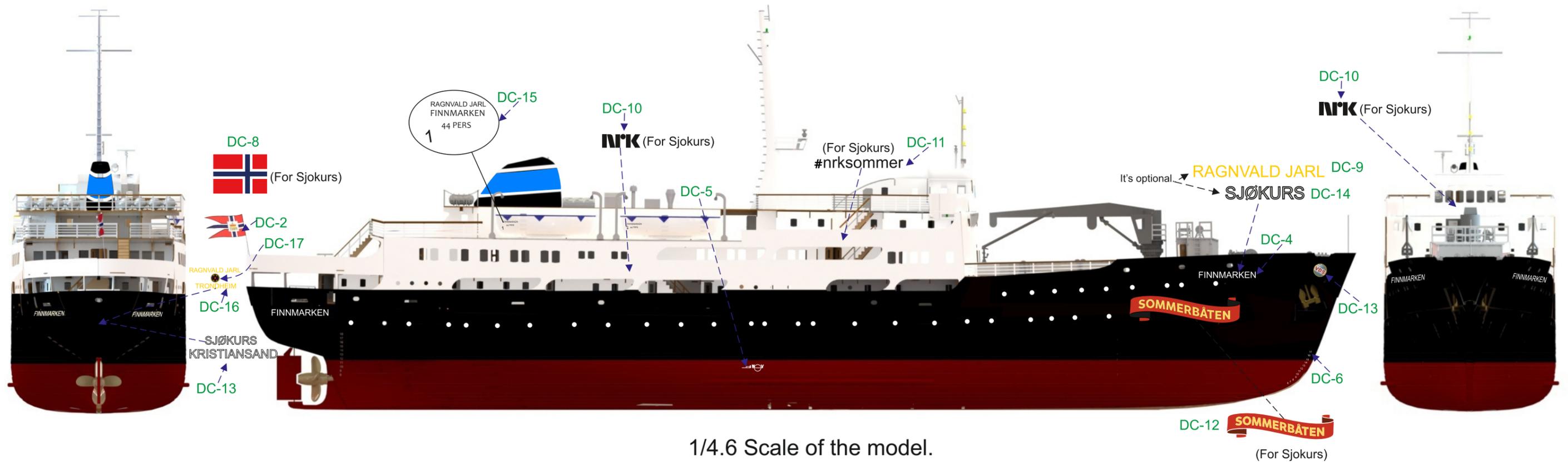
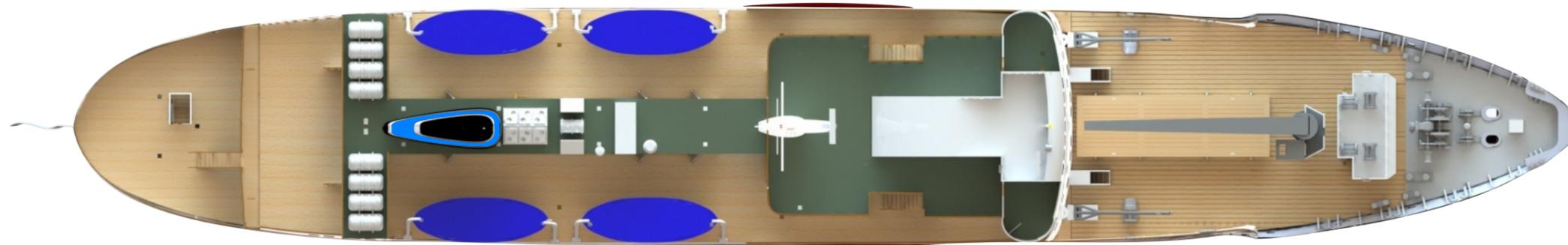
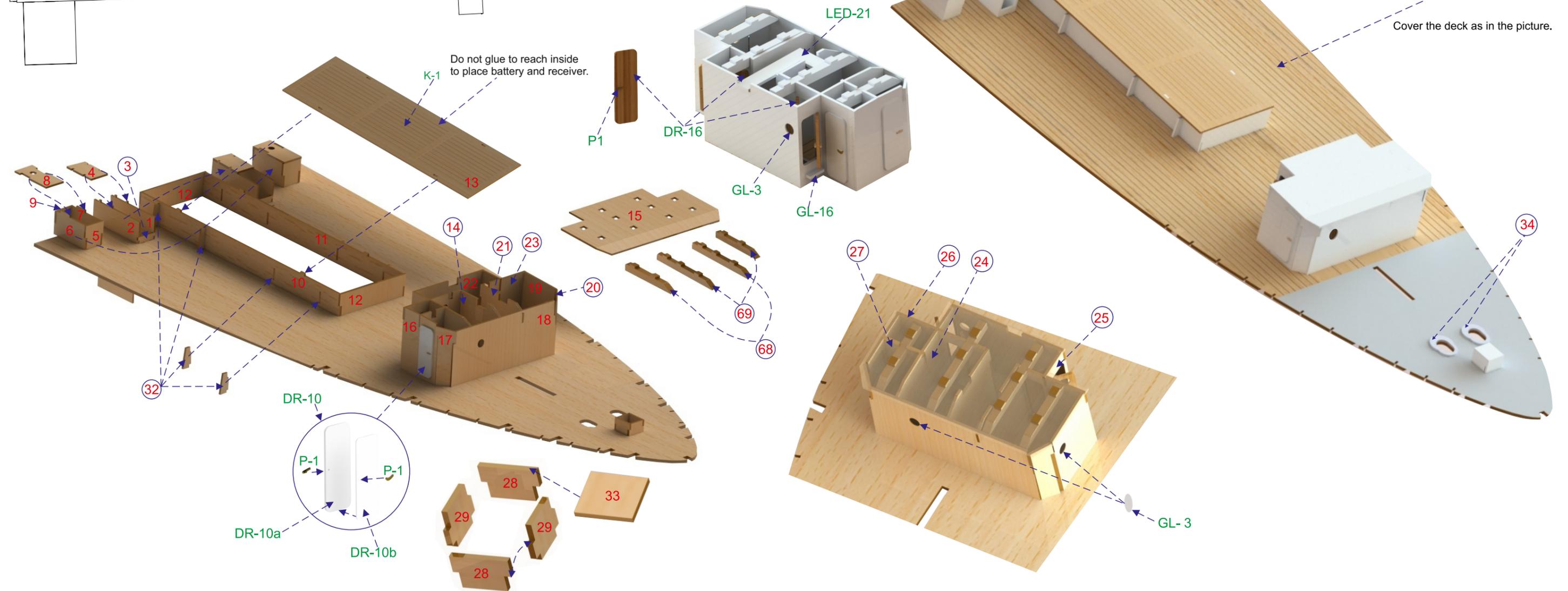
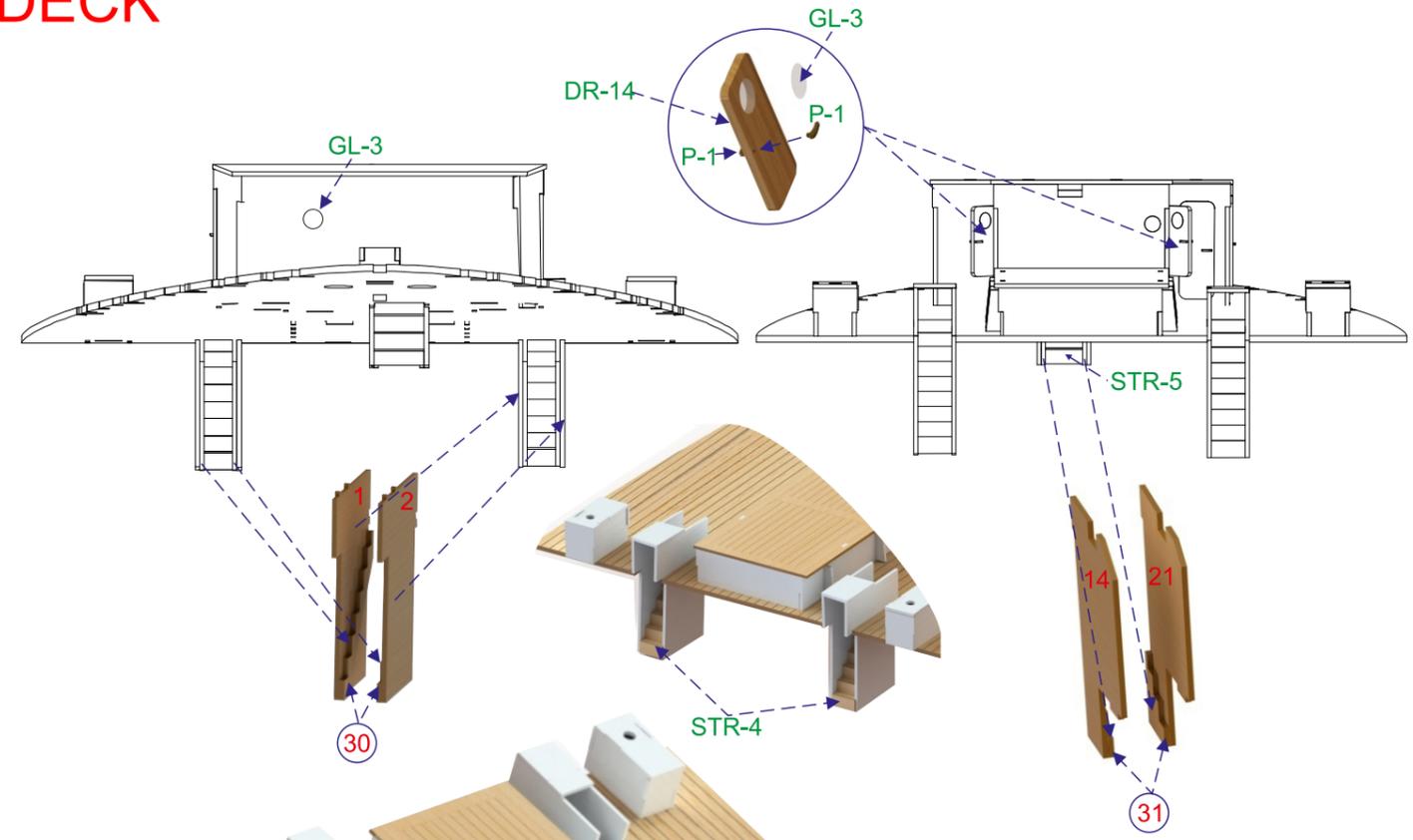
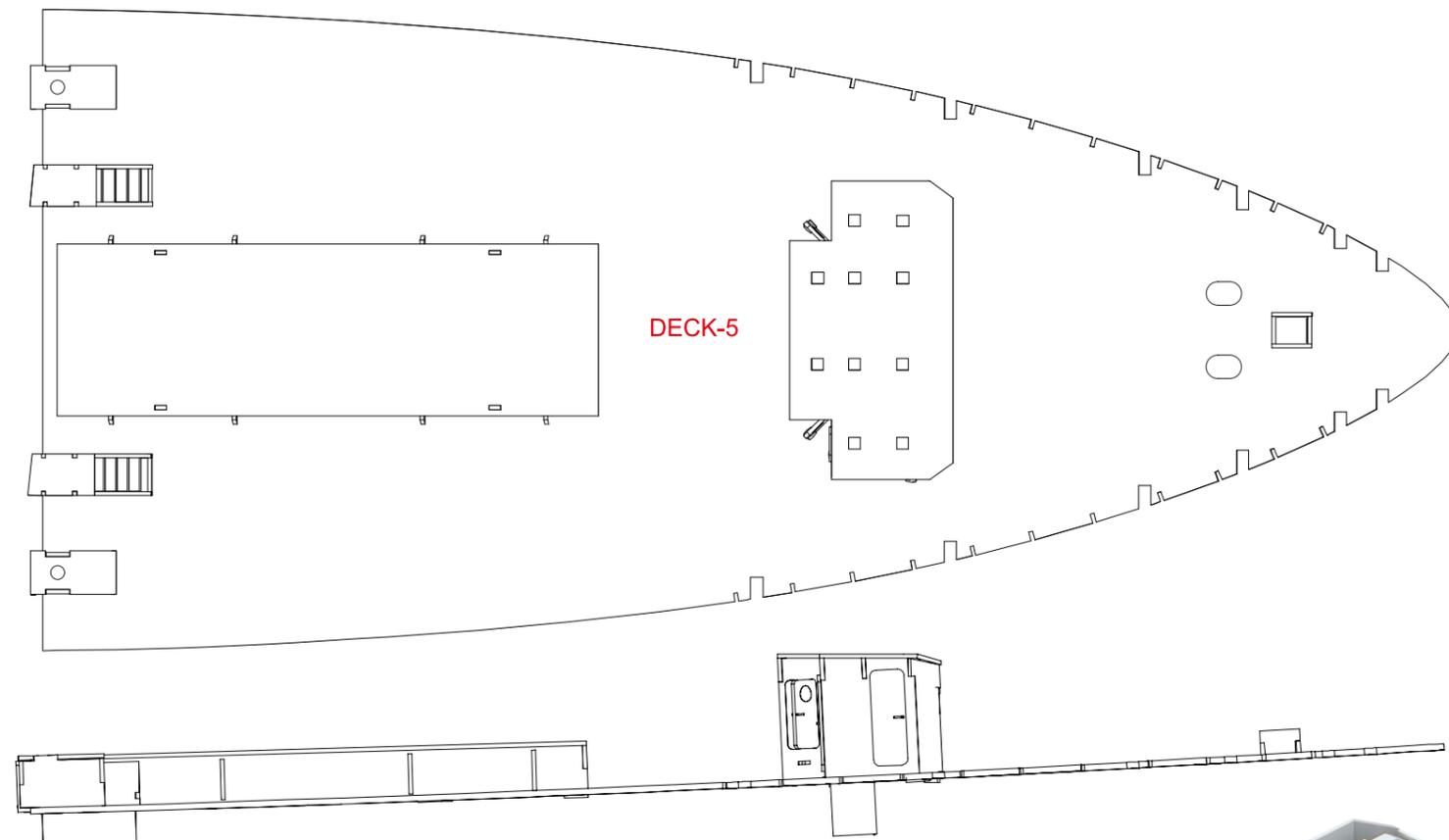


