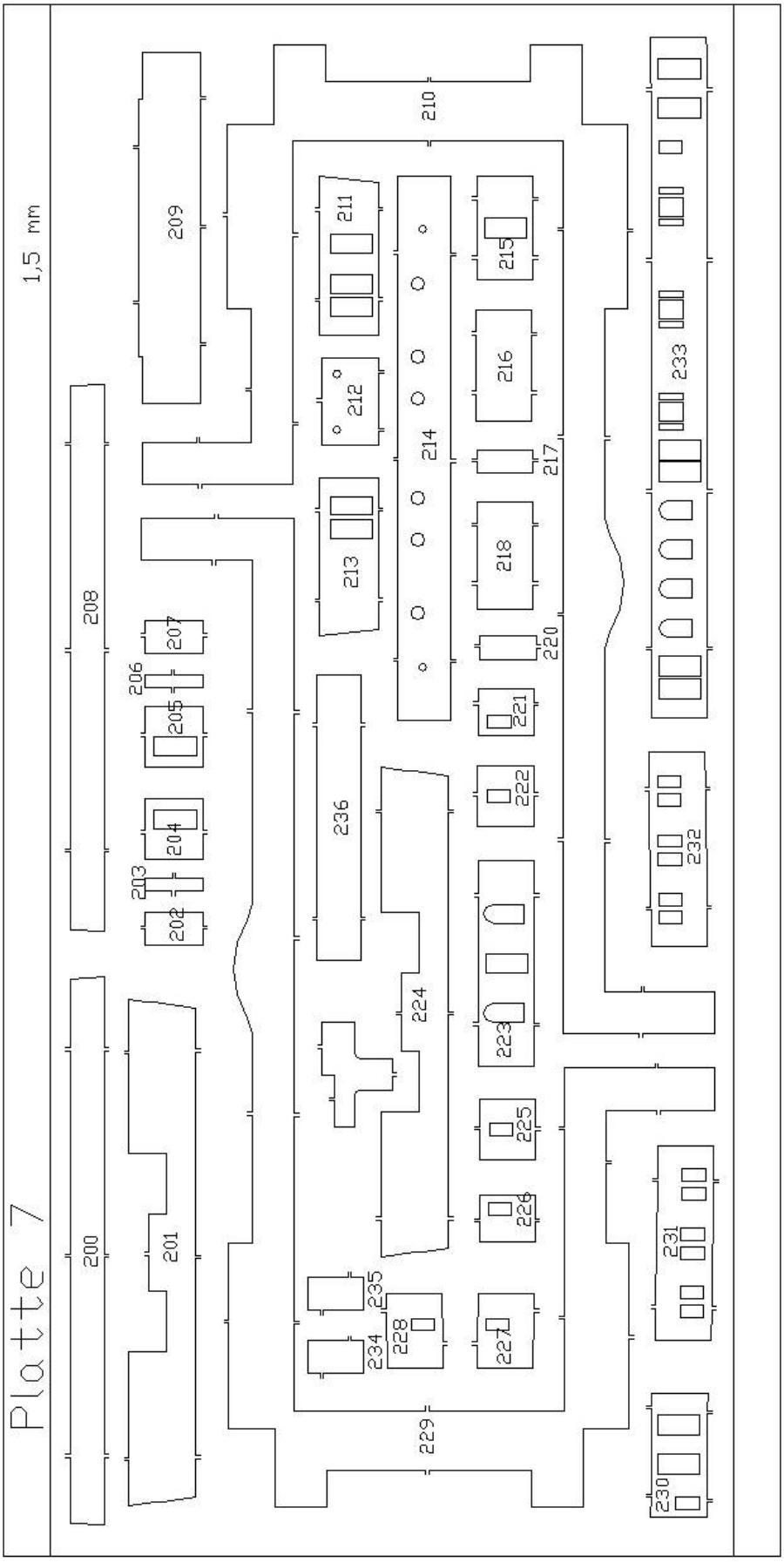
© Dr. Robert Hahn 2010, All rights reserved

