Red Sea

REEFER™ SYSTEMS



REFEER™



REFEER™ Deluxe

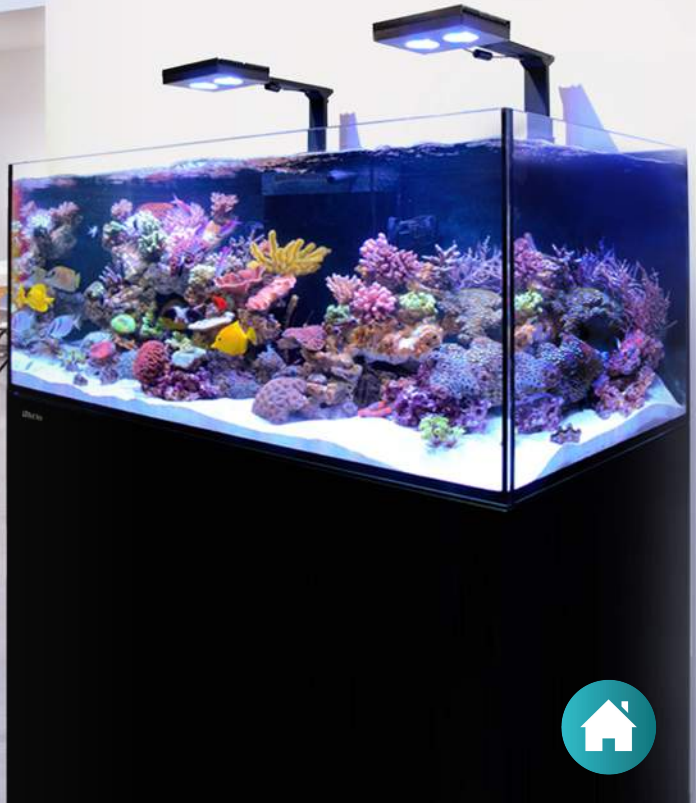


REFEER™ Peninsula

Red Sea

REEFER™ SYSTEM

- REEFER™ NANO
- REEFER™ 170
- REEFER™ 250
- REEFER™ 350
- REEFER™ XL 425
- REEFER™ 450
- REEFER™ XL 525
- REEFER™ XXL 625
- REEFER™ XXL 750



Red Sea

REEFER™ NANO/170

Operation Manual

Installation Manual

Cabinet Installation Guide



Red Sea

REEFER™ 250

Operation Manual

Installation Manual

Cabinet Installation Guide

Cabinet installation Guide V3



Red Sea

REEFER™ 350/XL425

Operation Manual

Installation Manual

Cabinet Installation Guide

Cabinet installation Guide V3 (350)

Cabinet installation Guide V3 (XL425)



Red Sea

REEFER™ 450/XL525

Operation Manual

Installation Manual

Cabinet Installation Guide

Cabinet installation Guide V3



Red Sea

REEFER™ XXL 625/750

Operation Manual

Installation Manual

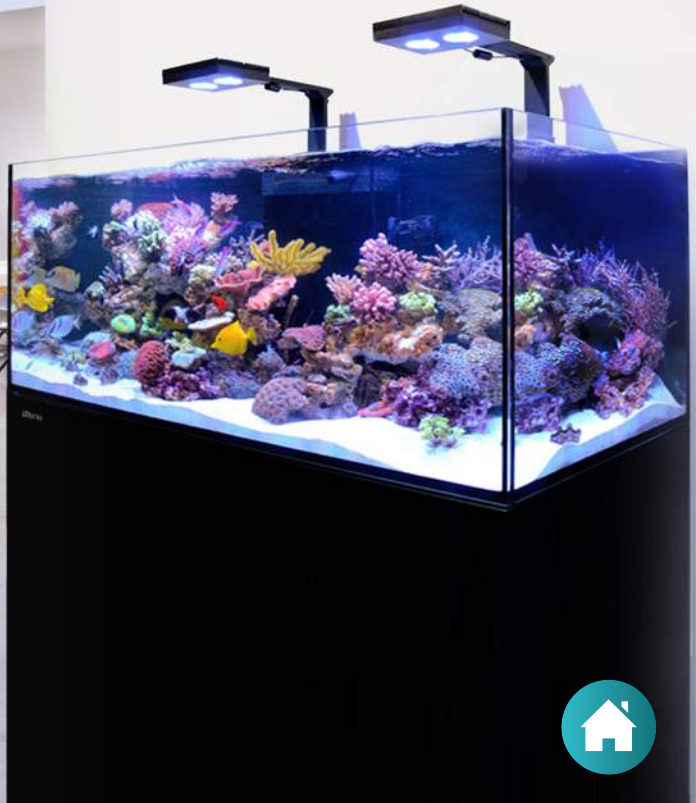
Assembly Manual



Red Sea

REEFER™ DELUXE

- REFEER™ 170 DLX
- REFEER™ 250 DLX
- REFEER™ 350 DLX
- REFEER™ XL 425 DLX
- REFEER™ 450 DLX
- REFEER™ XL 525 DLX
- REFEER™ XXL 625 DLX
- REFEER™ XXL 750 DLX



Red Sea

REEFER™ 170

Operation Manual

Installation Manual

Cabinet Installation Guide

LED Assembly Manual



Red Sea

REEFER™ DELUXE 250

Operation Manual

Installation Manual

Cabinet Installation Guide

LED Assembly Manual

Cabinet installation Guide V3



Red Sea

REEFER™ DELUXE 350/XL425



- Operation Manual
- Installation Manual
- Cabinet Installation Guide
- LED Assembly Manual
- Cabinet installation Guide V3 (350)
- Cabinet installation Guide V3 (XL425)

Red Sea

REEFER™ DELUXE 450/XL525

Operation Manual

Installation Manual

Cabinet Installation Guide

LED Assembly Manual

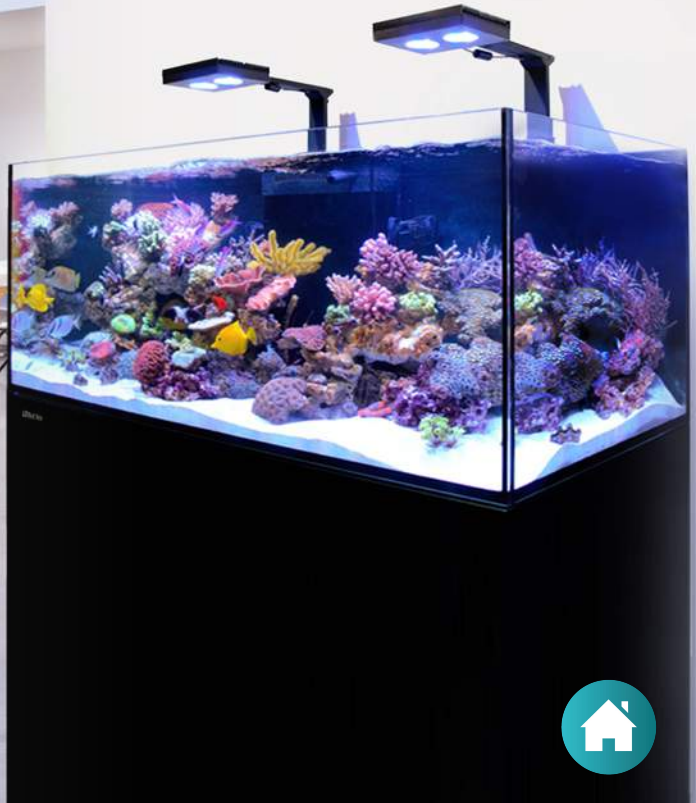
Cabinet installation Guide V3



Red Sea

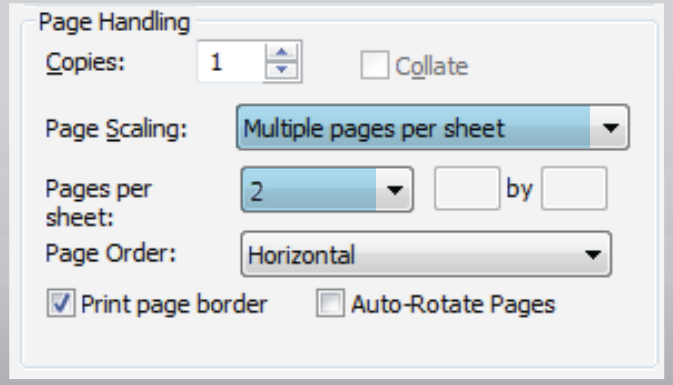
REEFER™ DELUXE XXL 625/750

- Operation Manual
- Installation Manual
- Assembly Manual
- LED Assembly Manual



PRINTING INSTRUCTIONS

To print **only** the Operational Manual, print pages 14-25.







Red Sea REEFER™ SERIES

Reef-Ready systems for advanced hobbyists

Operation Manual

Red Sea

ENG

Red Sea REEFER™ SERIES

Reef-Ready systems for advanced hobbyists

Operation Manual

Red Sea

REEFER™ Operation Manual

Safety 4
Location 5
Assembly 6
Overview of the REEFER™ water management system 8
Operation 9
Maintenance 10

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Congratulations on your purchase of the Red Sea REEFER™ reef system.

Red Sea's REEFER™ Systems provide advanced hobbyists with a solid foundation for building a fully featured reef or marine aquarium. The REEFER™ Series combines a contemporary, rimless, ultra-clear glass aquarium with a stylish cabinet and a comprehensive water management system, including a professional sump with integrated automatic top-up, and Red Sea's unique silent down-flow system.

Incorporating technologies originally developed for Red Sea's all-in-one MAX® coral reef systems, the REEFER™ series is designed for ease of operation while enabling hobbyists to install an unlimited choice of lighting, filtration, circulation and controllers to create a uniquely customized system.

This manual complements the graphic assembly manuals and contains installation and operational instructions for all of the REEFER™ series aquariums.

We hope that you enjoy your REEFER™ and your reef.

To benefit from product update information and exclusive special offers to registered REEFER™ owners, please register your REEFER™ on-line at redseafish.com

1 Safety

Please read and follow all safety instructions.

DANGER: To avoid possible electric shock, special care should be taken when handling a wet aquarium. For each of the following situations, do not attempt repairs yourself; return the appliance to an authorized service facility for service or discard the appliance.

WARNING: To guard against injury, basic safety precautions should be observed, including the following:

Do not operate any appliance if it has a damaged cord or plug, if it is malfunctioning, or if it is dropped or damaged in any manner.

If the external cable Is damaged, It shall be replaced by the manufacturer.

To avoid the possibility of the appliance plug or receptacle getting wet, position the aquarium stand and tank to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. You should create a “drip loop” (see Figure 1) for each cord connecting an aquarium appliance to a receptacle. The “drip loop” is that part of the cord below the level of the receptacle, or the connector. Use an extension cord, if necessary, to prevent water traveling along the cord and coming into contact with the receptacle. If the plug or receptacle does get wet, DO NOT unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug the device and examine for presence of water in the receptacle.

Close supervision is necessary when any appliance is used by or near children.

To avoid injury, do not contact moving parts.

Always unplug an appliance from an outlet when not in use, before putting on or taking off parts, and before cleaning. Never pull the cord itself to remove the plug from the outlet. Grasp the plug and pull to disconnect.

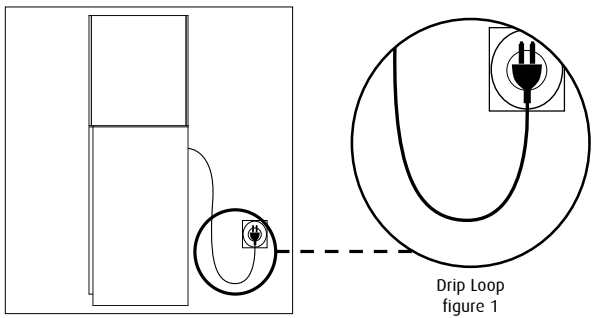
Do not use an appliance for anything other than its intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.

Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing point.

Make sure an appliance mounted on a tank is securely installed before operating it.

Read and observe all the important notices on the appliance.

NOTE: A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it cannot be tripped over or pulled accidental.



Drip Loop
figure 1

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2 Location

The first step in setting up the REEFER™ is to choose a suitable location.

Weight

The flooring directly below the system must be rated to support the following weight:

Approximate total weight of system including water					
Model	Nano	170	250	350	450
Weight	180kg / 400lb	270kg / 595lb	375kg / 830lb	530kg / 1170lb	680kg / 1500lb

Room temperature

Site selection is important for correct temperature maintenance. We recommended that you keep the ambient room temperature a comfortable and stable 22°C / 72°F. Avoid placing the tank in front of an air conditioner, heating vents or direct sunlight. A well ventilated room with moderate light is the best place to position the aquarium.

Accessibility

Ensure that there is at least 10cm / 4" of clearance behind the REEFER™ to allow easy access for installing/removing cables from the sump as well as sufficient air circulation for a chiller (larger models only). It is recommended to leave approximately 60cm/24" between one of the sides of the aquarium and any adjacent walls or furniture for access to the rear of the tank.

General considerations

Ensure that the area surrounding the aquarium is waterproof and consider moving away anything that water might damage or may be corroded by the salt.

NOTE: The REEEFER™ system should not be moved when full of water.

3 Assembly

The following information complements the graphic manuals.

> **WARNING**: If you are not experienced in the construction of self-assembly furniture or the installation of aquarium systems, seek suitably qualified assistance.

The REEFER™ includes the following main components:

- Glass aquarium
- Cabinet (self-assembly)
- Glass Sump including Bubble trap sponge, 400 micron filter bags and Float valve for automatic top-up
- Internal Piping kit with outlet nozzle
- Top-up reservoir

Detailed instructions for the complete assembly of the REEFER™ can be found in the accompanying graphic manuals.

Complete the assembly of the cabinet including the doors as shown in the graphic assembly manual and place in the final operating position (see location above).

> **NOTE**: It is important to assemble the REEFER™ in the order indicated.

> **WARNING**: Read before lifting the glass aquarium onto the cabinet.

The top of the cabinet is approximately 86cm/34" from the floor.
The table shows the approximate weights of the different models of the REEFER™ aquarium glass.

Approximate total weight of system including water					
Model	Nano	170	250	350	450
Weight	25kg / 55lb	33kg / 72lb	52kg / 115lb	64kg / 140lb	100kg / 220lb

Ensure that you have the correct number of people to lift the aquarium according to its weight and size.

Ensure that anyone lifting the aquarium is physically suitable for such an operation and has been instructed in the correct methods of lifting heavy objects.

Once the aquarium is correctly aligned with the cabinet, check that the cabinet has not moved. If necessary readjust the position of the cabinet.

> **NOTE**: The REEFER™ aquarium system should not be moved when full of water.

Before placing the glass sump in the cabinet make sure that the cabinet doors are correctly aligned (see instructions in the cabinet assembly manual). **Once the sump is in position it will not be possible to make adjustments to the lower hinge without moving the sump**.
With the doors properly aligned, rotate the front section of the push opener to the correct extension so that the doors will pop open when pushed.