	PRIMER
	CLEAR WARNISH
	WHITE
	BLACK
	RED BROWN
	GREEN
	GREY
	BRASS
	BLUE
	DARK BLUE



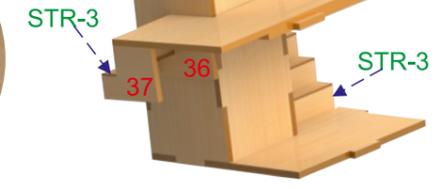
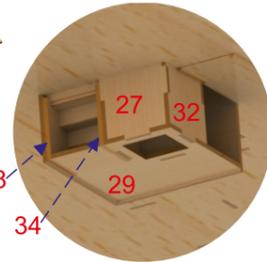
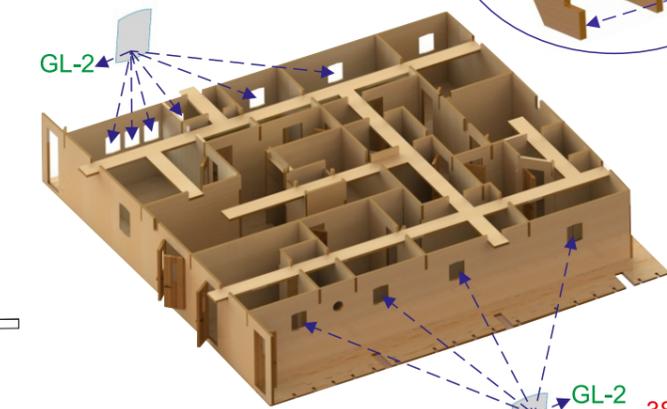
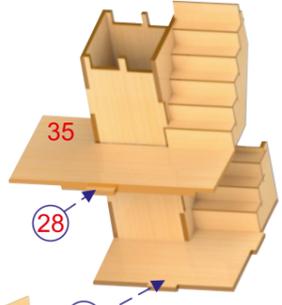
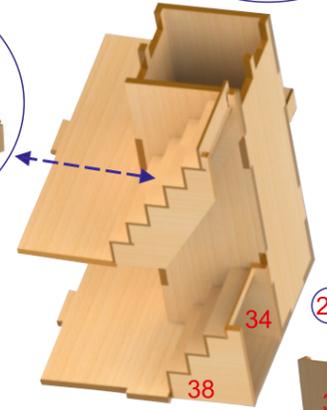
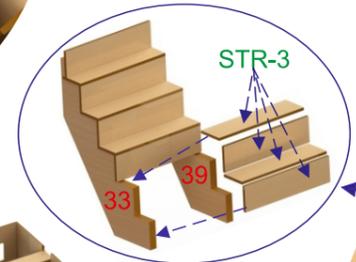
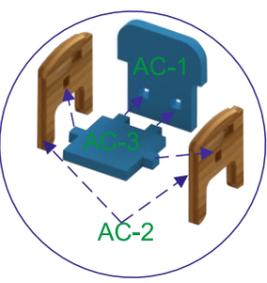
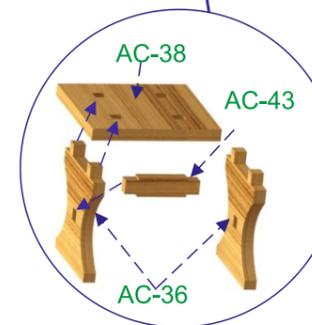
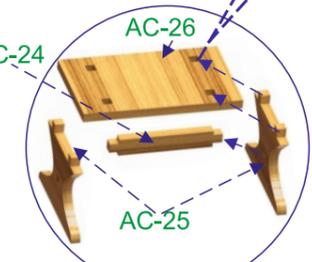
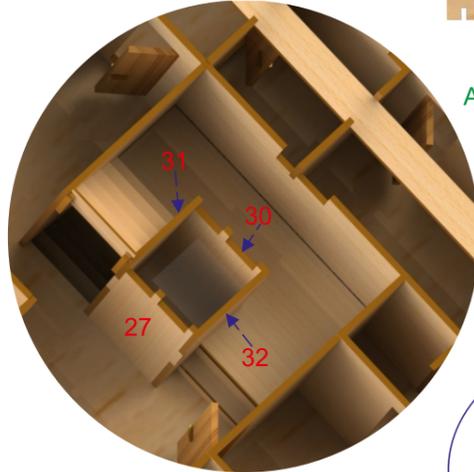
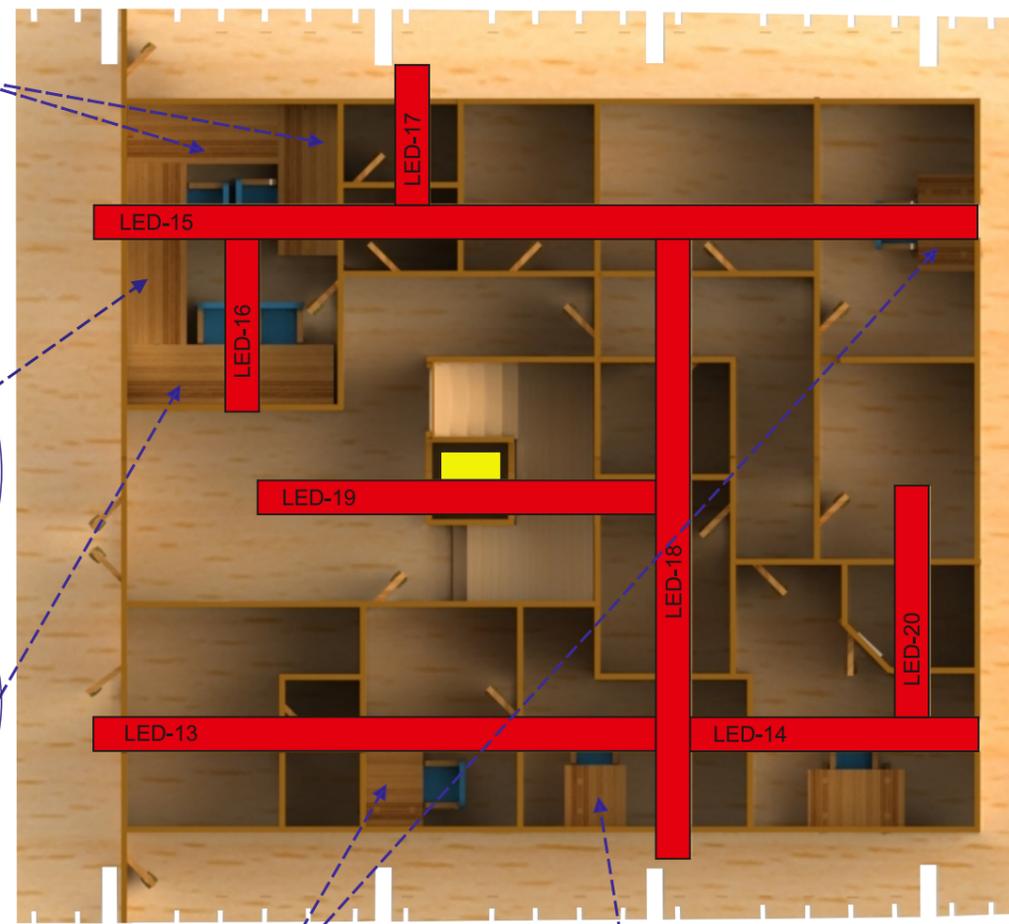
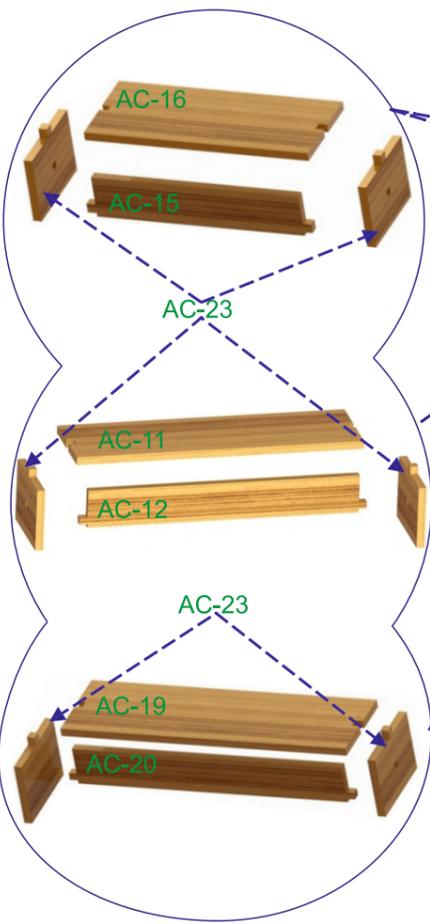
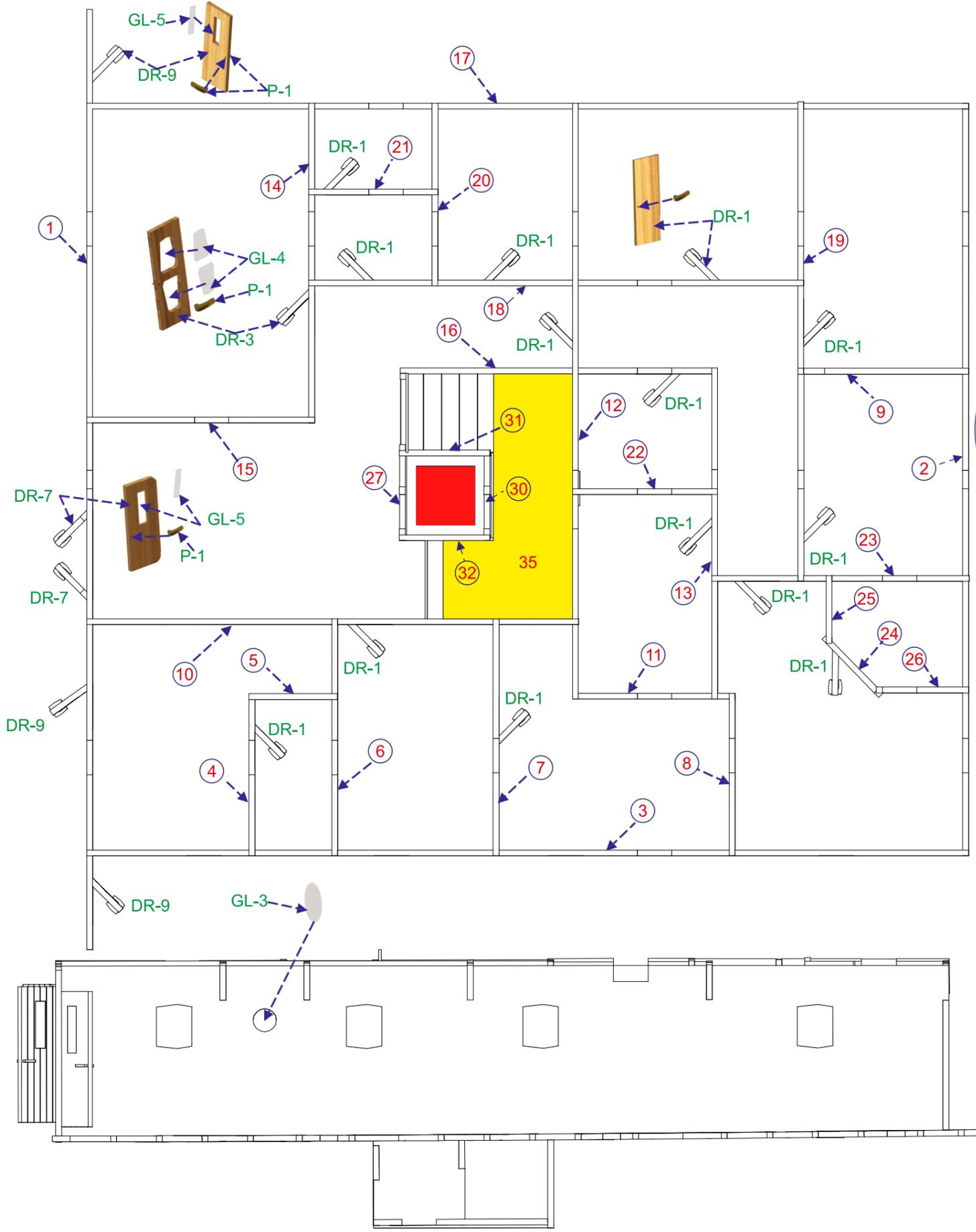
1/4.6 Scale of the model.

FRONT DECK



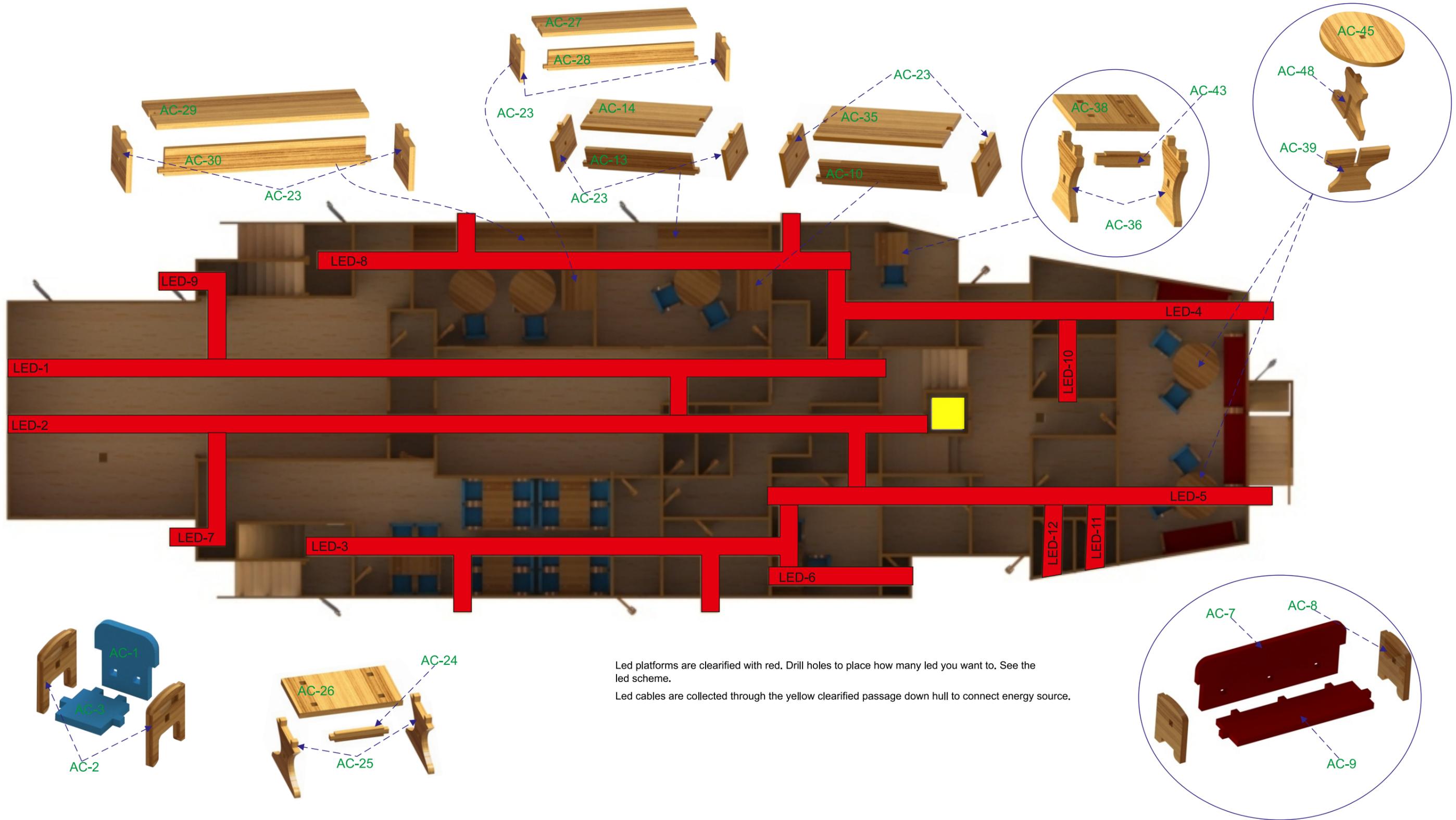
BOTTOM DECK FRONT

Led platforms are cleared with red. Drill holes to place how many led you want to. See the led scheme.
 Led cables are collected through the yellow cleared passage down hull to connect energy source.

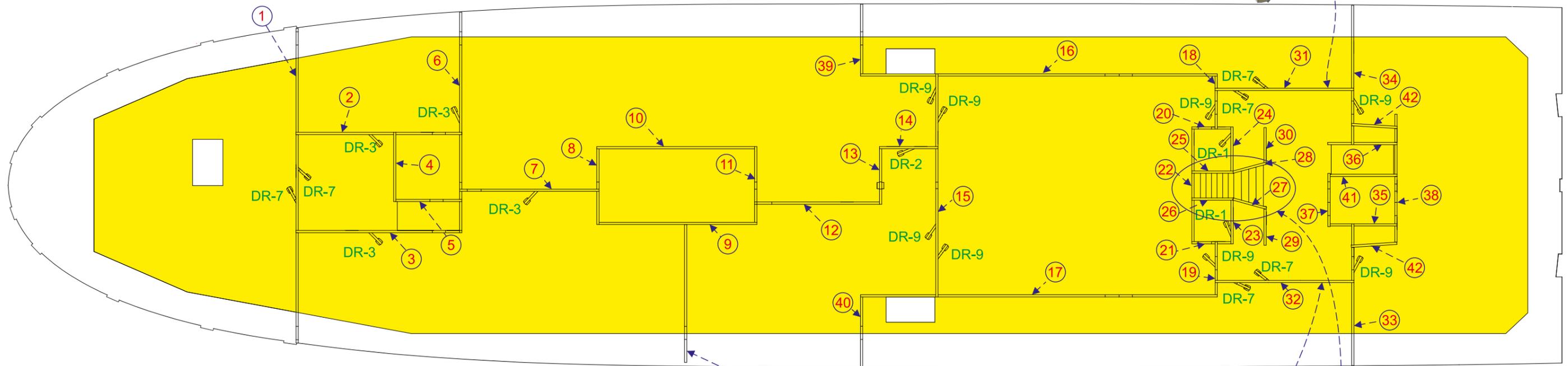


Use special cement to attach the glasses.

BOTTOM DECK BACK-2



UPPER DECK-1

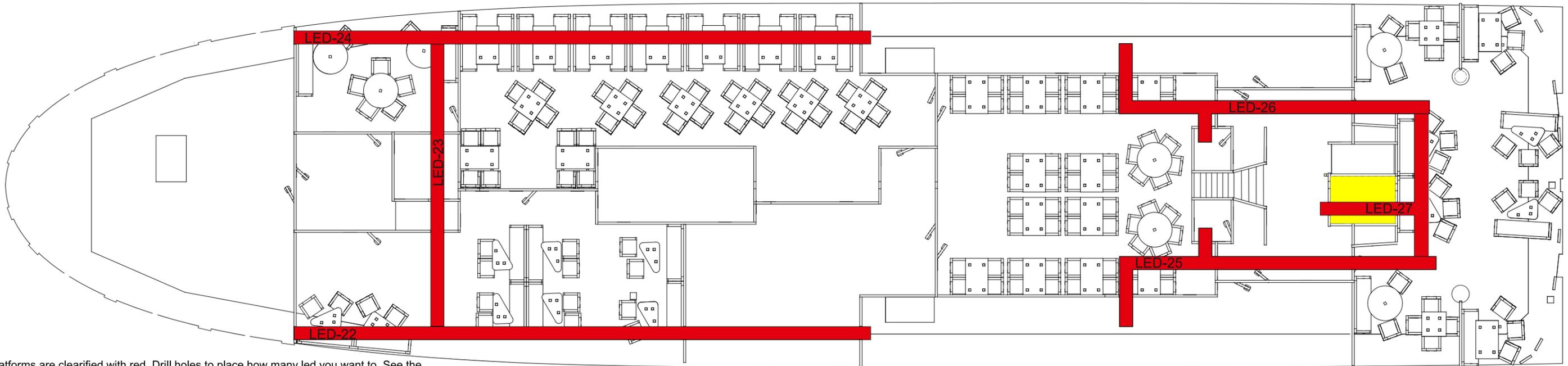
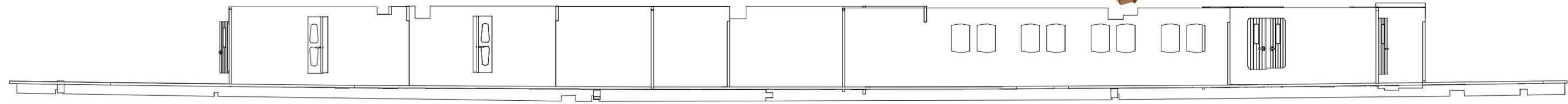
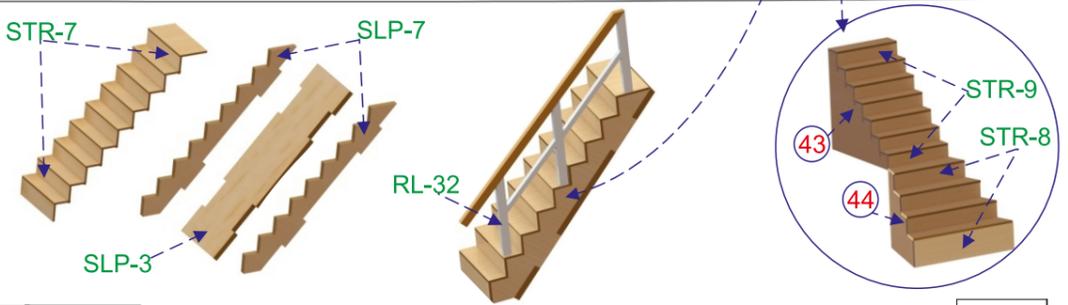


Yellow are will be seperated after the rooms are existed. Be careful of placing the seats.
Do not glue the wall part on the white area. Yellow area is existed moveable.

