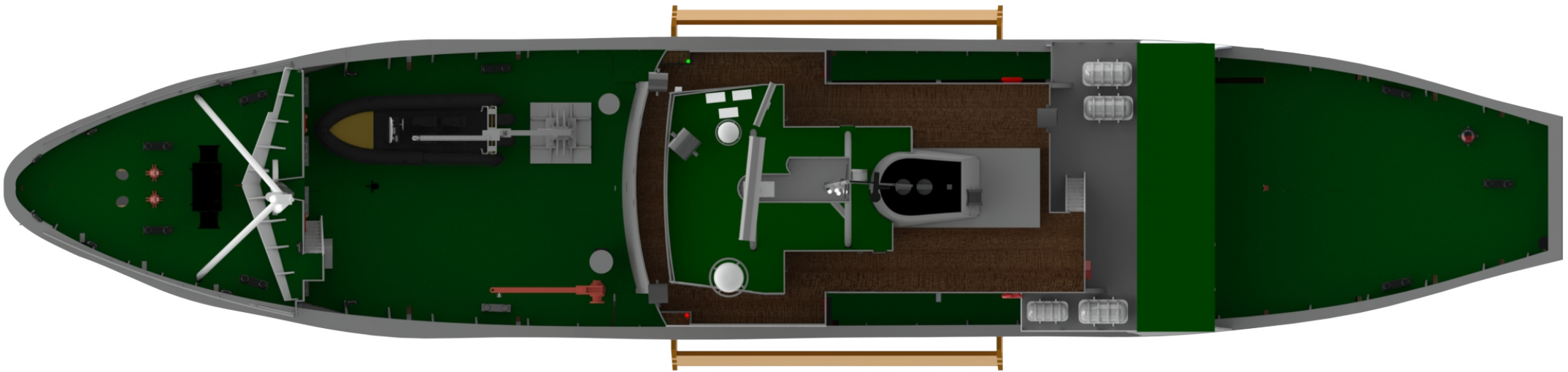
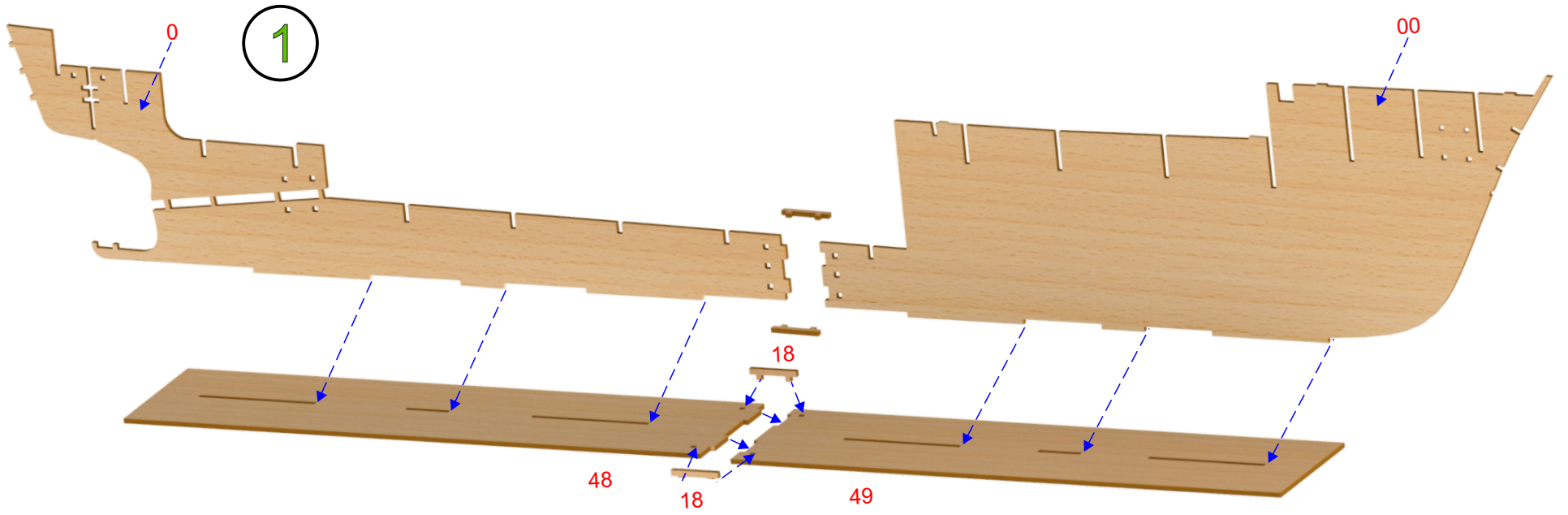




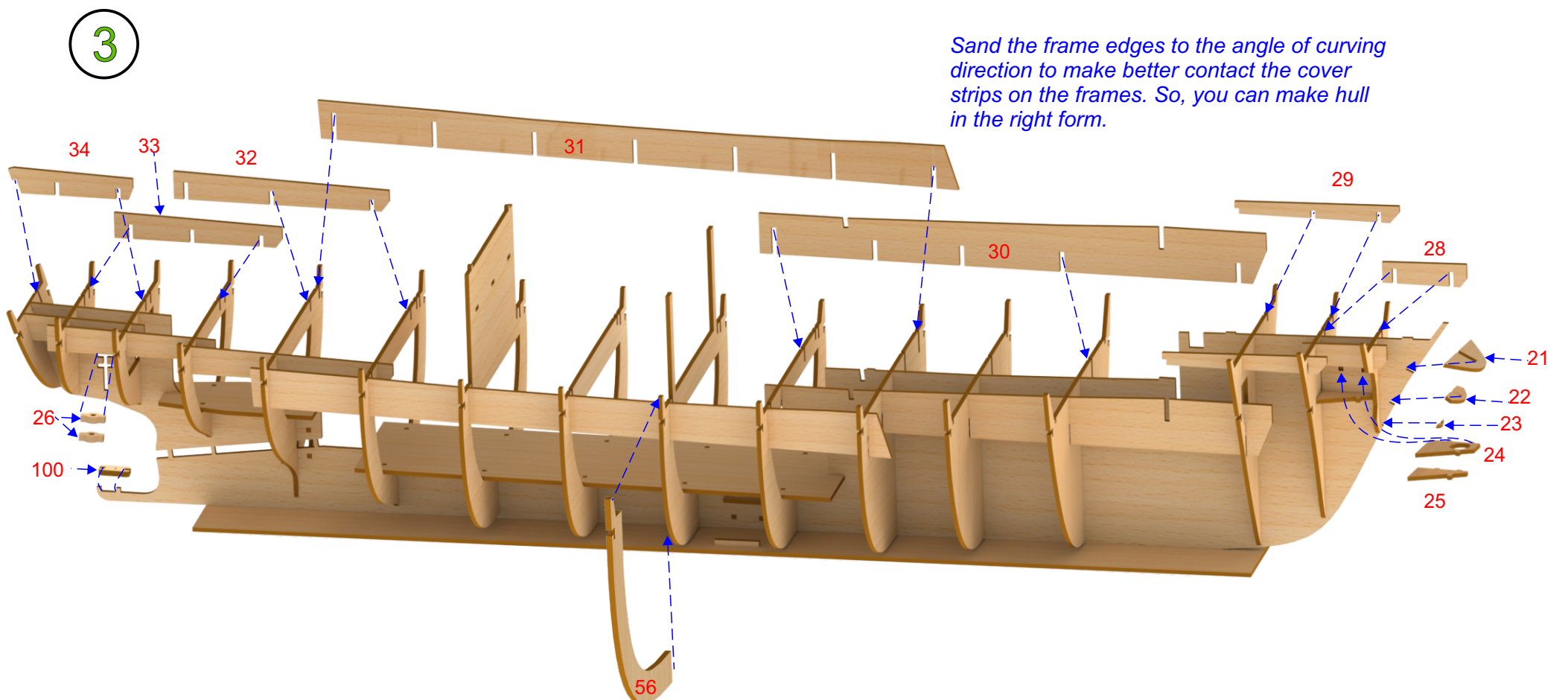
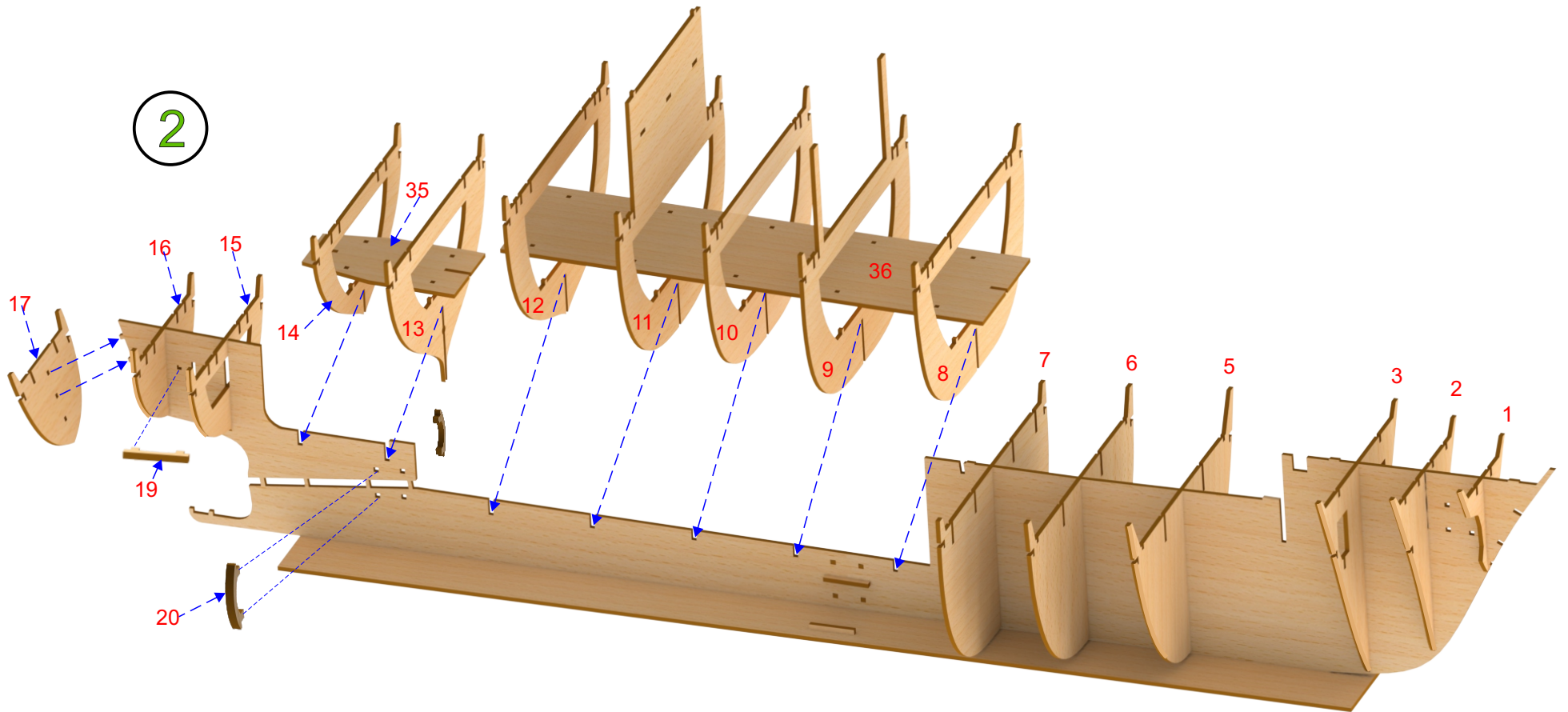
**Westra** 1/50  
"Scottish Fisher Protecting Vessel"

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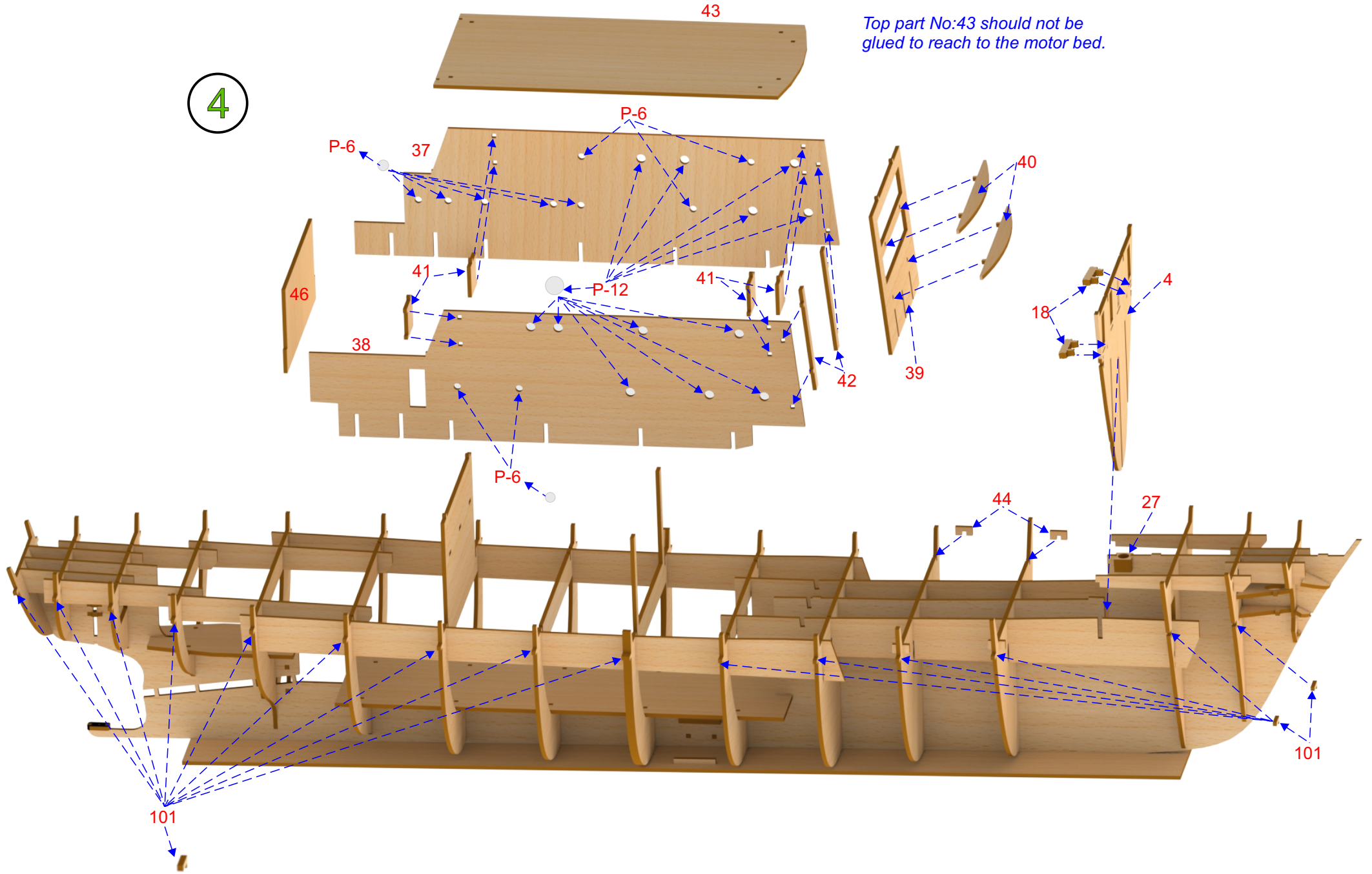


Be sure all parts are placed right before gluing.