Overflow box pipes: Make sure that that the O-rings are in position on the threaded connectors before assembly. To ensure correct assembly, firmly hold the threaded connectors from inside the cabinet and tighten well by hand. Do not use tools. Avoid unscrewing the pipes from the overflow box once assembled as the locking mechanism that prevents counter-rotation will be less effective.

Sump pipes: Make sure that that the O-rings are in position on the connectors before assembly. After assembly check that the pipes are vertical and the securing nut is holding the pipe in position. Do not use tools and do not overtighten.

Overflow Box Cover: The overflow box cover reduces noise from the water fall of the surface skimmer. If you wish to use the rear wall of the overflow box for mounting equipment such as lighting, break out the section of the cover as shown in the graphic manual. After breaking out the removable section, smooth the remaining edge with a file or sandpaper.

4 Overview of the REEFER™ water management system

Surface Skimmer / Overflow Box

Surface water from the aquarium flows via the removable comb sections of the surface skimmer into the overflow box that houses the dual intakes of the silent-flow downpipe system and the outlet nozzle of the sump return pump. The silent-flow downpipe system includes a flow-regulated main downpipe and a secondary overflow bypass pipe. An external pipe with a clear upper section is placed over the main downpipe to ensure positive water motion throughout the entire height of the overflow box.

The fine adjustment flow valve on the main downpipe enables the water level in the overflow box to be maintained at a constant height between the intakes of the main and bypass pipes, which ensures positive surface skimming while eliminating all noise from the water flow to the sump. An incorrect setting of the flow valve will be accompanied by the sound of the water returning to the sump and is an indication that the flow valve needs adjusting.

Sump /ATO

Water from the flow-regulated main downpipe and the secondary overflow bypass pipe enter a compact reception chamber in the sump. **Care should be taken in the choice of any filter media placed in the reception chamber as the turbulent flow conditions from the downpipe could cause a constant discharge of fine media particles.**

The water then flows through the 400 micron filter before entering the constant-height main reactor or skimmer chamber. If the filter bags are not cleaned frequently enough and become blocked, the water will bypass the filter bags without affecting the overall operation of the sump.

A bubble trap labyrinth with coarse foam separates the reactor chamber from the pump compartment to prevent bubbles from the skimmer being returned to the aquarium.

Any loss of water due to evaporation will cause a drop in the water level in the pump compartment of the sump which will be compensated by the ATO system.

Maintaining a constant water height in the pump compartment (with the ATO) is essential for the stability of the entire water management system by ensuring a constant head pressure on the intake of the main pump. The reservoir contains water for approximately 3 days of evaporation and should be kept topped up at all times.

Return Pump

The recommended flow rates for the return pumps are as shown in the table below. The use of higher rated pumps will result in a higher water level in the aquarium unless an appropriate modification is made to the surface skimmer combs.

Recommended flow rate for return pumps					
Model	Nano	170	250	350	450
Flow	2000lph /530gph	2000lph /530gph	2500lph /660gph	3000lph /790gph	4000lph /1060gph

ENG

5 Operation

Initial Fill

Check that all pipes are properly assembled and that any flexible tubes are suitably secured in position.

Install any equipment that will take up water volume in the sump before starting to fill the system.

Open the main flow valve (rotate anti-clockwise) to maximum.

Add approximately 15cm/6" of water to the overflow box to make sure that all the pipe joins are watertight. Check for leaks inside the cabinet.

Add water to the main tank and once it is full, monitor the water level in the sump as it begins to fill.

As soon as there is approximately 15cm/6" of water in the main pump compartment switch on the pump and stop adding water.

> **WARNING**: Overfilling the sump with equipment or water may cause a flood in the event of an interruption of electric power.

Switch on skimmers or other filters that will affect the water level in the sump and add more water as required to maintain the 15cm/6" of water in the main pump compartment.

Allow the system to run for a few minutes and adjust the flow valve (as described below) so that the water level in the overflow box is at the correct level.

Add/remove water to/from the system and adjust the flow valve until the water levels in the system stabilise.

Main downpipe valve adjustment

To raise the water level in the overflow box, rotate the valve clockwise.To lower the water level in the overflow box, rotate the valve anti-clockwise.

The main downpipe flow valve provides a very fine control of the flow rate however after making adjustments it takes the system a few minutes to stabilize at the new setting.

Once you have established the approximate setting for the valve make very small adjustments and wait for a few minutes each time. It may take a number of occasional adjustments to reach a stable level. When set properly this system removes all of the noise of water flowing down to the sump.

ATO

On initial set-up, wait until the saltwater system is stable before using the ATO. Ensure that the top-up flow valve is fully closed.

Fill the top-up reservoir with RO water. Disconnect the top-up flow valve from the float valve and slowly open the flow valve until the top-up water drips at a rate of approximately 1 drop per second. Reconnect the flow valve to the float valve.

Adjust the angle of the float so that the valve is closed when the water level is above the inlet of the pump but below the top of the bubble trap.

> **NOTE**: It is recommended to close the valve on the outlet of the reservoir whenever doing maintenance in the sump

Power-out test

After completing the initial set up and after adding any new equipment to the sump, make any adjustments necessary to the main valve to stabilise the system and perform a "power-out" test to check that water does not rise above the rim of the sump.

6 Maintenance

For continuous smooth operation of the water management system make regular checks of the following:

- Water level in the overflow box - adjust the flow valve as required
- Water level in the reservoir – top up with RO water as required
- Water level in the sump, check that the top-up float valve is operating correctly
- Micron Filter Bags – check that water is flowing through the bags and clean/replace as required
- Surface skimmer combs – remove any deposits that reduce water flow
- Pump outlet nozzle – check for blockages and build-up of algae

Micron Filter bags

It is recommended to have at least 3 sets of filter bags.

There are a few options for cleaning the filter bags:

Quick and effective – Spray the outside of the bags with a powerful water jet such as a garden hose to back-flush the detritus from the felt.

More thorough – soak the bags in bleach or diluted vinegar for 24 hours prior to spraying as above. Rinse well to remove all chemicals before returning to sump.

The filter bags can also be put in a cold wash in a washing machine with regular detergent or with vinegar (may require approval from a higher authority).

#5501 REEFER Series Operation Manual_Multilanguage v15A

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PRINTING INSTRUCTIONS

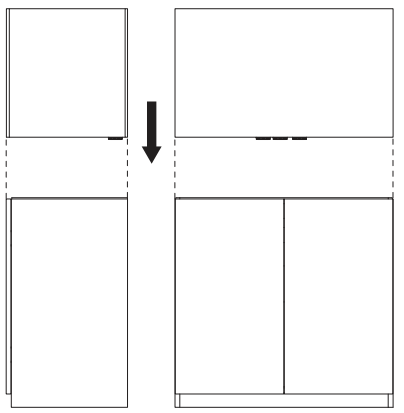
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Red Sea REEFER™

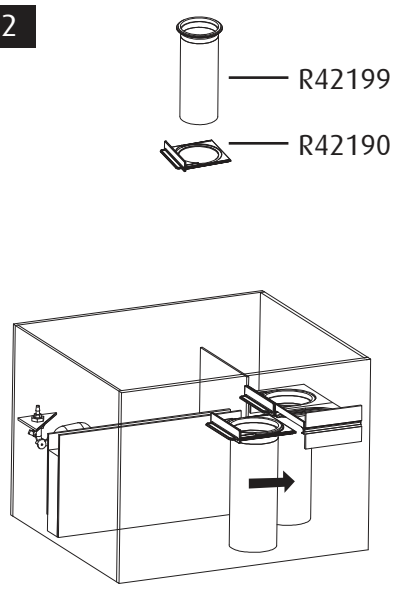
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Red Sea

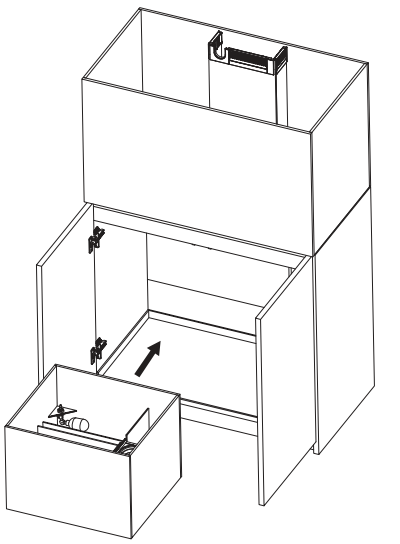
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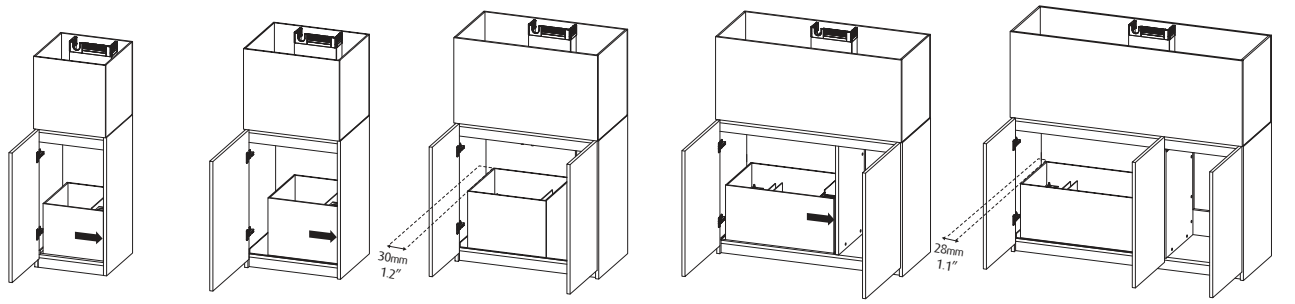
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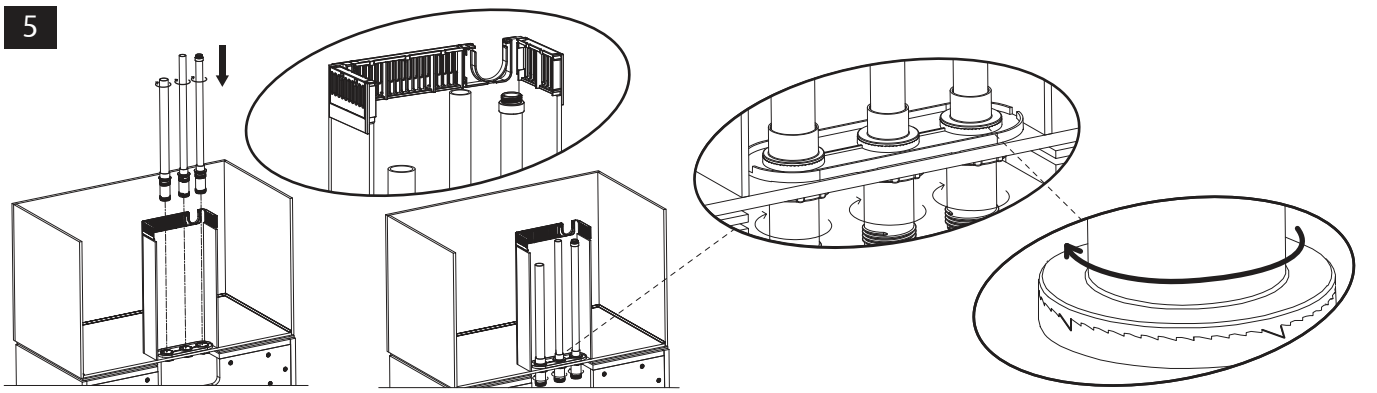


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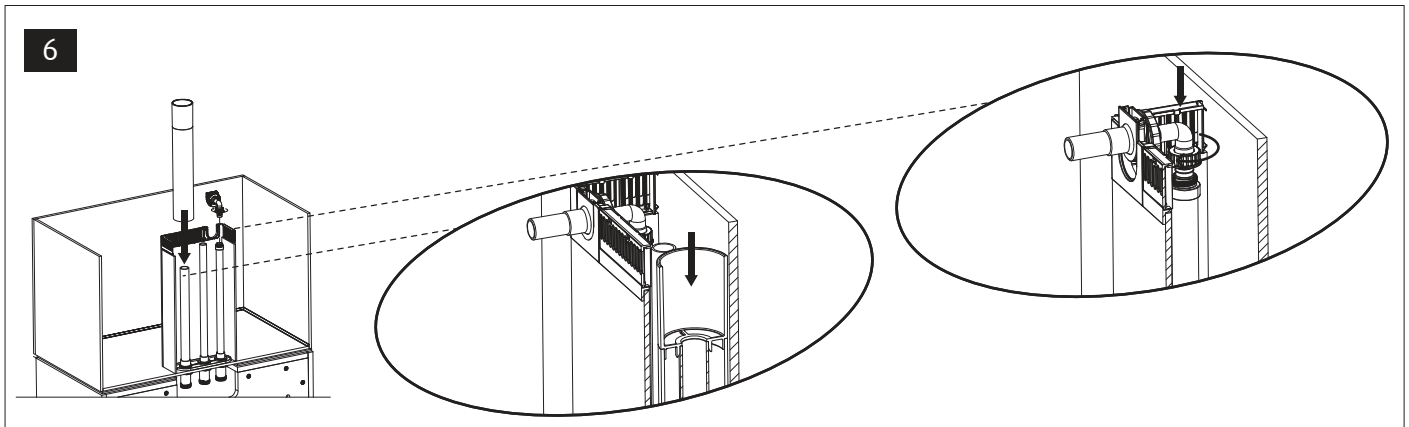


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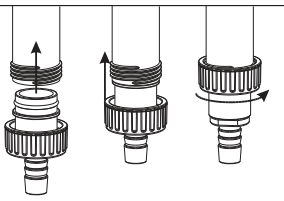
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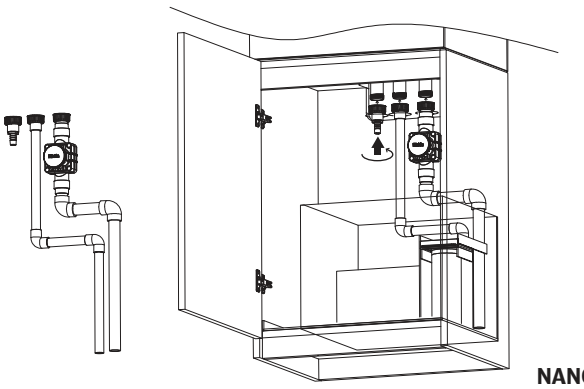


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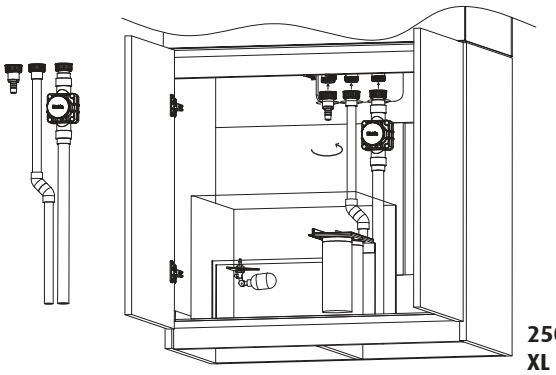