SLN-36

STR-7

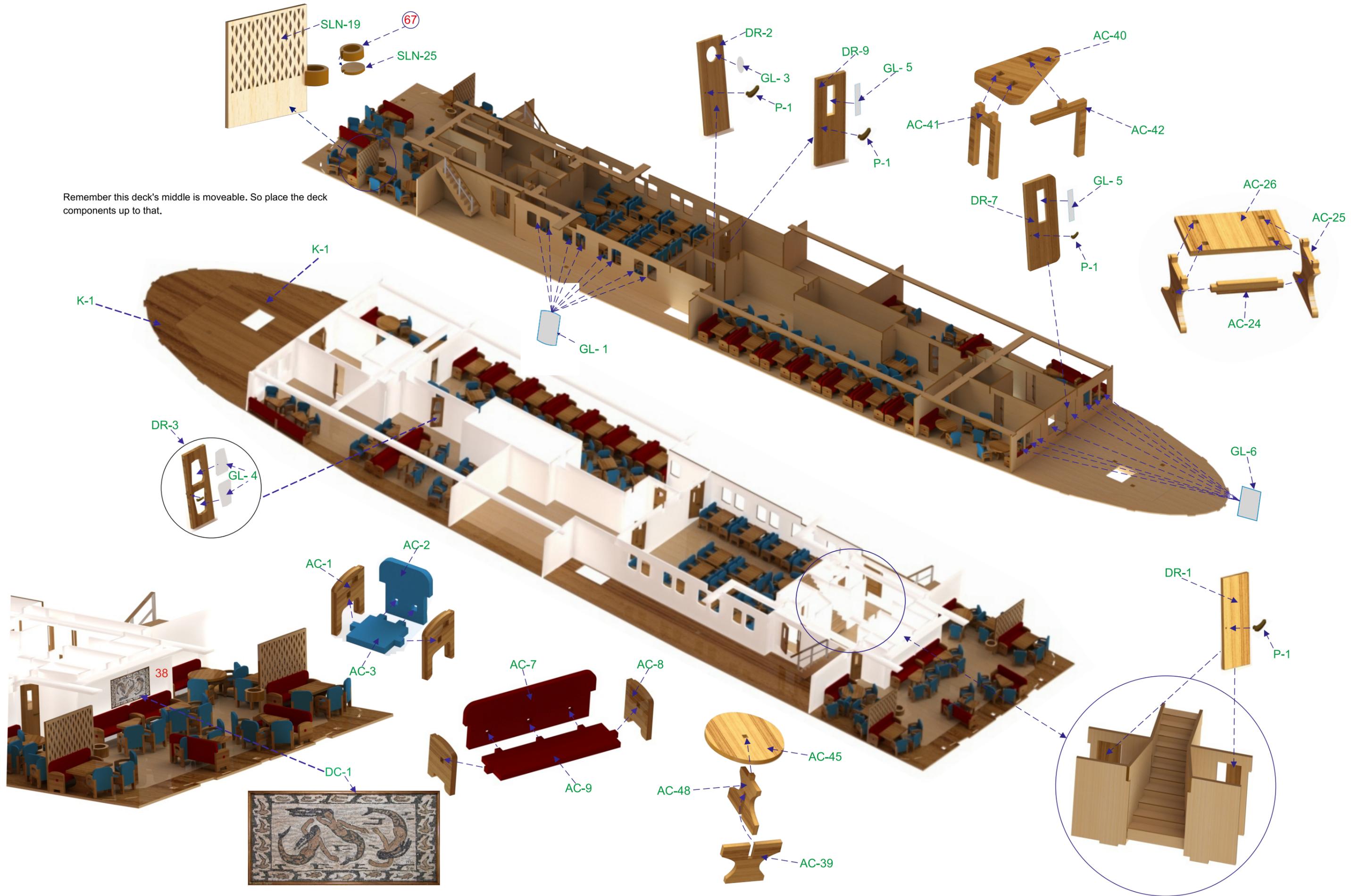
SLP-7



Led platforms are cleared with red. Drill holes to place how many led you want to. See the led scheme.

Led cables are collected through the yellow cleared passage down hull to connect energy source.

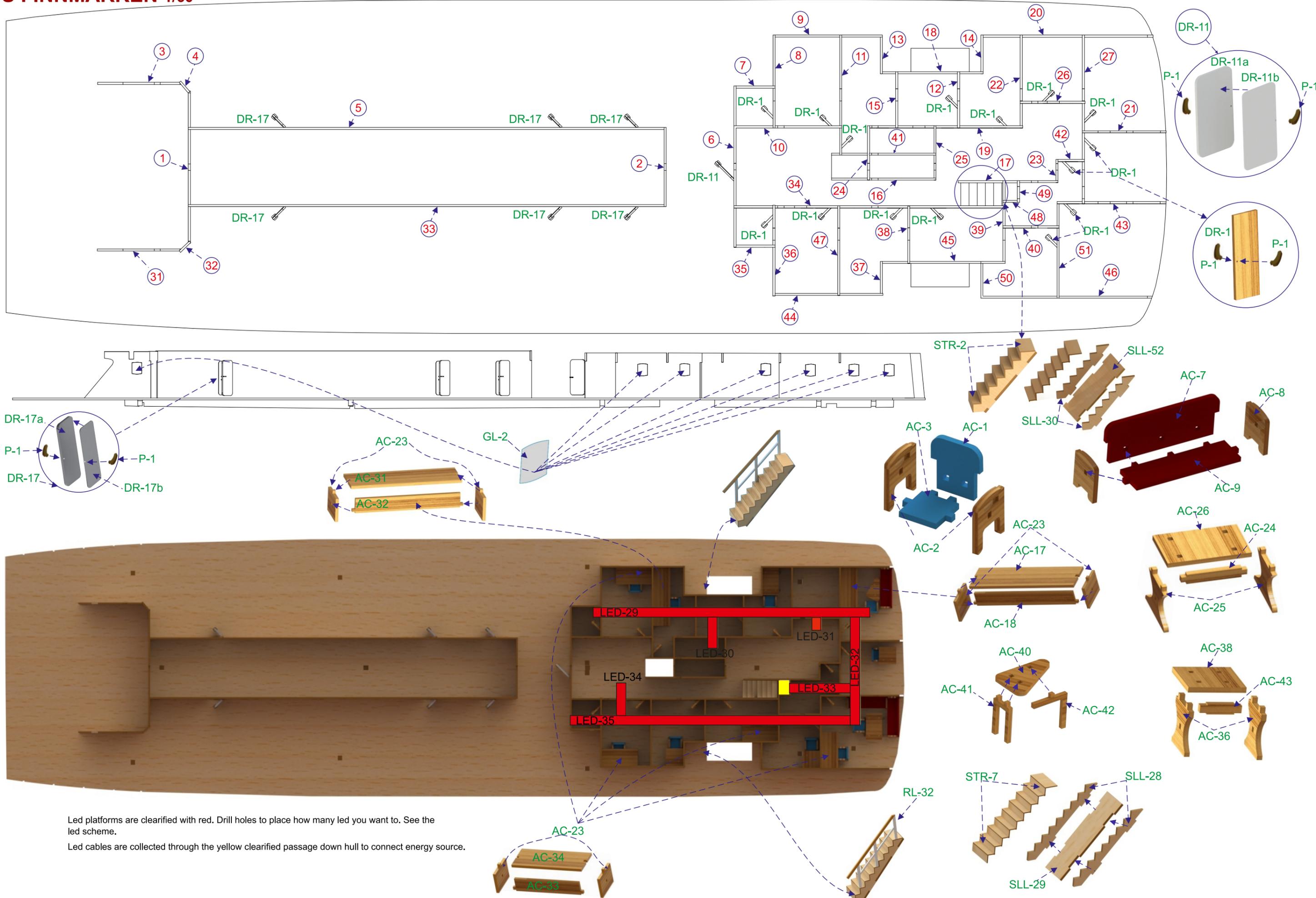
UPPER DECK-2



Remember this deck's middle is moveable. So place the deck components up to that.

38

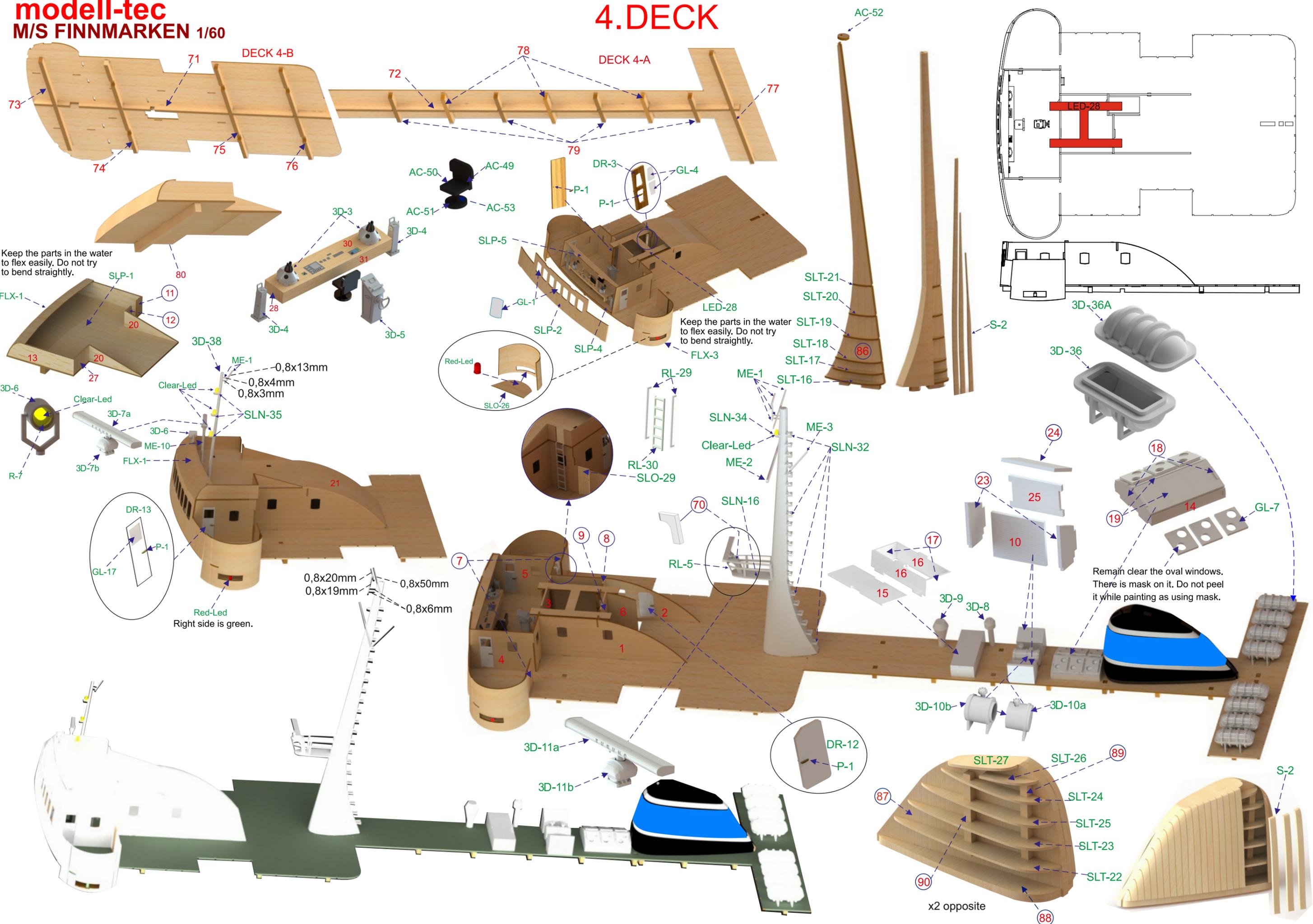
3.DECK



Led platforms are cleared with red. Drill holes to place how many led you want to. See the led scheme.
Led cables are collected through the yellow cleared passage down hull to connect energy source.



4.DECK



DECK 4-B

DECK 4-A

Keep the parts in the water to flex easily. Do not try to bend straightly.

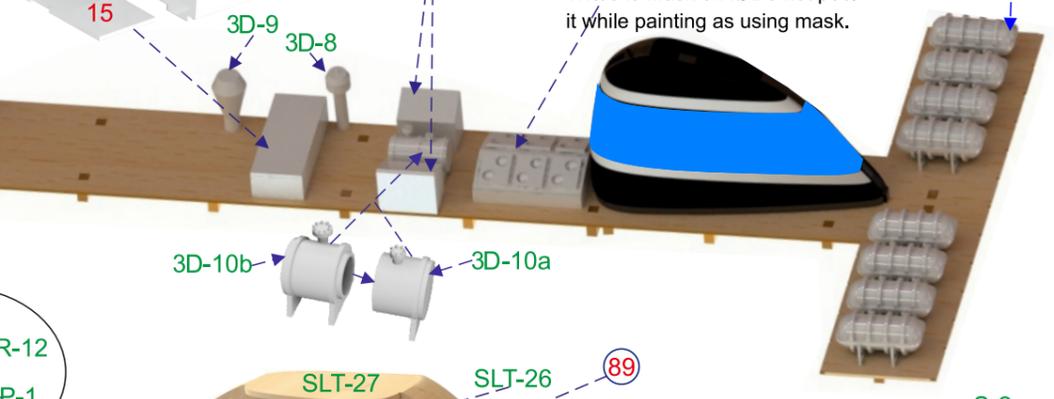
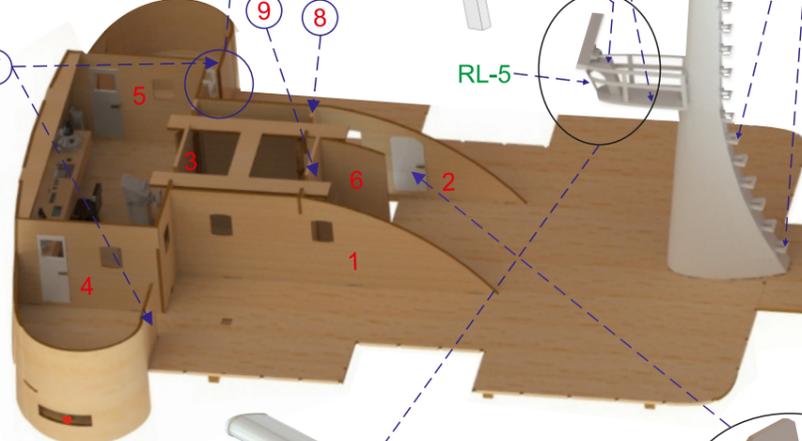
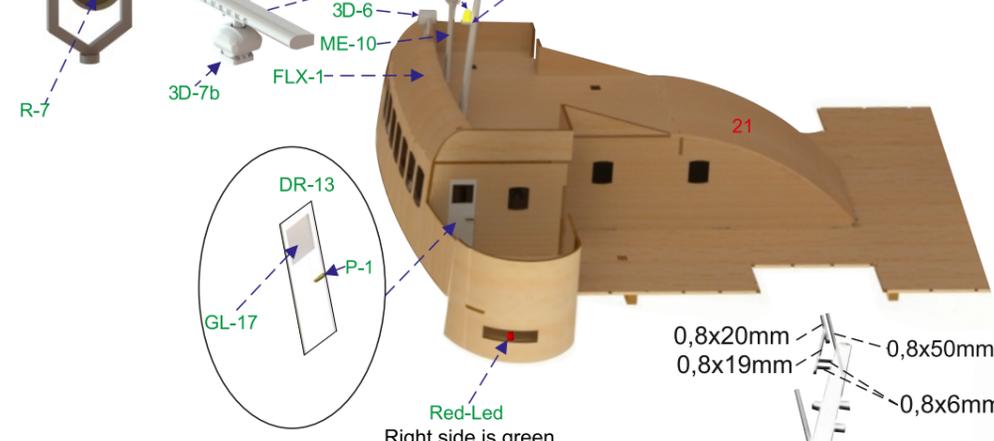
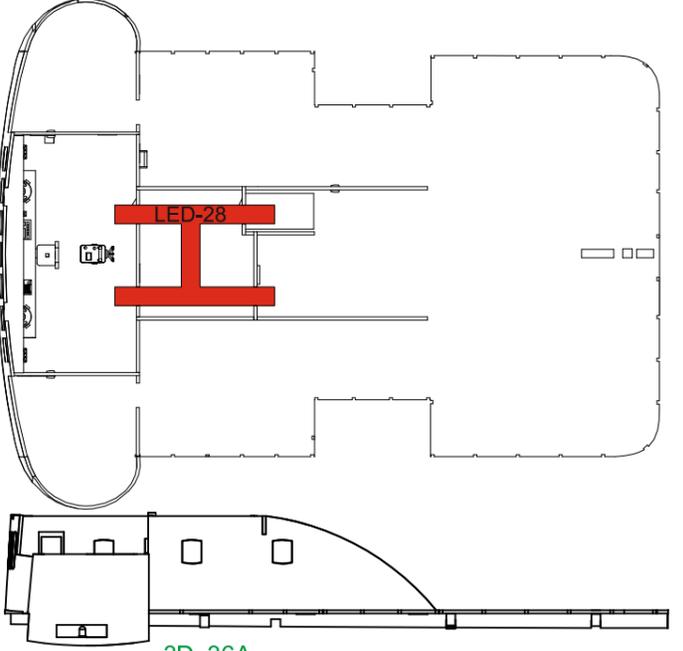
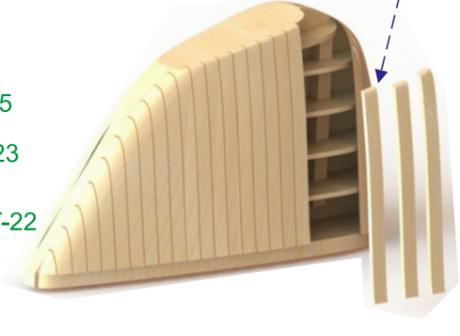
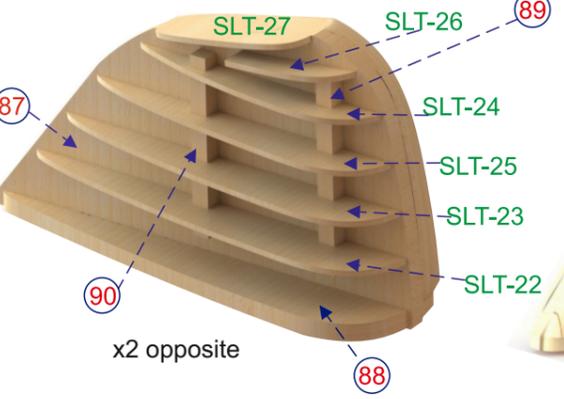
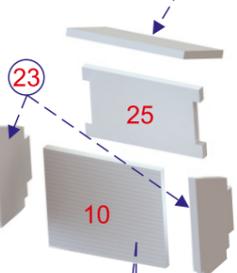
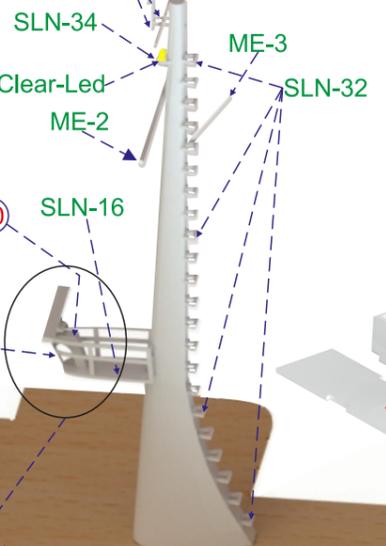
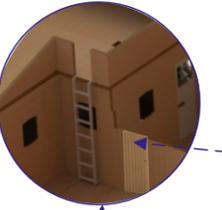
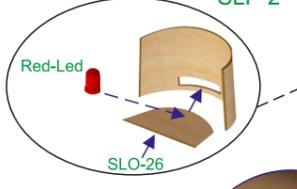
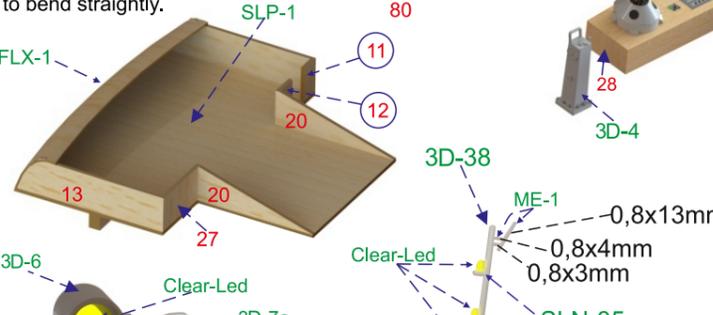
Keep the parts in the water to flex easily. Do not try to bend straightly.