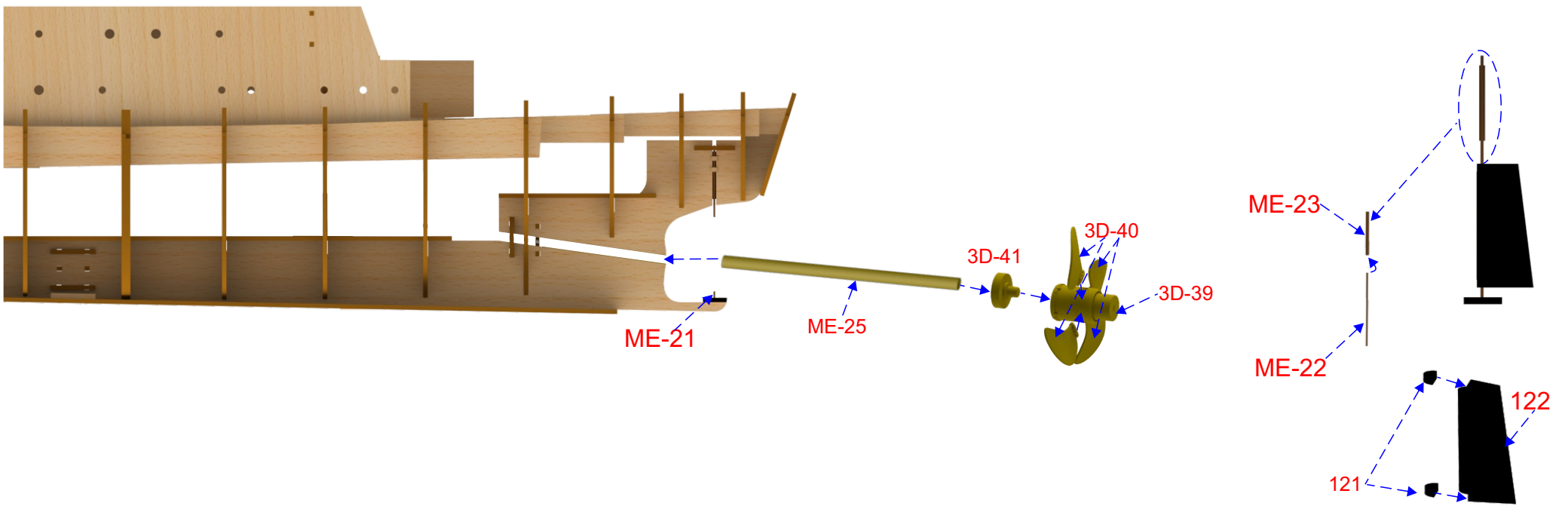




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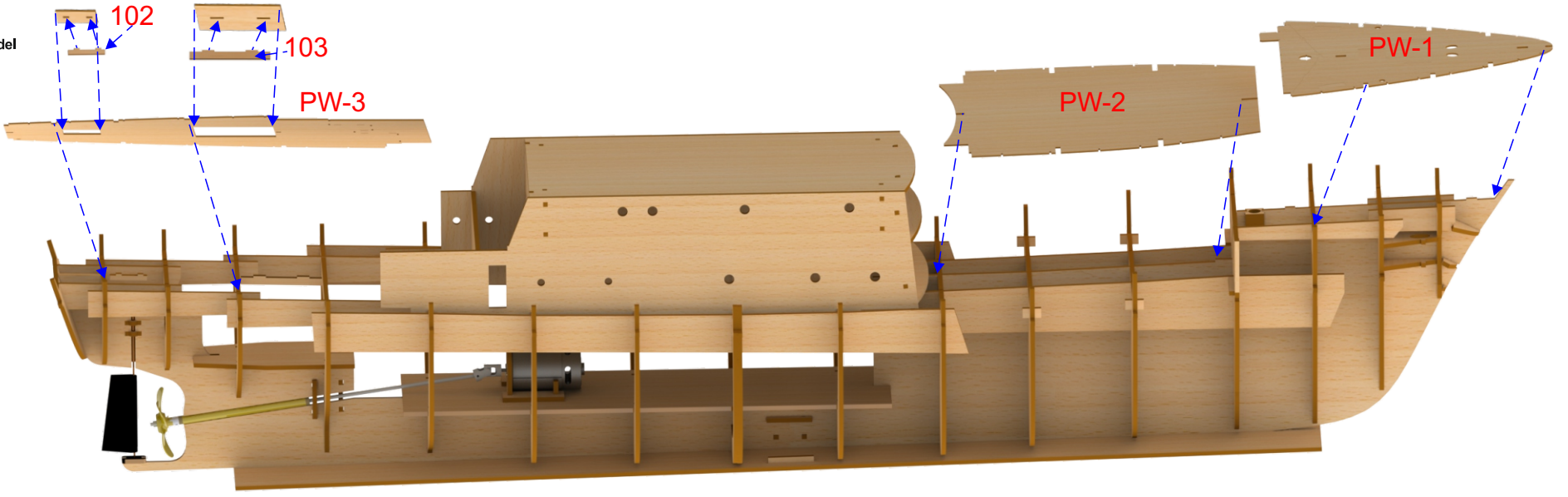


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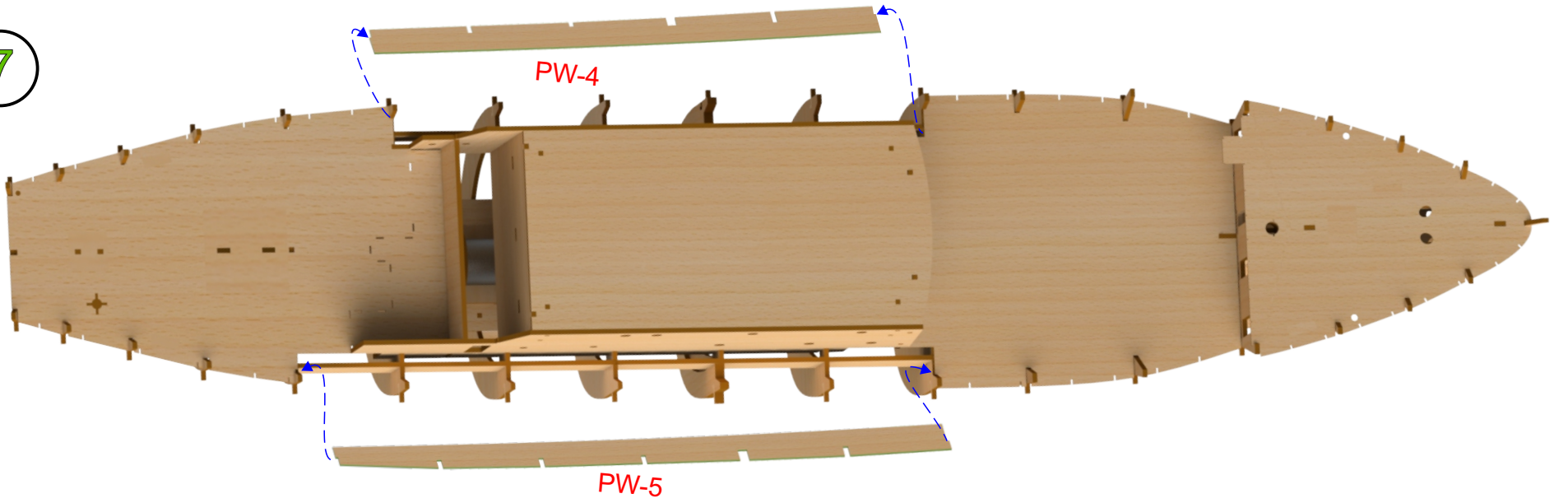




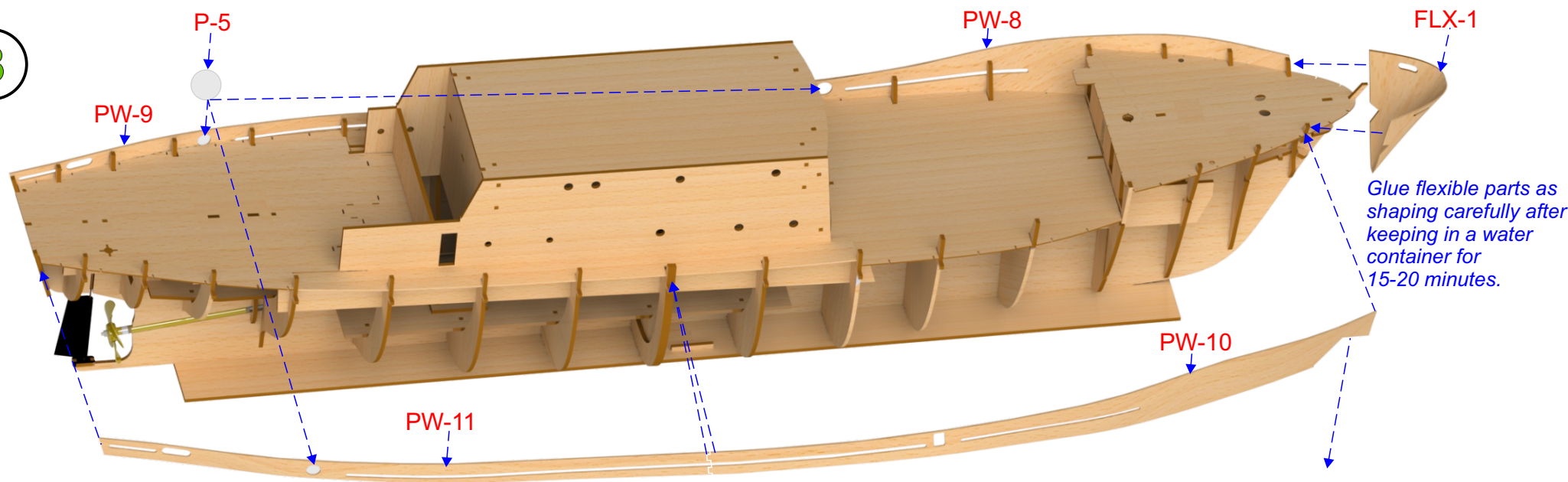
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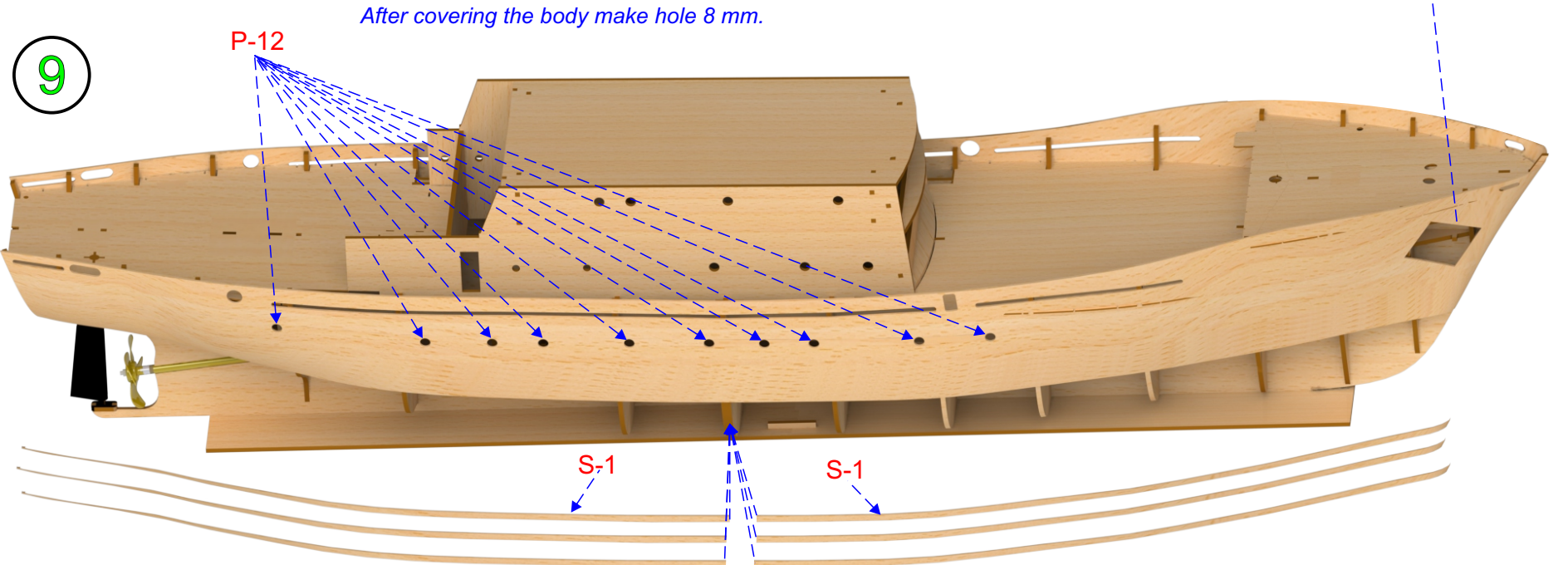


8



This part for the anchor chamber  
Break carefully after the covering process.

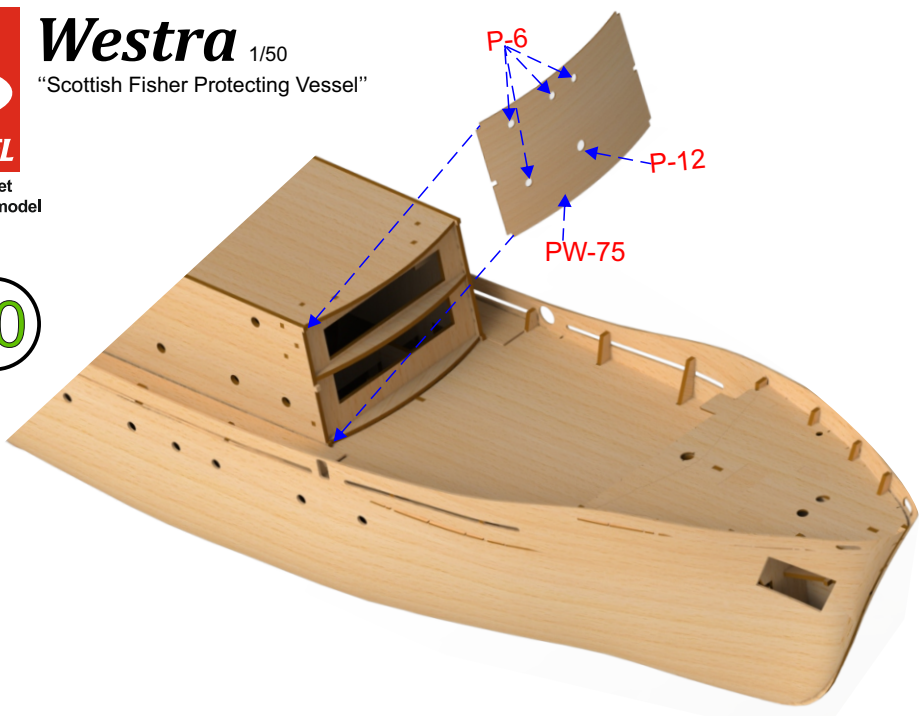
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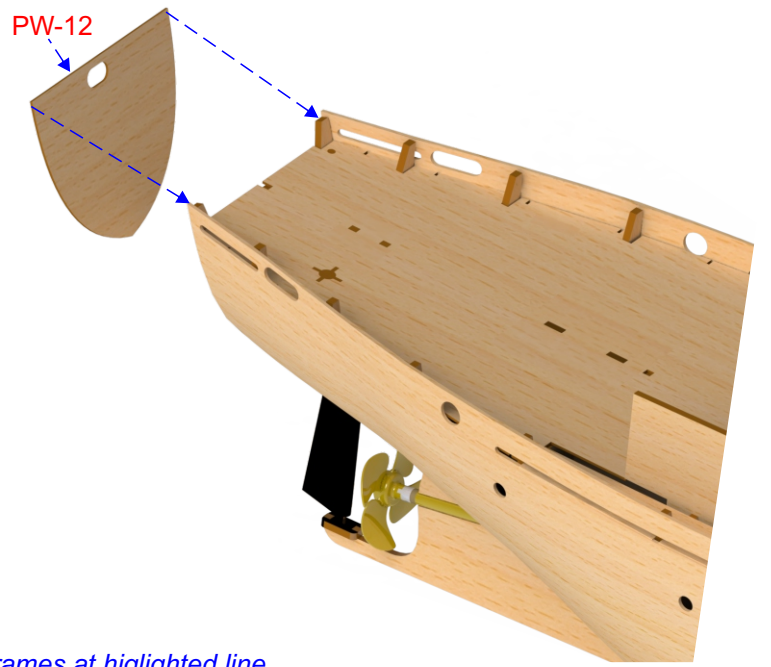
You can stop the keel bending a side If you cover one strip for each side everytime.