4.6 Part Map PLATE 6



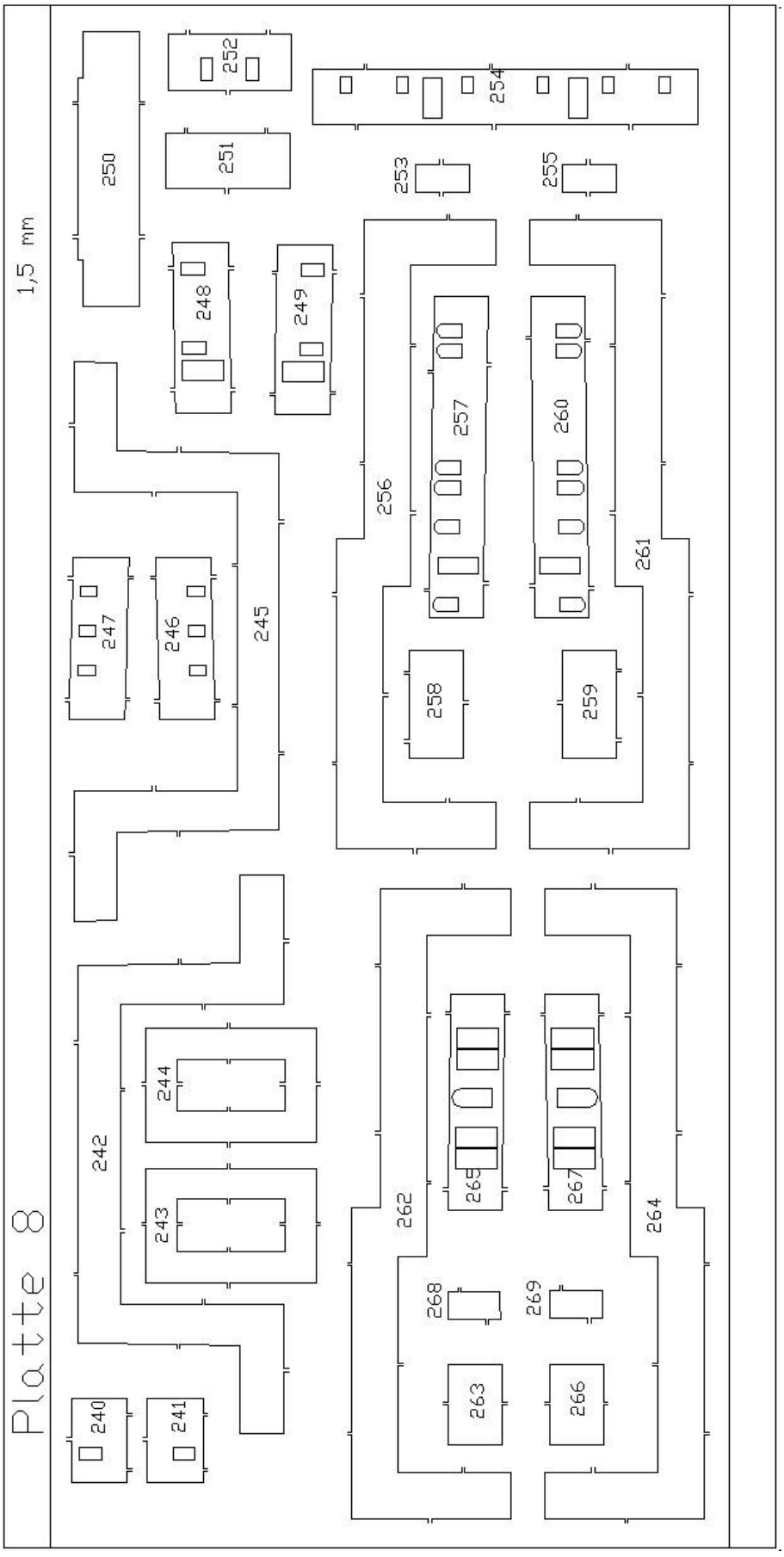
© Dr. Robert Hahn 2010, All rights reserved