Remain clear the oval windows. There is mask on it. Do not peel it while painting as using mask.

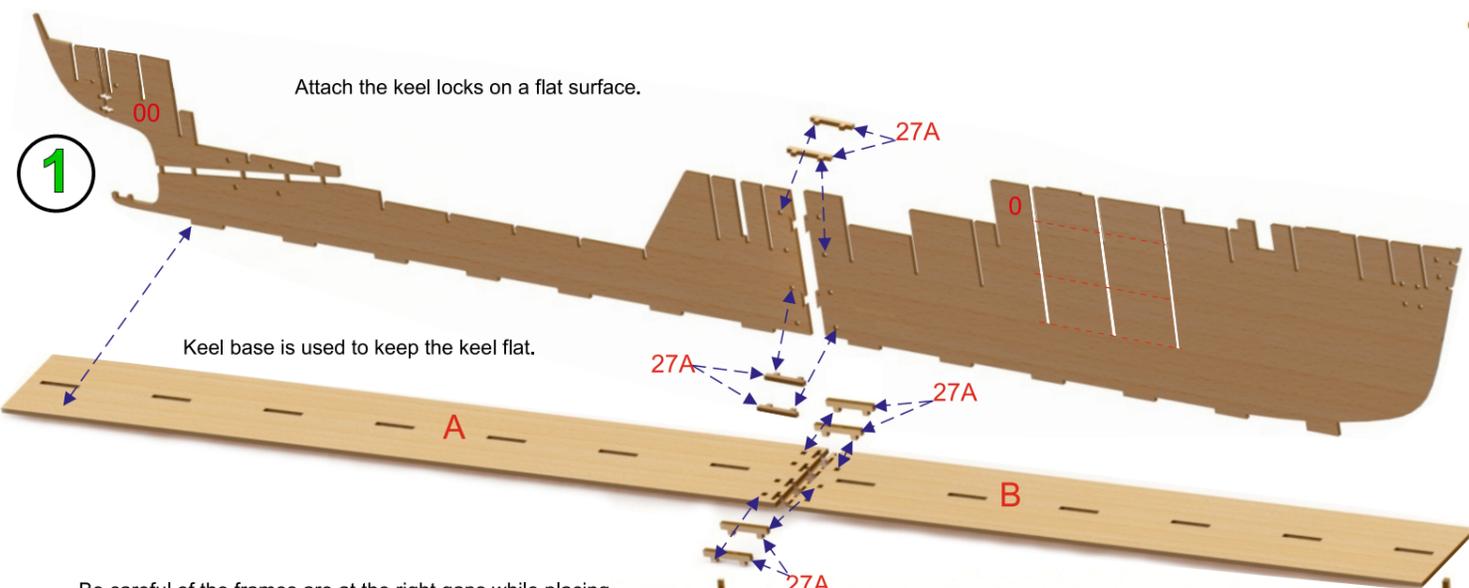
Red-Led
Right side is green.

0,8x20mm
0,8x19mm
0,8x50mm
0,8x6mm

x2 opposite



1

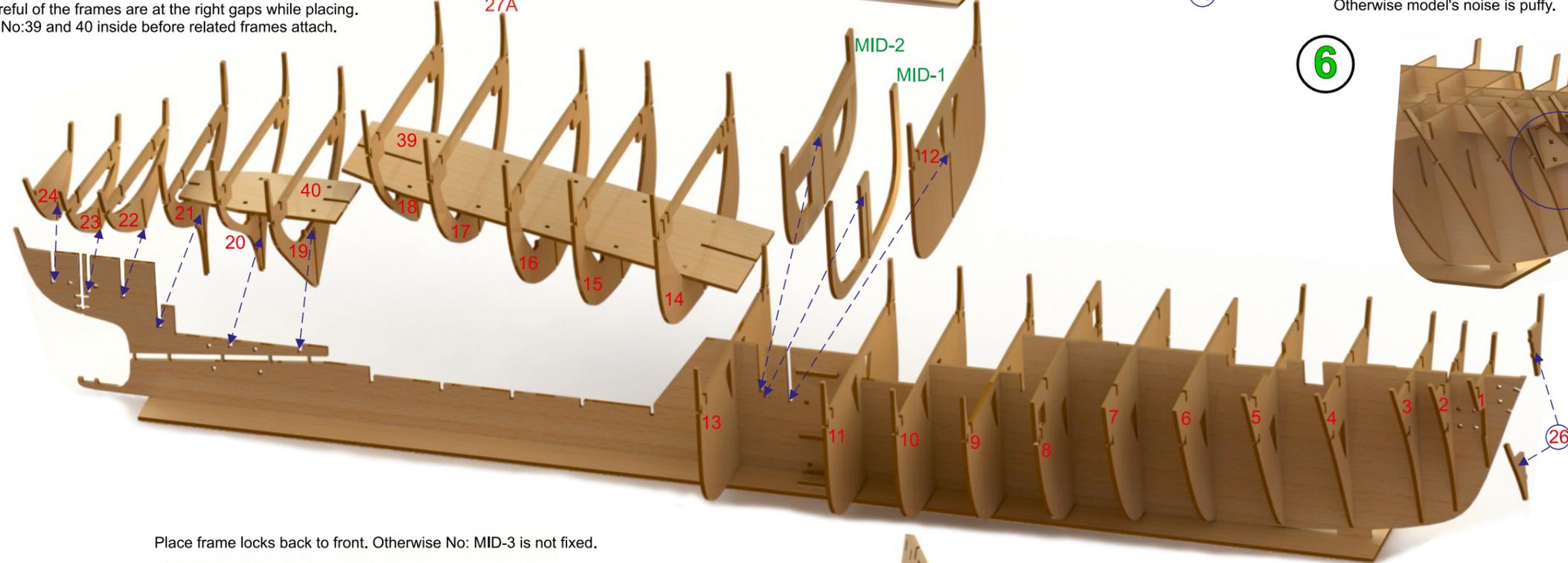


Attach the keel locks on a flat surface.

Keel base is used to keep the keel flat.

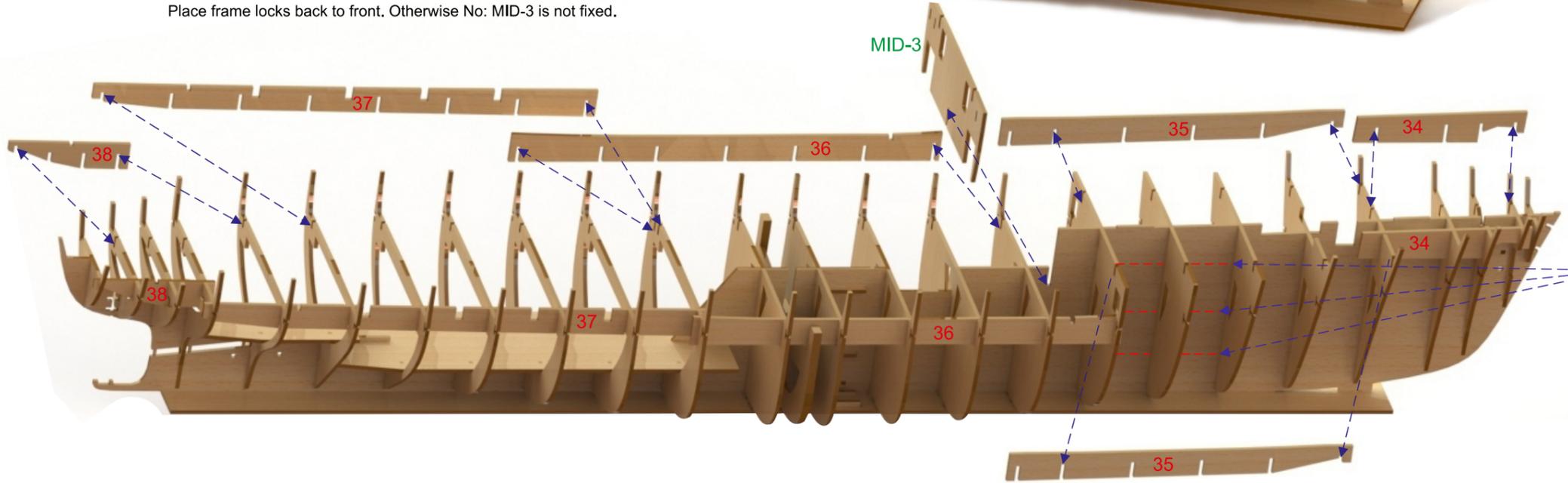
Be careful of the frames are at the right gaps while placing. Place No:39 and 40 inside before related frames attach.

2



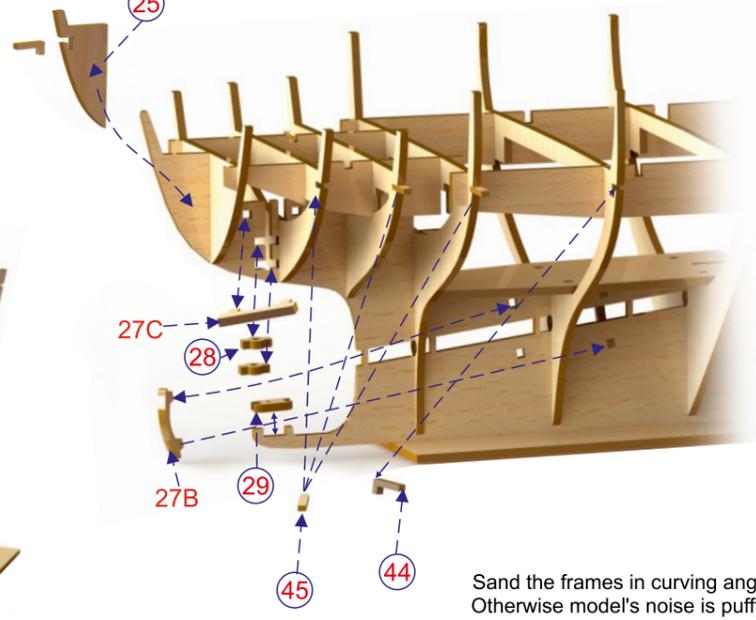
Place frame locks back to front. Otherwise No: MID-3 is not fixed.

3



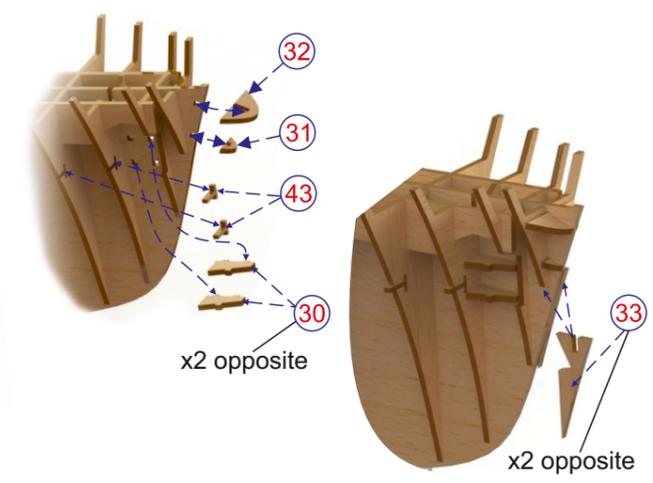
Break off the pointed place to make a gap for battery and receiver after placing the keel locks.

4



Sand the frames in curving angle at the back. Otherwise model's back is puffy.

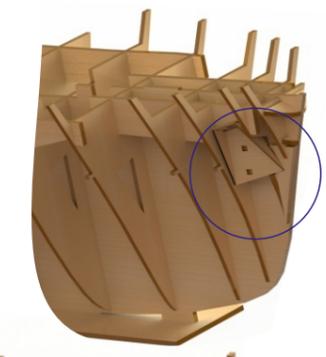
5



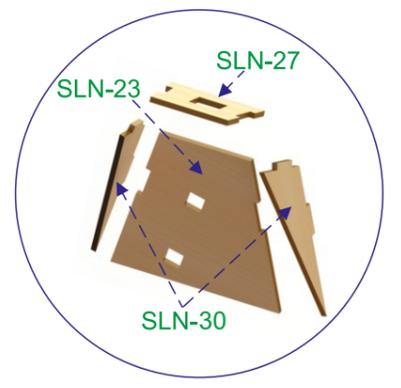
x2 opposite

x2 opposite

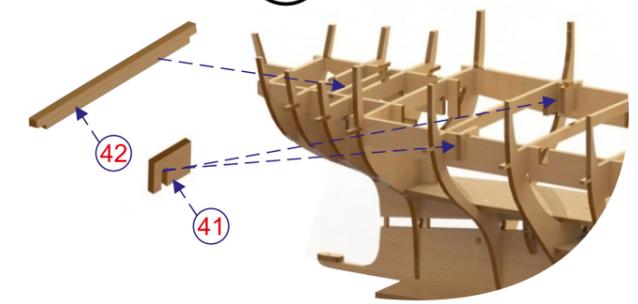
6



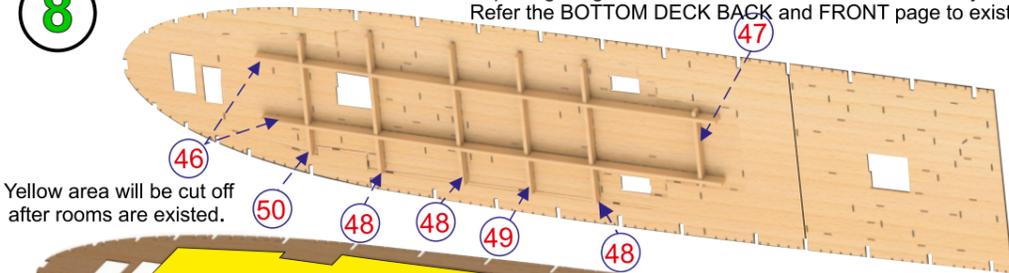
Sand the frames in curving angle at the front. Otherwise model's nose is puffy.



7

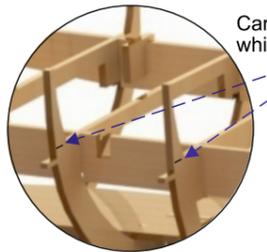
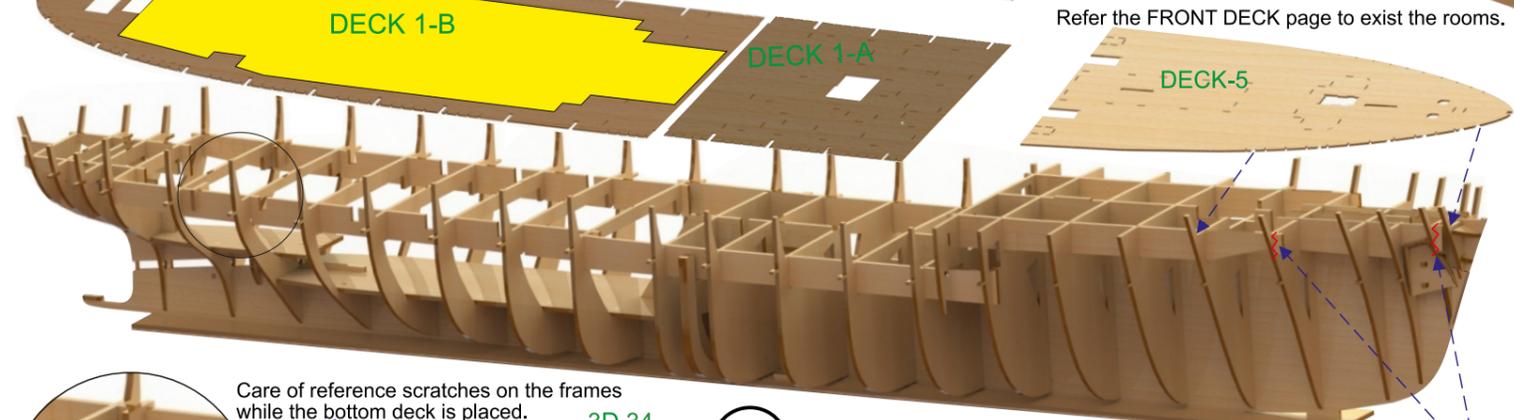


8

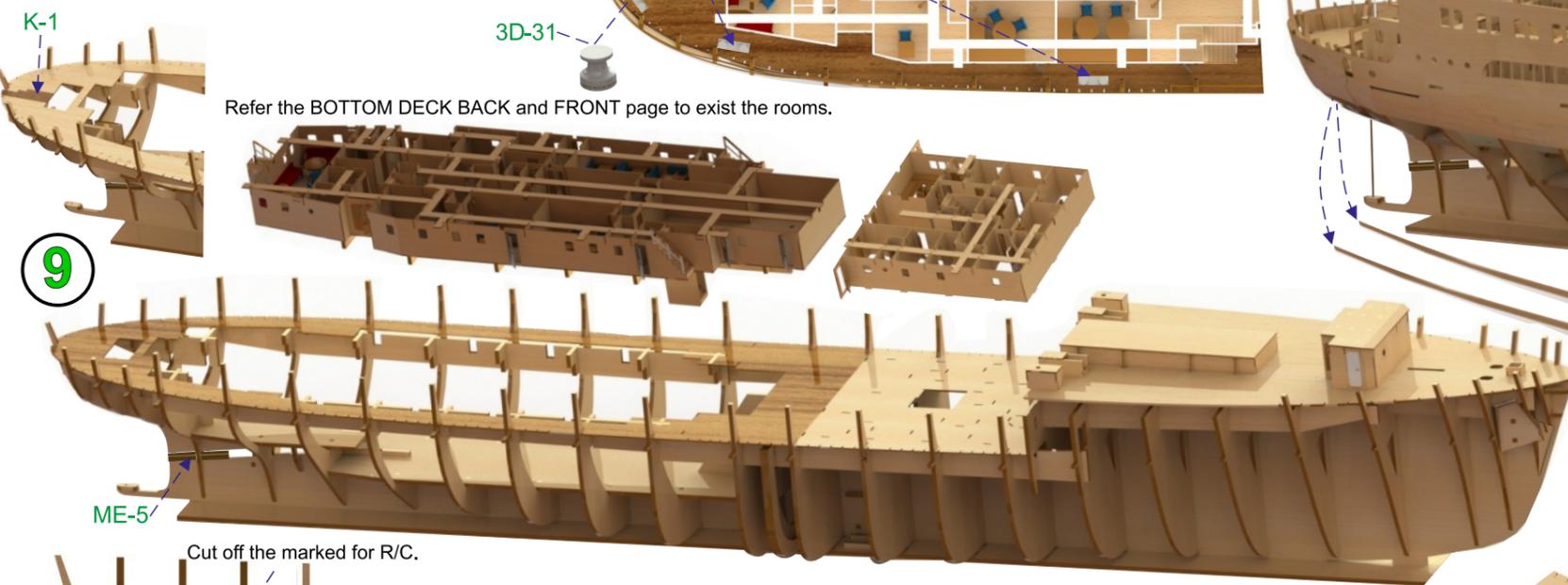


Yellow area will be cut off after rooms are existed.