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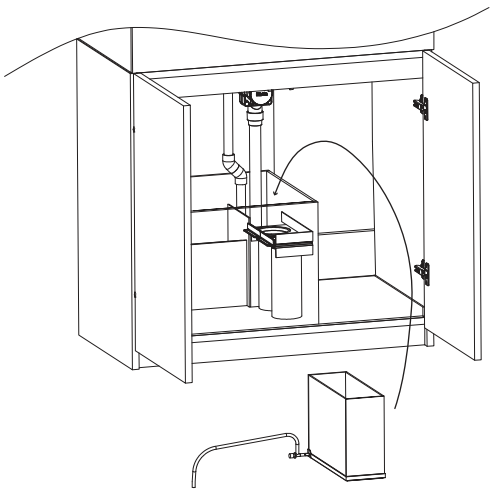


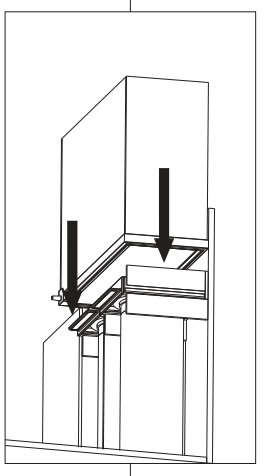
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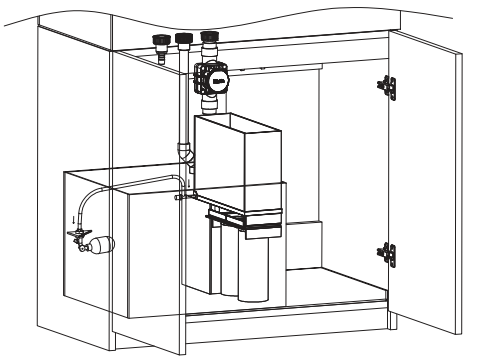
250/350/450
XL 425/XL 525

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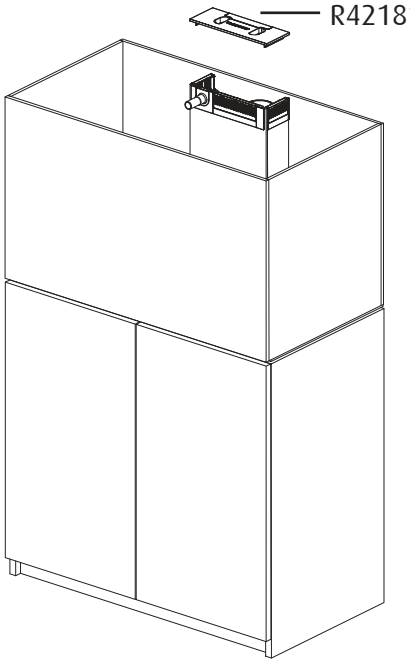


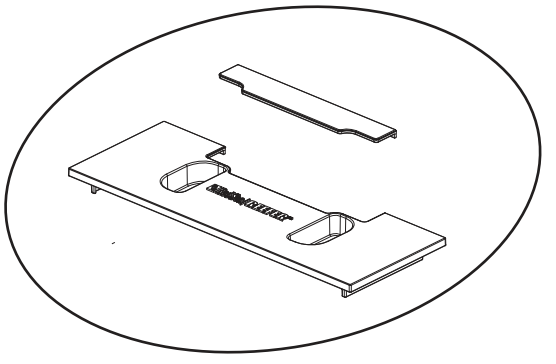


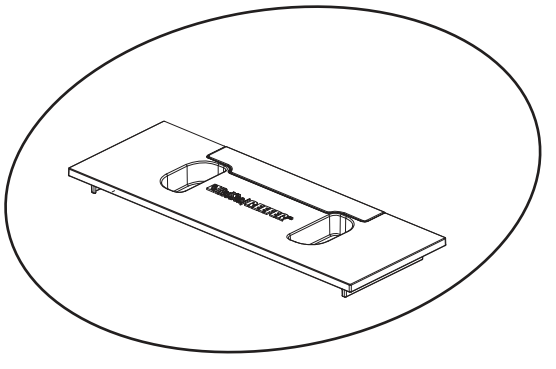
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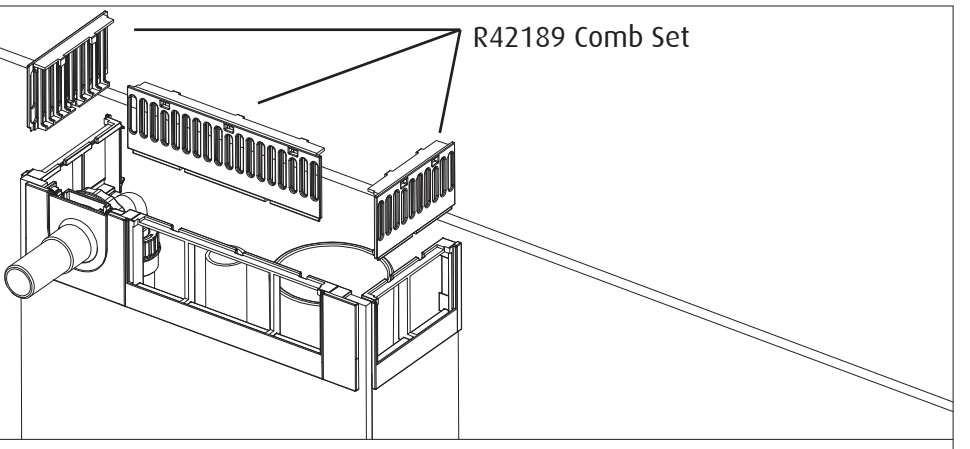




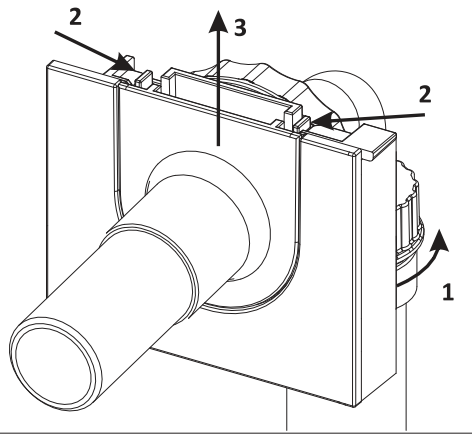


MAINTENANCE

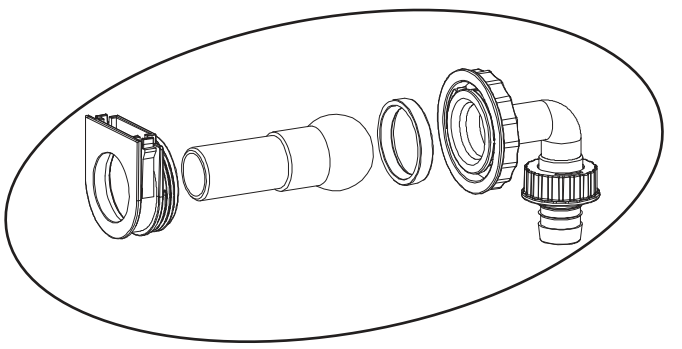
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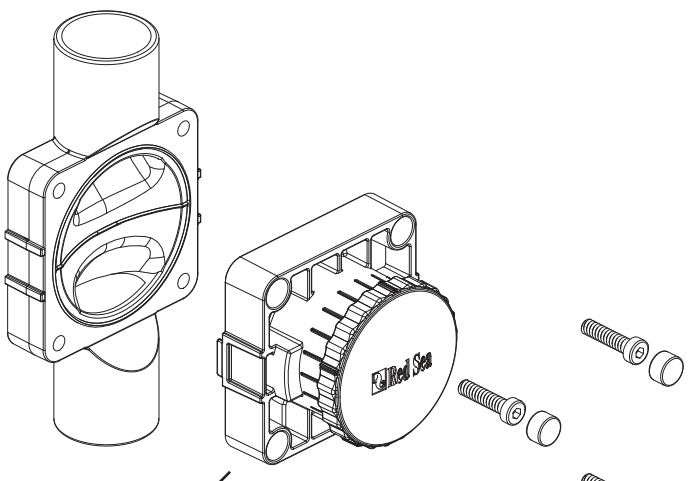
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R42188 Outlet Assembly



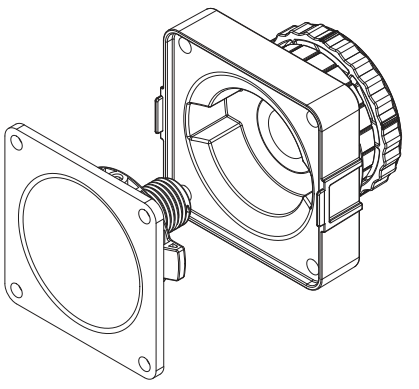
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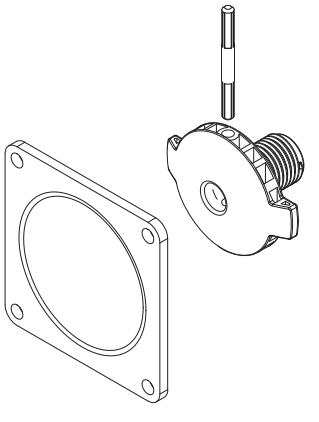
R40369
Valve

R40371
Screw Set

2



3



R40370
Diaphragm

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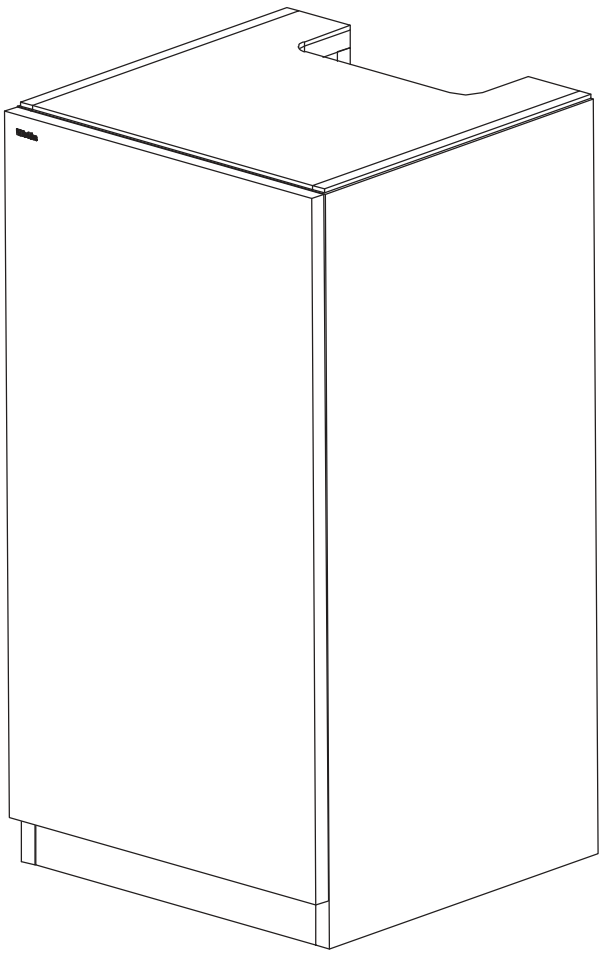
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PRINTING INSTRUCTIONS

To print **only** the Cabinet Installation Guide, print pages 30-33.

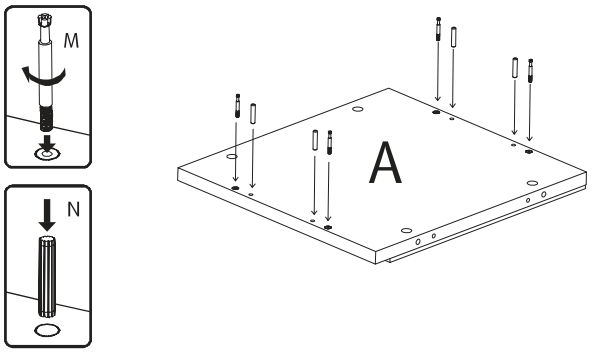
Red Sea REEFER™

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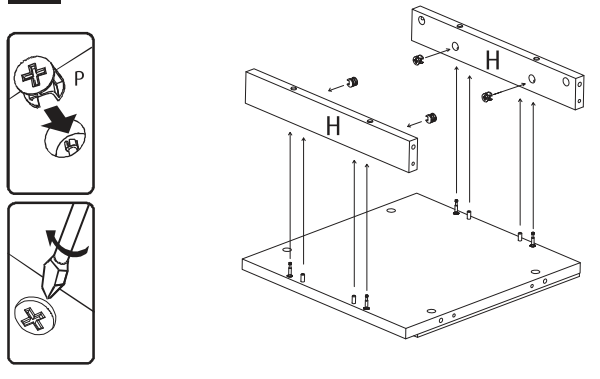