10



11

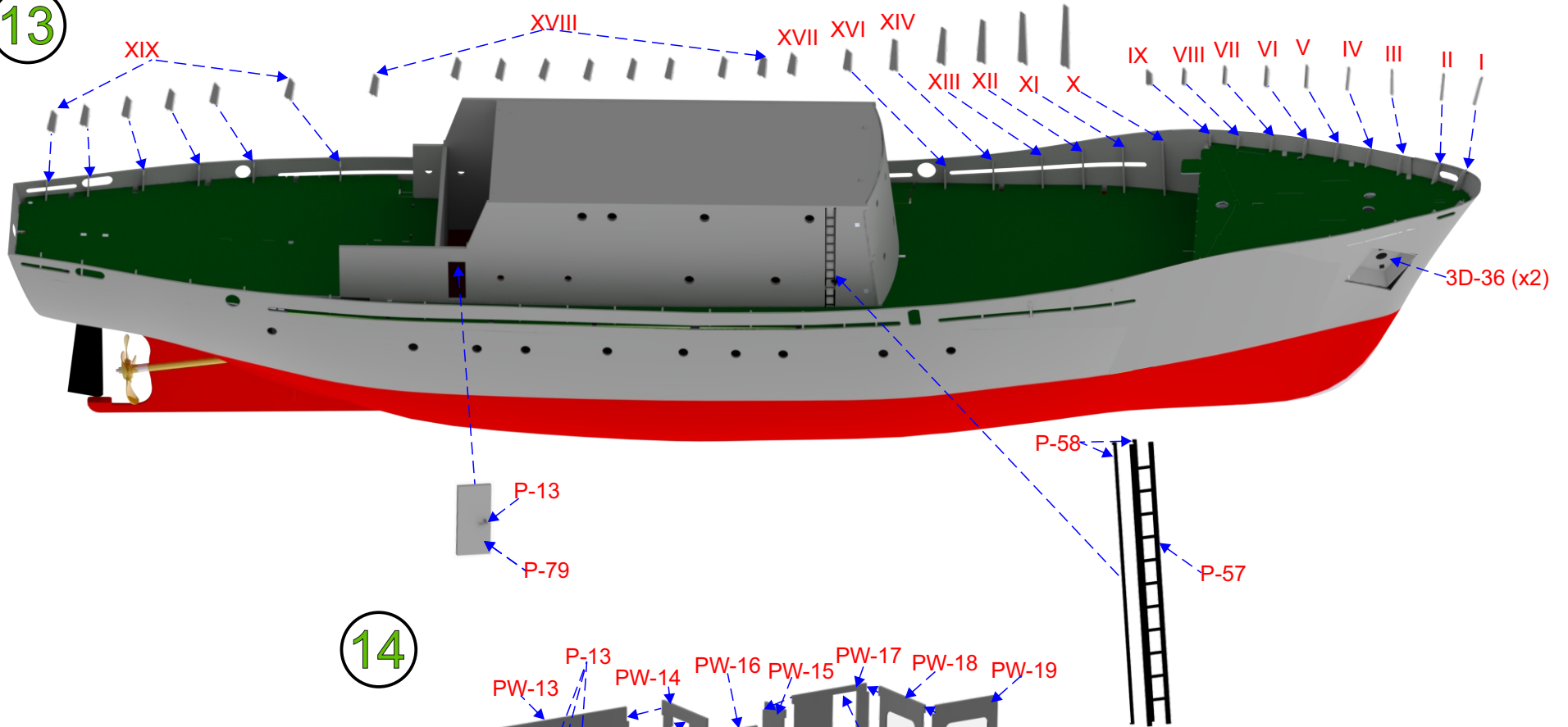


Cut off the frames at highlighted line.

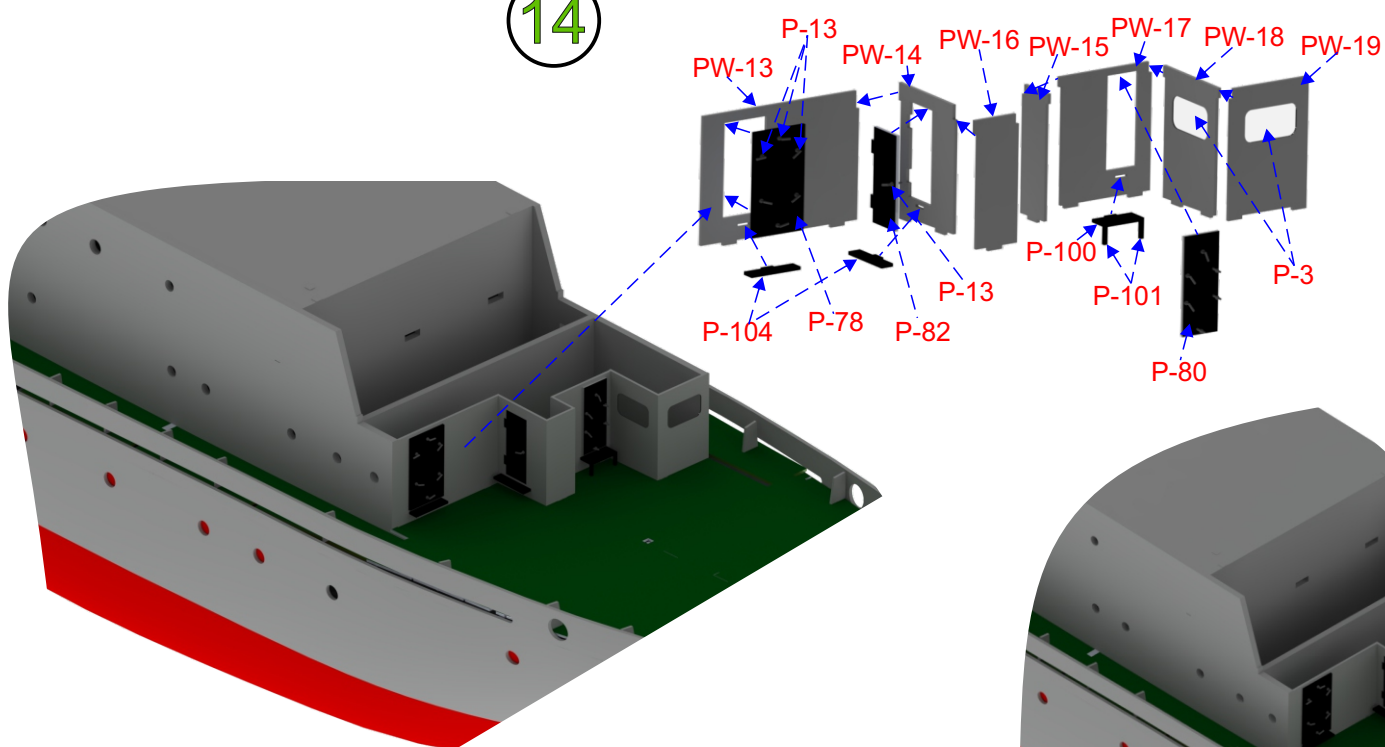
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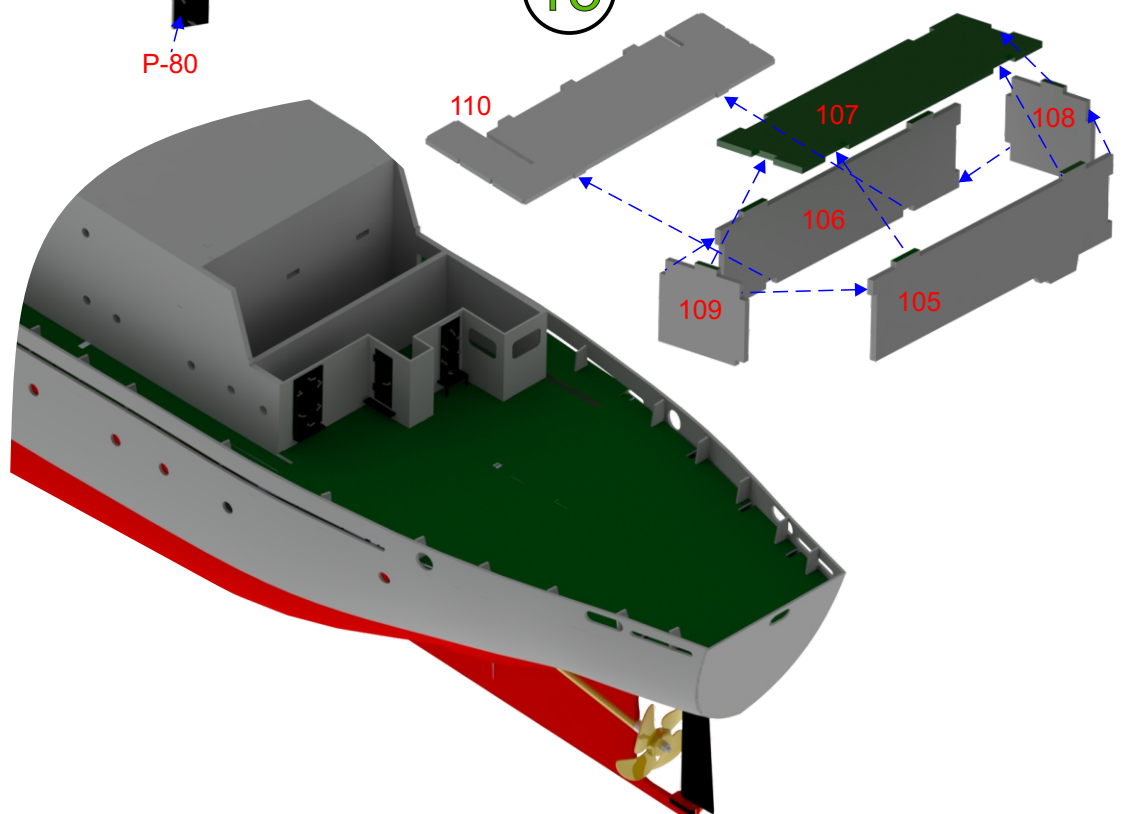
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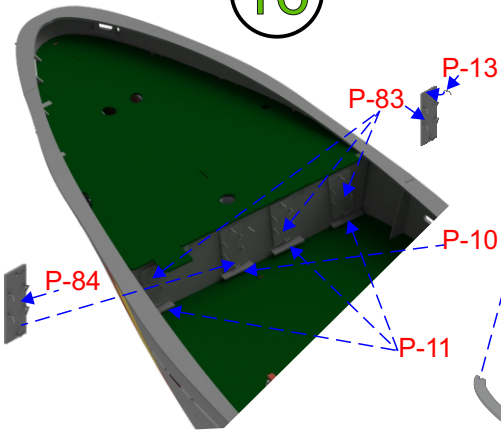


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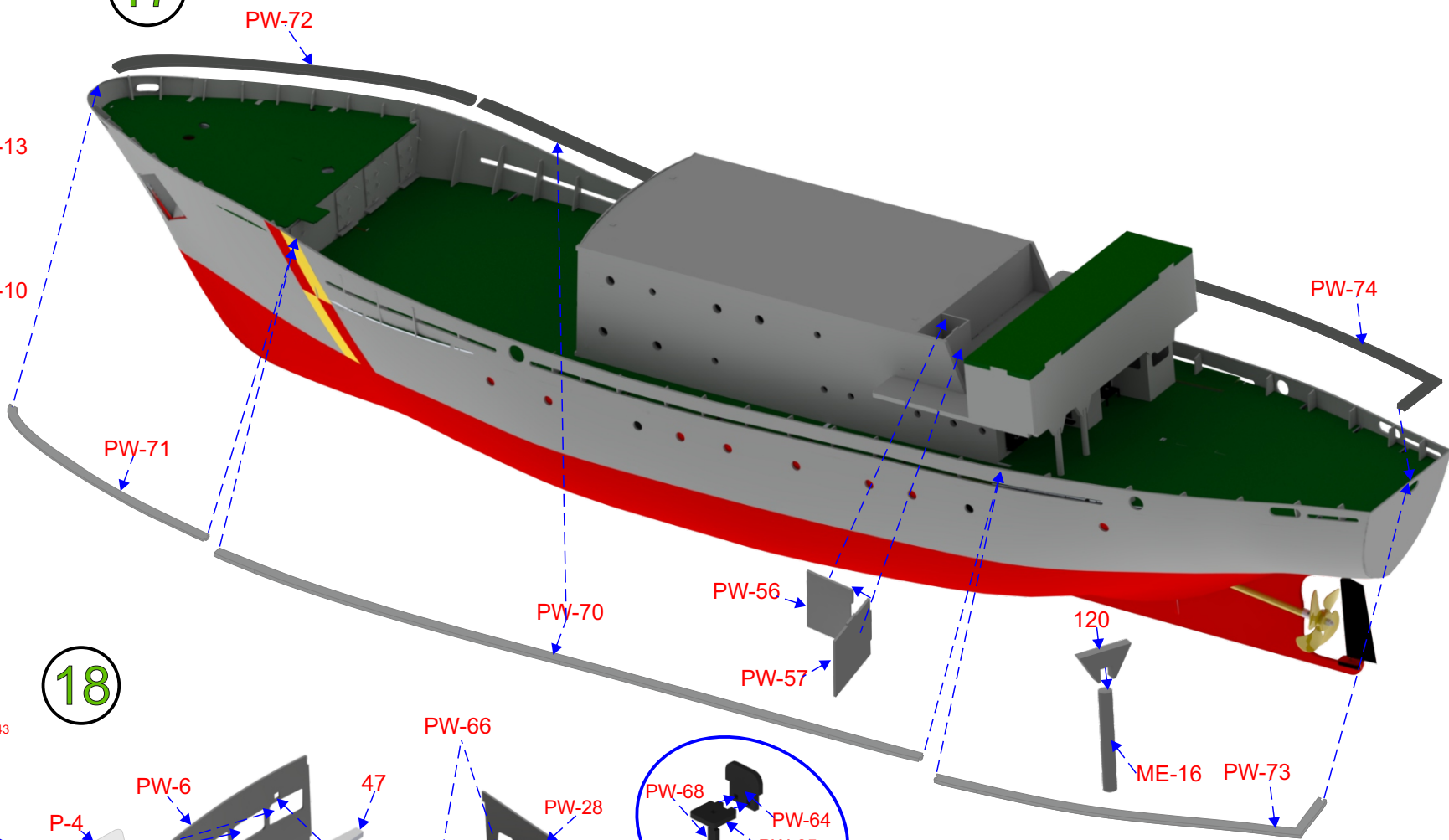