Tiny plywoods are so sensible to weather and stock conditions. They can be bent easily. If you face such a problem, do not worry. Just make them wet a little and lay on flat surface putting weight on it for a while. You will see them they are flat later. Refer the BOTTOM DECK BACK and FRONT page to exist the rooms.

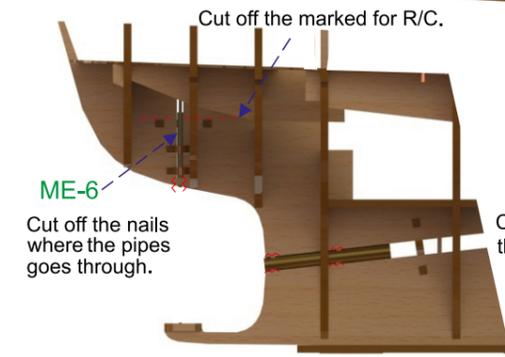


Care of reference scratches on the frames while the bottom deck is placed.



9

Refer the BOTTOM DECK BACK and FRONT page to exist the rooms.

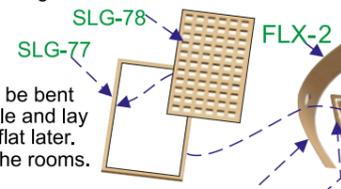


Cut off the nails where the pipes goes through.

Cut off the nails where the pipes goes through.

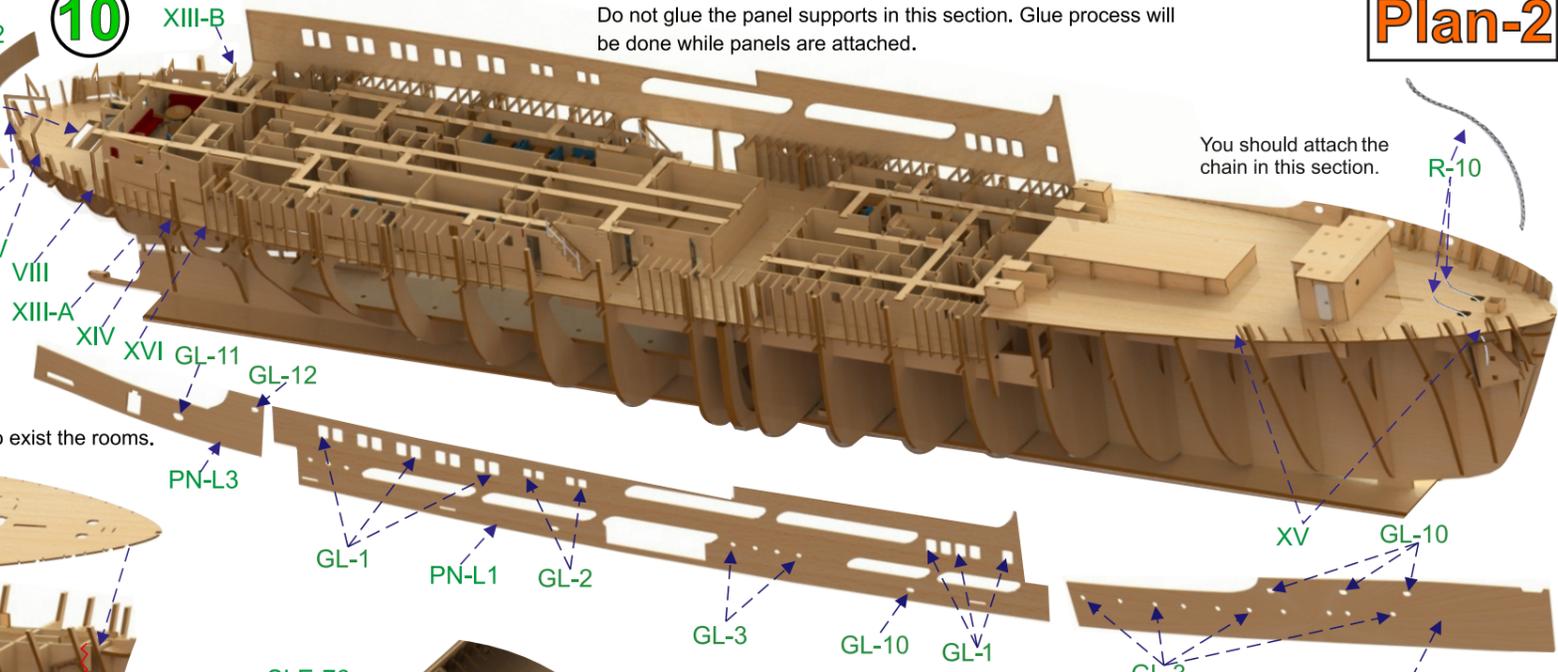
Do not glue the grill. You might need to fix the rudder shaft later.

10



Keep the parts in the water to flex easily. Do not try to bend straightly.

Refer the FRONT DECK page to exist the rooms.

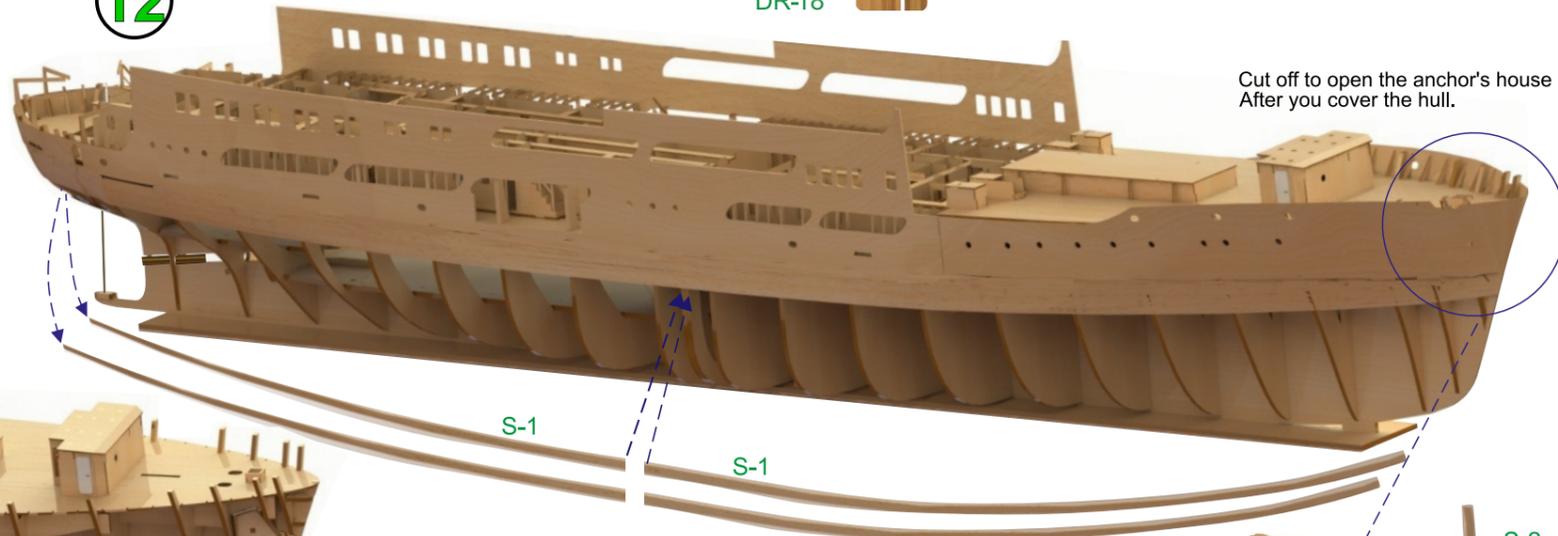


Do not glue the panel supports in this section. Glue process will be done while panels are attached.

You should attach the chain in this section.

11

Break off the tips of the frame locks.



Glue the panels to the tip of the frames. In this process, panel supports still are free. After the panels are glued to the frames, then panel supports may be glued. Finally cut off the frame tips carefully.

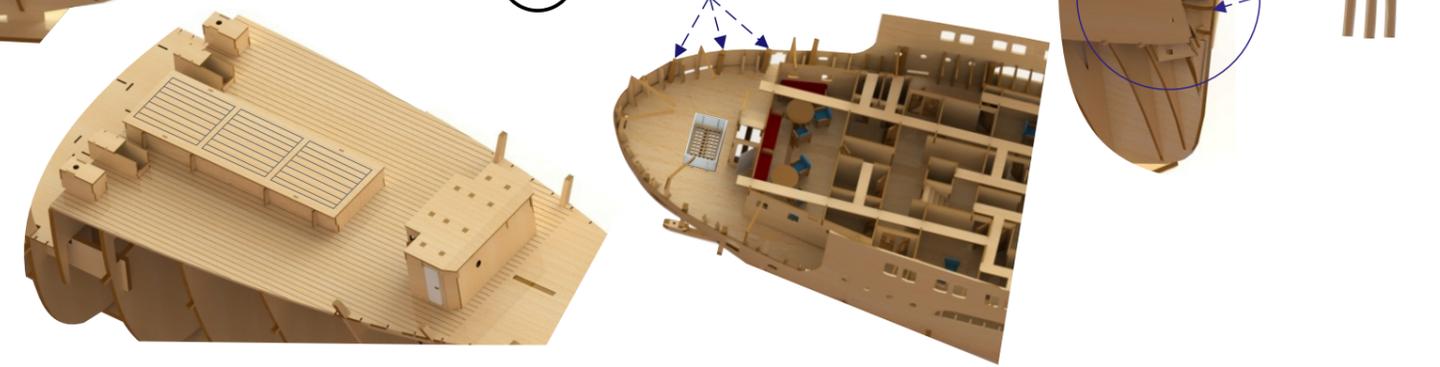
Glue the SLC-75 AND 76 only deck, not to the wall.

Cut off to open the anchor's house After you cover the hull.

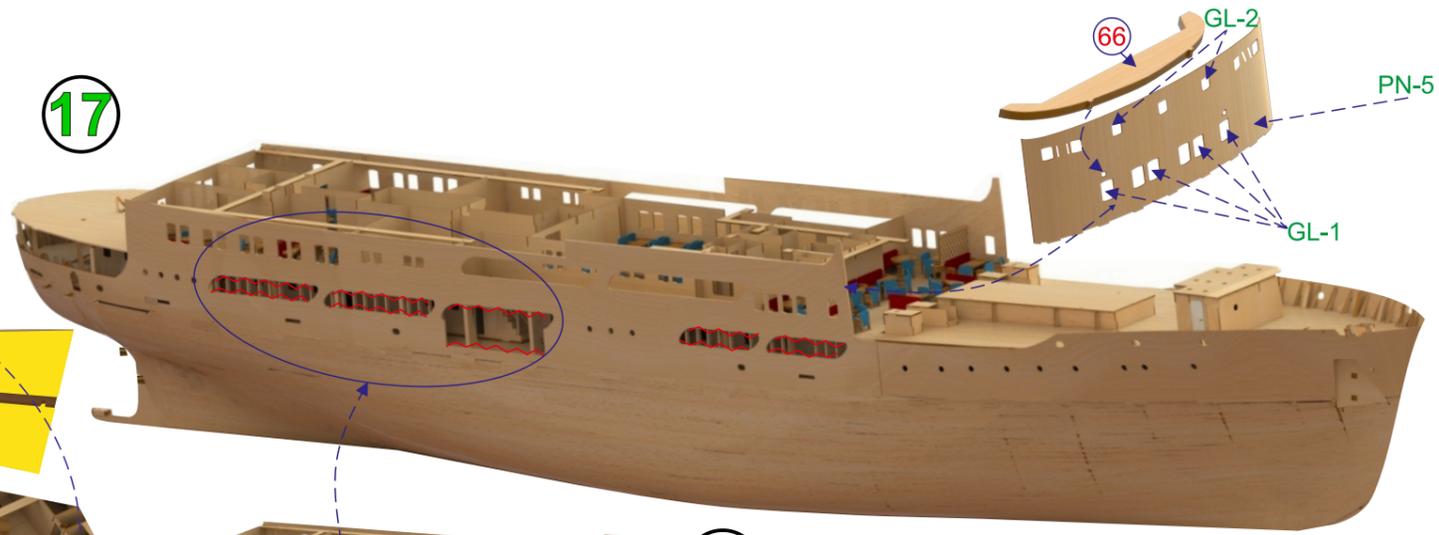
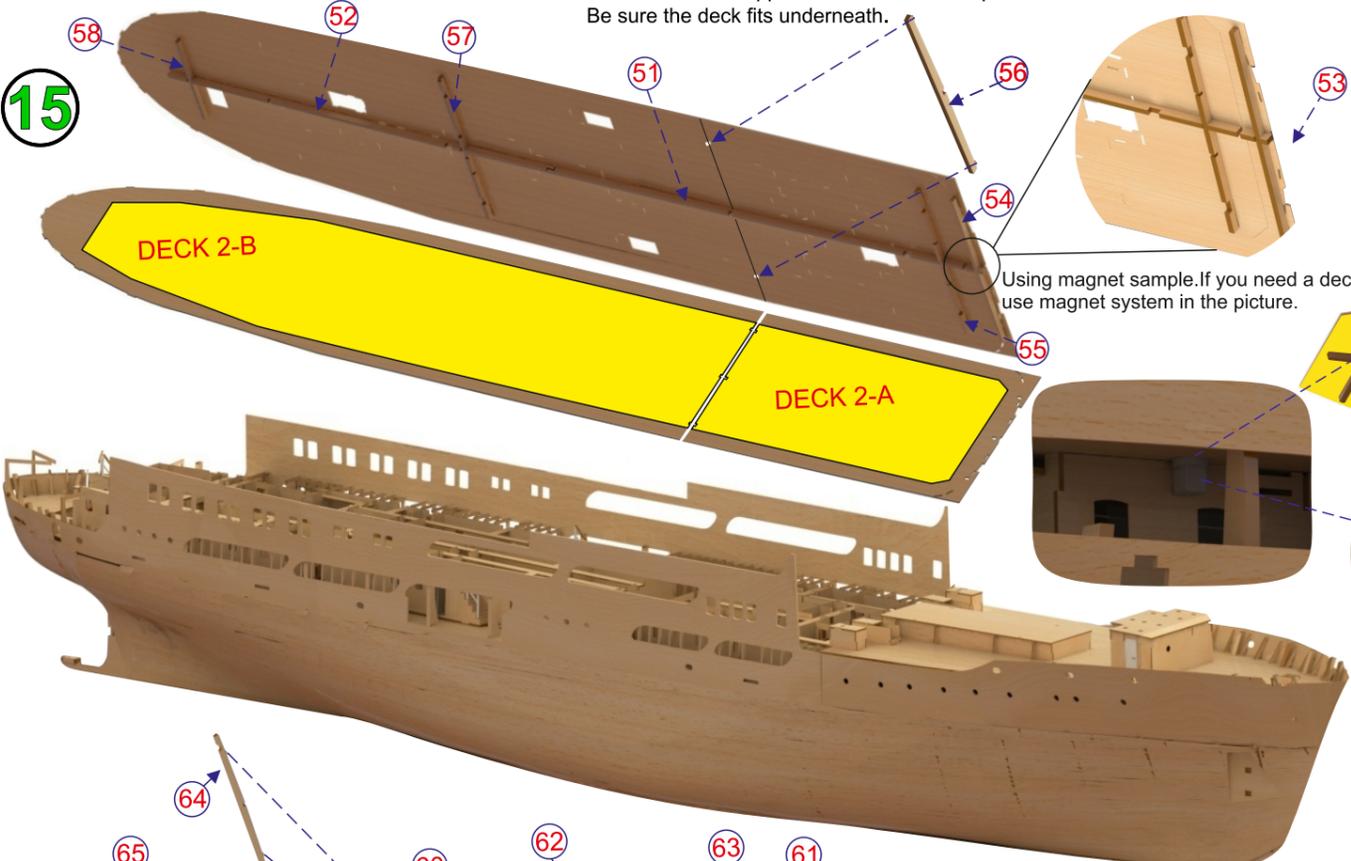
Do not cover whole body. Because you might need some gaps at the hull to set some electric set-up. You are advised to finish covering after all deck are built.

14

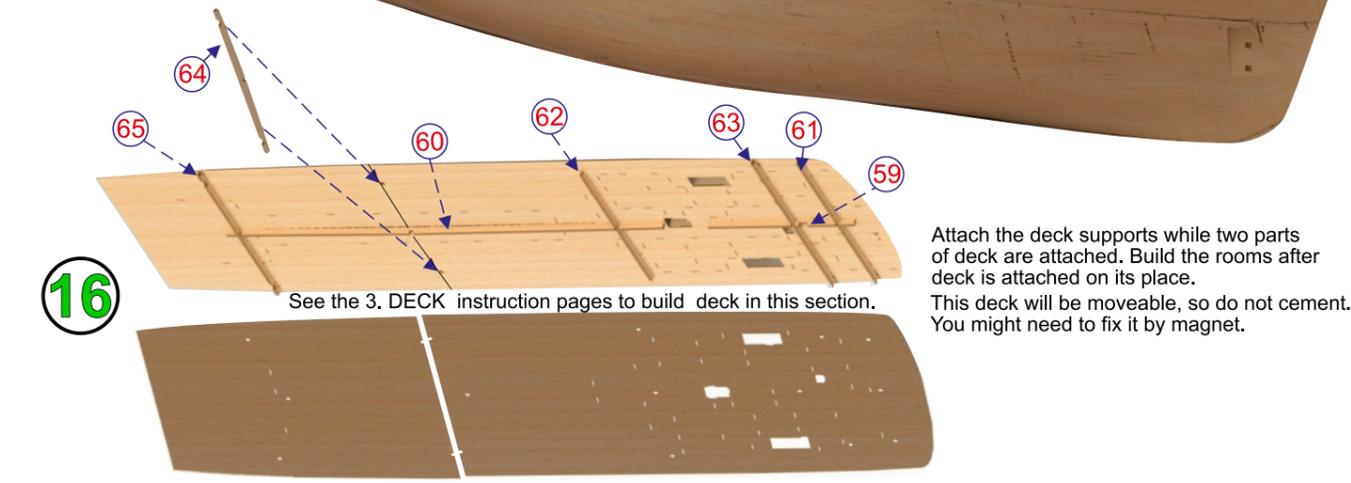
Break off the tips of the frames.