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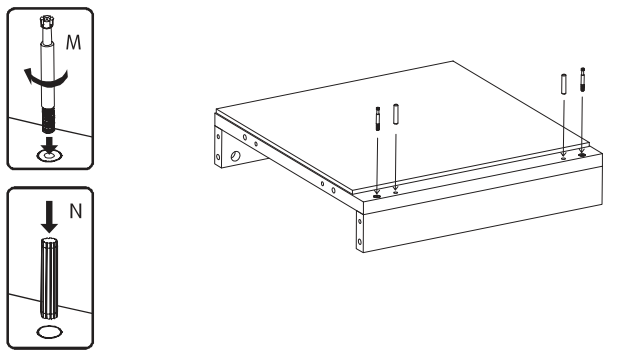
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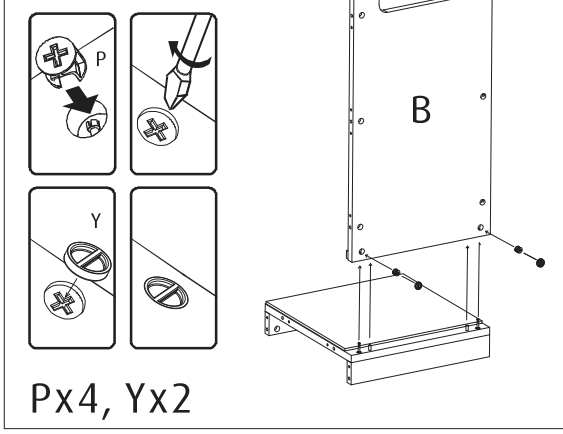
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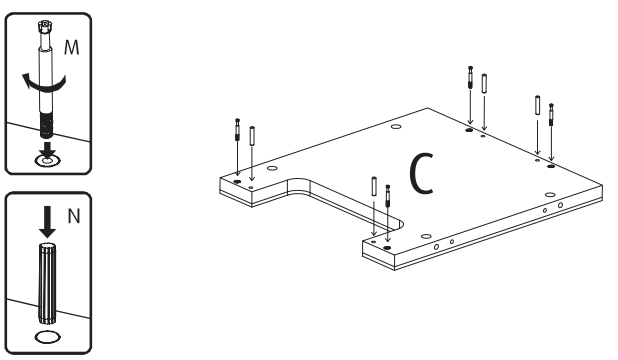
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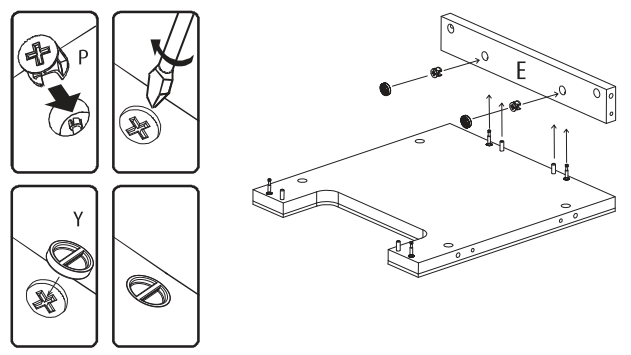
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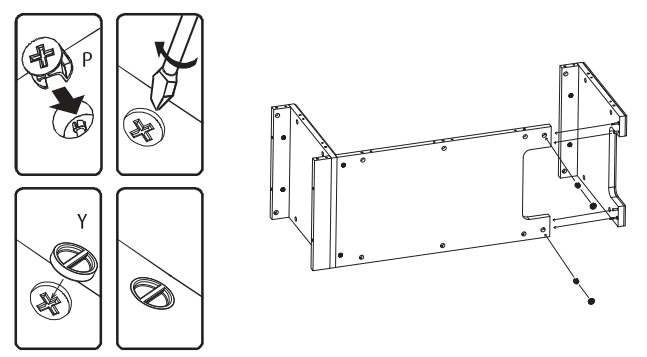
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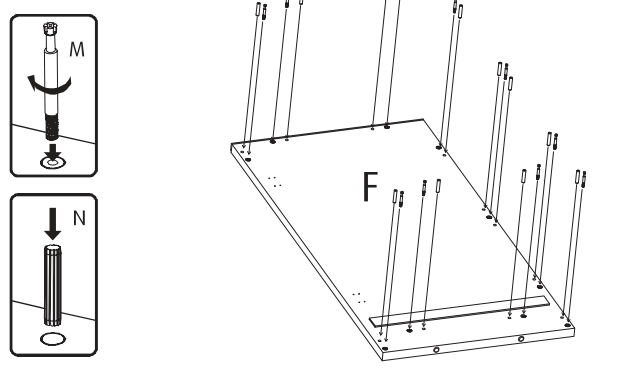
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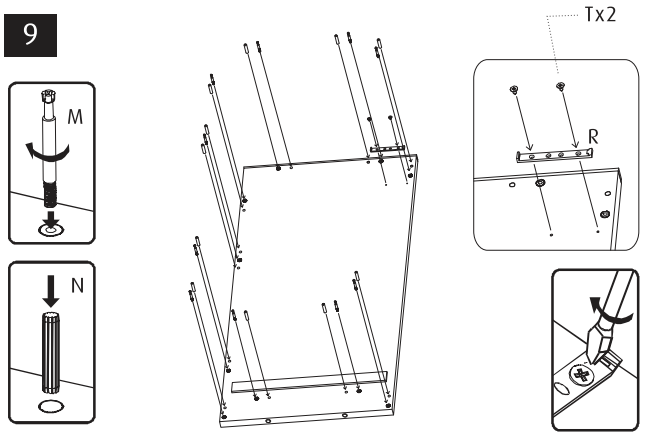
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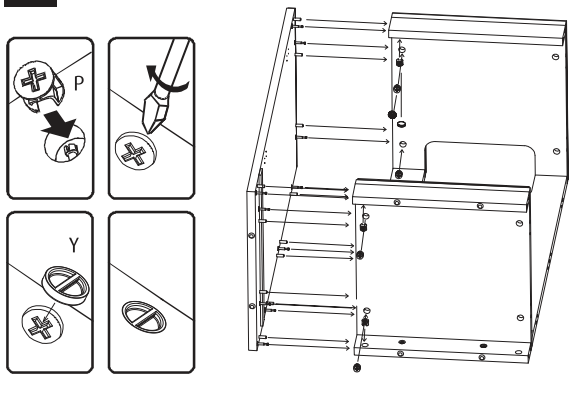
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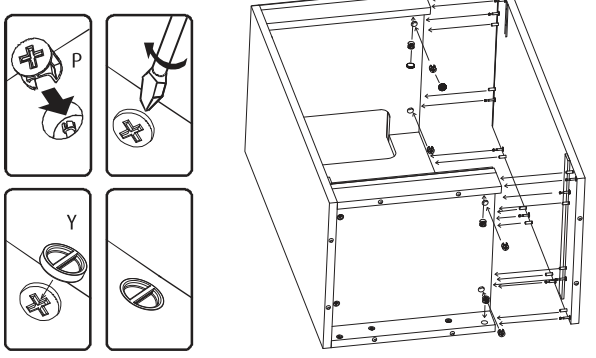


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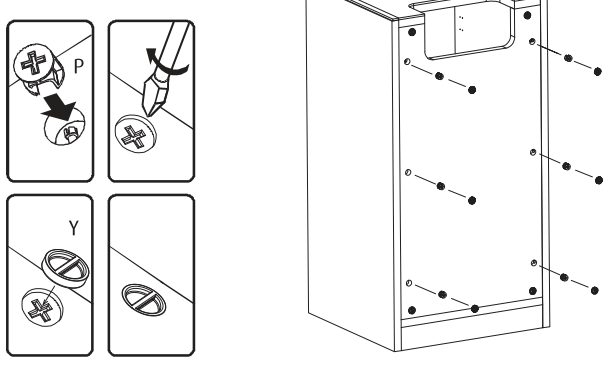
Px7, Yx3

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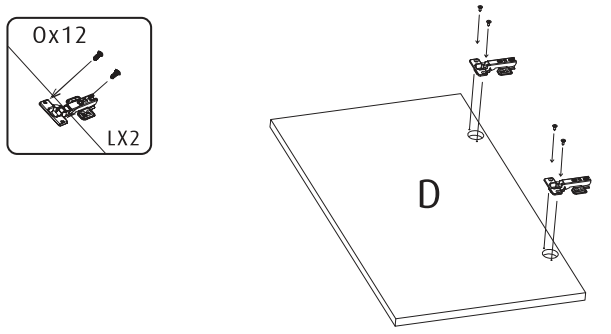
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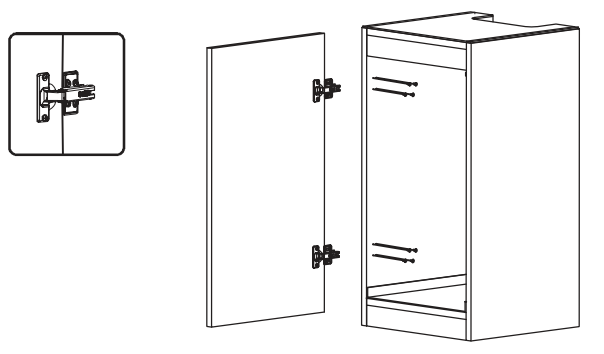


Px6, Yx6

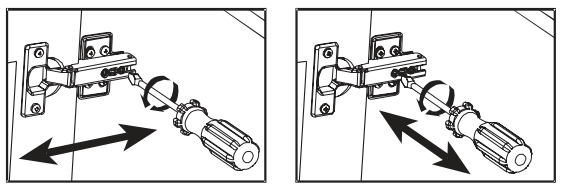
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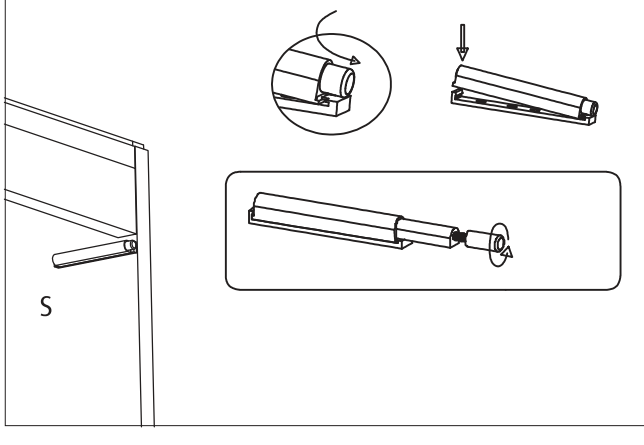
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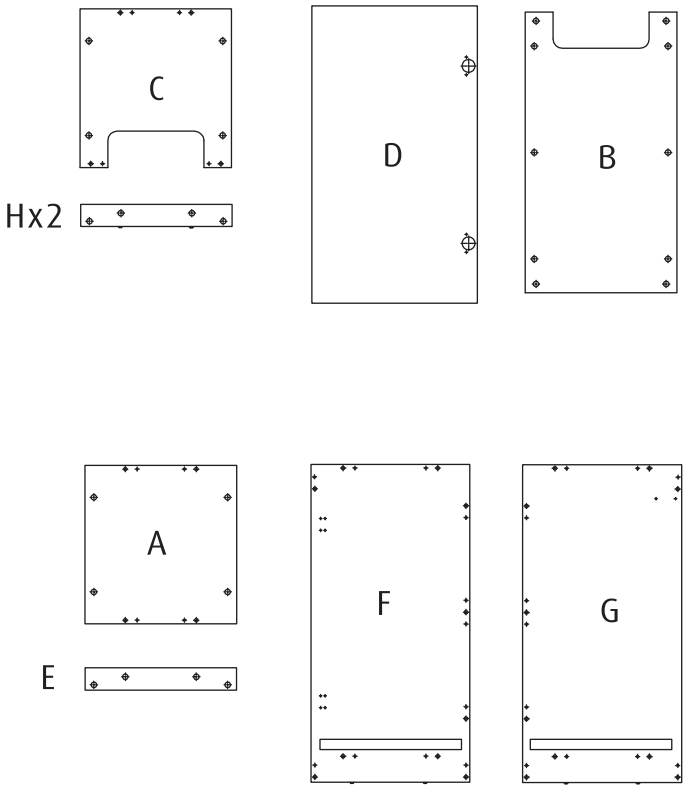


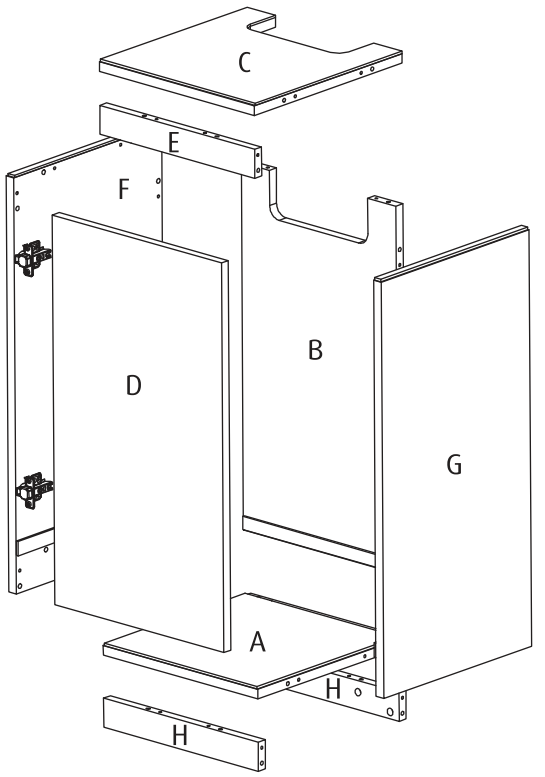
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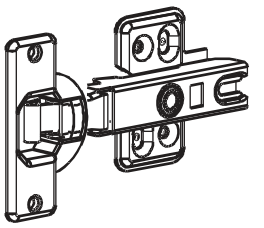
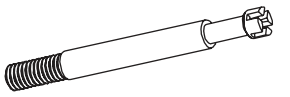
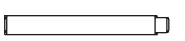


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L		x2
M		x30
N		x32
O	 ST3.9 x16	x12
P		x30
R		x1
S		x1
T	 ST3.5 x14	x2
Y		x18

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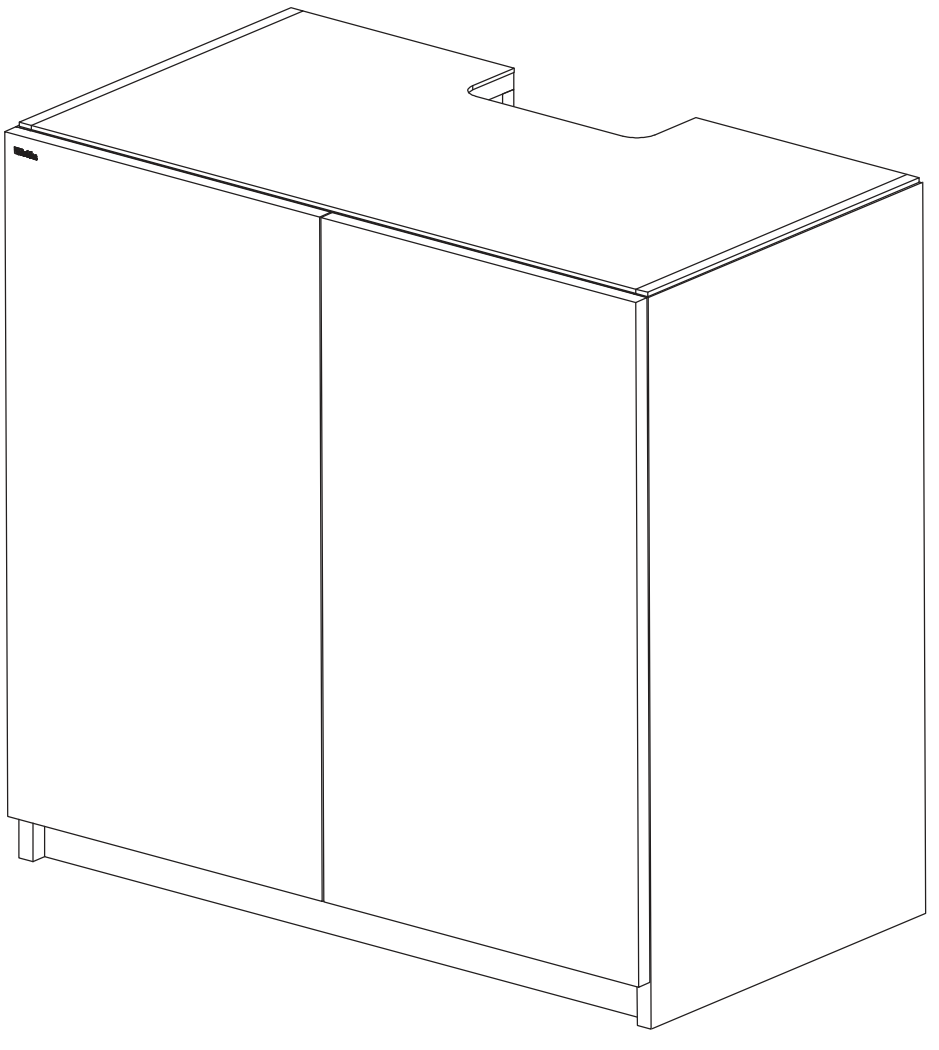
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PRINTING INSTRUCTIONS

To print **only** the Cabinet Installation Guide, print pages 34-37.