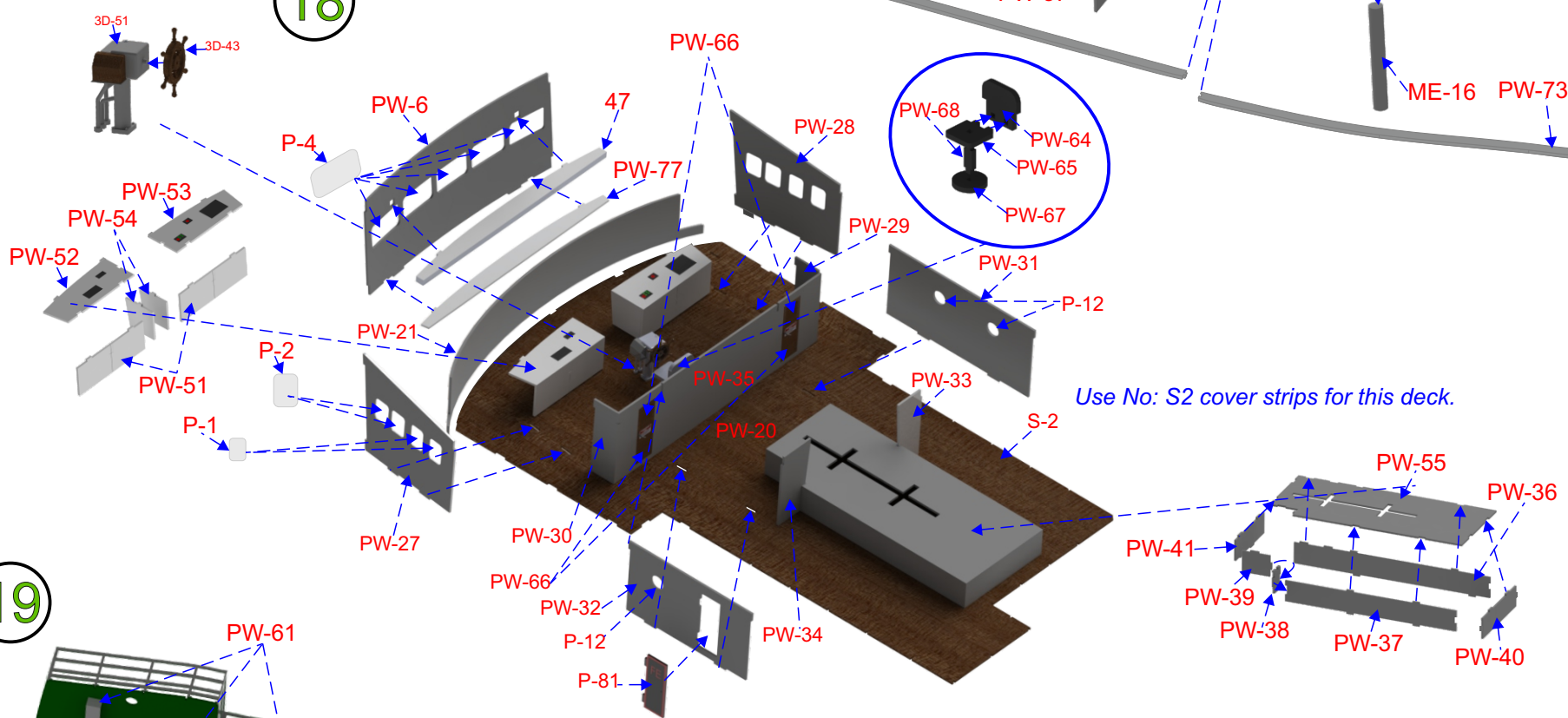
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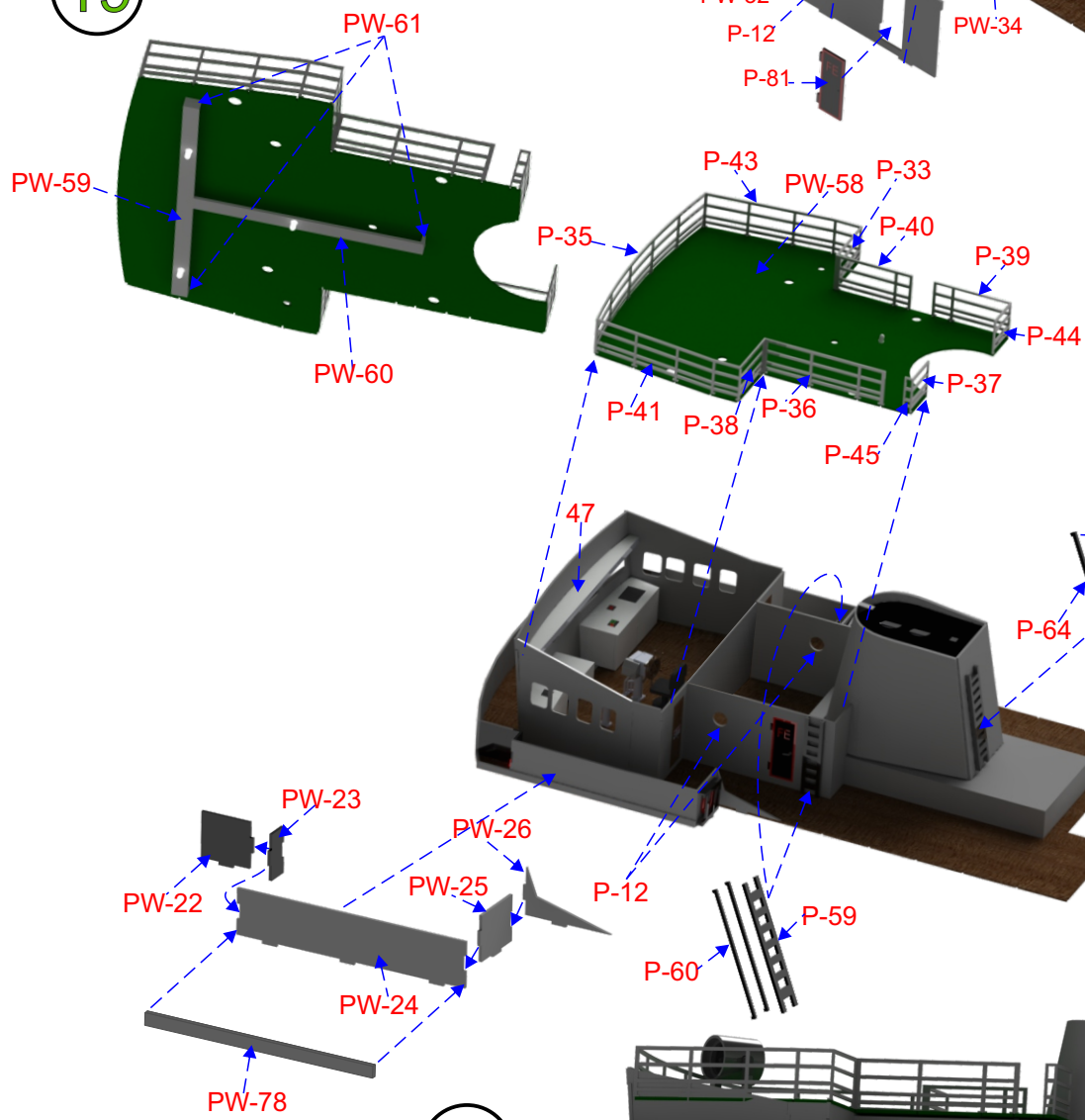
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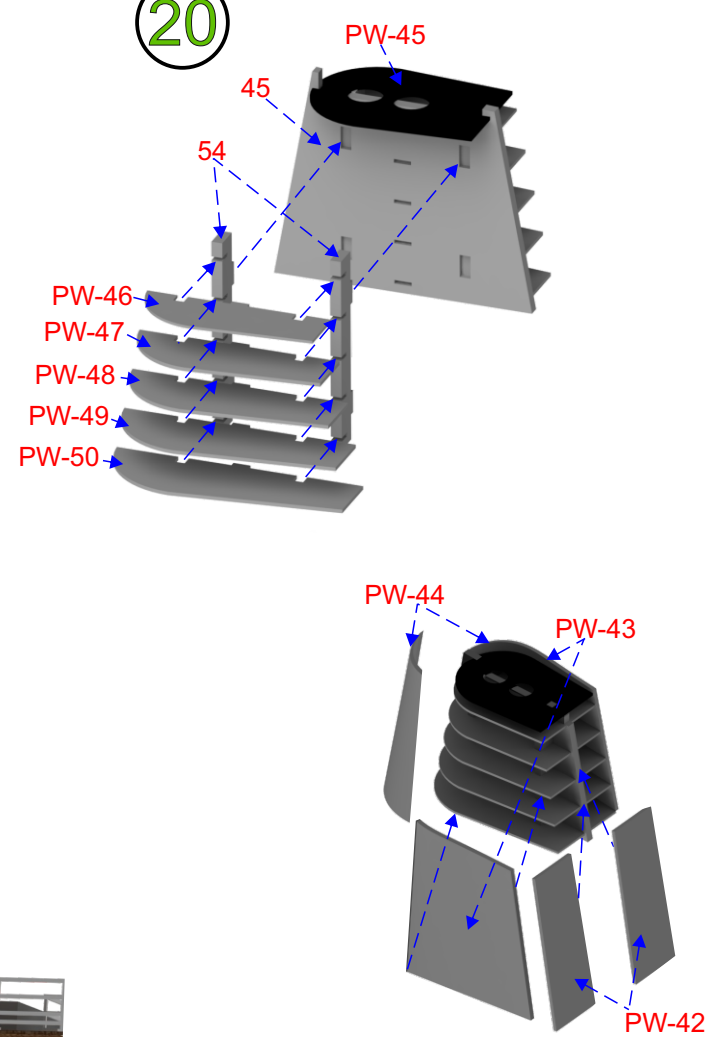
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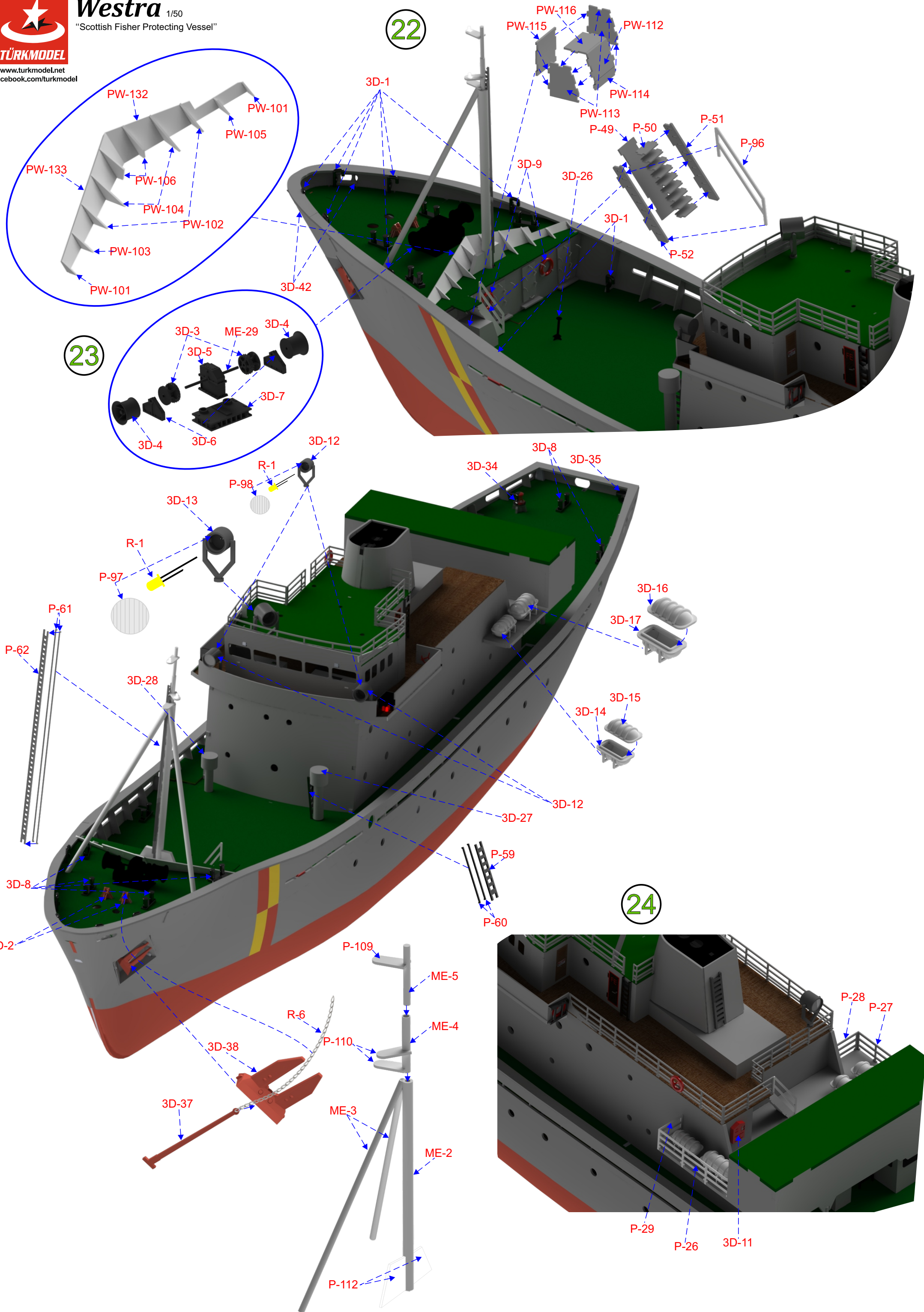
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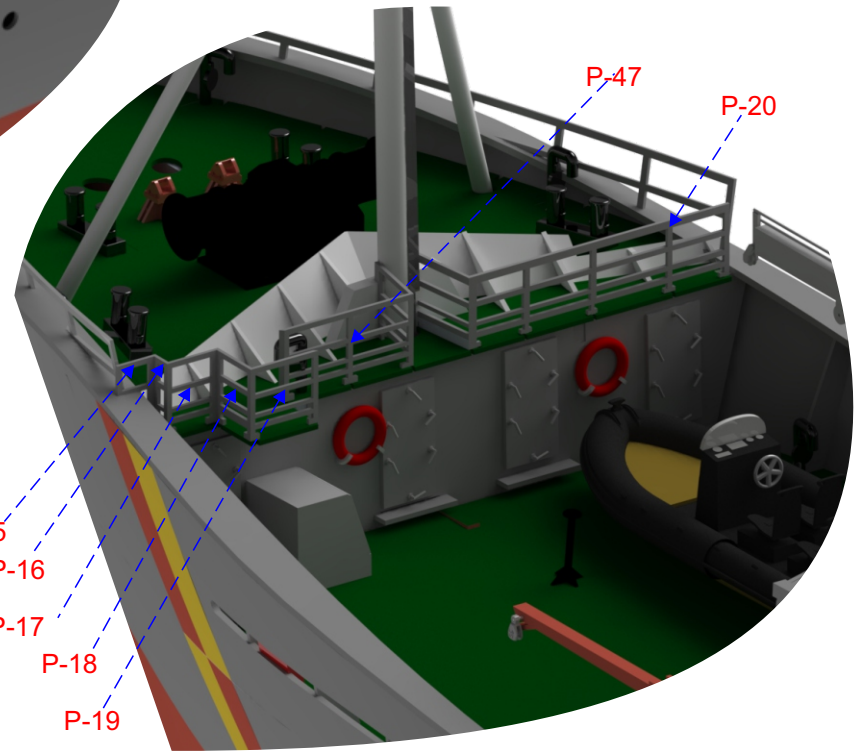
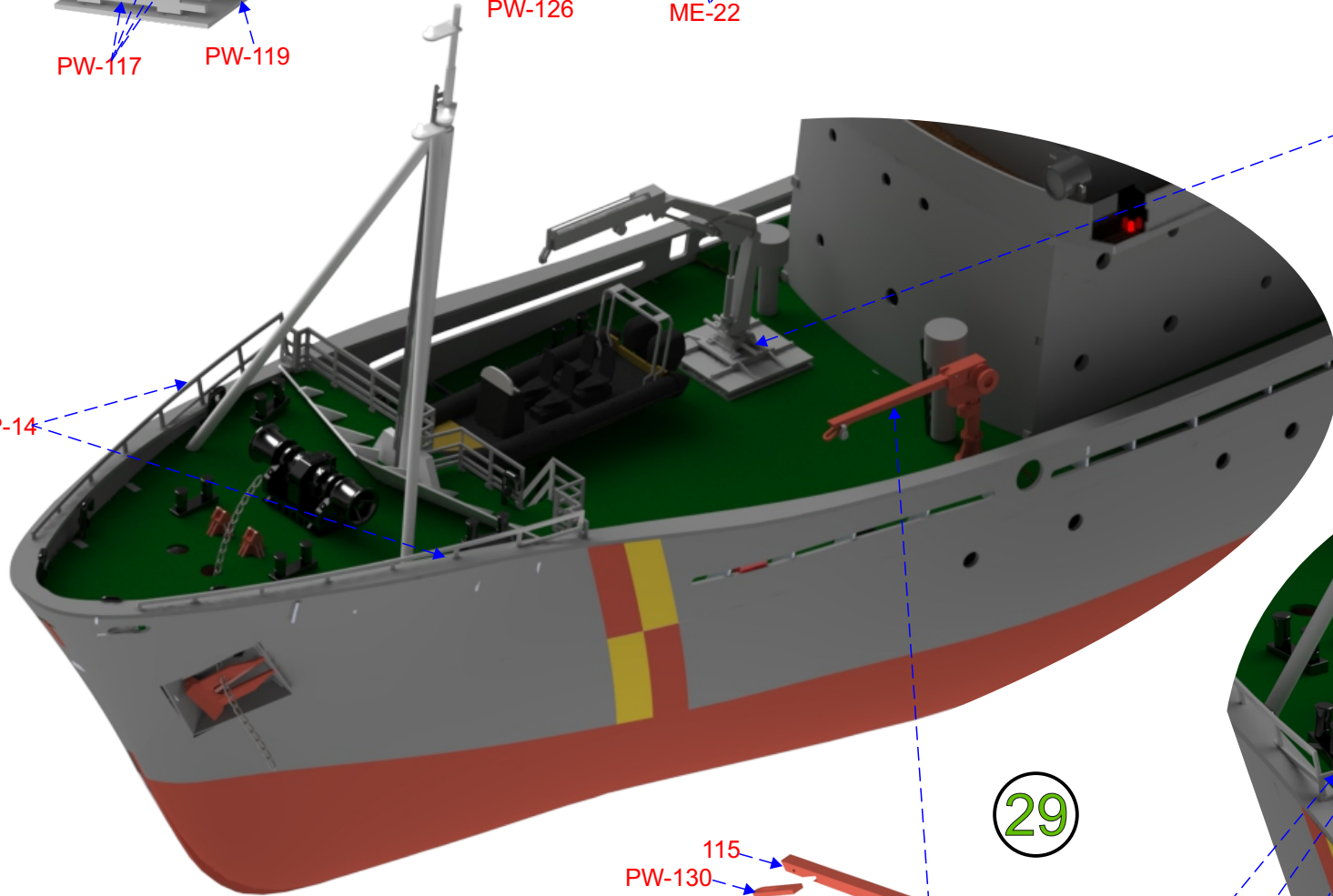
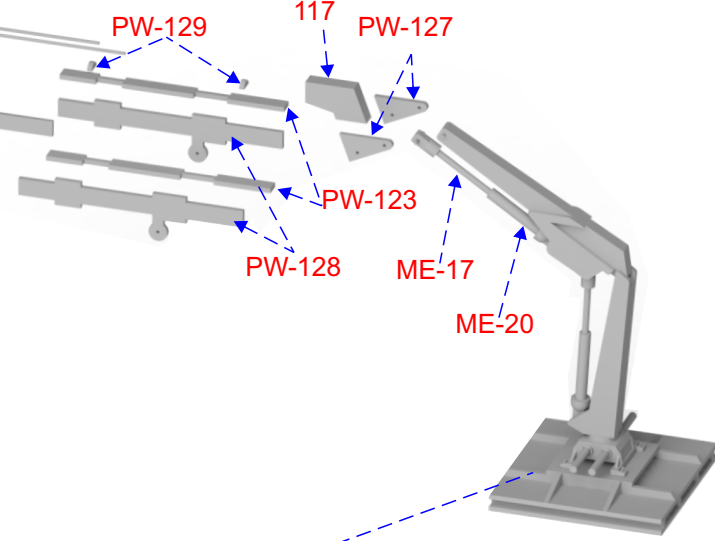
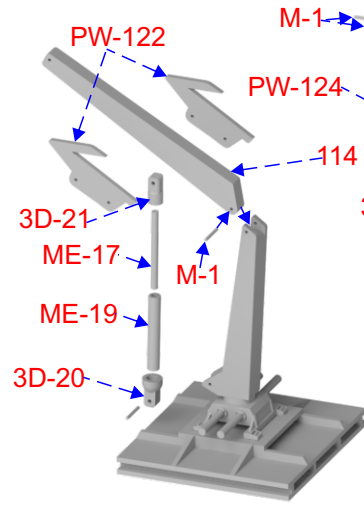
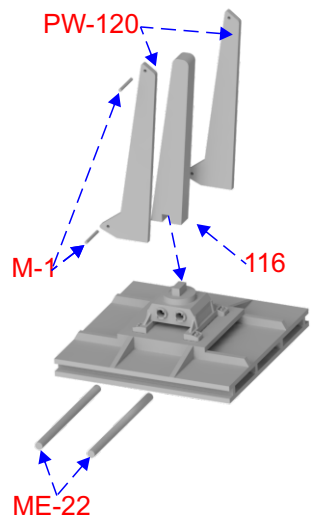
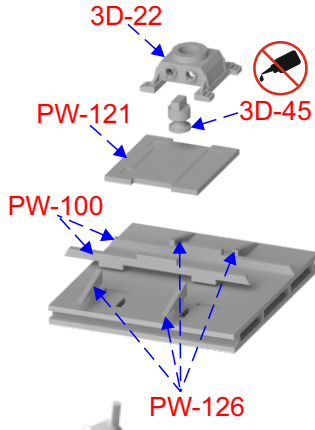
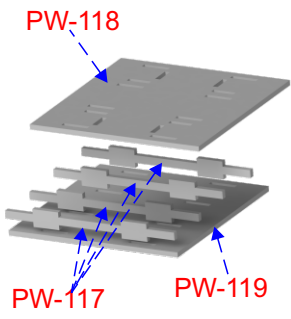