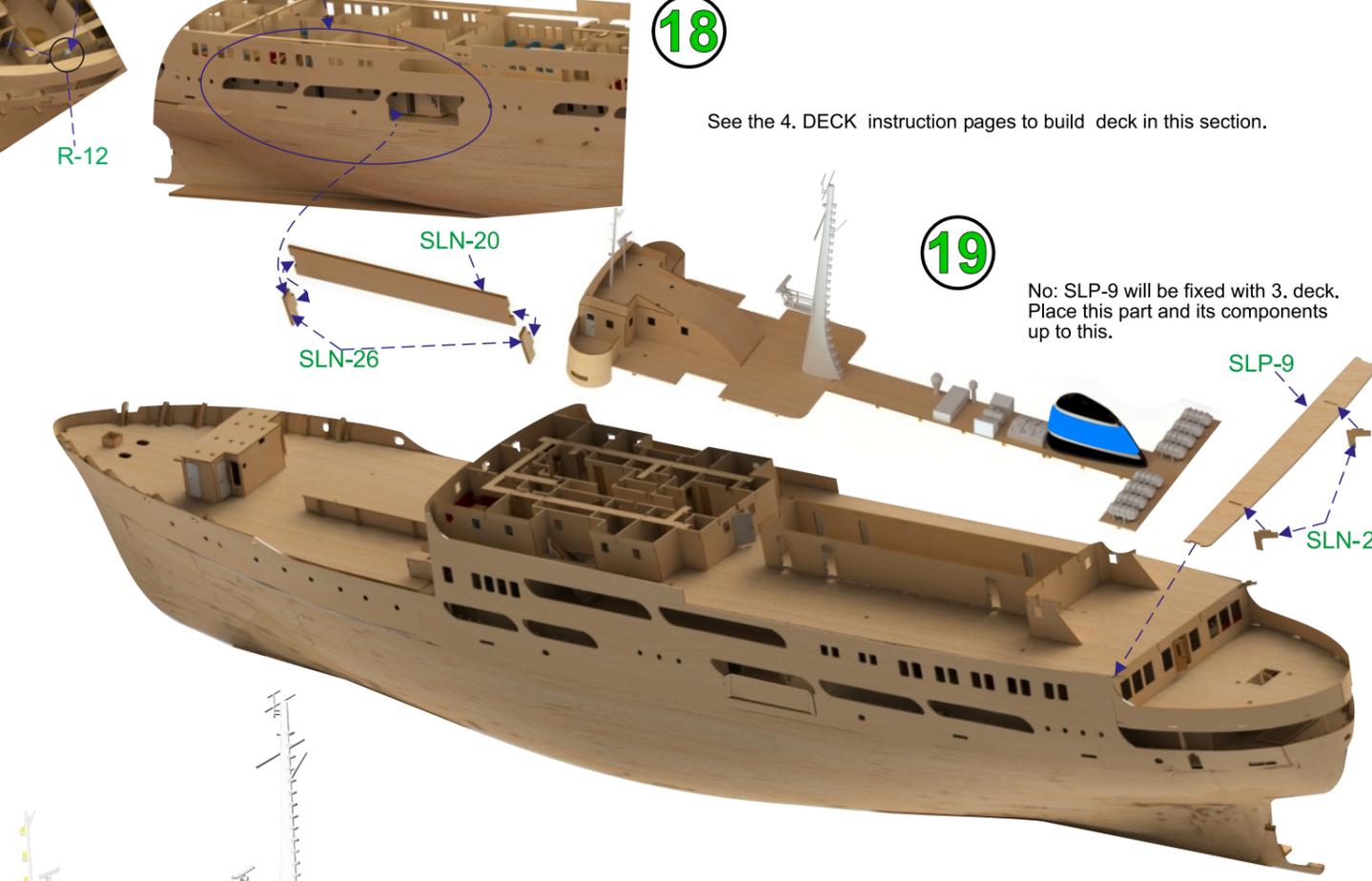
See the UPPER DECK instruction pages to build deck in this section.
Attach the deck supporters and deck on its place. Build the rooms after attach the deck.
Be sure the deck fits underneath.



See the 4. DECK instruction pages to build deck in this section.



Attach the deck supports while two parts of deck are attached. Build the rooms after deck is attached on its place.
This deck will be moveable, so do not cement.
You might need to fix it by magnet.

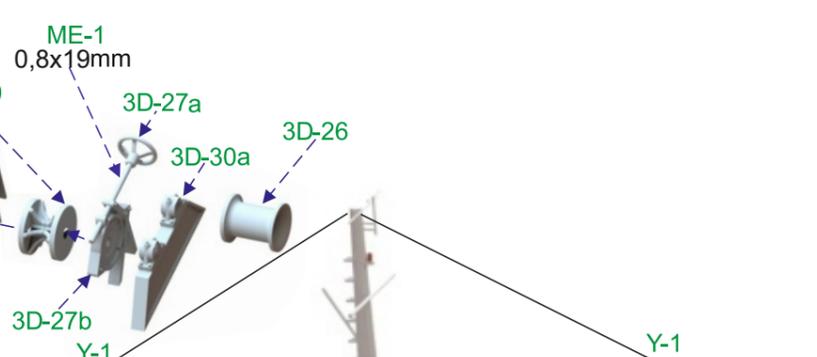
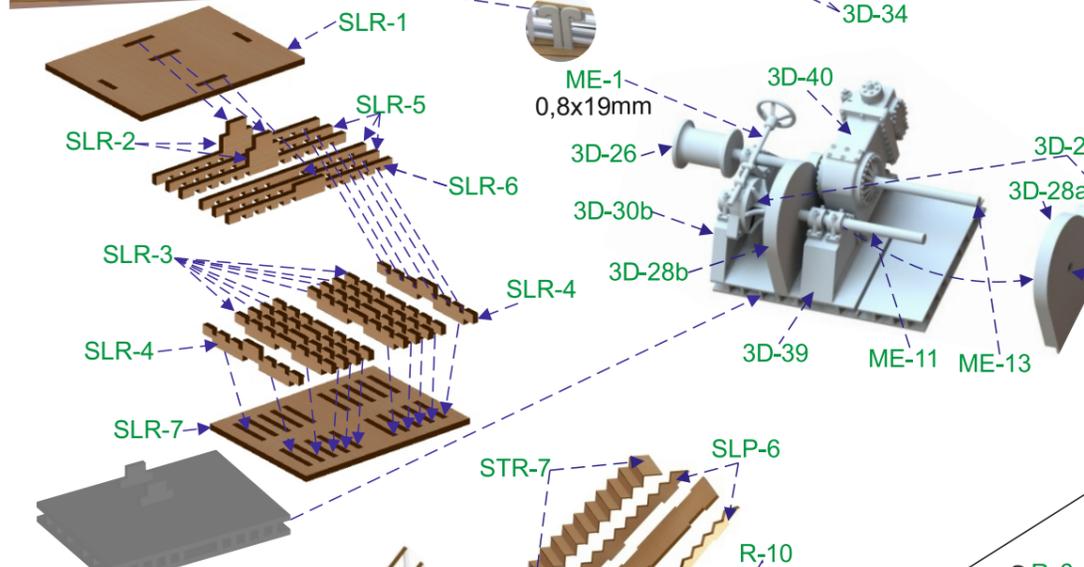
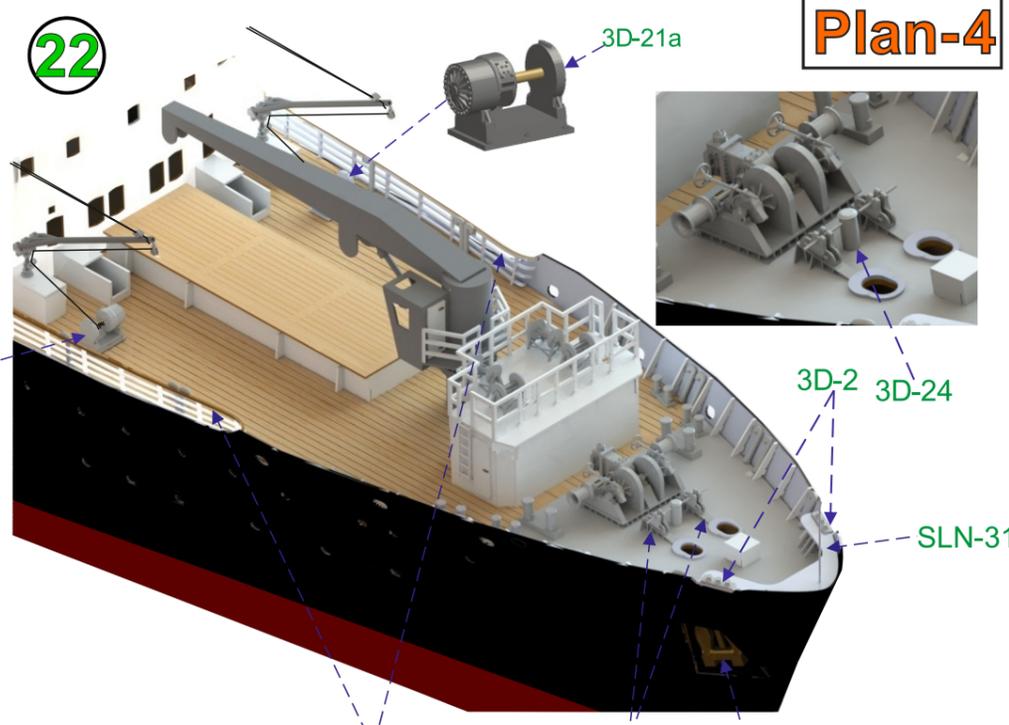
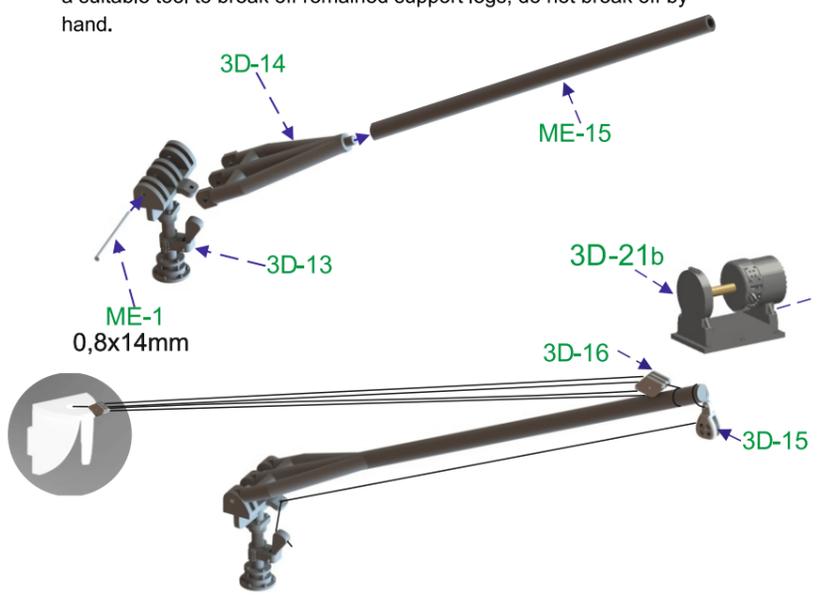
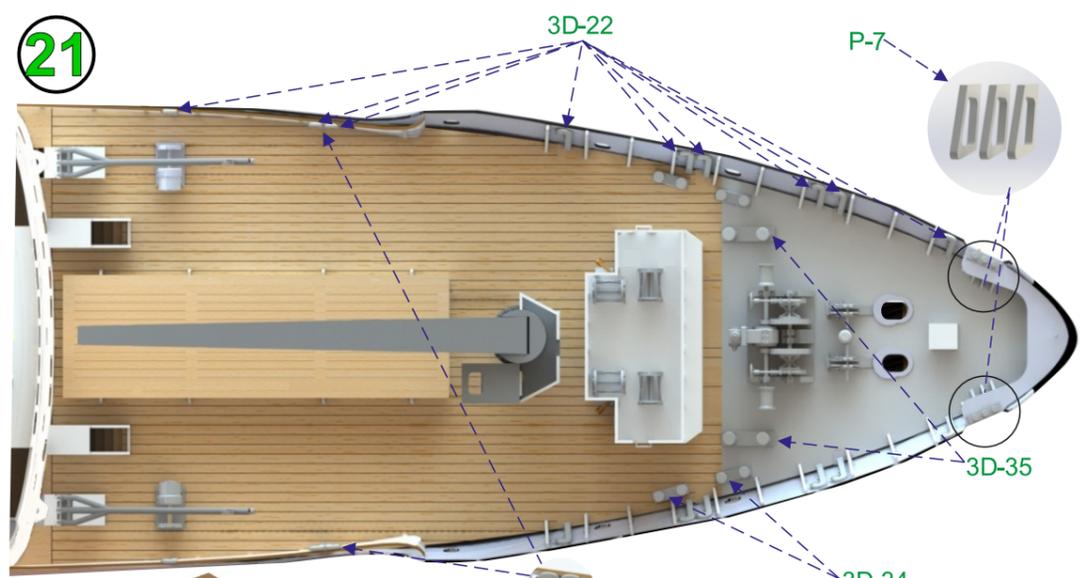


Keep the parts in the water to make them flexible.
So that it might not be broken easily.

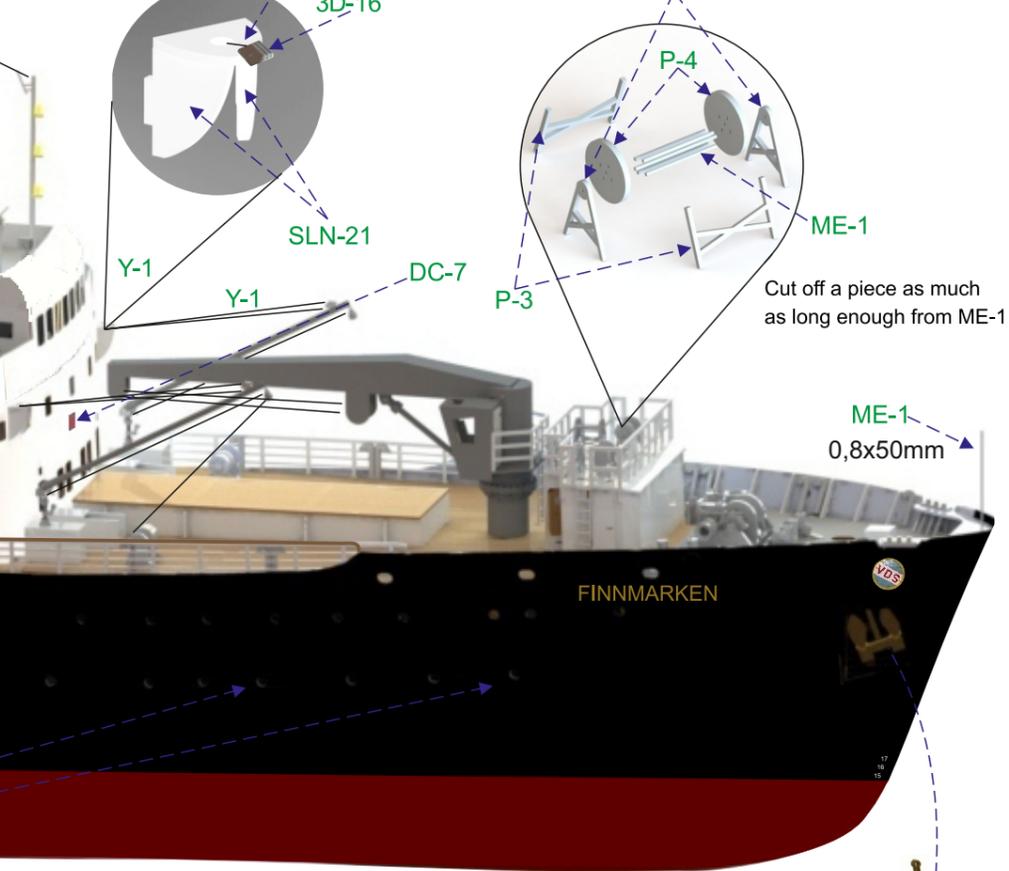
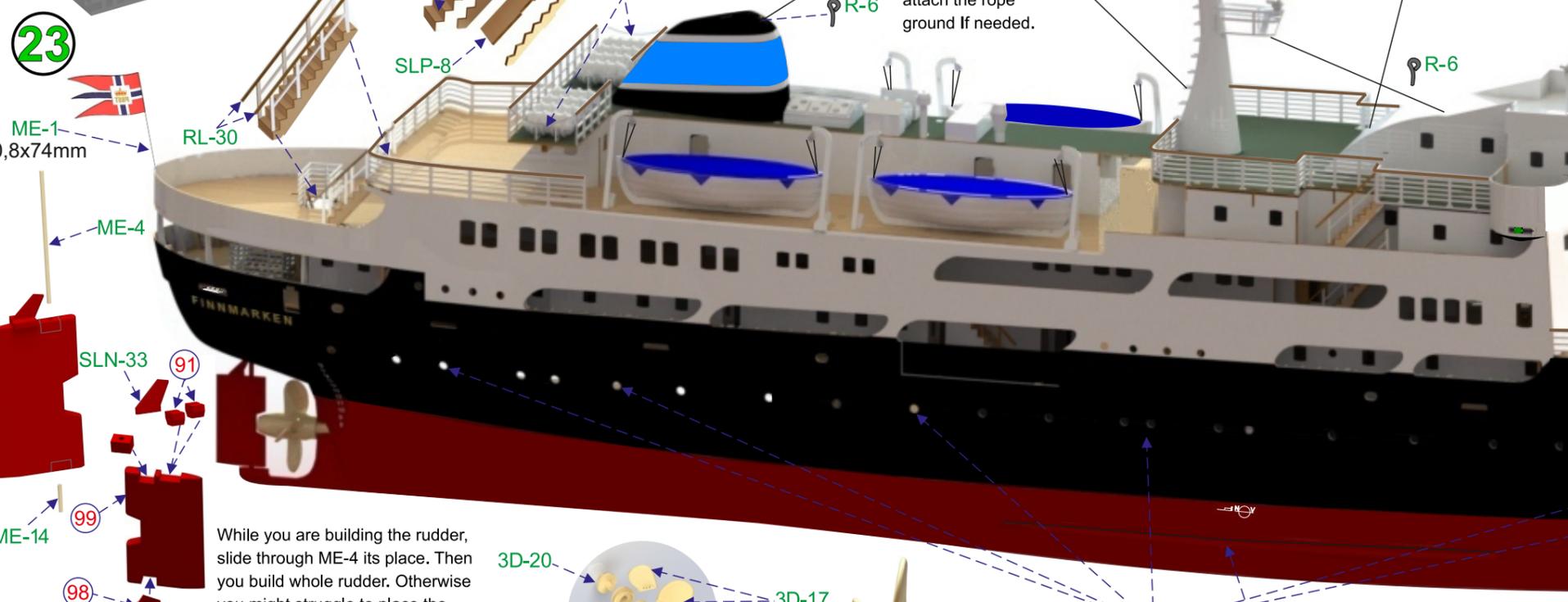


Be gentle with 3D print-out parts. They are sensible. See their shapes on the figures to break off their support legs and sand if needed. Use a suitable tool to break off remained support legs, do not break off by hand.