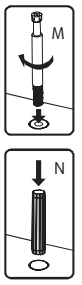
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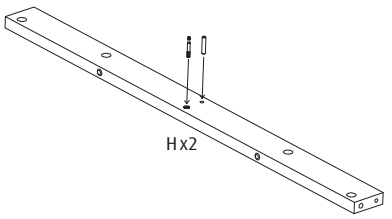
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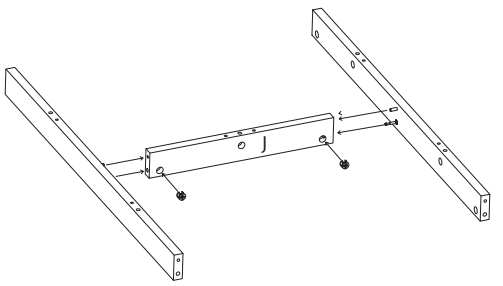




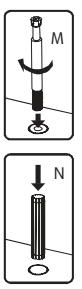
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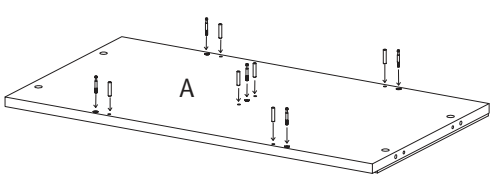


Px2



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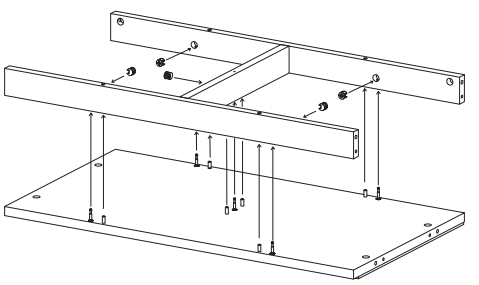




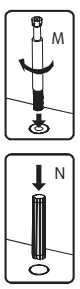
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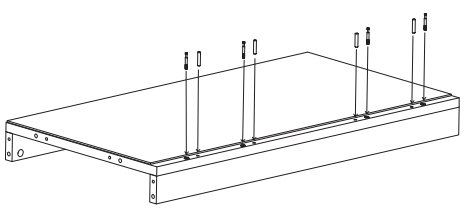


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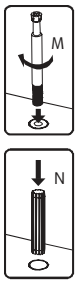


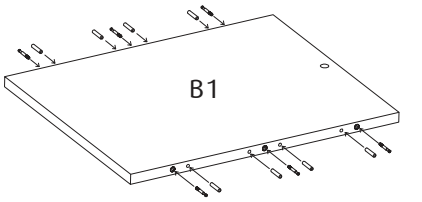
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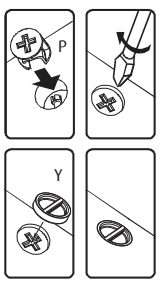


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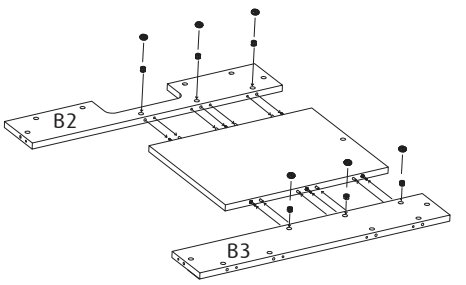




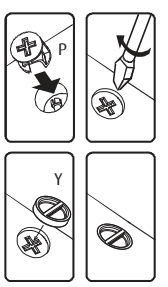
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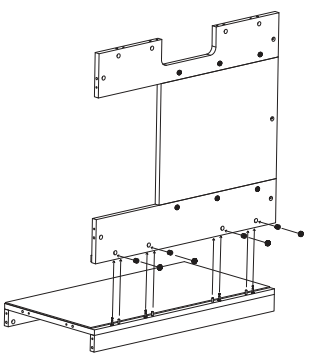
Px6, Yx6



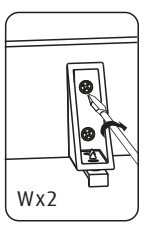
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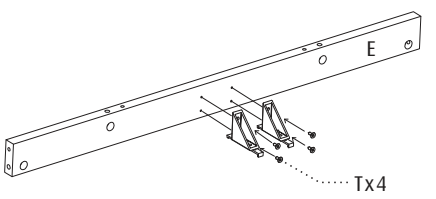


Px4, Yx4

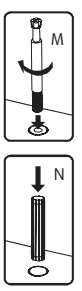


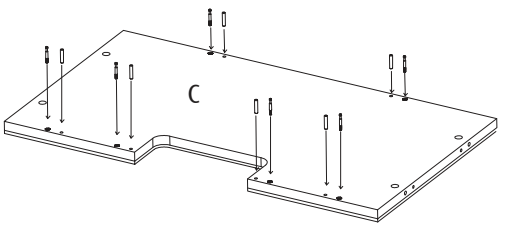
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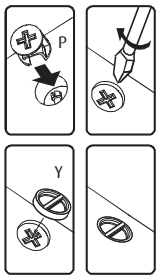


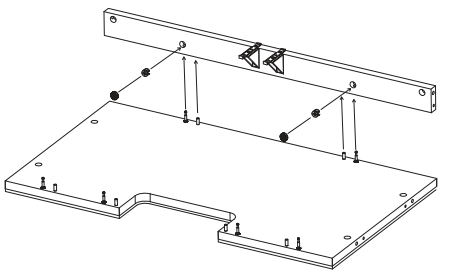
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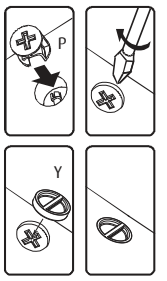
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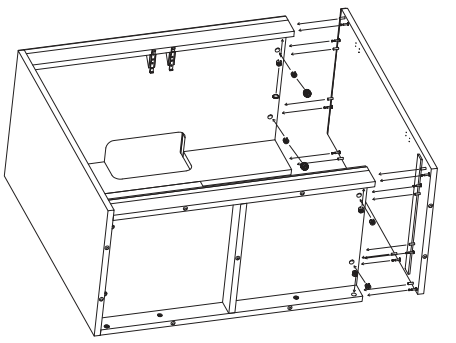




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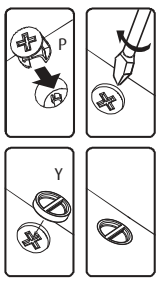
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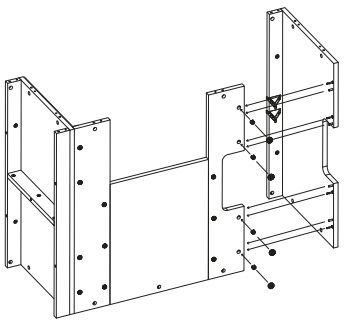




Px7, Yx3

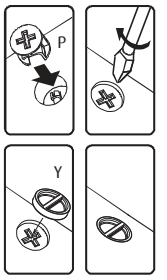
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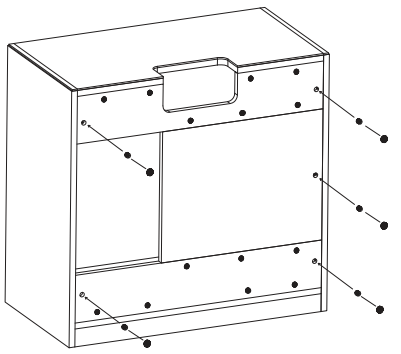




Px4, Yx4

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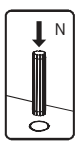


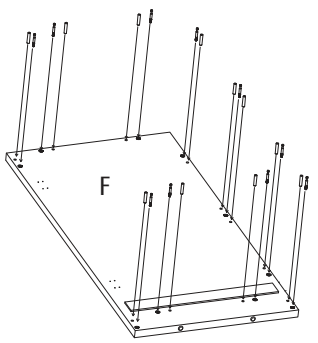


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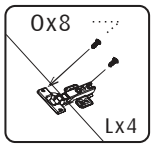
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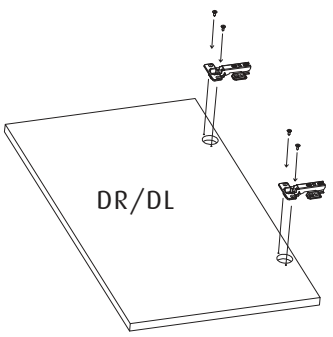






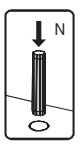
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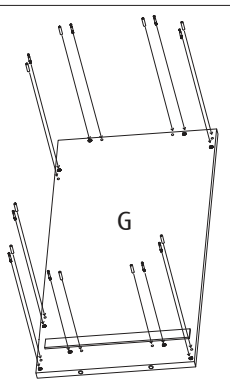




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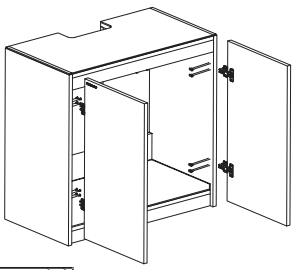


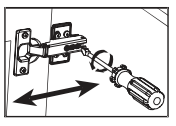


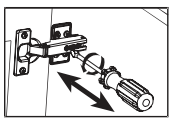


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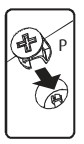




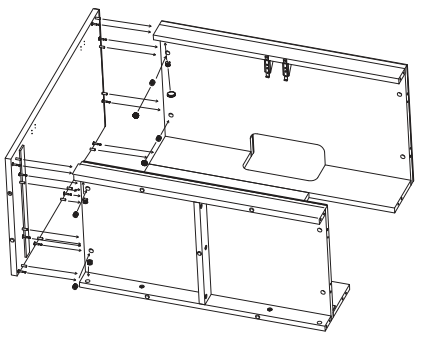




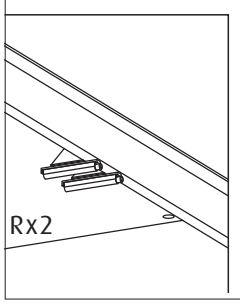
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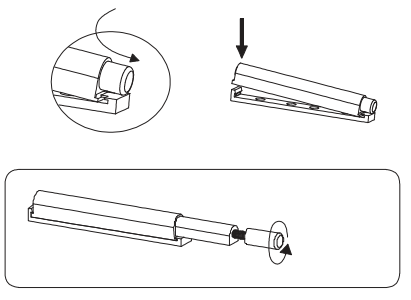


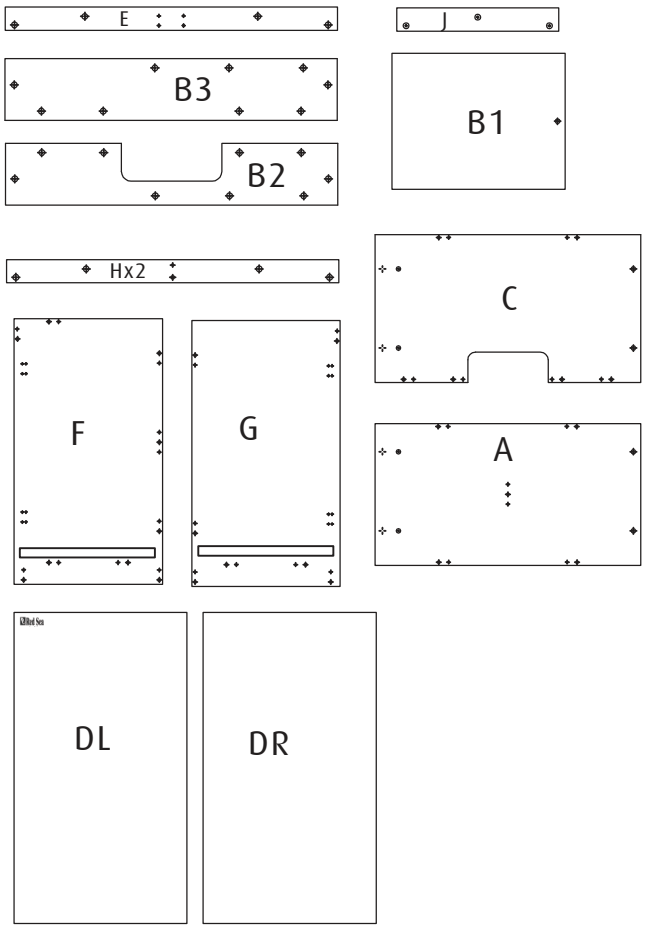
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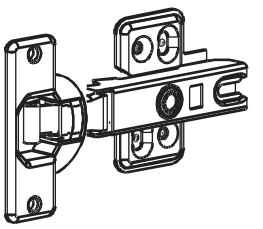
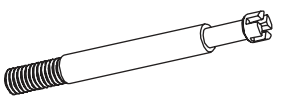
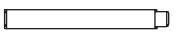
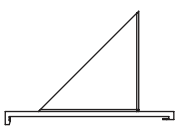


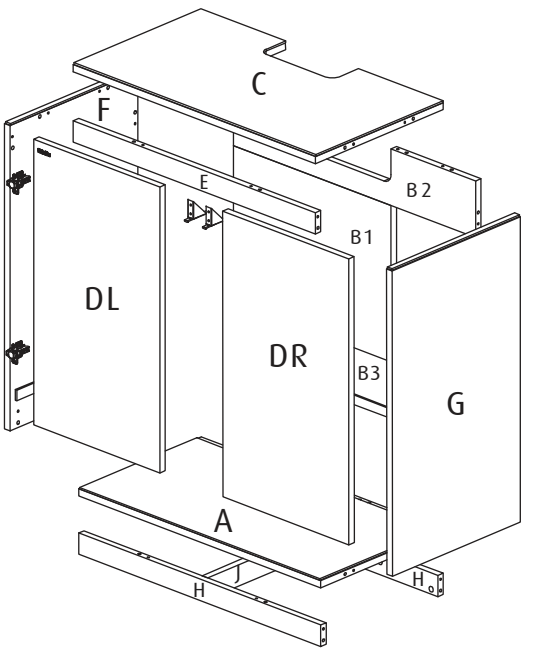
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L		x 4
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N		x 46
O	 ST3.9 x16	x 24
P		x 42
R		x 2
Y		x 27
T	 ST3.5 x14	x 4
W		x 2



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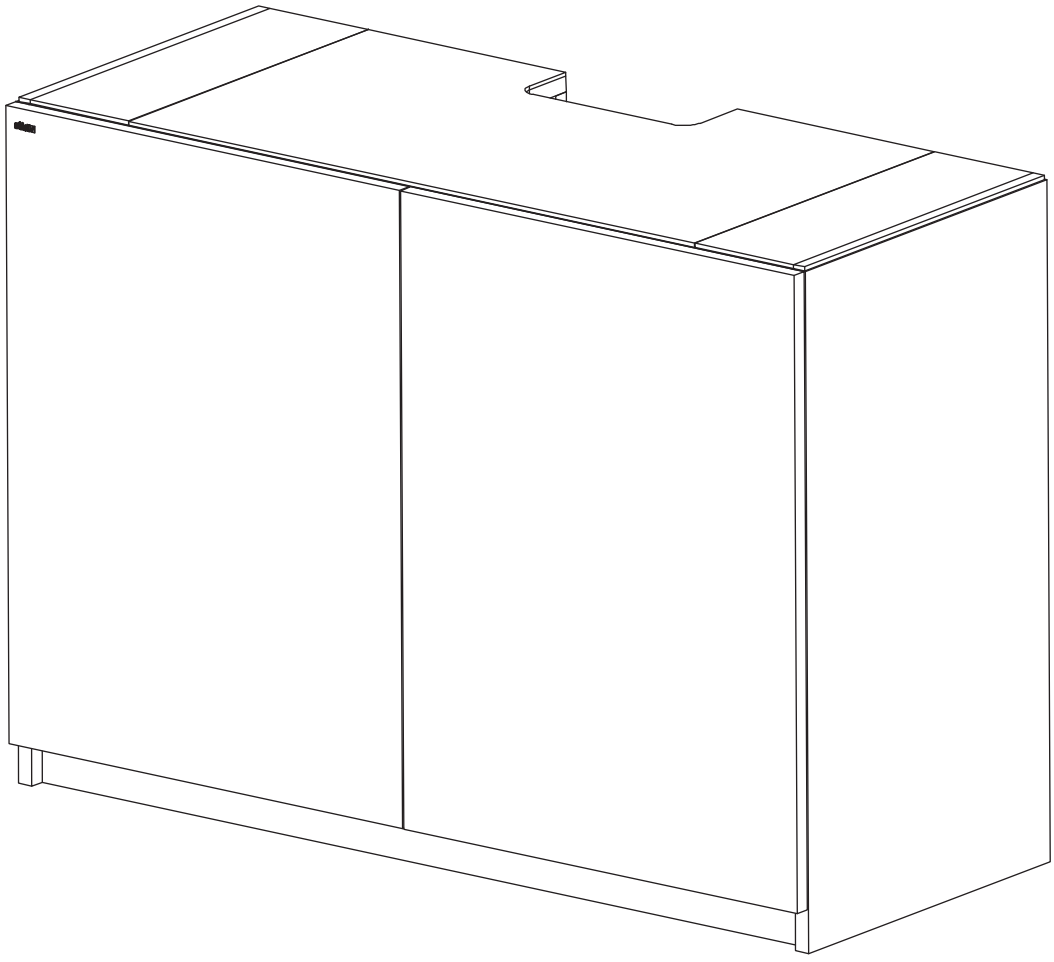
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PRINTING INSTRUCTIONS

To print **only** the Cabinet Installation Guide, print pages 38-41.