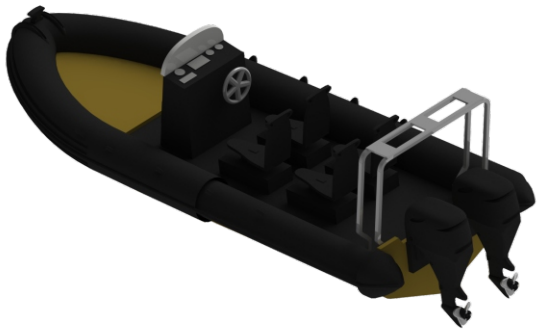
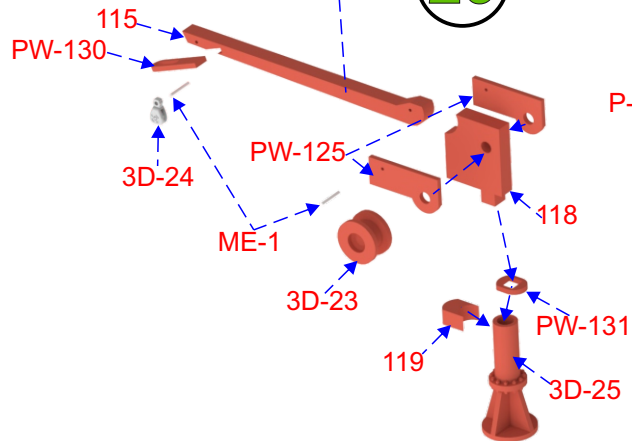




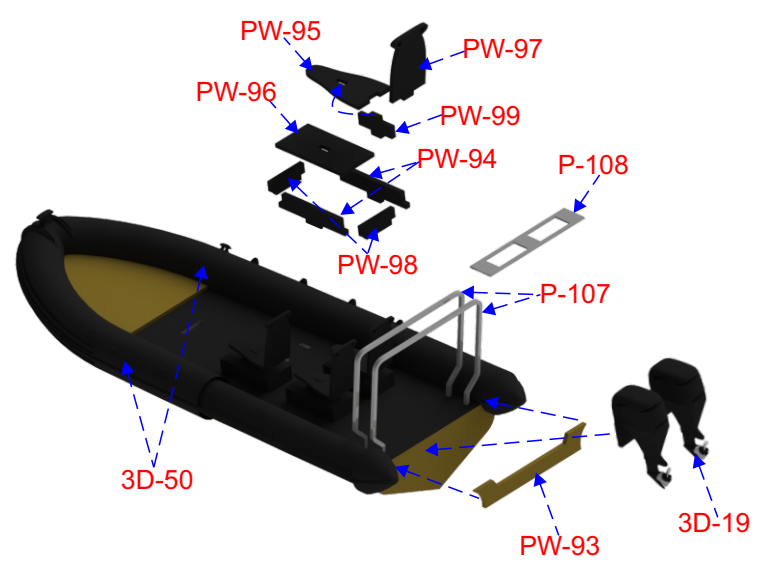
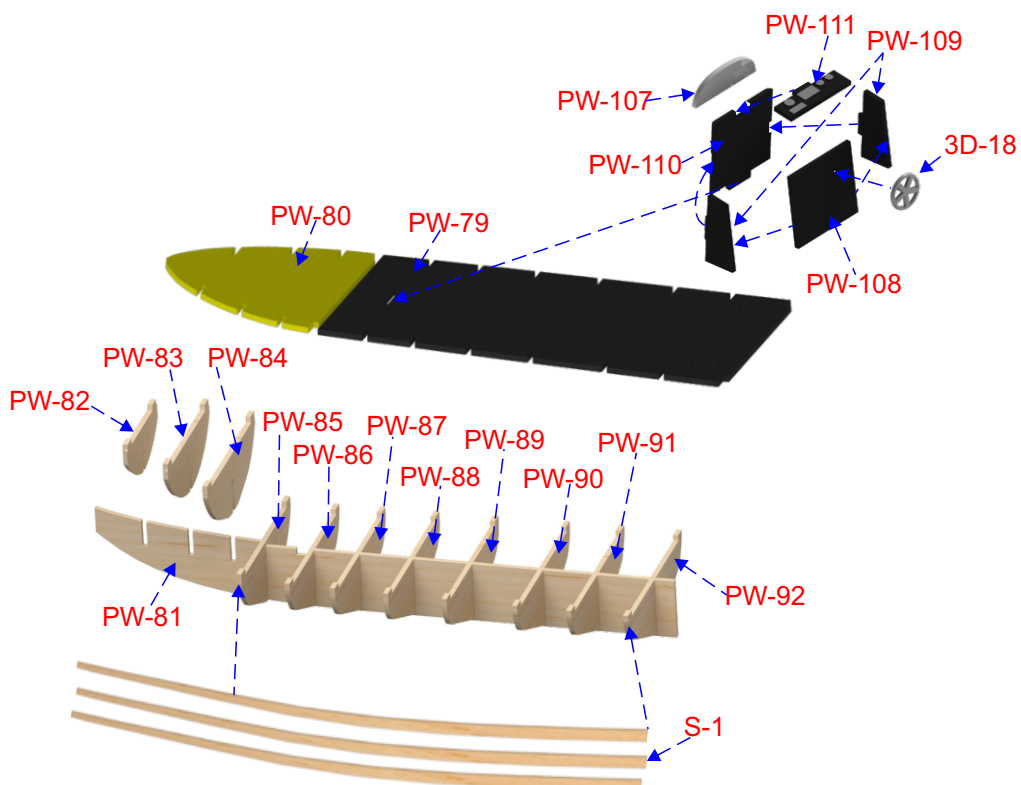
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29

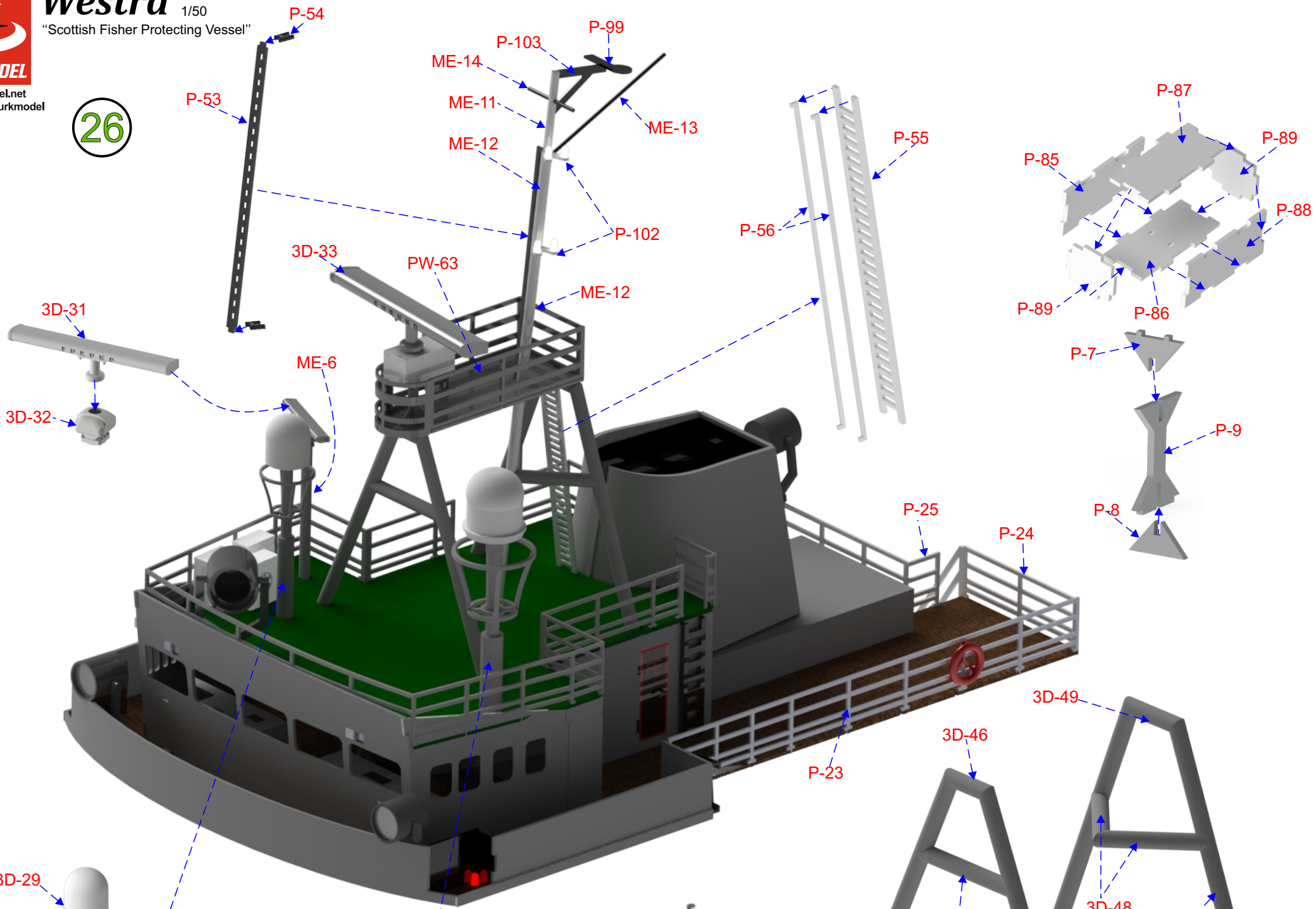


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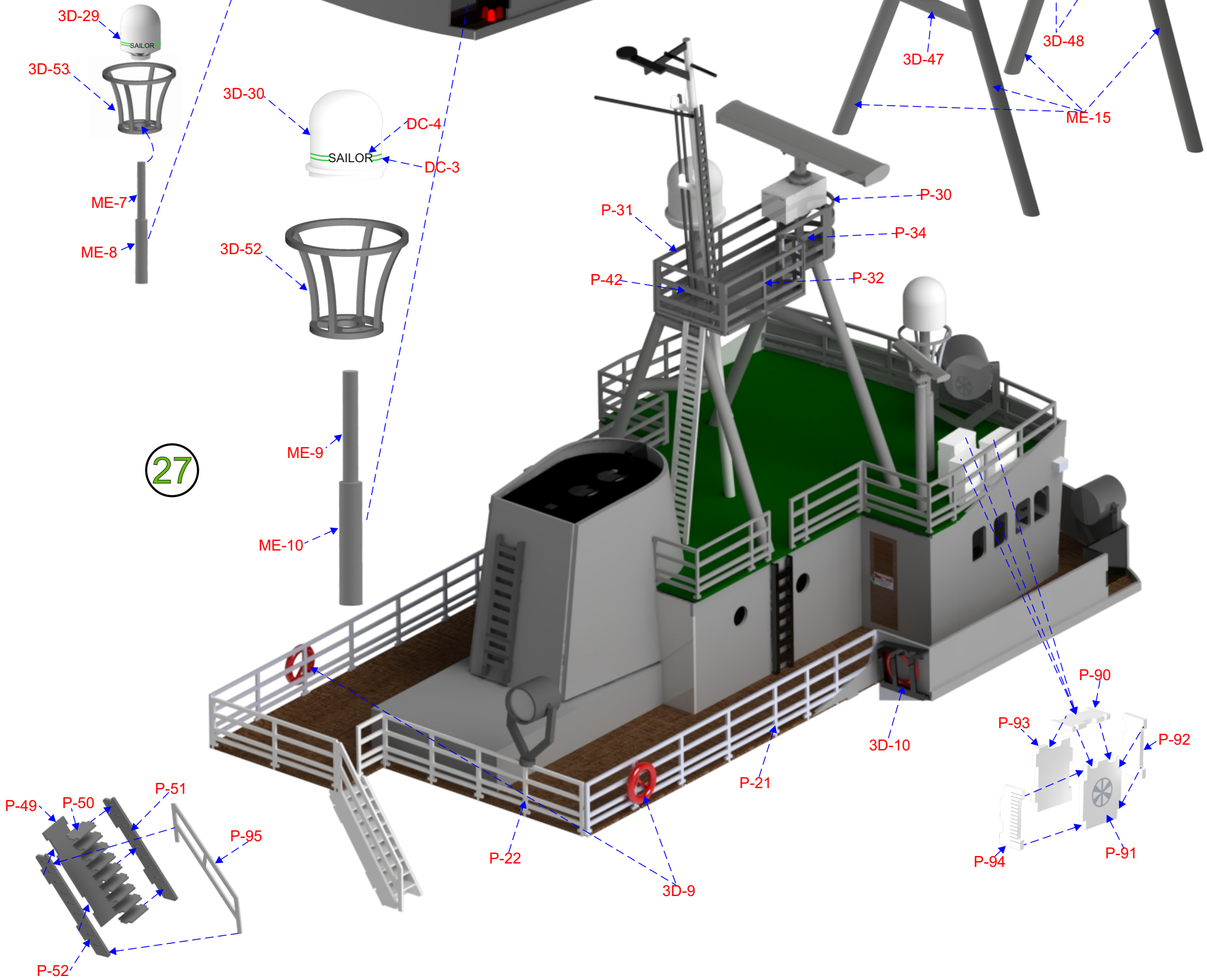