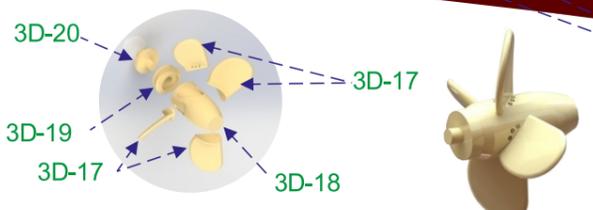
21



23



While you are building the rudder, slide through ME-4 its place. Then you build whole rudder. Otherwise you might struggle to place the rudder.

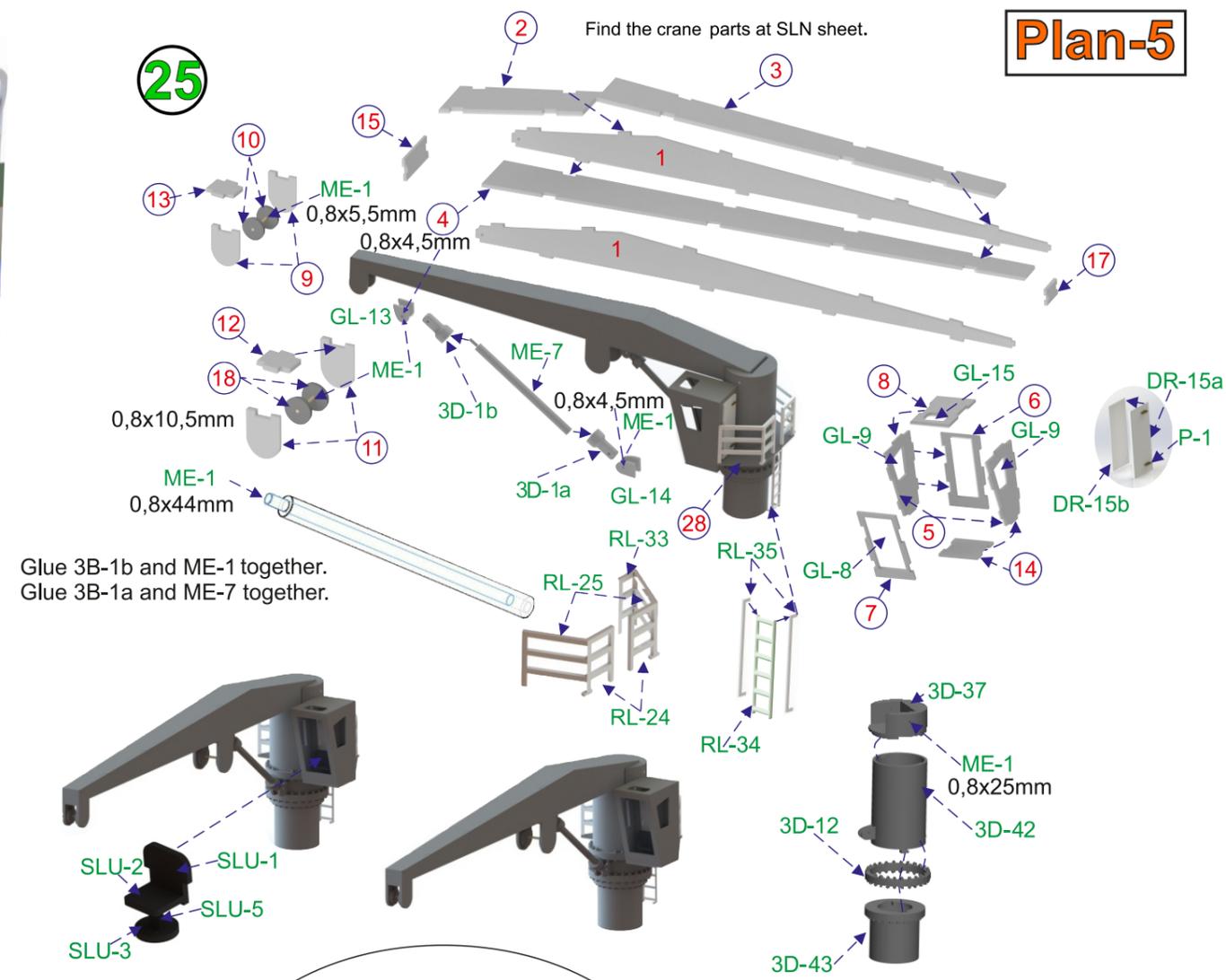
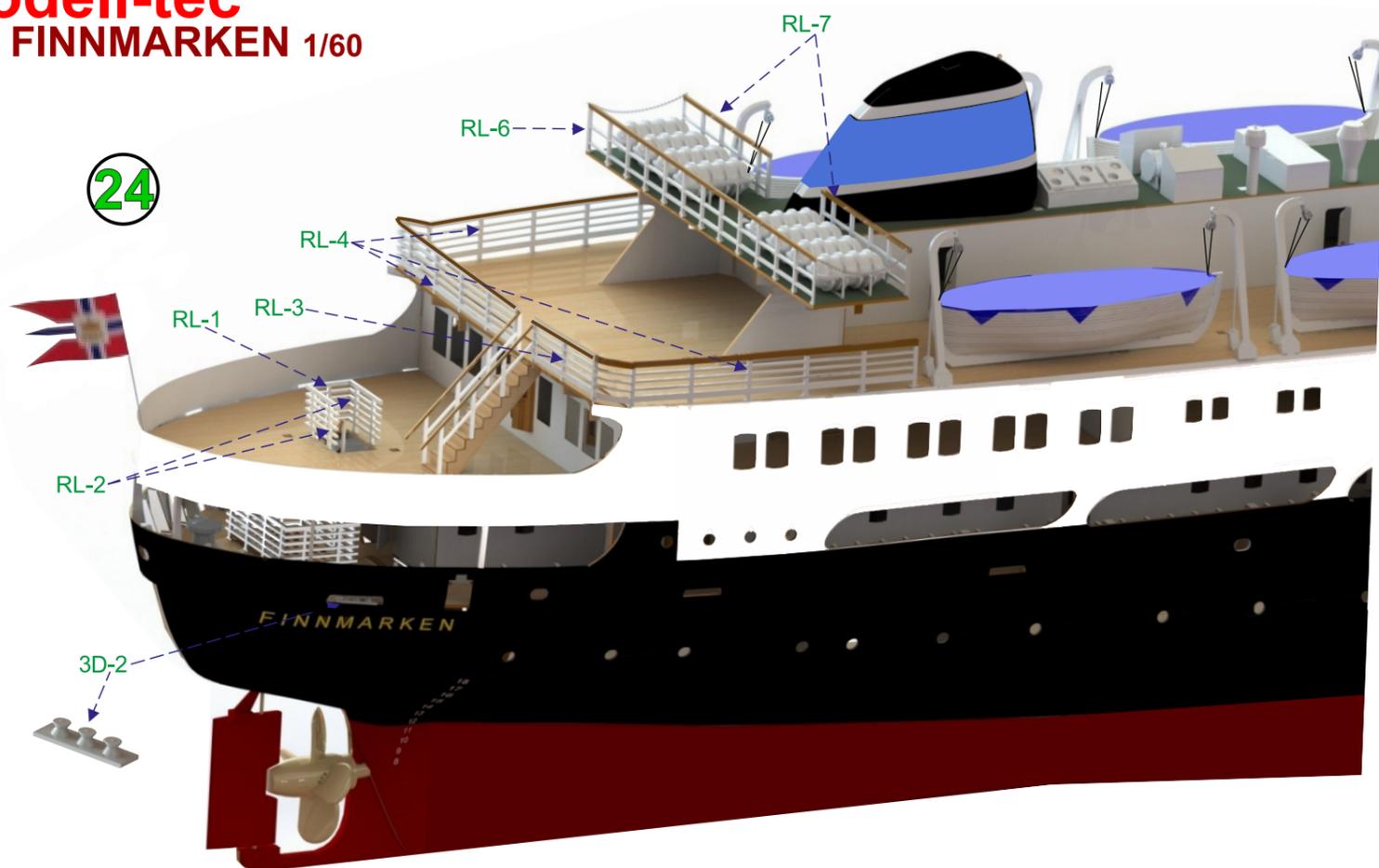


Use ringbolts to attach the rope ground if needed.

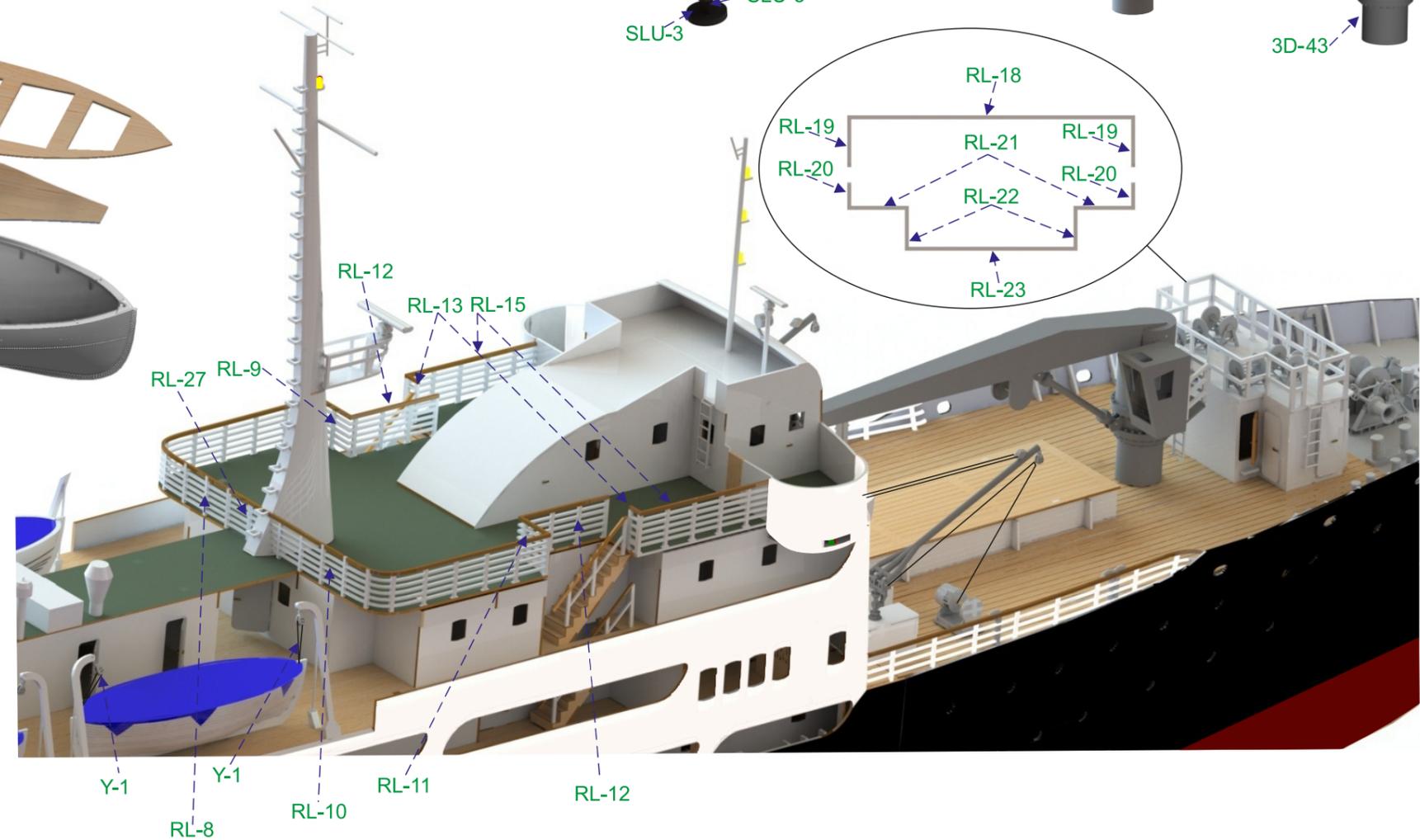
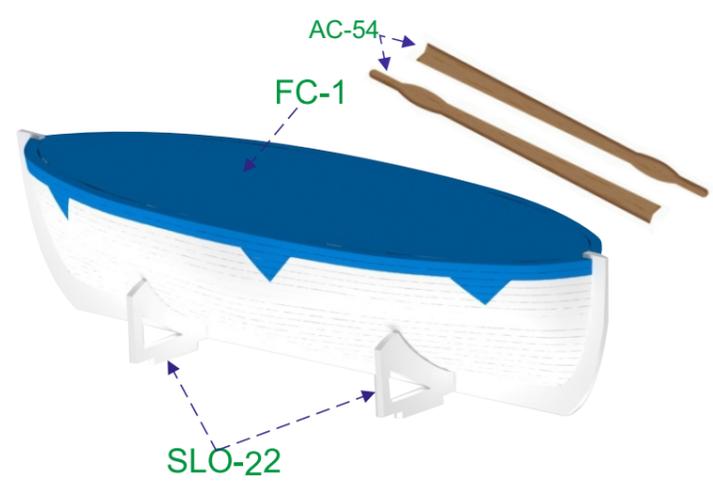
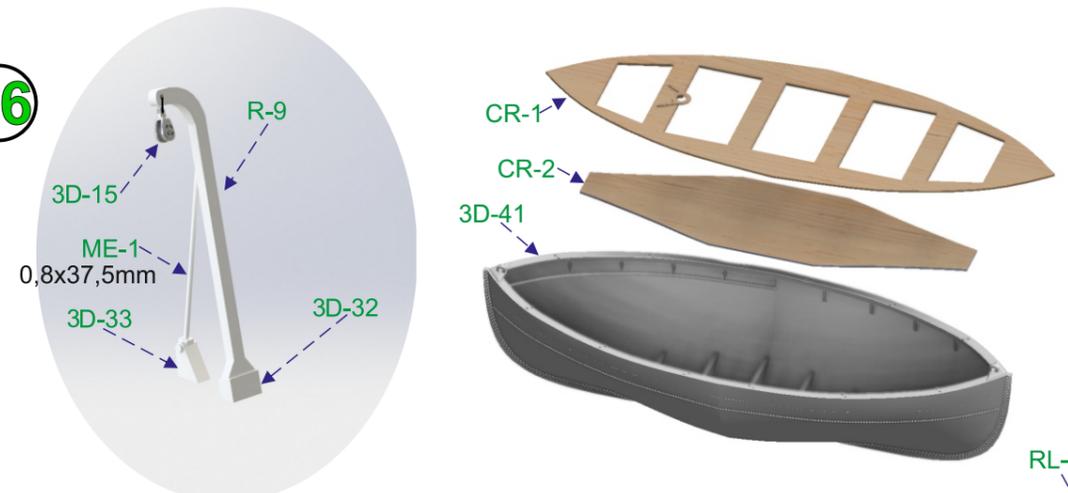
Open 5 mm diameter holes for portholes where will be placed on covered hull.

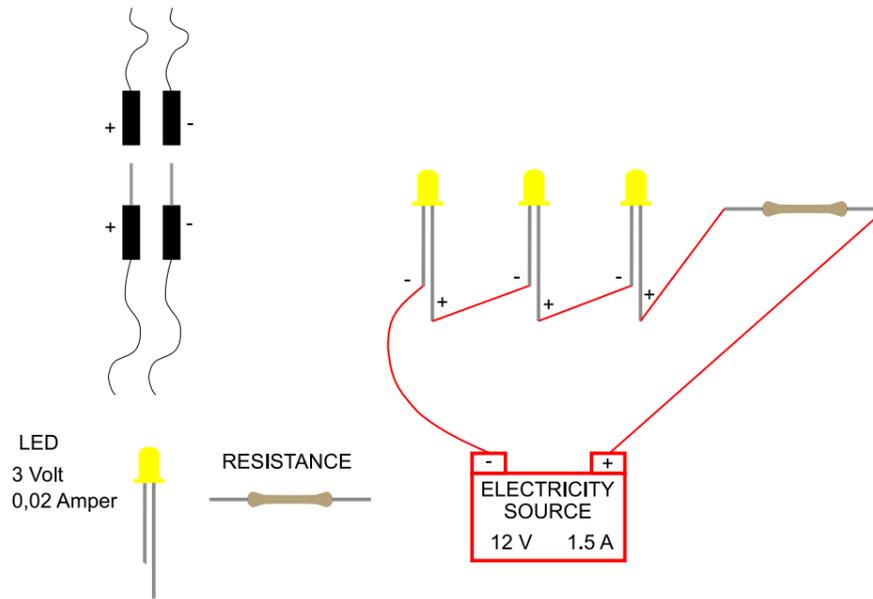
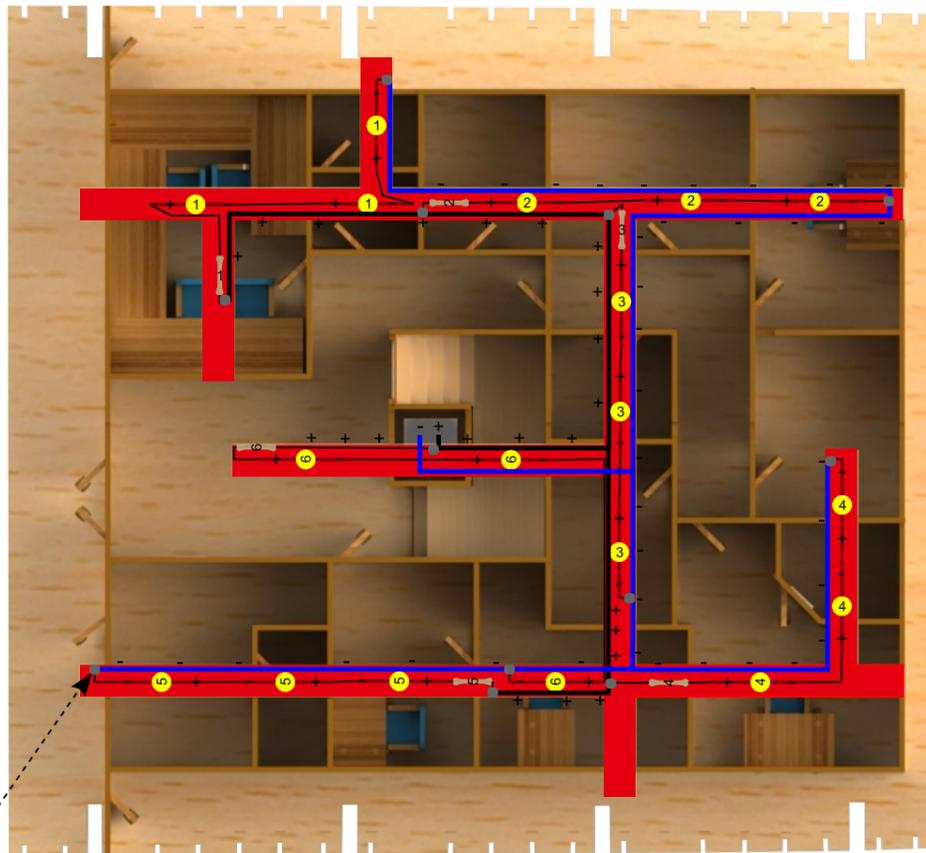
Cut off a piece as much as long enough from ME-1.