4.7 Part Map PLATE 7



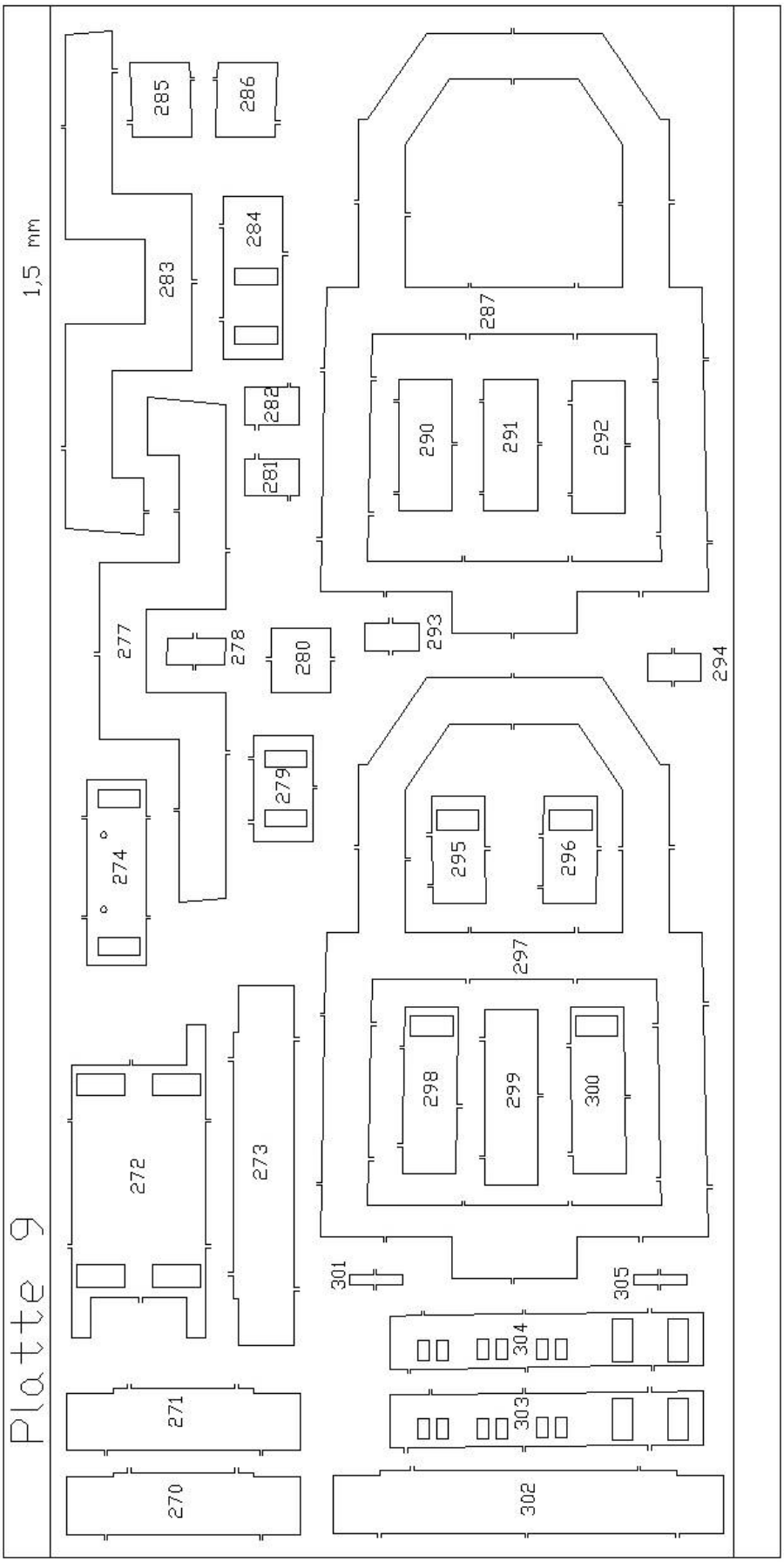
© Dr. Robert Hahn 2010, All rights reserved