26

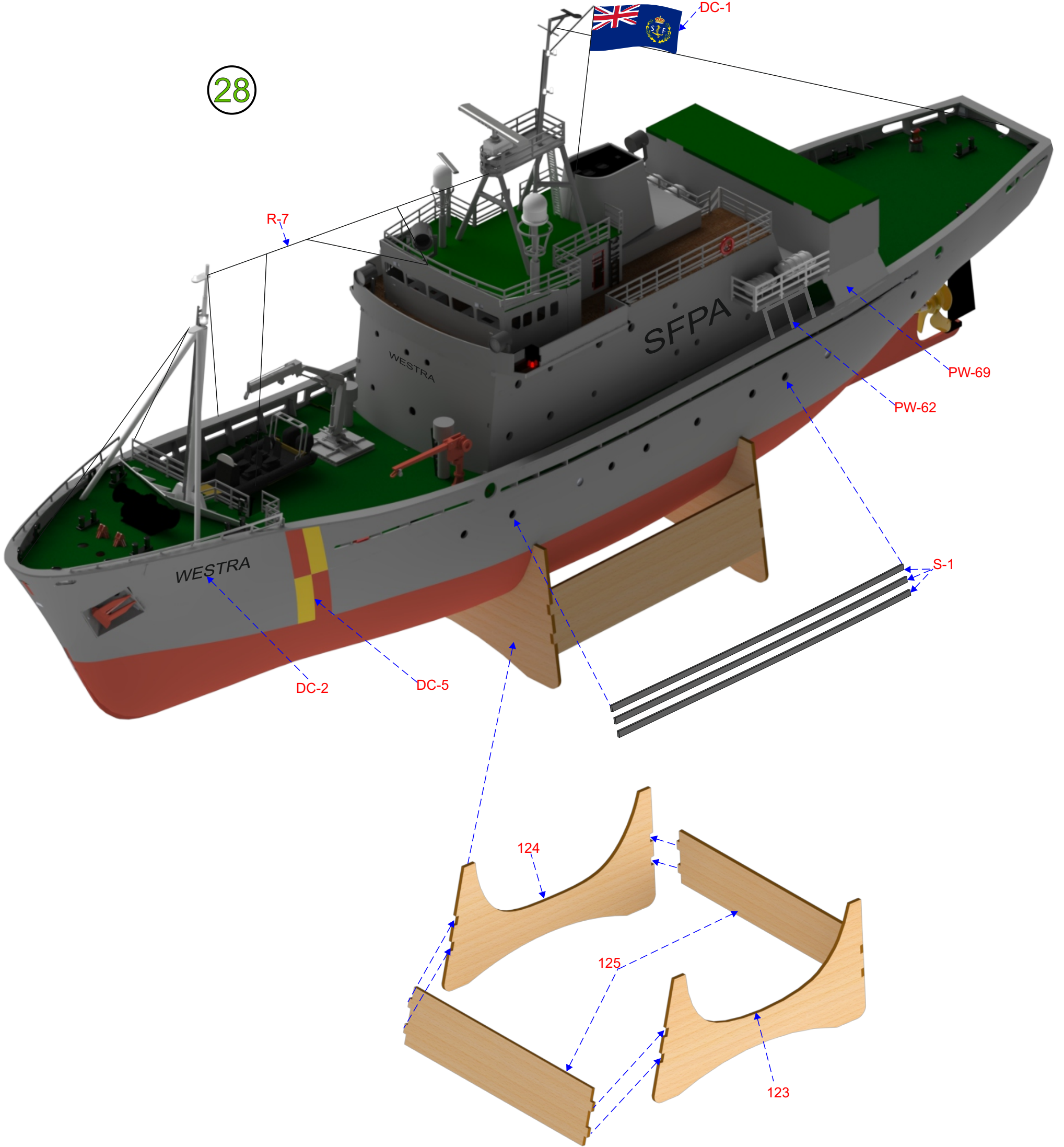


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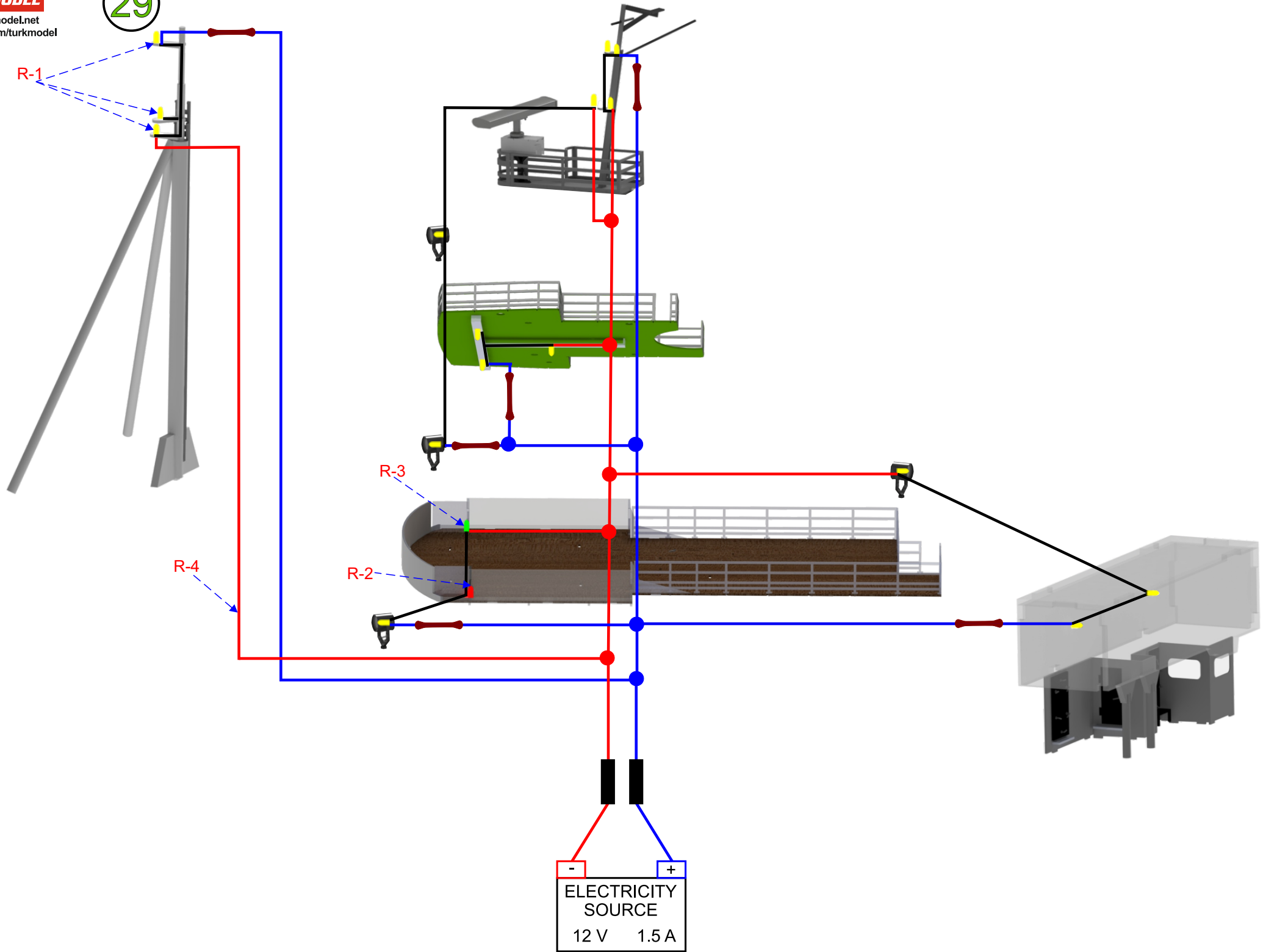




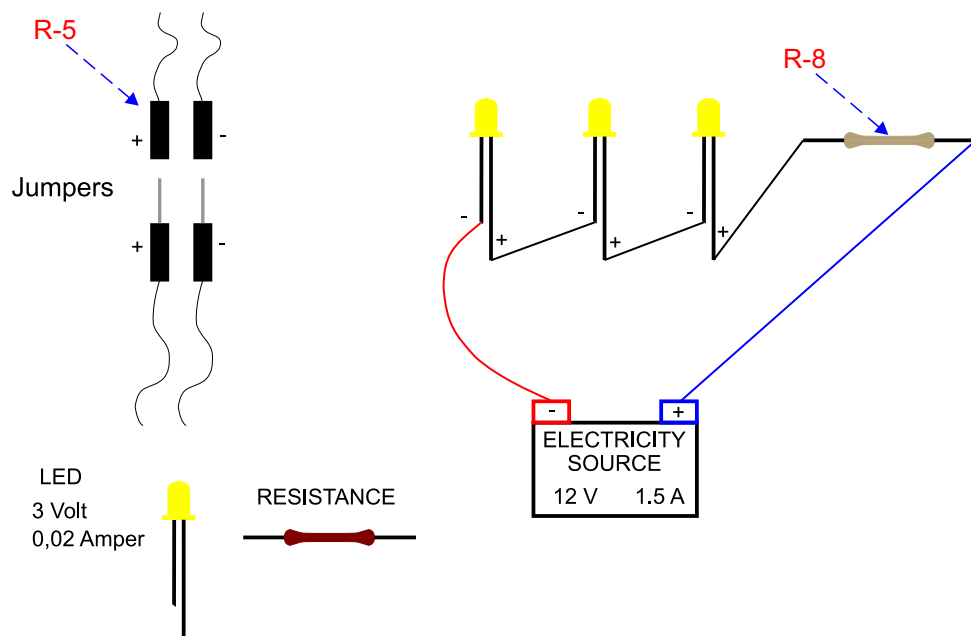
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## LED SET-UP



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.

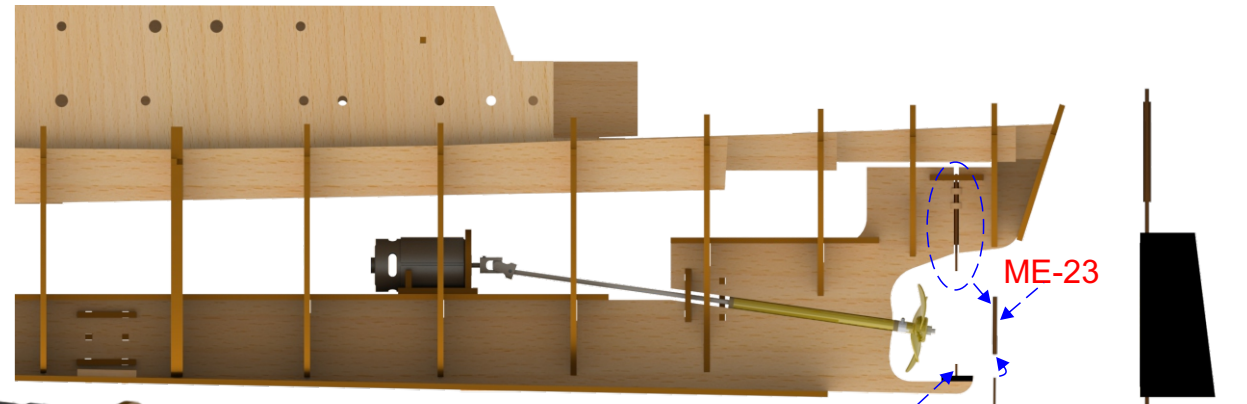
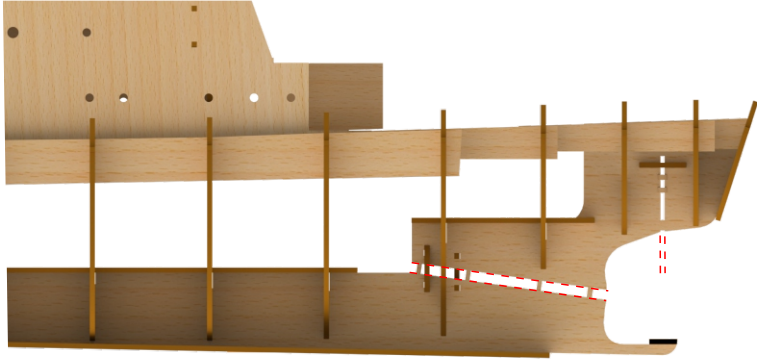
Collect the deck cables into a tip of a jack. The other tip of jack should connected to the energy source. You do this for every deck it might be needed to remove. It is going to make easier to disattach the decks. Easily you will plug off the led connections to make free the decks.

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

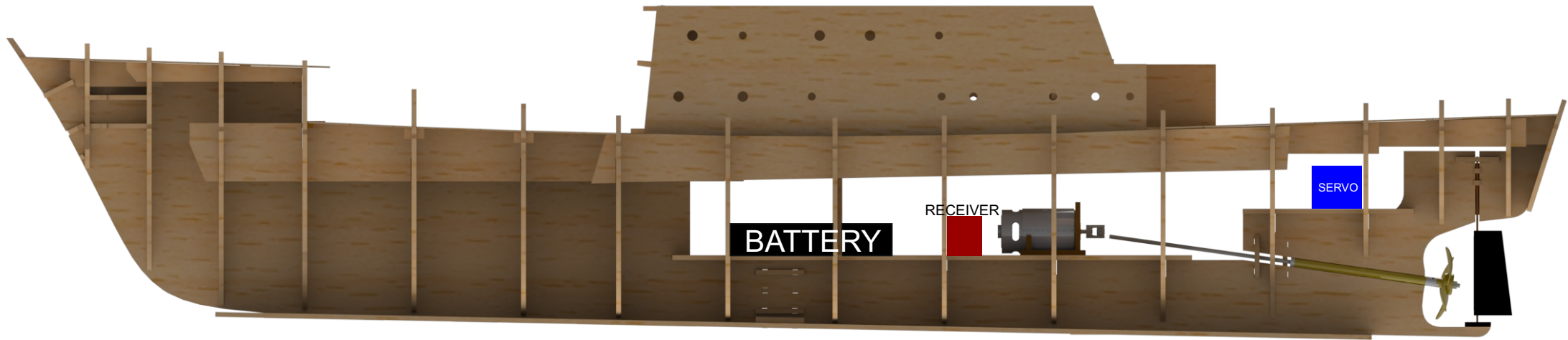
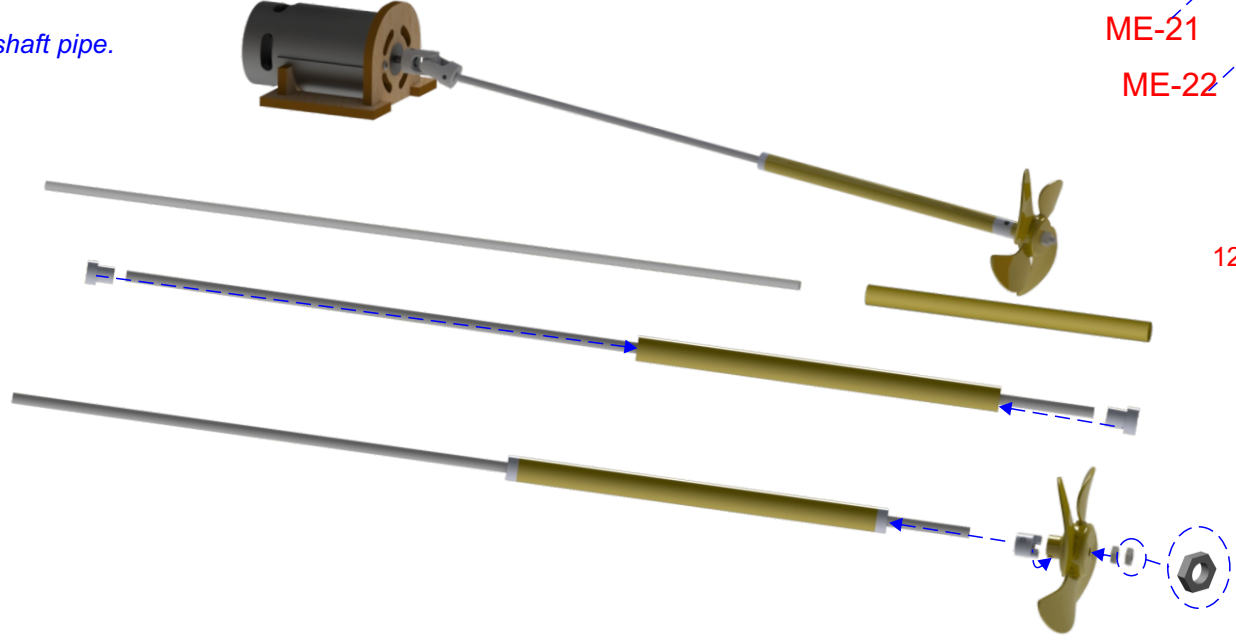
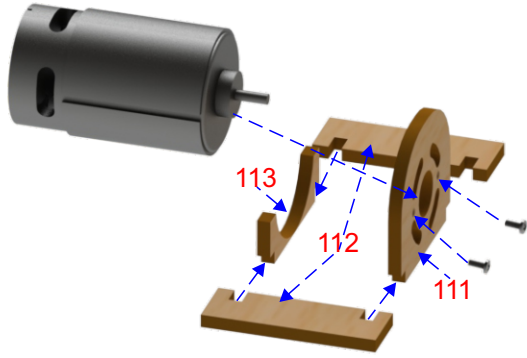


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Pass these stages If you don't build R/C model.  
R/C equipment is sold seperatly, not included the kit.