26





You will find out how to set lights up in this page. The first rule is each 3 leds connected serial. So, the light sets exist bunch of 3 serials in every deck. Cooper cable is isolated, so when you set it, sand or fire the tips to unisolate. The tip of the resistance is unimportant. Any tip can be connected to the serial leds.

Wherever you would like to put a led, penetrate 3 mm the led platform and place the led into. Then glue the led there but do not use over the glue, just tiny.

Test the leds on every stage If they work properly. If the leds are blinking, the energy source's amper is not enough. If there is no light at all, then check cables these might not be unisolated well or disconnected.

Connect the cables and the other components soldering. If you are not expert on soldering, get and support from an expert.

Though the cooper wire is unisolated, it might lose its feature by the time. If they are cross anywhere, put a small separator to keep it away from short circuit.

By the time, some leds might be died. In this situation, test the serial that covers that led and resistance. If you do not have a equipment to test, then just swap those 3 serial leds and resistance with new ones.

Collect the deck cables into a tip of a jack. The other tip of jack should connected to the energy source. You do this for every deck it might be needed to remove. It is going to make easier to disattach the decks. Easily you will plug off the led connections to make free the decks.

Watch out collecting (+) and (-) will be right.

Solder

Plan-R/C

** Motor and R/C equipments are not included in the kit.*

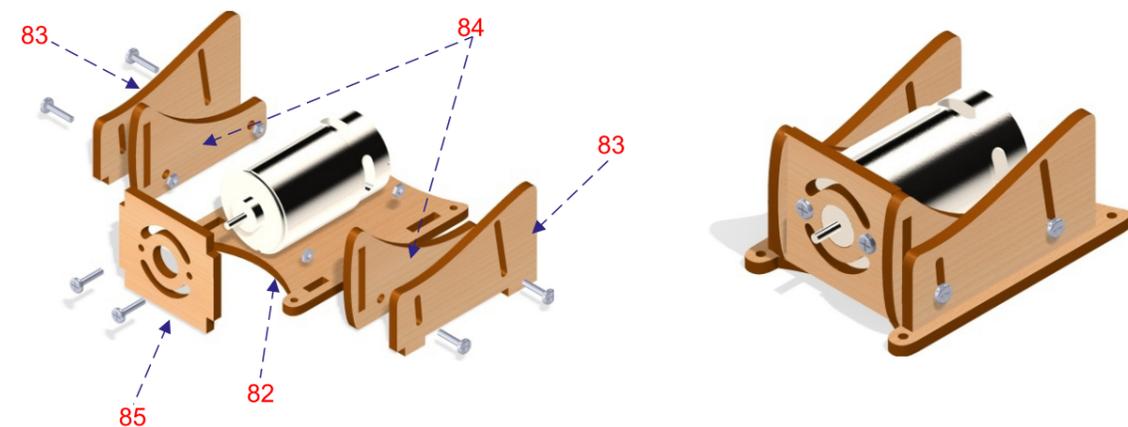
modell-tec

M/S FINNMARKEN 1/60
Motor and R/C installation



This is supplementary equipment which is not included into the building kit. We can deliver what's necessary, if wanted. We recommend a 600 electric engine installed into the engine framing. Rudder stock should be connected to the servo on the servo plate. RC-receiver, speed regulator and accumulator should be mounted in front of the engine room, depending on available space. It's an advantage to place the RC-receiver/antenna as high as possible in the model. Ensure that while placing accumulator, equipment and ballast the boat is in correct balance with the waterline. If you are going to use the model in the water, we recommend treating its hull with the Epoxy glue outwardly before varnishing and painting it. Make stern tube waterproof by placing some grease into it and on to propeller shaft. Paints and colors: Look at the drawing and picture on the box lid and on the side of the box.

Good luck building Finnmarken!



ASISTANT GUIDE

- ❖ Please read the instructions carefully before you start to build your model. Take notes if needed. So, you may find out the materials and the tools those you need.
- ❖ Use model knife to take out the parts the plywood sheets. Do not take them out with hand!
- ❖ Change of temperature effects on plywoods quickly. So that, do not release the plywoods. Keep them on a flat surface by putting weight on them.
- ❖ You may stick together the wooden parts easily if you sand the brown areas caused by laser with sand paper.
- ❖ You should use super glue and white glue to stick together the wooden parts and use the super glue for metal parts.
- ❖ Building the keel of your model, before stick the frames, be sure the frames properly seated on the keel. Otherwise you can't build the body of the model rightly. Exactly be sure that left and right side of the frames are compatible and symmetrical.
- ❖ After building the keel of your model, before the covering, you should test the frame edges by a cover strip. You should sand with a piece of sandpaper the frame edges at the right degree to touch the strips on to the surface exactly. The curves are mostly the front and back side of the body.
- ❖ You should keep the strip tips in the bowl filled with water approximately one hour. So that you may curve the strips on the curves easily these are mostly at the end and the front of the hull.
- ❖ You should cover the strip starting from the top for each side symmetrically.
- ❖ You should cut the upper side of the strip when overlap occurs especially at the front curve of the body.
- ❖ To make equal the surface of the body that caused by planking, you should sand with a piece of sandpaper (Firstly you should use thick sandpaper, then you can apply thin sandpaper), . You should fill the gaps after this processing. You may use leftover strips for wide gaps and model putty for small gaps.
- ❖ If you don't want to appear wooden tissue of the body of your model body; first, apply filler undercoat then sand with a thin sandpaper to make it ready to apply putty. Apply putty whole body and sandpaper again. Apply one more coat filler undercoat and sandpaper. You should not use very thick sandpaper to sand the putty and filler undercoat. You should repeat this process until you get the results as you want. You should apply undercoat paint to find out if any mistake appears at the body. The body gets ready for painting after these applications. You may use model brushes for filler coating. In order to understand whether the materials (such paint, filler, undercoat, varnish, etc.) are compatible with each other, you should test on the unnecessary parts.
- ❖ Some of the model's logo, name or the number are produced from decal paper. You should keep them in a bowl filled with warm water for two or three minutes. You should apply them to their places while releasing from their paper. You may attach easily If you apply gloss varnish to the place before applying the decals. You may apply matt, gloss or satin varnish after this application preferably.
- ❖ You should keep your model away from direct sunlight, heat and moist to avoid deformation in the course of time.

FINNMARKEN PART LIST V2

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NO	QUANTITY	DESCRIPTION	SIZE	TYPE
A-B	2	Platfrom	4 mm	Plywood
0-00	2	Keels	4 mm	Plywood
1...24	24	Frames	4 mm	Plywood
MID-1..3	3	Frames	4 mm	Plywood
25-26	4	Wedges	4 mm	Plywood
27A-B-C	11	Keel Lock	4 mm	Plywood
28	2	Rudder Shaft House	4 mm	Plywood
29	1	Rudder Shaft House	4 mm	Plywood
30	4	Anchor House Supports	4 mm	Plywood
31-32	2	Nose Supports	4 mm	Plywood
33	2	Wedges	4 mm	Plywood
34...38	10	Frame Locks	4 mm	Plywood
39-40	2	R/C Equipment Platforms	4 mm	Plywood
41-42	3	Deck Supports	4 mm	Plywood
43...45	54	Panel Supports	4 mm	Plywood
46...50	8	Deck Supports	4 mm	Plywood
51...58	8	Deck Supports	4 mm	Plywood
59...65	7	Deck Supports	4 mm	Plywood
66	1	Front Panel Support	4 mm	Plywood
67	2	Ashtray	4 mm	Plywood
68-69	4	Front Deck Supports	4 mm	Plywood
70	1	Large Radar Support	4 mm	Plywood
71...79	14	4.Deck Supports	4 mm	Plywood
80	1	Wheelhouse Roof Supports	4 mm	Plywood
82...85	6	Motor Bed Parts	4 mm	Plywood
86	1	Main Post	4 mm	Plywood
87...90	6	Funnel Parts	4 mm	Plywood
91-98-99	4	Rudder Parts	4 mm	Plywood
94...97	4	Base Parts	4 mm	Plywood
SLA-B	39	Bottom Deck Front Room Parts	1.5 mm	Plywood
SLC 75	1	Bottom Deck Back Room Part	1.5 mm	Plywood
SLC...G	91	Bottom Deck Back Room Parts	1.5 mm	Plywood
SLE 76	1	Bottom Deck Back Room Part	1.5 mm	Plywood
SLG 77-78	2	Grill Parts	1.5 mm	Plywood
SLH...K	47	Upper Deck Room Parts	1.5 mm	Plywood
SLL SLV	57	3.Deck Room Parts	1.5 mm	Plywood
SLM 1...34	58	Front Deck Room Parts	1.5 mm	Plywood
SLN 1...15	20	Main Crane Wall Parts	1.5 mm	Plywood
SLN 23-27-30	6	Anchor House	1.5 mm	Plywood
SLN 16	1	Large Radar Panel	1.5 mm	Plywood
SLN 20-26	6	Deck Balcony	1.5 mm	Plywood
SLN 21-22	6	Crane Connect Parts	1.5 mm	Plywood
SLN 31	1	Nose Part	1.5 mm	Plywood
SLN 33	1	Rudder Parts	1.5 mm	Plywood
SLN 17-18-28	4	Main Crane Wall Parts	1.5 mm	Plywood
SLN 24	2	3. Deck Back Parts	1.5 mm	Plywood
SLN 19-25	4	Ashtray	1.5 mm	Plywood
SLN 32	22	Main Post Stairs	1.5 mm	Plywood
SLN 34-35	4	Post Led Supports	1.5 mm	Plywood
SLN 36	1	Upper Deck Room Part	1.5 mm	Plywood
SLT 16...21	6	Main Post Parts	1.5 mm	Plywood
SLT 22...27	11	Funnel Parts	1.5 mm	Plywood
SLO 1...21	30	4.Deck Room Parts	1.5 mm	Plywood
SLO 22	8	Lifeboat Parts	1.5 mm	Plywood
SLO 23...25	8	4.Deck Room Parts	1.5 mm	Plywood
SLO 26	2	4.Deck Board Light Panels	1.5 mm	Plywood
SLO 27...31	7	4.Deck Room Parts	1.5 mm	Plywood
SLO 32	6	Panel Supports Part	1.5 mm	Plywood
SLP 1	1	4.Deck Part	1.5 mm	Plywood
SLP 2	1	Wheelhouse Front Panel	1.5 mm	Plywood
SLP 4-5	2	4.Deck Front Panel Support	1.5 mm	Plywood
SLR 1...7	18	Winch base parts	1.5 mm	Plywood

FINNMARKEN PART LIST V2

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NO	QUANTITY	DESCRIPTION	SIZE	TYPE
SLP 3-7	6	Upper Deck Side Stair Parts	1.5 mm	Plywood
SLP 6-8	3	Back Stair	1.5 mm	Plywood
SLP 9	1	3. Deck Back Parts	1.5 mm	Plywood
I...XV	--	Panel Supports	1.5 mm	Plywood
DECK 1A-1B	2	Bottom Decks	1.5 mm	Plywood
DECK 2A-2B	2	Upper Deck	1.5 mm	Plywood
DECK 3A-B	2	3.Deck	1.5 mm	Plywood
DECK 4A-B	2	4.Decks	1.5 mm	Plywood
DECK 5	1	Front Deck	1.5 mm	Plywood
DR 1...17B	139	Doors	1.5 mm	Plywood
LED 1...35	35	Led Panels	1.5 mm	Plywood
AC-A...B	-	Chair-Desk-Armchair Parts	1.5 mm	Plywood
PN-L1...L3	3	Side Panels	1.5 mm	Plywood
PN-R1...R3	3	Side Panels	1.5 mm	Plywood
PN-R4-L4	2	Upper Deck Panel	1.5 mm	Plywood
PN-5	1	Front Panel	1.5 mm	Plywood
FLX-1	1	Wheelhouse Panel	1 mm	Plywood
FLX-2	1	Back Panel	1 mm	Flexible Plywood
FLX-3	2	Balcony	1 mm	Wood Sheet
STR 1...9	-	Stair Steps	0.5 mm	Wood Sheet
CR-1	4	Lifeboat Deck	0.5 mm	Wood Sheet
CR-2	4	Lifeboat Parts	0.5 mm	Wood Sheet
GL-1	60	Large Glass	1 mm	Plexy-Glass
GL-2	73	Small Glass	1 mm	Plexy-Glass
GL-3	112	Porthole Glass	1 mm	Plexy-Glass
GL-4	9	Indoor Door Glass	1 mm	Plexy-Glass
GL-5	25	Rectangular Glass	1 mm	Plexy-Glass
GL-6	8	Upper Deck Front Glass	1 mm	Plexy-Glass
GL-7	6	Air Conditioner Glass	1 mm	Plexy-Glass
GL-8-9-15	4	Main Crane Cabine Glass	1 mm	Plexy-Glass
GL-10	12	Slot Glass	1 mm	Plexy-Glass
GL-11	2	Elips Glass	1 mm	Plexy-Glass
GL-12	2	Small Elips Glass	1 mm	Plexy-Glass
GL 13-14	4	Piston Connect Parts	1 mm	Plexy-Glass
GL-16	2	Front Deck Step Parts	1 mm	Plexy-Glass
GL-17	2	Wheelhouse Door Glasses	1 mm	Plexy-Glass
GL-18	6	Bottom Deck Back Door Glass	1 mm	Plexy-Glass
RL 1-35	-	Rails	-	PVC
P 1	-	Door Handle	1 mm	PVC
P 2...4	24	Small Winch Parts	1 mm	Plexy-Glass
P 7	6	Nose Part Supports	1 mm	Plexy-Glass
P-8	8	Lifeboat Hangs	2 mm	Plexy-Glass
ME-1	-	Flat Wire	0.8x1200 mm	Flat Wire
ME-2	1	Main Post Wire	2x80	Metal Wire
ME-3	1	Main Post Wire	1.5x30	Metal Wire
ME-4	1	Rudder Shaft	1.7x60 mm	Flat Wire
ME-5	1	Propeller Shaft Pipe	7 mm	Metal
ME-6	1	Rudder Shaft Pipe	3 mm	Metal
ME-7	1	Piston Pipe	3x41	Metal Pipe
ME-10	1	Radar Wire	2x30 mm	Metal Wire
ME-11	1	Main Winch Shafts	2x38	Metal Wire
ME-13	1	Main Winch Shafts	2x51	Metal Wire
ME-14	1	Rudder Shaft Bottom Part	1.7x44 mm	Metal Wire
ME-15	2	Side Crane Posts	3x70 mm	Metal Pipe
ME-16	1	Rudder Shaft Wire	1.7x10 mm	Metal Wire
3D-1A-B	2	Piston Connect Parts	-	3D Print-out
3D-2	4	Pulley Bollards	-	3D Print-out
3D-3	2	Compass	-	3D Print-out
3D-4	2	Telegraph	-	3D Print-out
3D-5	1	Rudder Box	-	3D Print-out
3D-6	1	Projector	-	3D Print-out
3D-7A-B	2	Small Radar Parts	-	3D Print-out
3D-8	1	Air Conditioner	-	3D Print-out
3D-9	1	Conic Air Conditioner	-	3D Print-out

FINNMARKEN PART LIST V2

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NO	QUANTITY	DESCRIPTION	SIZE	TYPE
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3D-10A-B	2	Tank Parts	-	3D Print-out
3D-11A-B	2	Large Radar Parts	-	3D Print-out
3D-12	1	Main Crane Ring	-	3D Print-out
3D-13-14	4	Side Crane Parts	-	3D Print-out
3D-15	10	Single Pulley	-	3D Print-out
3D-16	4	Double Pulley	-	3D Print-out
3D-17...20	7	Propeller Parts	-	3D Print-out
3D-21A-B	2	Side Crane Motor	-	3D Print-out
3D-22	18	Front Deck Air Conditioner	-	3D Print-out
3D-23	2	Front Chain Beds	-	3D Print-out
3D-24	1	Front Chain Bed Middle Part	-	3D Print-out
3D-25	4	Anchor Parts	-	3D Print-out
3D-26...30B	12	Main Winch Parts	-	3D Print-out
3D-31	1	Huge Bollard	-	3D Print-out
3D-32-33	16	Lifeboat Hangs Parts	-	3D Print-out
3D-34	10	Small Double Bollard	-	3D Print-out
3D-35	2	Large Double Bollard	-	3D Print-out
3D-36	8	Lifeboat Capsul Male	-	3D Print-out
3D-36A	8	Lifeboat Capsul Femele	-	3D Print-out
3D-37	1	Main Crane Part	-	3D Print-out
3D-38	1	Conic Post	2x3x10	3D Print-out
3D-39..40	2	Main Winch Parts	-	3D Print-out
3D-41	4	Lifeboat	-	3D Print-out
3D-42	1	Winch main pipe upper	-	3D Print-out
3D-43	1	Winch main pipe lower	-	3D Print-out
R-6	10	Eyebolts	-	Ready
P-7	1	Projector Glass	1 mm	Plexy-Glass
R-8	2	Balance Wings	1.5 mm	Plywood
R-10	-	Chain	400 mm	Ready
R-11	12	Metal Piece	-	Ready
R-12	12	Magnet	-	Ready
Y-1	-	Yarn	5 m	Ready
FC-1	4	Tarpaulin	-	Fabric
Red led	1	Left Board Light	-	Ready
Green led	1	Right Board Light	-	Ready
Clear led	125	Room Lights	-	Ready
Jack	16	Electrical Connect Parts	-	-
Resistance	50	Resistance	-	Resistance
Cooper wire	-	Electrical Wiring	20 m	Copper Wire
Screws	14	Screws	-	Screws
DC-1	1	Mermaid Table	-	Sticker
DC-2	1	Flag	-	Sticker
DC-3	1	VDS	-	Sticker
DC-4	4	Finmarken Name Stickers	-	Sticker
DC-5	2	Symbol Stickers	-	Sticker
DC-6	4	Number Stickers	-	Sticker
DC-7	1	Blohm & Voss Sticker	-	Sticker
DC-8	1	Norway Flag	-	Sticker
DC-9	3	Ragnvald Jarl Name Stickers	-	Sticker
DC-10	3	NRK Stickers	-	Sticker
DC-11	2	#nrksommer Stickers	-	Sticker
DC-12	2	Sommerbaten Stickers	-	Sticker
DC-13	1	Kristiansand Sticker	-	Sticker
DC-14	3	Sjokurs Name Stickers	-	Sticker
DC-15	8	Lifeboat Stickers	-	Sticker
DC-16	1	Trondheim Sticker	-	Sticker
DC-17	1	Rangvald Symbol Sticker	-	Sticker
K1	150	Deck Covering Strips	0.5x3x450 mm	Cover Strips
S1	120	Hull Covering Strips	1.7x6x720 mm	Strips
S2	12	Covering Strips	1x4x500 mm	Strips