4.8 Part Map PLATE 8



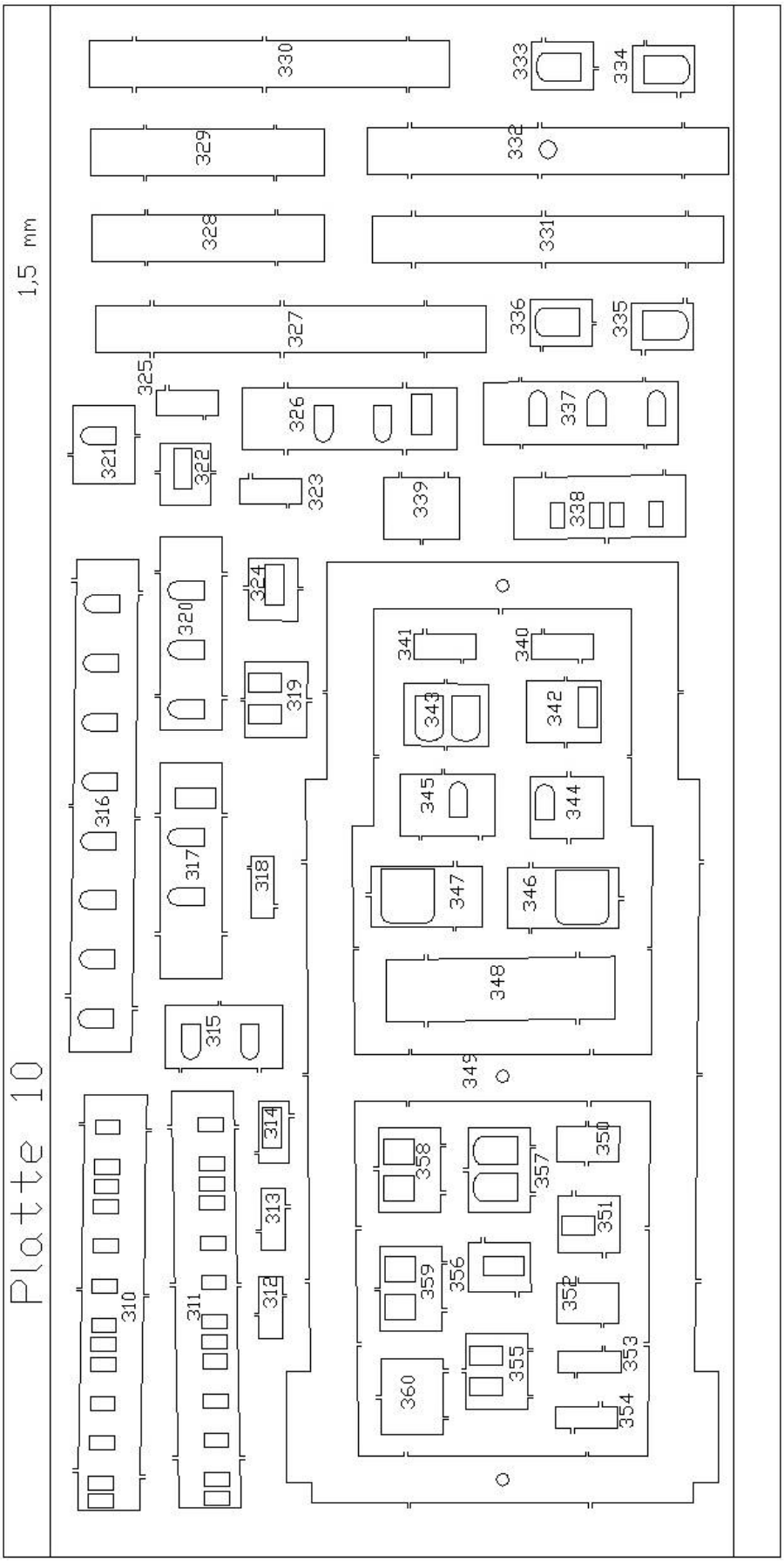
© Dr. Robert Hahn 2010, All rights reserved