Hammer the bushes after lubricant through the shaft pipe.



- ❖ 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.



## WESTRA PART LIST

| NO        | QUANTITY | DESCRIPTION                 | Material | TYPE    |
|-----------|----------|-----------------------------|----------|---------|
| 00-0      | 2        | Keel                        | 4 mm     | Plywood |
| 1...17    | 17       | Frames                      | 4 mm     | Plywood |
| 18...20   | 8        | Keel Fixers                 | 4 mm     | Plywood |
| 21...23   | 3        | Nose Parts                  | 4 mm     | Plywood |
| 24-25     | 4        | Anchor House Back Parts     | 4 mm     | Plywood |
| 26        | 2        | Shaft Pipe House            | 4 mm     | Plywood |
| 27        | 3        | Main Post Parts             | 4 mm     | Plywood |
| 28...34   | 14       | Frames Fixers               | 4 mm     | Plywood |
| 35-36     | 2        | Base Parts                  | 4 mm     | Plywood |
| 37-38     | 2        | Side Wall                   | 4 mm     | Plywood |
| 39-40     | 3        | Front Wall Supports         | 4 mm     | Plywood |
| 41-42     | 6        | Side Wall Supports          | 4 mm     | Plywood |
| 43        | 1        | Up Wall                     | 4 mm     | Plywood |
| 44        | 4        | Deck Supports               | 4 mm     | Plywood |
| 45        | 1        | Funnel Main Part            | 4 mm     | Plywood |
| 46        | 1        | Back Wall                   | 4 mm     | Plywood |
| 47        | 1        | Captain Cabin Support       | 4 mm     | Plywood |
| 54        | 4        | Funnel Parts                | 4 mm     | Plywood |
| 56        | 2        | Support Frames              | 4 mm     | Plywood |
| 100       | 1        | Shaft Wire House            | 4 mm     | Plywood |
| 101       | 34       | Panel Supports              | 4 mm     | Plywood |
| 102-103   | 3        | Back Deck Supports          | 4 mm     | Plywood |
| 105...110 | 6        | Back Kabin                  | 4 mm     | Plywood |
| 111...113 | 4        | Engine House                | 4 mm     | Plywood |
| 114       | 1        | Main Winch Supports         | 4 mm     | Plywood |
| 115       | 1        | Secondary Winch Supports    | 4 mm     | Plywood |
| 116...117 | 2        | Main Winch Supports         | 4 mm     | Plywood |
| 118-119   | 2        | Secondary Winch Parts       | 4 mm     | Plywood |
| 120       | 2        | Back Cabin Leg Parts        | 4 mm     | Plywood |
| 121-122   | 3        | Rudder Parts                | 4 mm     | Plywood |
| 123-125   | 4        | Base Parts                  | 4 mm     | Plywood |
| PW-1      | 1        | Front Deck                  | 1,5 mm   | Plywood |
| PW2       | 1        | Middle Deck                 | 1,5 mm   | Plywood |
| PW3       | 1        | Back Deck                   | 1,5 mm   | Plywood |
| PW4-5     | 2        | Side Decks                  | 1,5 mm   | Plywood |
| PW6       | 1        | Captain Cabin Front Panel   | 1,5 mm   | Plywood |
| PW8...11  | 4        | Panels                      | 1,5 mm   | Plywood |
| PW12      | 1        | Panel                       | 1,5 mm   | Plywood |
| PW13...19 | 7        | Back Rooms                  | 1,5 mm   | Plywood |
| PW20      | 1        | Up Deck                     | 1,5 mm   | Plywood |
| PW21      | 1        | Up Front Panel              | 1,5 mm   | Plywood |
| PW22...26 | 10       | Captain Cabin Side Parts    | 1,5 mm   | Plywood |
| PW27...35 | 7        | Captain Cabin Parts         | 1,5 mm   | Plywood |
| PW36...41 | 6        | Funnel Lower Parts          | 1,5 mm   | Plywood |
| PW42...50 | 17       | Funnel Parts                | 1,5 mm   | Plywood |
| PW51...54 | 6        | Captain Cabin Control Panel | 1,5 mm   | Plywood |
| PW55      | 1        | Funnel Up Part              | 1,5 mm   | Plywood |
| PW56-57   | 2        | Back Room Parts             | 1,5 mm   | Plywood |
| PW58      | 1        | Captain Cabin Up Parts      | 1,5 mm   | Plywood |
| PW59...61 | 5        | Led Supports                | 1,5 mm   | Plywood |

| NO            | QUANTITY | DESCRIPTION               | Material       | TYPE        |
|---------------|----------|---------------------------|----------------|-------------|
| PW62          | 2        | Back Side Panel           | 1,5 mm         | Plywood     |
| PW63          | 1        | Radar Lower Deck          | 1,5 mm         | Plywood     |
| PW66          | 2        | Captain Cabin Doors       | 1,5 mm         | Plywood     |
| PW64-65-67-68 | 4        | Captain Cabin Chair       | 1,5 mm         | Plywood     |
| PW69          | 2        | Back Side Panel           | 1,5 mm         | Plywood     |
| PW70...74     | 6        | Rails                     | 1,5 mm         | Plywood     |
| PW75          | 1        | Front Panel               | 1,5 mm         | Plywood     |
| PW77          | 1        | Captain Cabin Supports    | 1,5 mm         | Plywood     |
| PW78          | 2        | Up Deck Side Support      | 1,5 mm         | Plywood     |
| PW79...99     | 54       | Zodiac Parts              | 1,5 mm         | Plywood     |
| PW100         | 2        | Winch Base Parts          | 1,5 mm         | Plywood     |
| PW101...106   | 10       | Washboard                 | 1,5 mm         | Plywood     |
| PW107...111   | 7        | Zodiac Wheel House        | 1,5 mm         | Plywood     |
| PW112...116   | 5        | Front Cabin               | 1,5 mm         | Plywood     |
| PW117...124   | 14       | Main Winch Parts          | 1,5 mm         | Plywood     |
| PW125-130-131 | 4        | Secondary Winch Parts     | 1,5 mm         | Plywood     |
| PW126...129   | 10       | Main Winch Parts          | 1,5 mm         | Plywood     |
| PW132         | 1        | Washboard Parts           | 1,5 mm         | Plywood     |
| PW133         | 1        | Washboard Parts           | 1,5 mm         | Plywood     |
| I...XIX       | 68       | Panel Supports            | 1,5 mm         | Plywood     |
| FLX-1         | 1        | Nose Parts                | 1 mm           | Plywood     |
| S1            | 130      | Cover Strips              | 1.6x5.5x650 mm | Strips      |
| S2            | 50       | Secondary Cover Strips    | 0.5x4x350 mm   | Strips      |
| ME-1          | 1        | Flat Wire                 | 0,8x1000 mm    | Metal       |
| ME-2          | 1        | Front Deck Main Post      | 8x200 mm       | Metal       |
| ME-3          | 2        | Front Deck Main Side Post | 5x190 mm       | Metal       |
| ME-4          | 1        | Front Deck Main Up Wire-1 | 6x40 mm        | Metal       |
| ME-5          | 1        | Front Deck Main Up Wire-2 | 4x40 mm        | Metal       |
| ME-6          | 1        | Small Radar Wire          | 4x50 mm        | Metal       |
| ME-7          | 1        | Ball Small Radar Wire     | 4x30 mm        | Metal       |
| ME-8          | 1        | Ball Small Radar Pipe     | 6x32 mm        | Metal       |
| ME-9          | 1        | Ball Large Radar Wire     | 5x40 mm        | Metal       |
| ME-10         | 1        | Ball Large Radar Pipe     | 7x32 mm        | Metal       |
| ME-11         | 1        | Up Deck Wire-1            | 3x30 mm        | Metal       |
| ME-12         | 1        | Up Deck Wire-2            | 4x172 mm       | Metal       |
| ME-13         | 1        | Up Deck Wire-3            | 1,5x58 mm      | Metal       |
| ME-14         | 1        | Up Deck Wire-4            | 1,5x26 mm      | Metal       |
| ME-15         | 4        | Up Radar Lower Pipe       | 5x90 mm        | Metal       |
| ME-16         | 2        | Back Cabin Legs           | 5x40 mm        | Metal       |
| ME-17         | 2        | Winch Wire                | 2x34 mm        | Metal       |
| ME-18         | 2        | Winch Wire                | 1,7x25 mm      | Metal       |
| ME-19         | 1        | Winch Pipe                | 3x20 mm        | Metal       |
| ME-20         | 1        | Winch Pipe                | 3x17 mm        | Metal       |
| ME-21         | 1        | Rudder Wire               | 1,7x12 mm      | Metal       |
| ME-22         | 1        | Rudder Wire               | 1,7x60         | Metal       |
| ME-23         | 1        | Rudder Pipe               | 3x40 mm        | Metal       |
| ME-24         | 1        | Windlass Wire             | 2x47 mm        | Metal       |
| ME-25         | 1        | Propeller Wire            | 7x80 mm        | Metal       |
| 3D1           | 10       | J Air Conditioner         | -              | 3D Printout |
| 3D2           | 2        | Chain Bed                 | -              | 3D Printout |
| 3D3           | 2        | Windlass Chain Bed        | -              | 3D Printout |
| 3D4           | 2        | Windlass Head             | -              | 3D Printout |
| 3D5           | 1        | Windlass Middle Part      | -              | 3D Printout |
| 3D6           | 2        | Windlass Legs             | -              | 3D Printout |
| 3D7           | 1        | Windlass Base             | -              | 3D Printout |
| 3D8           | 8        | Bollards                  | -              | 3D Printout |
| 3D9           | 4        | Lifebuoy and hanger       | -              | 3D Printout |
| 3D10          | 2        | Lifebuoy and hanger       | -              | 3D Printout |



| NO     | QUANTITY | DESCRIPTION                       | Material | TYPE        |
|--------|----------|-----------------------------------|----------|-------------|
| 3D11   | 2        | Fire House                        | -        | 3D Printout |
| 3D12   | 3        | Small Projector                   | -        | 3D Printout |
| 3D13   | 1        | Large Projector                   | -        | 3D Printout |
| 3D14   | 1        | Small lifeboat Male               | -        | 3D Printout |
| 3D15   | 1        | Small Lifeboat Female             | -        | 3D Printout |
| 3D16   | 3        | Large Lifeboat Projector Female   | -        | 3D Printout |
| 3D17   | 3        | Large Lifeboat Projector Male     | -        | 3D Printout |
| 3D18   | 1        | Zodiac Wheel                      | -        | 3D Printout |
| 3D19   | 2        | Zodiac Motor                      | -        | 3D Printout |
| 3D20   | 2        | Winch Hydraulic Parts Down        | -        | 3D Printout |
| 3D21   | 2        | Winch Hydraulic Parts Up          | -        | 3D Printout |
| 3D22   | 1        | Main Winch Base Parts             | -        | 3D Printout |
| 3D23   | 1        | Secondary Winch Main Pulley       | -        | 3D Printout |
| 3D24   | 1        | Secondary Winch Pulley            | -        | 3D Printout |
| 3D25   | 1        | Secondary Winch Leg               | -        | 3D Printout |
| 3D26   | 1        | Zodiac Bollards                   | -        | 3D Printout |
| 3D27   | 1        | Long Air Conditioner              | -        | 3D Printout |
| 3D28   | 1        | Short Air Conditioner             | -        | 3D Printout |
| 3D29   | 1        | Small Ball Radar                  | -        | 3D Printout |
| 3D30   | 1        | Large Ball Radar                  | -        | 3D Printout |
| 3D31   | 1        | Small Radar                       | -        | 3D Printout |
| 3D32   | 1        | Small Radar Motor                 | -        | 3D Printout |
| 3D33   | 1        | Large Radar                       | -        | 3D Printout |
| 3D34   | 1        | Large Single Bollards             | -        | 3D Printout |
| 3D35   | 1        | Small Single Bollards             | -        | 3D Printout |
| 3D36   | 2        | Anchor House                      | -        | 3D Printout |
| 3D37   | 2        | Anchor Hanger                     | -        | 3D Printout |
| 3D38   | 2        | Anchor                            | -        | 3D Printout |
| 3D39   | 1        | Propeller center                  | -        | 3D Printout |
| 3D40   | 4        | Propeller parts                   | -        | 3D Printout |
| 3D41   | 1        | Propeller Male                    | -        | 3D Printout |
| 3D42   | 2        | Double Nose Bollards              | -        | 3D Printout |
| 3D43   | 1        | Rudder                            | -        | 3D Printout |
| 3D44   | 1        | Main Winch Pulley                 | -        | 3D Printout |
| 3D45   | 1        | Pin                               | -        | 3D Printout |
| 3D46   | 1        | Pipe-1                            | 5x17     | 3D Printout |
| 3D47   | 1        | Pipe-2                            | 5x34     | 3D Printout |
| 3D48   | 2        | Pipe-3                            | 5x32     | 3D Printout |
| 3D49   | 1        | Pipe-4                            | 5x22     | 3D Printout |
| 3D50   | 2        | Zodiac Side Parts                 | -        | 3D Printout |
| 3D51   | 1        | Rudder House                      | -        | 3D Printout |
| 3D52   | 1        | Large Furuno House                | -        | 3D Printout |
| 3D53   | 1        | Small Furuno House                | -        | 3D Printout |
| R1     | 20       | Clear Led                         | -        | Ready       |
| R2     | 1        | Red Led                           | -        | Ready       |
| R3     | 1        | Green Led                         | -        | Ready       |
| R4     | -        | Copper Wire                       | 4 m      | Ready       |
| R5     | 2        | Jack                              | -        | Ready       |
| R6     | -        | Chain                             | 500 mm   | Ready       |
| R7     | -        | Black Yarn                        | 2 m      | Ready       |
| P1     | 4        | Captain Cabin Windows             | -        | Plexi       |
| P2     | 4        | Captain Cabin Windows             | -        | Plexi       |
| P3     | 2        | Back Down Room Glasses            | -        | Plexi       |
| P4     | 5        | Captain Cabin Front Rectangle     | -        | Plexi       |
| P5     | 3        | Large Porthole Glass              | -        | Plexi       |
| P6     | 14       | Middel Cabin Small Porthole Glass | -        | Plexi       |
| P7...9 | 3        | Large Radar Leg Parts             | -        | Plexi       |
| P10-11 | 4        | Step Parts                        | -        | Plexi       |

| NO         | QUANTITY | DESCRIPTION                  | Material | TYPE    |
|------------|----------|------------------------------|----------|---------|
| P12        | 3        | Captain Cabin Porthole Glass | -        | Plexi   |
| P12        | 13       | Middle Cabin Porthole        | -        | Plexi   |
| P12        | 19       | Main Porthole Glass          | -        | Plexi   |
| P13        | 37       | Handels                      | -        | Plexi   |
| P14...45   | 34       | Rails                        | -        | PVC     |
| P49...52   | 24       | Stairs Parts                 | -        | Plexi   |
| P53-54     | 3        | Up Radar Stairs              | -        | Plexi   |
| P55-56     | 3        | Front Funnel Ladder          | -        | Plexi   |
| P57-58     | 3        | Middle Cabin Ladder          | -        | Plexi   |
| P59-60     | 3        | Captain Cabin Stairs         | -        | Plexi   |
| P61-62     | 3        | Main Post Stairs             | -        | Plexi   |
| P63-64     | 3        | Funnel Rails                 | -        | Plexi   |
| P78...84   | 9        | Doors                        | -        | Plexi   |
| P85...89   | 6        | Large Radar Down Box         | -        | Plexi   |
| P90...94   | 12       | Air Conditioner Motor        | -        | Plexi   |
| P95-96     | 2        | Stairs Rails                 | -        | Plexi   |
| P97-98     | 4        | Projector Glass              | -        | Plexi   |
| P99        | 1        | Antenna Parts                | -        | Plexi   |
| P100-101   | 3        | Step Parts                   | -        | Plexi   |
| P102       | 2        | Led Supports                 | -        | Plexi   |
| P-103      | 1        | Antenna Parts                | -        | Plexi   |
| P-104      | 2        | Step Parts                   | -        | Plexi   |
| P107-108   | 3        | Zodiac Parts                 | -        | Plexi   |
| P109...110 | 3        | Led Base                     | -        | Plexi   |
| P112       | 2        | Main Post Parts              | -        | Plexi   |
| DC-1       | 1        | Flag                         | -        | Sticker |
| DC-2       | 1        | Name Sticker                 | -        | Sticker |
| DC-3       | 1        | Radar Sticker                | -        | Sticker |
| DC-4       | 1        | Radar Name Sticker           | -        | Sticker |
| DC-5       | 1        | Body Sticker                 | -        | Sticker |