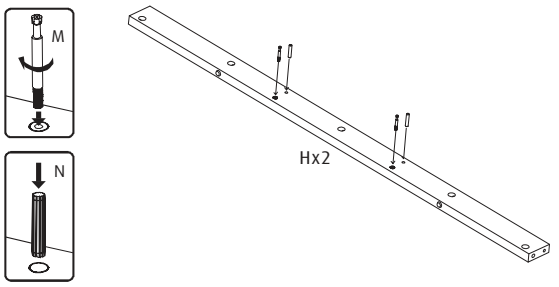
Red Sea REEFER™

350/XL 425

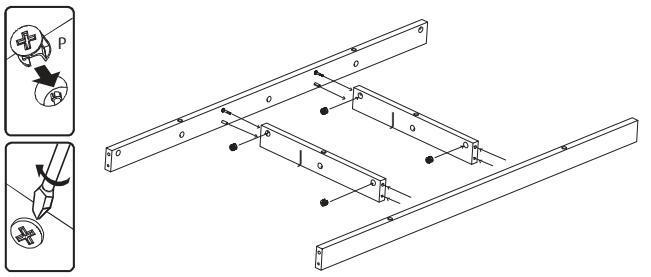


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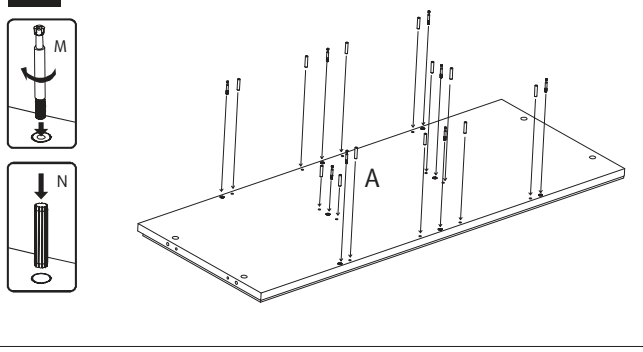
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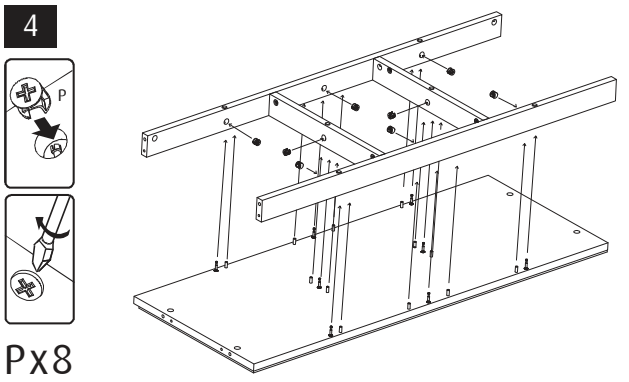
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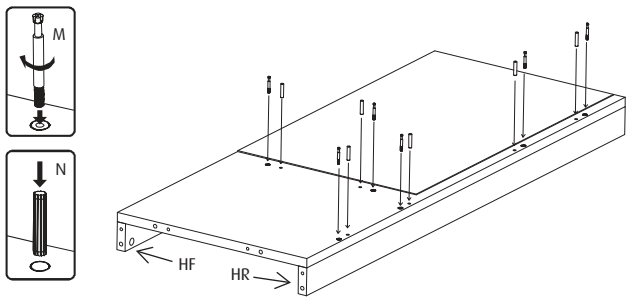
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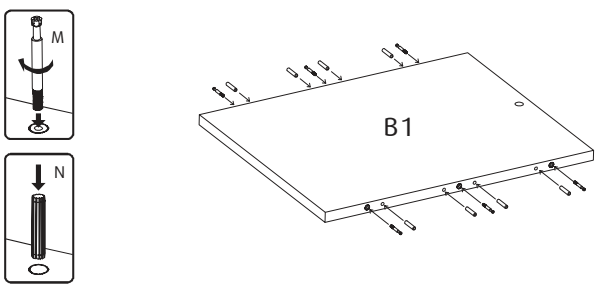
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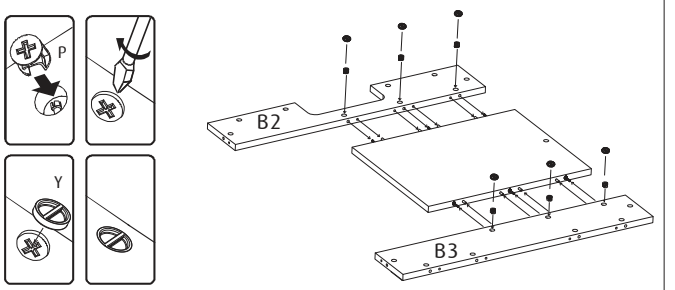
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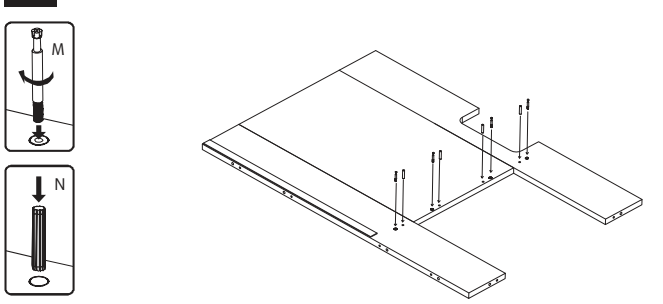
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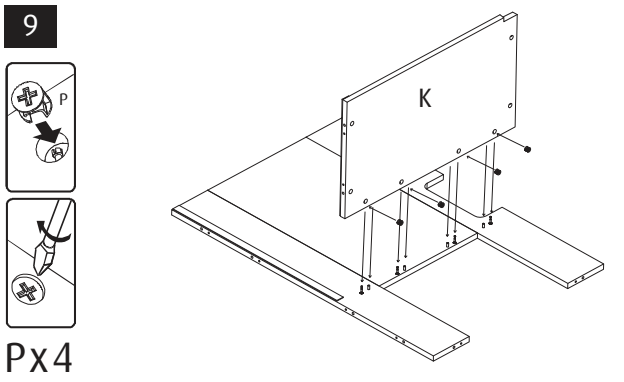
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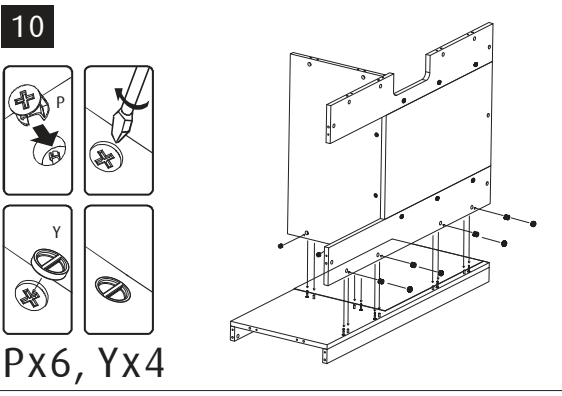
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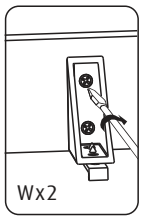
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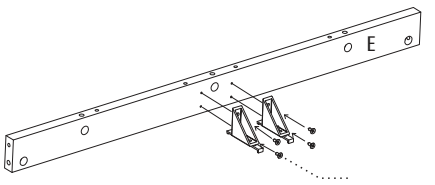


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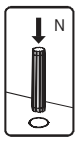
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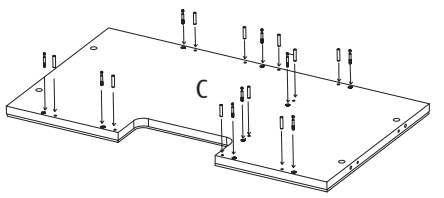




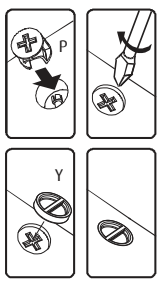
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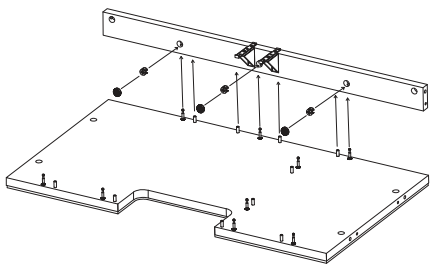




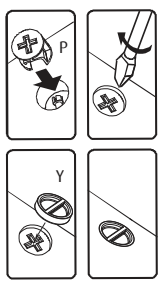
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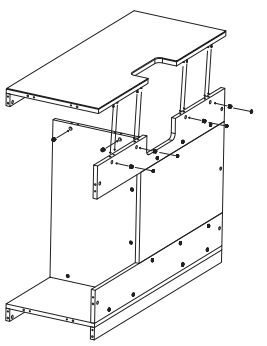
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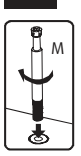
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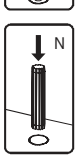


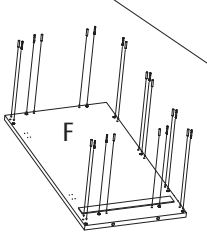
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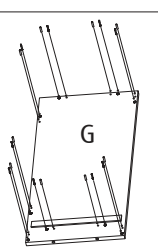


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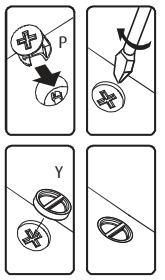




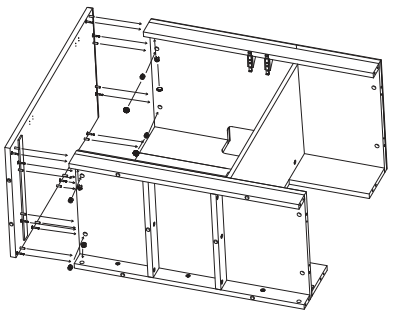




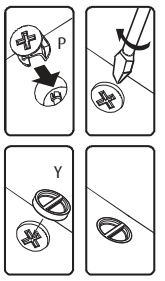
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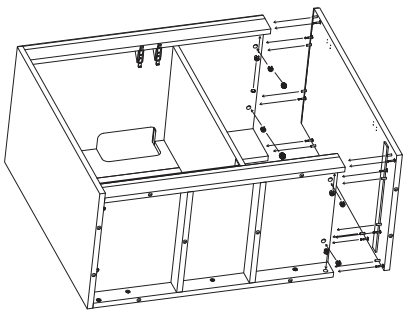
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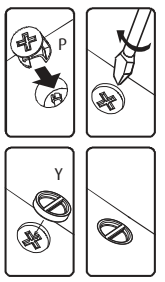
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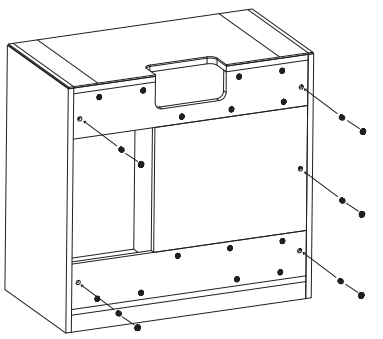
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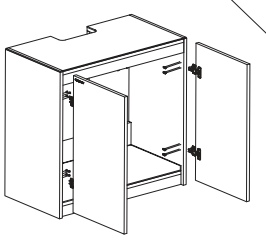
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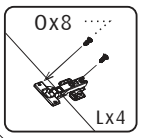


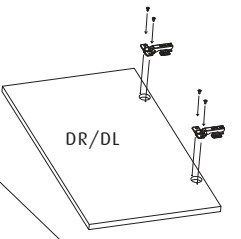
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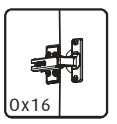


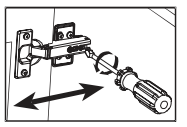
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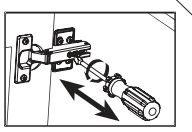