4.9 Part Map PLATE 9



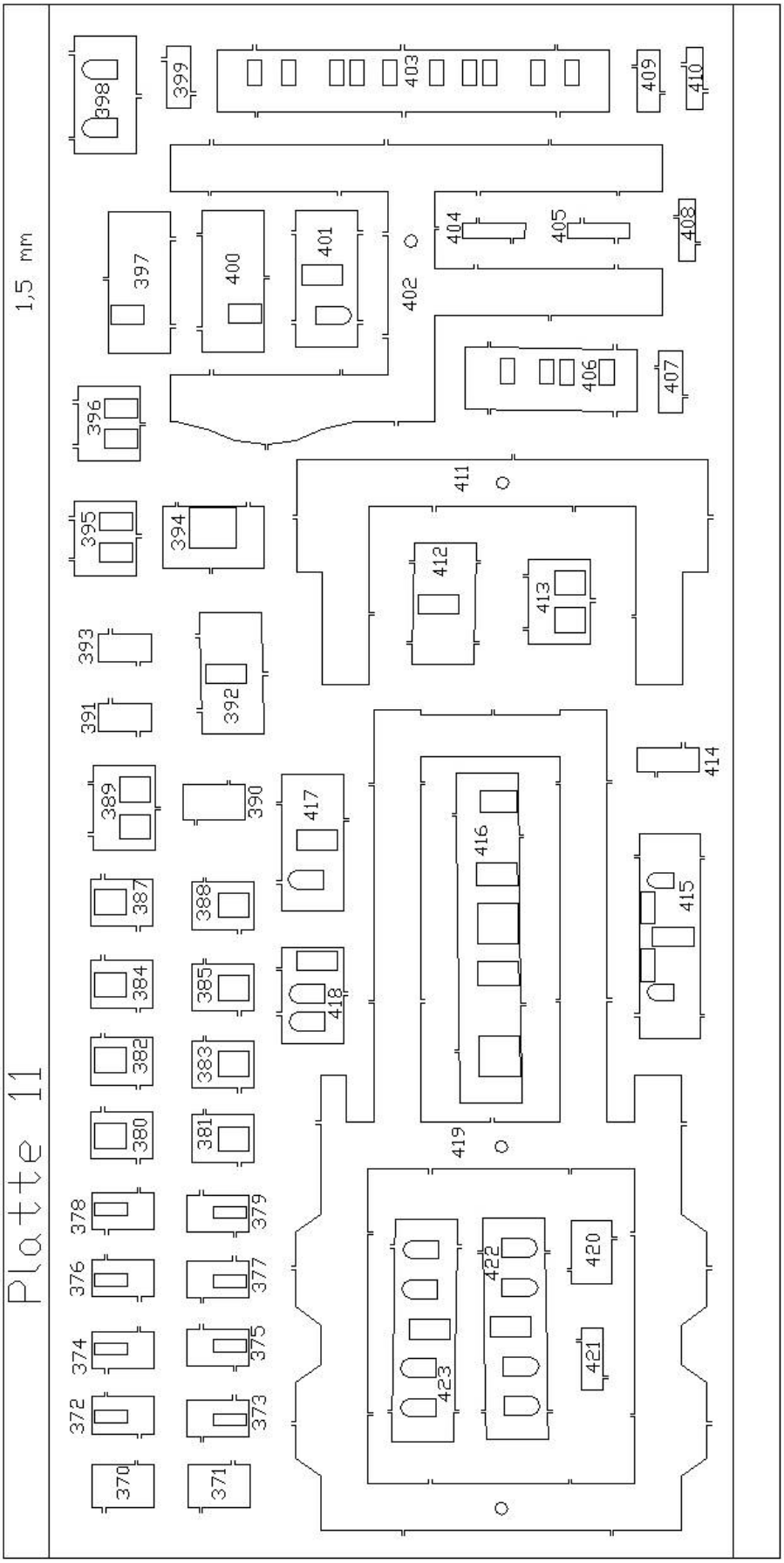
© Dr. Robert Hahn 2010, All rights reserved