## WESTRA PART LIST

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| NO            | QUANTITY | DESCRIPTION                 | Material | TYPE    |
|---------------|----------|-----------------------------|----------|---------|
| 00-0          | 2        | Keel                        | 4 mm     | Plywood |
| 1...17        | 17       | Frames                      | 4 mm     | Plywood |
| 18...20       | 8        | Keel Fixers                 | 4 mm     | Plywood |
| 21...23       | 3        | Nose Parts                  | 4 mm     | Plywood |
| 24-25         | 4        | Anchor House Back Parts     | 4 mm     | Plywood |
| 26            | 2        | Shaft Pipe House            | 4 mm     | Plywood |
| 27            | 3        | Main Post Parts             | 4 mm     | Plywood |
| 28...34       | 14       | Frames Fixers               | 4 mm     | Plywood |
| 35-36         | 2        | Base Parts                  | 4 mm     | Plywood |
| 37-38         | 2        | Side Wall                   | 4 mm     | Plywood |
| 39-40         | 3        | Front Wall Supports         | 4 mm     | Plywood |
| 41-42         | 6        | Side Wall Supports          | 4 mm     | Plywood |
| 43            | 1        | Up Wall                     | 4 mm     | Plywood |
| 44            | 4        | Deck Supports               | 4 mm     | Plywood |
| 45            | 1        | Funnel Main Part            | 4 mm     | Plywood |
| 46            | 1        | Back Wall                   | 4 mm     | Plywood |
| 47            | 1        | Captain Cabin Support       | 4 mm     | Plywood |
| 54            | 4        | Funnel Parts                | 4 mm     | Plywood |
| 56            | 2        | Support Frames              | 4 mm     | Plywood |
| 100           | 1        | Shaft Wire House            | 4 mm     | Plywood |
| 101           | 34       | Panel Supports              | 4 mm     | Plywood |
| 102-103       | 3        | Back Deck Supports          | 4 mm     | Plywood |
| 105...110     | 6        | Back Kabin                  | 4 mm     | Plywood |
| 111...113     | 4        | Engine House                | 4 mm     | Plywood |
| 114           | 1        | Main Winch Supports         | 4 mm     | Plywood |
| 115           | 1        | Secondary Winch Supports    | 4 mm     | Plywood |
| 116...117     | 2        | Main Winch Supports         | 4 mm     | Plywood |
| 118-119       | 2        | Secondary Winch Parts       | 4 mm     | Plywood |
| 120           | 2        | Back Cabin Leg Parts        | 4 mm     | Plywood |
| 121-122       | 3        | Rudder Parts                | 4 mm     | Plywood |
| 123-125       | 4        | Base Parts                  | 4 mm     | Plywood |
| PW-1          | 1        | Front Deck                  | 1,5 mm   | Plywood |
| PW2           | 1        | Middle Deck                 | 1,5 mm   | Plywood |
| PW3           | 1        | Back Deck                   | 1,5 mm   | Plywood |
| PW4-5         | 2        | Side Decks                  | 1,5 mm   | Plywood |
| PW6           | 1        | Captain Cabin Front Panel   | 1,5 mm   | Plywood |
| PW8...11      | 4        | Panels                      | 1,5 mm   | Plywood |
| PW12          | 1        | Panel                       | 1,5 mm   | Plywood |
| PW13...19     | 7        | Back Rooms                  | 1,5 mm   | Plywood |
| PW20          | 1        | Up Deck                     | 1,5 mm   | Plywood |
| PW21          | 1        | Up Front Panel              | 1,5 mm   | Plywood |
| PW22...26     | 10       | Captain Cabin Side Parts    | 1,5 mm   | Plywood |
| PW27...35     | 7        | Captain Cabin Parts         | 1,5 mm   | Plywood |
| PW36...41     | 6        | Funnel Lower Parts          | 1,5 mm   | Plywood |
| PW42...50     | 17       | Funnel Parts                | 1,5 mm   | Plywood |
| PW51...54     | 6        | Captain Cabin Control Panel | 1,5 mm   | Plywood |
| PW55          | 1        | Funnel Up Part              | 1,5 mm   | Plywood |
| PW56-57       | 2        | Back Room Parts             | 1,5 mm   | Plywood |
| PW58          | 1        | Captain Cabin Up Parts      | 1,5 mm   | Plywood |
| PW59...61     | 5        | Led Supports                | 1,5 mm   | Plywood |
| PW62          | 2        | Back Side Panel             | 1,5 mm   | Plywood |
| PW63          | 1        | Radar Lower Deck            | 1,5 mm   | Plywood |
| PW66          | 2        | Captain Cabin Doors         | 1,5 mm   | Plywood |
| PW64-65-67-68 | 4        | Captain Cabin Chair         | 1,5 mm   | Plywood |
| PW69          | 2        | Back Side Panel             | 1,5 mm   | Plywood |
| PW70...74     | 6        | Rails                       | 1,5 mm   | Plywood |
| PW75          | 1        | Front Panel                 | 1,5 mm   | Plywood |
| PW77          | 1        | Captain Cabin Supports      | 1,5 mm   | Plywood |
| PW78          | 2        | Up Deck Side Support        | 1,5 mm   | Plywood |
| PW79...99     | 54       | Zodiac Parts                | 1,5 mm   | Plywood |
| PW100         | 2        | Winch Base Parts            | 1,5 mm   | Plywood |
| PW101...106   | 10       | Washboard                   | 1,5 mm   | Plywood |
| PW107...111   | 7        | Zodiac Wheel House          | 1,5 mm   | Plywood |
| PW112...116   | 5        | Front Cabin                 | 1,5 mm   | Plywood |
| PW117...124   | 14       | Main Winch Parts            | 1,5 mm   | Plywood |
| PW125-130-131 | 4        | Secondary Winch Parts       | 1,5 mm   | Plywood |
| PW126...129   | 10       | Main Winch Parts            | 1,5 mm   | Plywood |
| PW132         | 1        | Washboard Parts             | 1,5 mm   | Plywood |
| PW133         | 1        | Washboard Parts             | 1,5 mm   | Plywood |
| 1...XIX       | 68       | Panel Supports              | 1,5 mm   | Plywood |

## WESTRA PART LIST

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| NO    | QUANTITY | DESCRIPTION                     | SIZE           | TYPE        |
|-------|----------|---------------------------------|----------------|-------------|
| FLX-1 | 1        | Nose Parts                      | 1 mm           | Plywood     |
| S1    | 130      | Cover Strips                    | 1.6x5.5x650 mm | Strips      |
| S2    | 50       | Secondary Cover Strips          | 0.5x4x350 mm   | Strips      |
| ME-1  | 1        | Flat Wire                       | 0,8x1000 mm    | Metal       |
| ME-2  | 1        | Front Deck Main Post            | 8x200 mm       | Metal       |
| ME-3  | 2        | Front Deck Main Side Post       | 5x190 mm       | Metal       |
| ME-4  | 1        | Front Deck Main Up Wire-1       | 6x40 mm        | Metal       |
| ME-5  | 1        | Front Deck Main Up Wire-2       | 4x40 mm        | Metal       |
| ME-6  | 1        | Small Radar Wire                | 4x50 mm        | Metal       |
| ME-7  | 1        | Ball Small Radar Wire           | 4x30 mm        | Metal       |
| ME-8  | 1        | Ball Small Radar Pipe           | 6x32 mm        | Metal       |
| ME-9  | 1        | Ball Large Radar Wire           | 5x40 mm        | Metal       |
| ME-10 | 1        | Ball Large Radar Pipe           | 7x32 mm        | Metal       |
| ME-11 | 1        | Up Deck Wire-1                  | 3x30 mm        | Metal       |
| ME-12 | 1        | Up Deck Wire-2                  | 4x172 mm       | Metal       |
| ME-13 | 1        | Up Deck Wire-3                  | 1,5x58 mm      | Metal       |
| ME-14 | 1        | Up Deck Wire-4                  | 1,5x26 mm      | Metal       |
| ME-15 | 4        | Up Radar Lower Pipe             | 5x90 mm        | Metal       |
| ME-16 | 2        | Back Cabin Legs                 | 5x40 mm        | Metal       |
| ME-17 | 2        | Winch Wire                      | 2x34 mm        | Metal       |
| ME-18 | 2        | Winch Wire                      | 1,7x25 mm      | Metal       |
| ME-19 | 1        | Winch Pipe                      | 3x20 mm        | Metal       |
| ME-20 | 1        | Winch Pipe                      | 3x17 mm        | Metal       |
| ME-21 | 1        | Rudder Wire                     | 1,7x12 mm      | Metal       |
| ME-22 | 1        | Rudder Wire                     | 1,7x60         | Metal       |
| ME-23 | 1        | Rudder Pipe                     | 3x40 mm        | Metal       |
| ME-24 | 1        | Windlass Wire                   | 2x47 mm        | Metal       |
| ME-25 | 1        | Propeller Wire                  | 7x80 mm        | Metal       |
| 3D1   | 10       | J Air Conditioner               | -              | 3D Printout |
| 3D2   | 2        | Chain Bed                       | -              | 3D Printout |
| 3D3   | 2        | Windlass Chain Bed              | -              | 3D Printout |
| 3D4   | 2        | Windlass Head                   | -              | 3D Printout |
| 3D5   | 1        | Windlass Middle Part            | -              | 3D Printout |
| 3D6   | 2        | Windlass Legs                   | -              | 3D Printout |
| 3D7   | 1        | Windlass Base                   | -              | 3D Printout |
| 3D8   | 8        | Bollards                        | -              | 3D Printout |
| 3D9   | 4        | Lifebuoy and hanger             | -              | 3D Printout |
| 3D10  | 2        | Lifebuoy and hanger             | -              | 3D Printout |
| 3D11  | 2        | Fire House                      | -              | 3D Printout |
| 3D12  | 3        | Small Projector                 | -              | 3D Printout |
| 3D13  | 1        | Large Projector                 | -              | 3D Printout |
| 3D14  | 1        | Small lifeboat Male             | -              | 3D Printout |
| 3D15  | 1        | Small Lifeboat Female           | -              | 3D Printout |
| 3D16  | 3        | Large Lifeboat Projector Female | -              | 3D Printout |
| 3D17  | 3        | Large Lifeboat Projector Male   | -              | 3D Printout |
| 3D18  | 1        | Zodiac Wheel                    | -              | 3D Printout |
| 3D19  | 2        | Zodiac Motor                    | -              | 3D Printout |
| 3D20  | 2        | Winch Hydraulic Parts Down      | -              | 3D Printout |
| 3D21  | 2        | Winch Hydraulic Parts Up        | -              | 3D Printout |
| 3D22  | 1        | Main Winch Base Parts           | -              | 3D Printout |
| 3D23  | 1        | Secondary Winch Main Pulley     | -              | 3D Printout |
| 3D24  | 1        | Secondary Winch Pulley          | -              | 3D Printout |
| 3D25  | 1        | Secondary Winch Leg             | -              | 3D Printout |
| 3D26  | 1        | Zodiac Bollards                 | -              | 3D Printout |
| 3D27  | 1        | Long Air Conditioner            | -              | 3D Printout |
| 3D28  | 1        | Short Air Conditioner           | -              | 3D Printout |
| 3D29  | 1        | Small Ball Radar                | -              | 3D Printout |
| 3D30  | 1        | Large Ball Radar                | -              | 3D Printout |
| 3D31  | 1        | Small Radar                     | -              | 3D Printout |
| 3D32  | 1        | Small Radar Motor               | -              | 3D Printout |
| 3D33  | 1        | Large Radar                     | -              | 3D Printout |
| 3D34  | 1        | Large Single Bollards           | -              | 3D Printout |
| 3D35  | 1        | Small Single Bollards           | -              | 3D Printout |
| 3D36  | 2        | Anchor House                    | -              | 3D Printout |
| 3D37  | 2        | Anchor Hanger                   | -              | 3D Printout |
| 3D38  | 2        | Anchor                          | -              | 3D Printout |
| 3D39  | 1        | Propeller center                | -              | 3D Printout |
| 3D40  | 4        | Propeller parts                 | -              | 3D Printout |
| 3D41  | 1        | Propeller Male                  | -              | 3D Printout |
| 3D42  | 2        | Double Nose Bollards            | -              | 3D Printout |
| 3D43  | 1        | Rudder                          | -              | 3D Printout |
| 3D44  | 1        | Main Winch Pulley               | -              | 3D Printout |
| 3D45  | 1        | Pin                             | -              | 3D Printout |
| 3D46  | 1        | Pipe-1                          | 5x17           | 3D Printout |



## WESTRA PART LIST

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| NO         | QUANTITY | DESCRIPTION                       | SIZE   | TYPE        |
|------------|----------|-----------------------------------|--------|-------------|
| 3D47       | 1        | Pipe-2                            | 5x34   | 3D Printout |
| 3D48       | 2        | Pipe-3                            | 5x32   | 3D Printout |
| 3D49       | 1        | Pipe-4                            | 5x22   | 3D Printout |
| 3D50       | 2        | Zodiac Side Parts                 | -      | 3D Printout |
| 3D51       | 1        | Rudder House                      | -      | 3D Printout |
| 3D52       | 1        | Large Furuno House                | -      | 3D Printout |
| 3D53       | 1        | Small Furuno House                | -      | 3D Printout |
| R1         | 20       | Clear Led                         | -      | Ready       |
| R2         | 1        | Red Led                           | -      | Ready       |
| R3         | 1        | Green Led                         | -      | Ready       |
| R4         | -        | Copper Wire                       | 4 m    | Ready       |
| R5         | 2        | Jack                              | -      | Ready       |
| R6         | -        | Chain                             | 500 mm | Ready       |
| R7         | -        | Black Yarn                        | 2 m    | Ready       |
| P1         | 4        | Captain Cabin Windows             | -      | Plexi       |
| P2         | 4        | Captain Cabin Windows             | -      | Plexi       |
| P3         | 2        | Back Down Room Glasses            | -      | Plexi       |
| P4         | 5        | Captain Cabin Front Rectangle     | -      | Plexi       |
| P5         | 3        | Large Porthole Glass              | -      | Plexi       |
| P6         | 14       | Middel Cabin Small Porthole Glass | -      | Plexi       |
| P7...9     | 3        | Large Radar Leg Parts             | -      | Plexi       |
| P10-11     | 4        | Step Parts                        | -      | Plexi       |
| P12        | 3        | Captain Cabin Porthole Glass      | -      | Plexi       |
| P12        | 13       | Middle Cabin Porthole             | -      | Plexi       |
| P12        | 19       | Main Porthole Glass               | -      | Plexi       |
| P13        | 37       | Handels                           | -      | Plexi       |
| P14...45   | 34       | Rails                             | -      | PVC         |
| P49...52   | 24       | Stairs Parts                      | -      | Plexi       |
| P53-54     | 3        | Up Radar Stairs                   | -      | Plexi       |
| P55-56     | 3        | Front Funnel Ladder               | -      | Plexi       |
| P57-58     | 3        | Middle Cabin Ladder               | -      | Plexi       |
| P59-60     | 3        | Captain Cabin Stairs              | -      | Plexi       |
| P61-62     | 3        | Main Post Stairs                  | -      | Plexi       |
| P63-64     | 3        | Funnel Rails                      | -      | Plexi       |
| P78...84   | 9        | Doors                             | -      | Plexi       |
| P85...89   | 6        | Large Radar Down Box              | -      | Plexi       |
| P90...94   | 12       | Air Conditioner Motor             | -      | Plexi       |
| P95-96     | 2        | Stairs Rails                      | -      | Plexi       |
| P97-98     | 4        | Projector Glass                   | -      | Plexi       |
| P99        | 1        | Antenna Parts                     | -      | Plexi       |
| P100-101   | 3        | Step Parts                        | -      | Plexi       |
| P102       | 2        | Led Supports                      | -      | Plexi       |
| P-103      | 1        | Antenna Parts                     | -      | Plexi       |
| P-104      | 2        | Step Parts                        | -      | Plexi       |
| P107-108   | 3        | Zodiac Parts                      | -      | Plexi       |
| P109...110 | 3        | Led Base                          | -      | Plexi       |
| P112       | 2        | Main Post Parts                   | -      | Plexi       |
| DC-1       | 1        | Flag                              | -      | Sticker     |
| DC-2       | 1        | Name Sticker                      | -      | Sticker     |
| DC-3       | 1        | Radar Sticker                     | -      | Sticker     |
| DC-4       | 1        | Radar Name Sticker                | -      | Sticker     |
| DC-5       | 1        | Body Sticker                      | -      | Sticker     |

- ❖ 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.