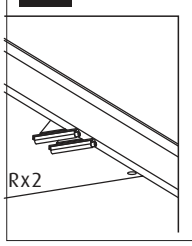


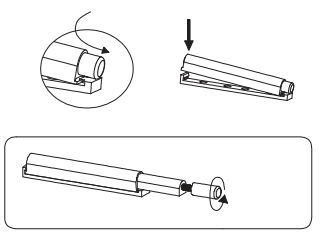


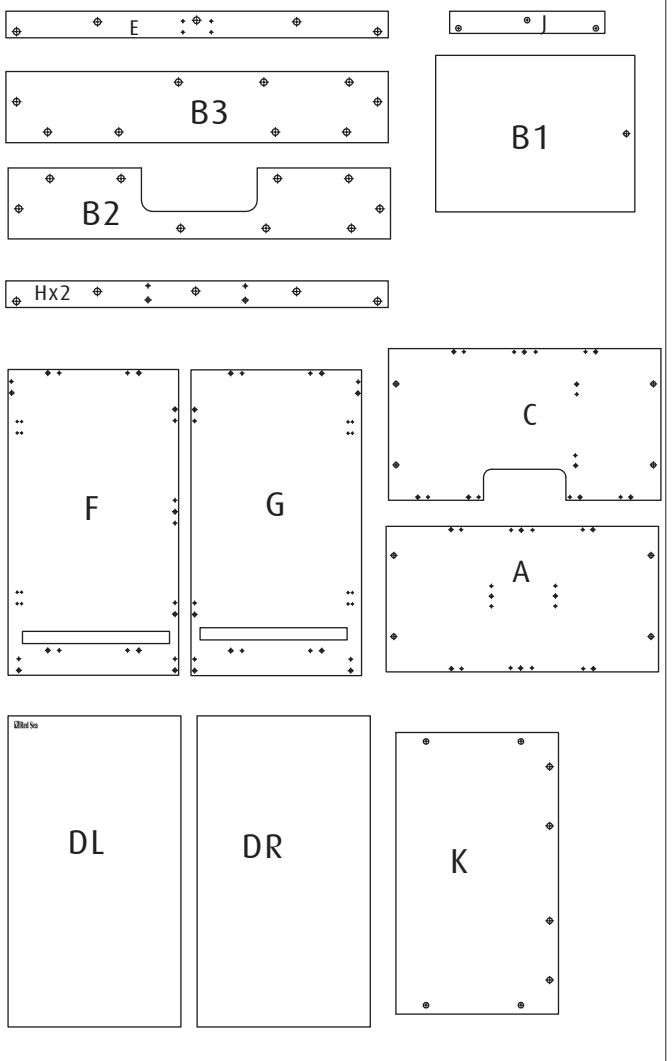


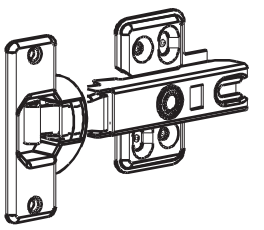
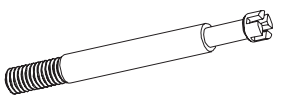
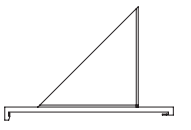


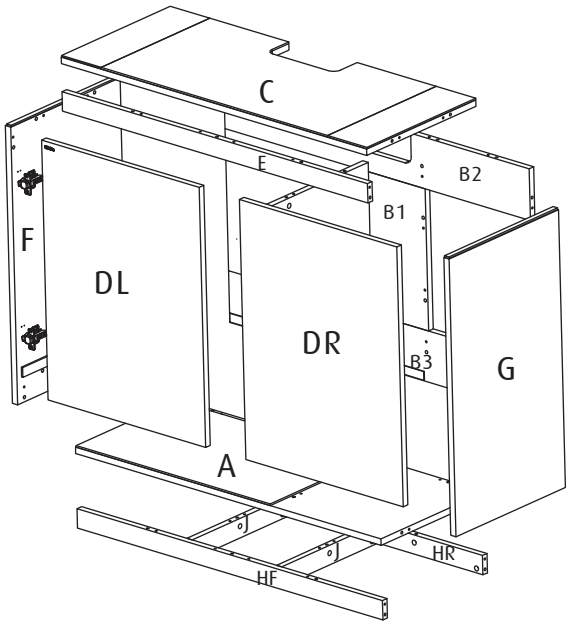
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N		x62
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W		x2



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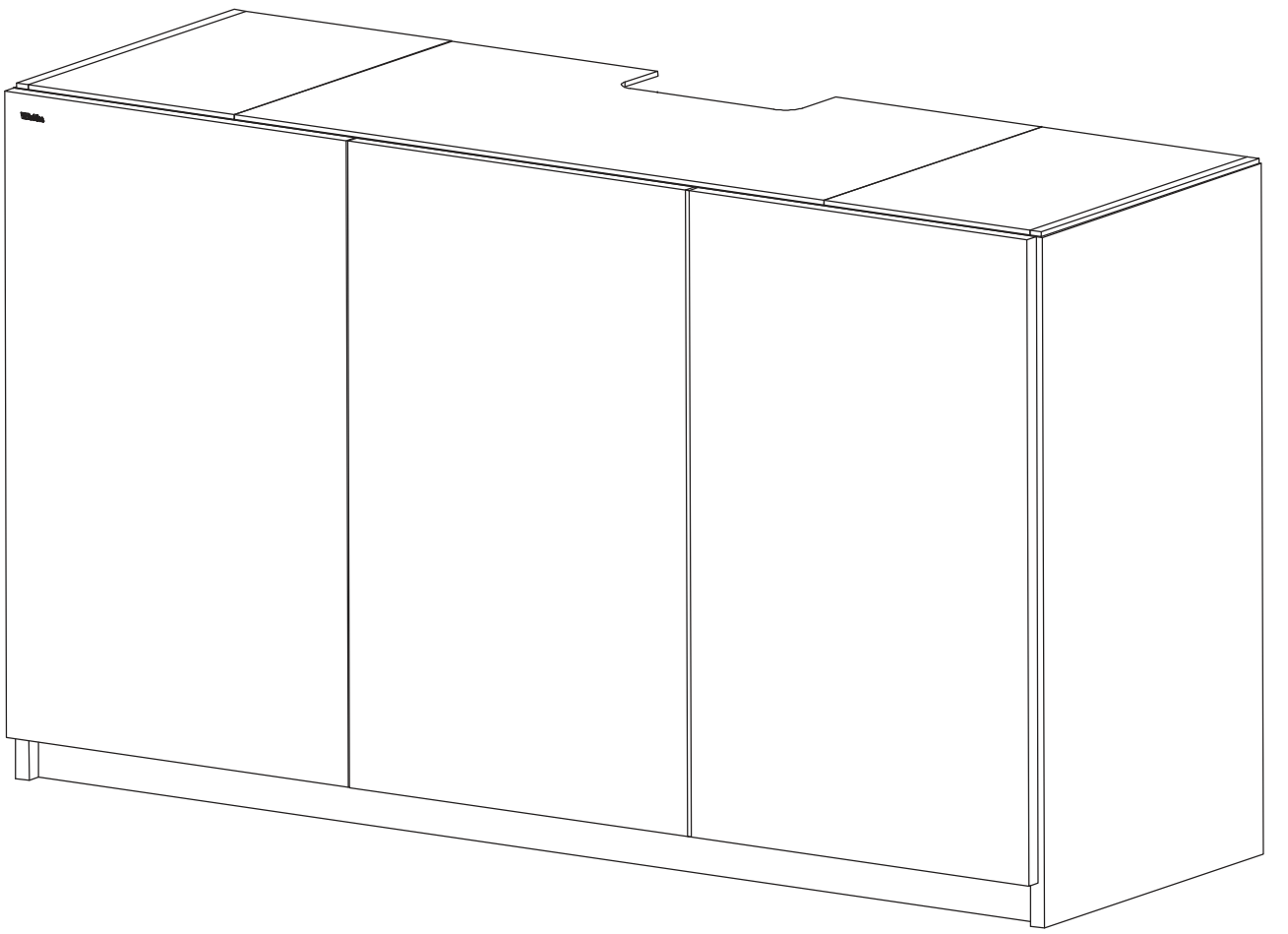
Red Sea
www.redseafish.com

PRINTING INSTRUCTIONS

To print **only** the Cabinet Installation Guide, print pages 42-45.