4.10 Part Map PLATE 10



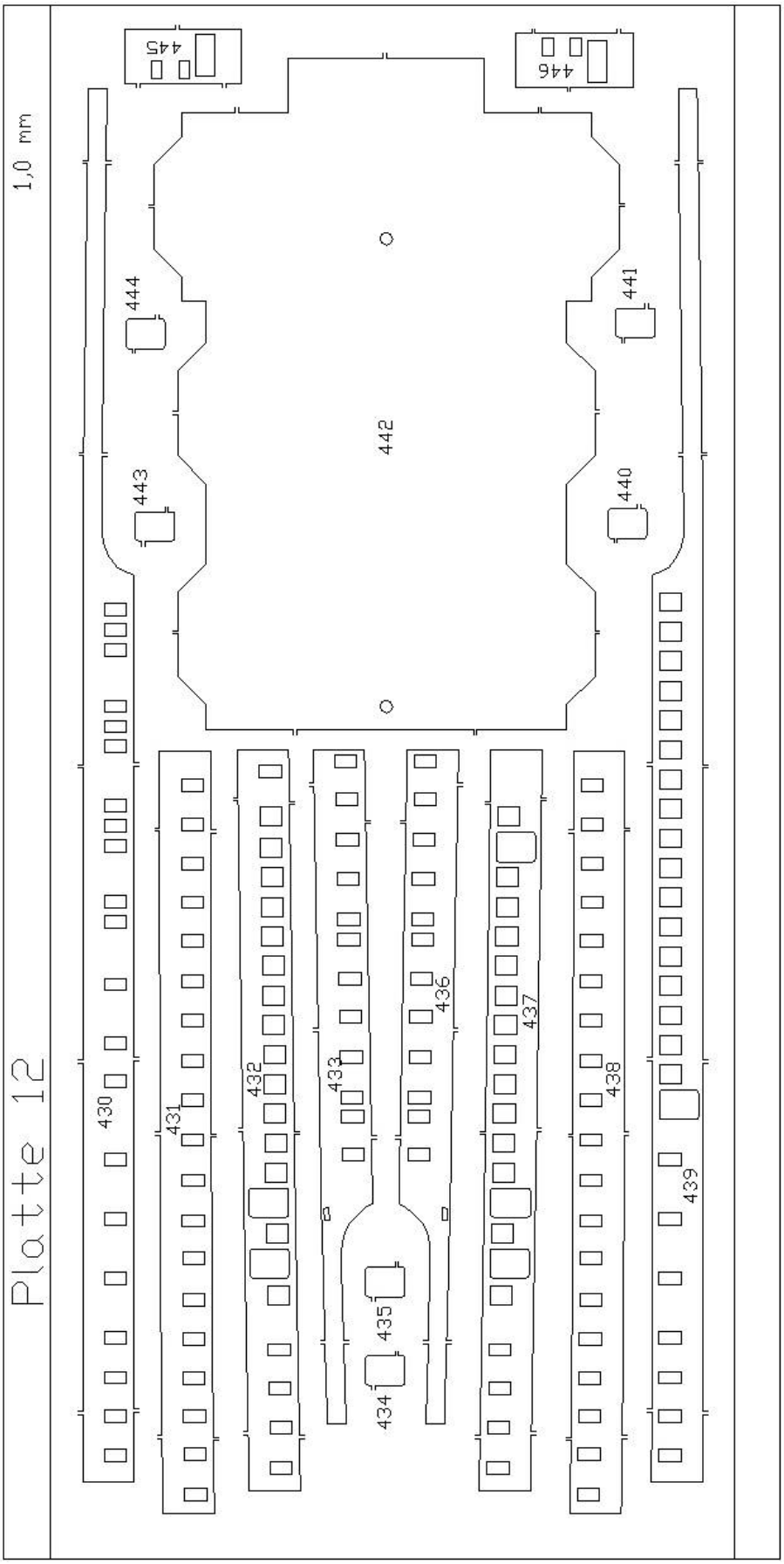
© Dr. Robert Hahn 2010, All rights reserved

4.11 Part Map PLATE 11



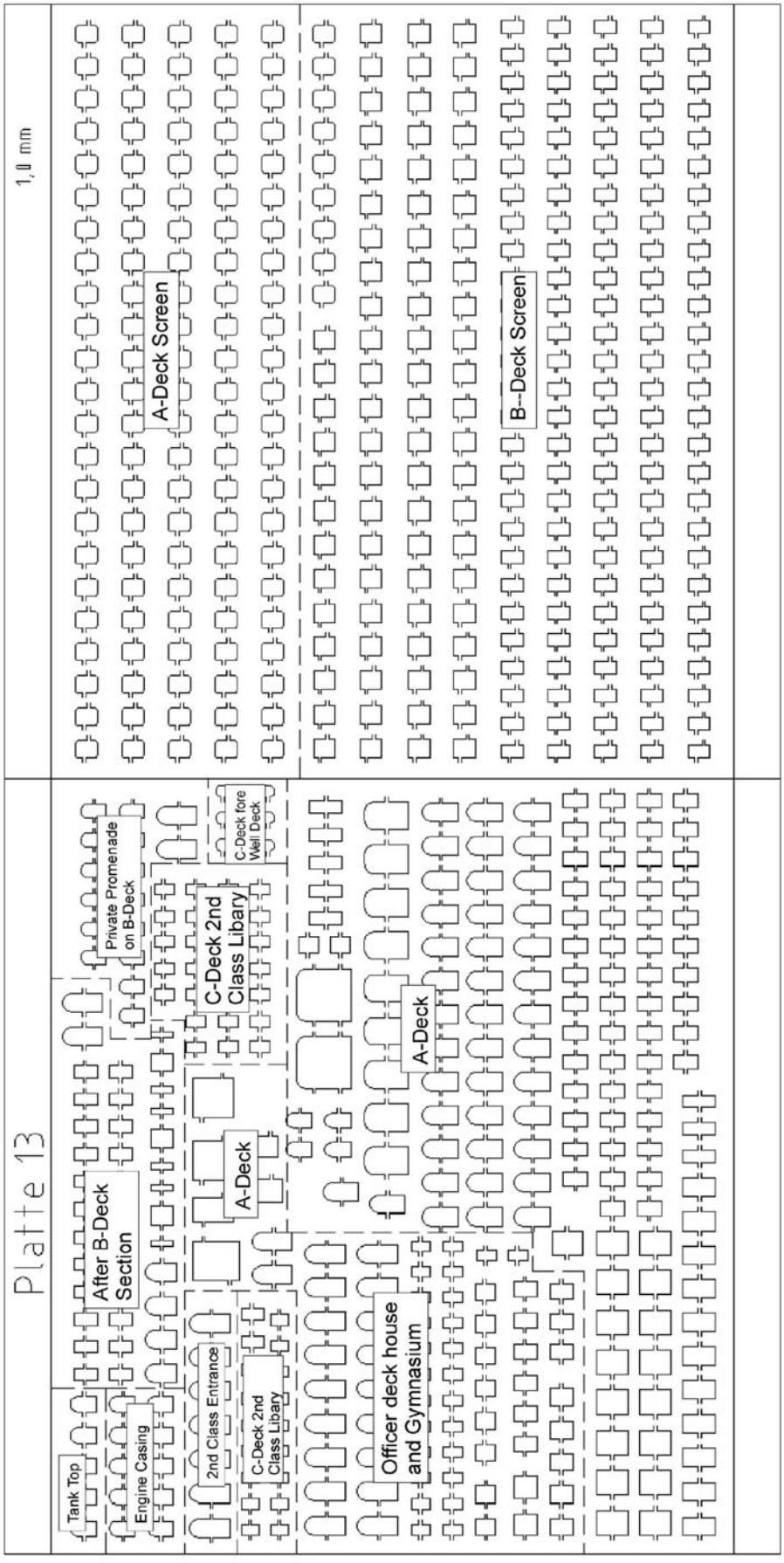
© Dr. Robert Hahn 2010, All rights reserved

4.12 Part Map PLATE 12



© Dr. Robert Hahn 2010, All rights reserved

4.13 Part Map PLATE 13



© Dr. Robert Hahn 2010, All rights reserved