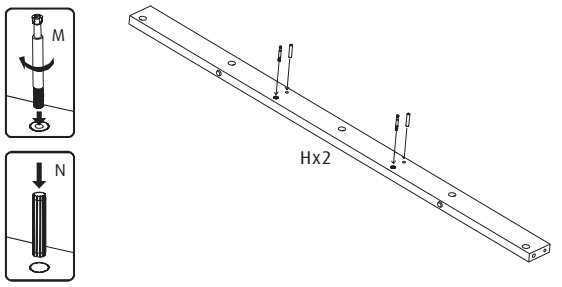
Red Sea REEFER™

450/XL 525

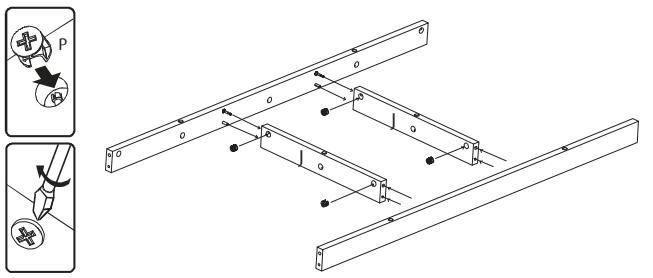


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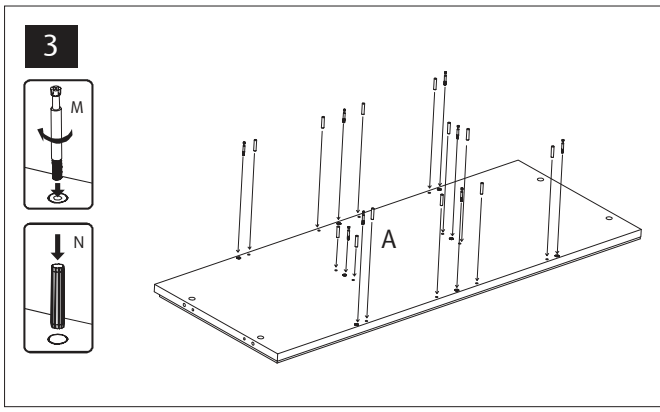
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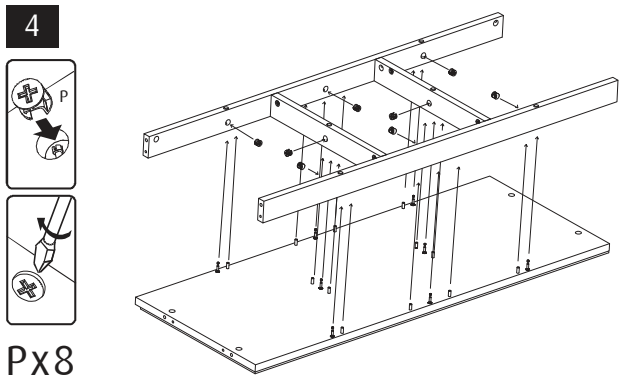
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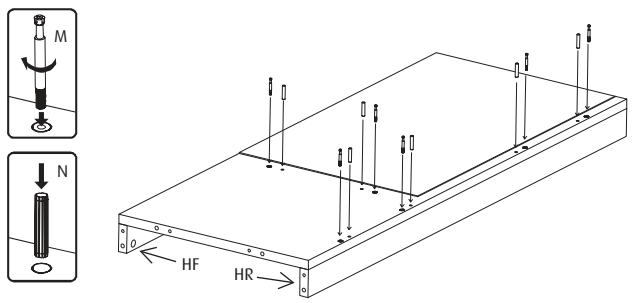
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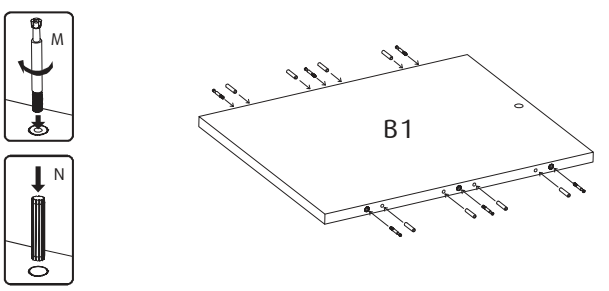
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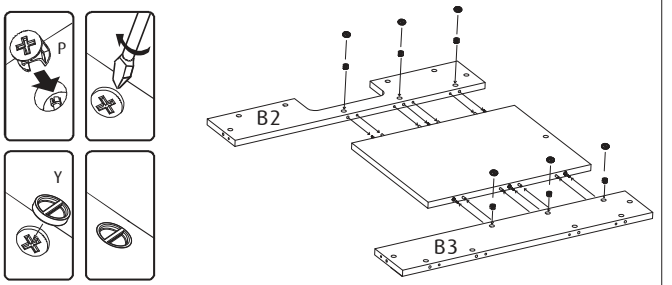
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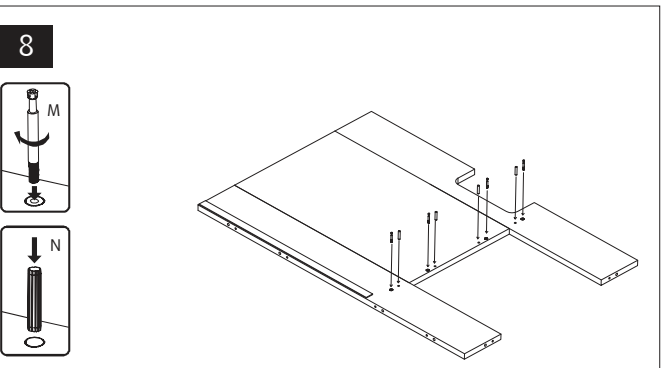
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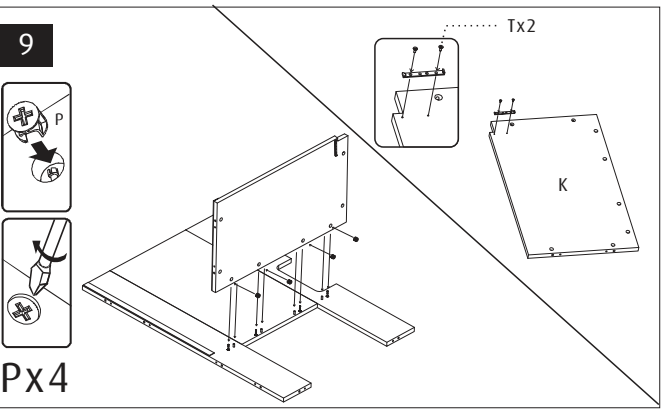
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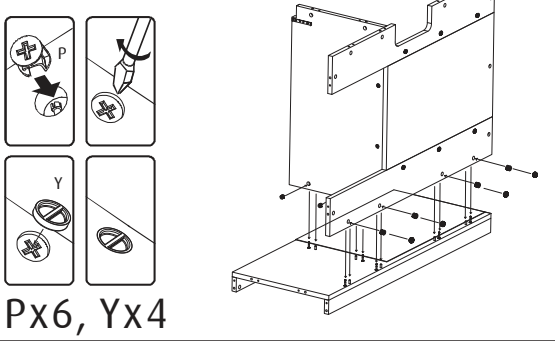
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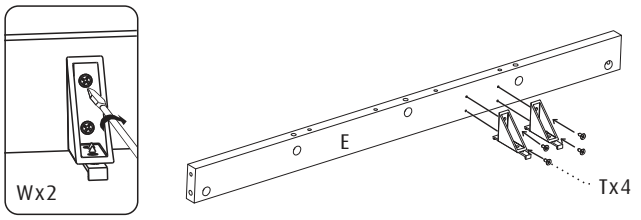
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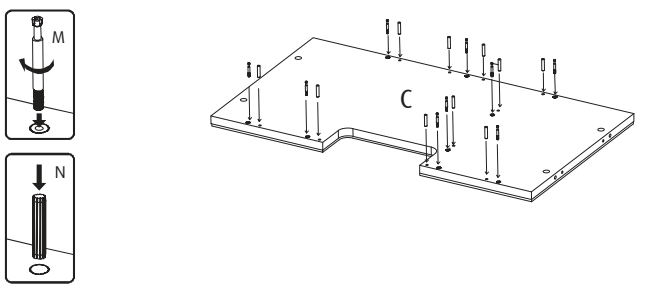
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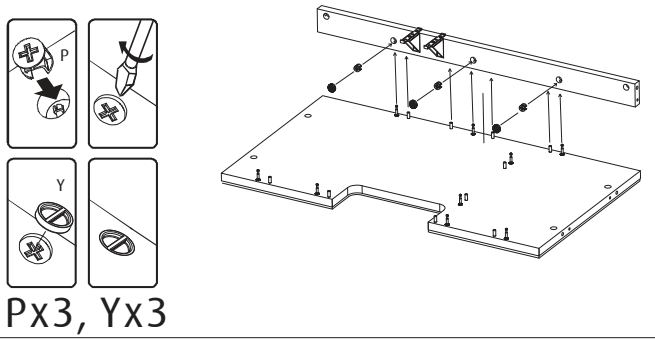
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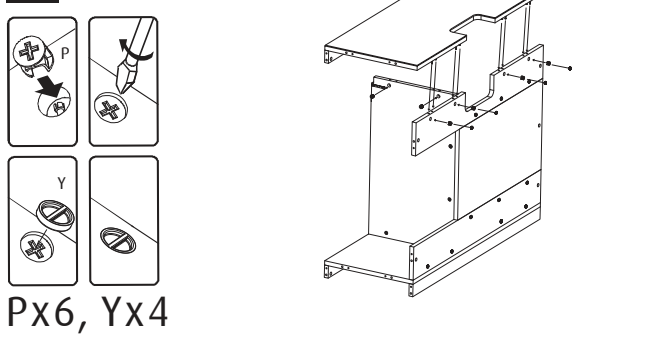
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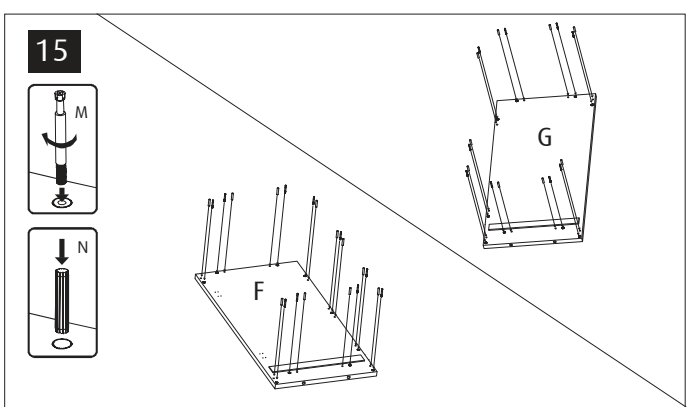
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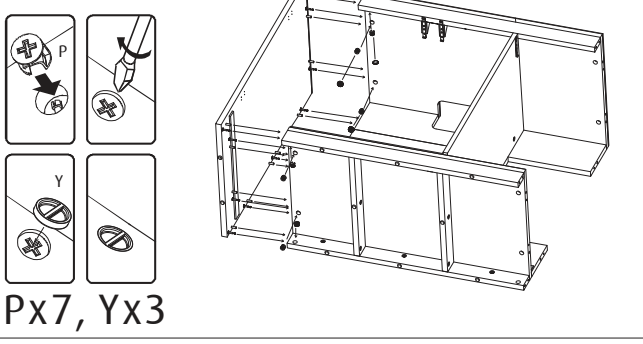
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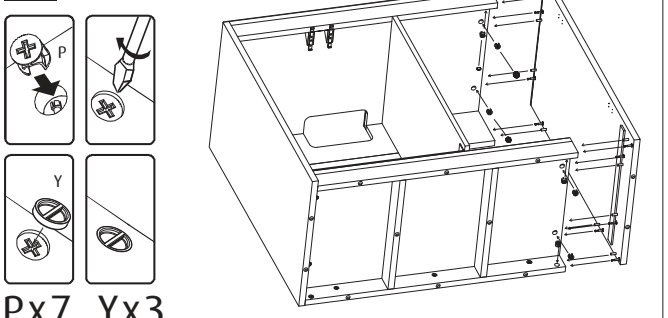
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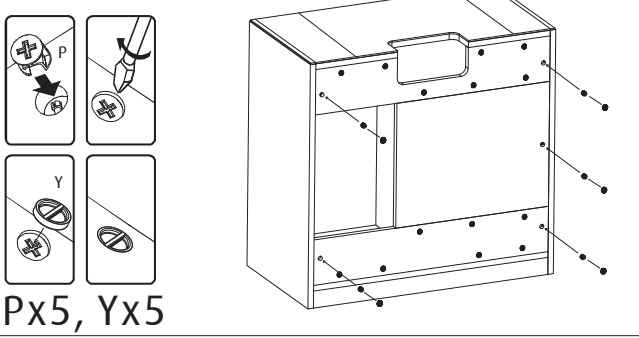
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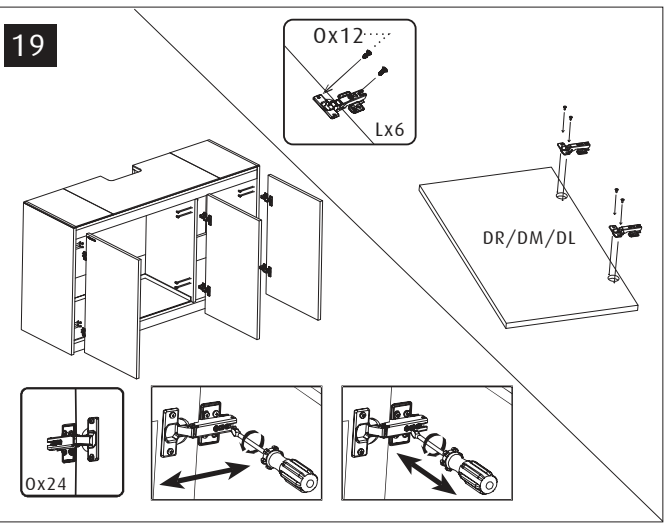
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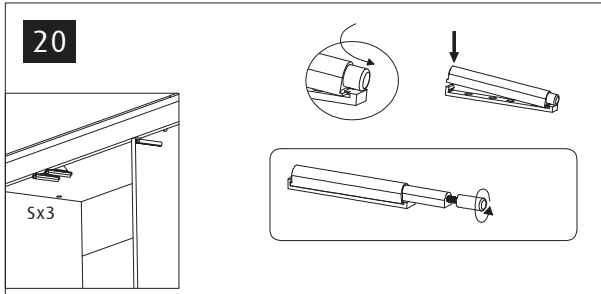
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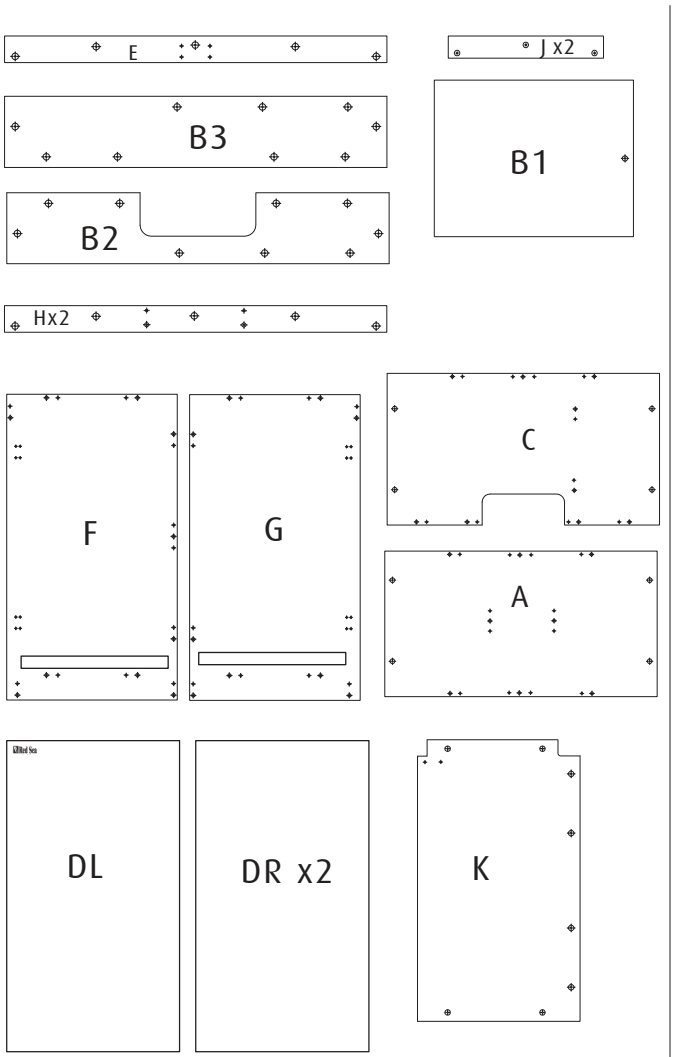


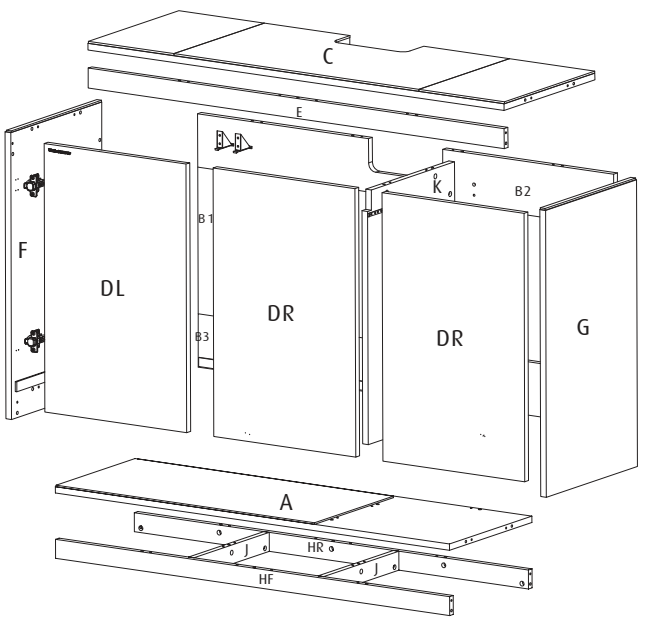
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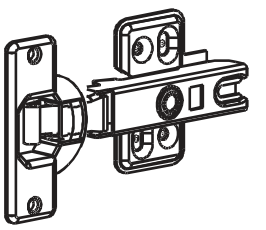
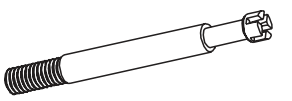
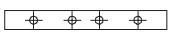
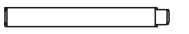
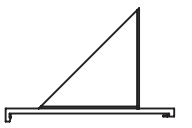


20







L		x6
M		x56
N		x62
O	 ST3.9 x16	x36
P		x56
R		x1
S		x3
Y		x28
T	 ST3.5 x14	x6
W		x2

#5349 REEFER 450 _v15A

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PRINTING INSTRUCTIONS

To print **only** the Cabinet Installation Guide, print pages 47-57.

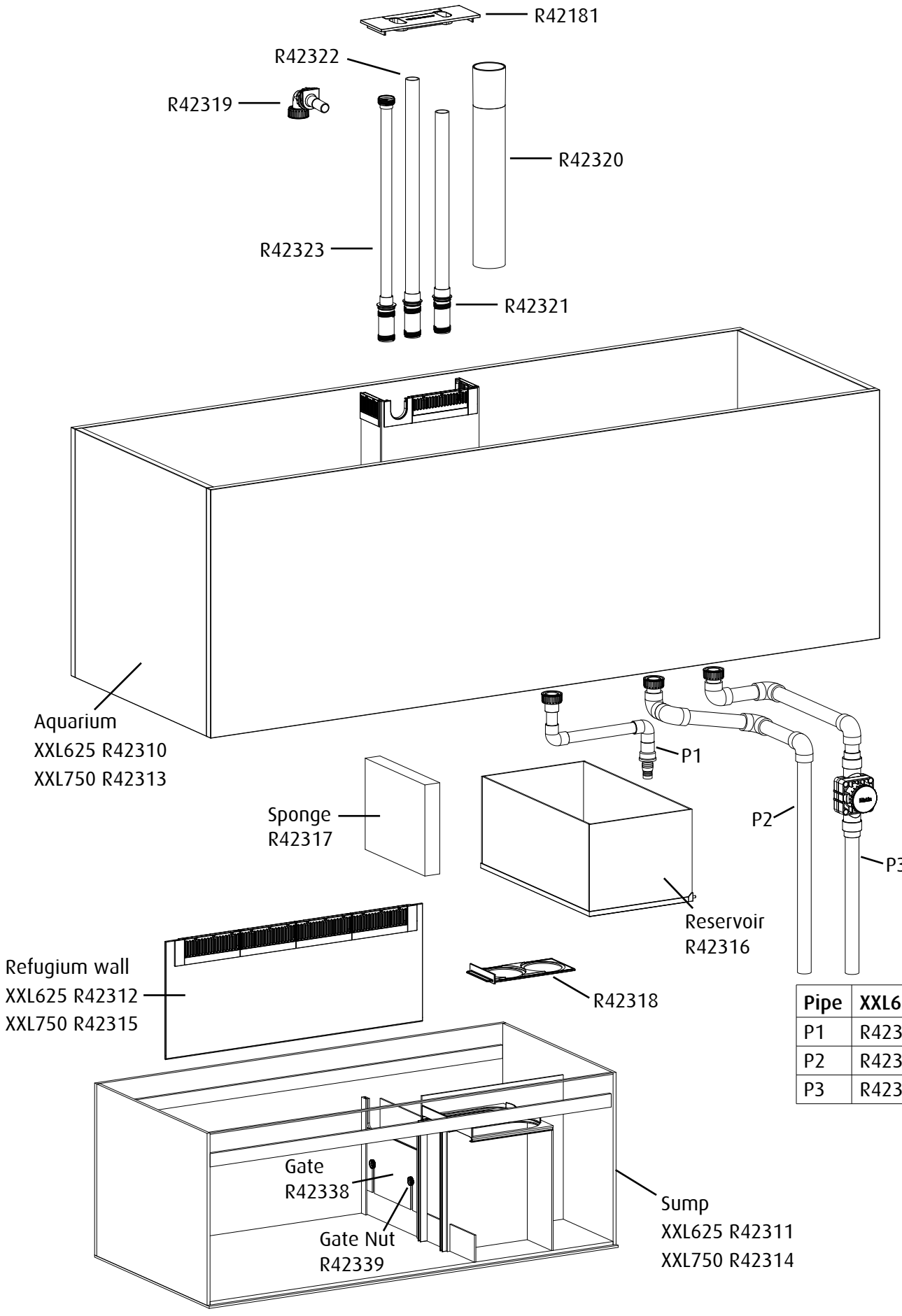
Red Sea REEFER™

XXL 625/XXL 750

Aquarium & Cabinet Assembly Manual

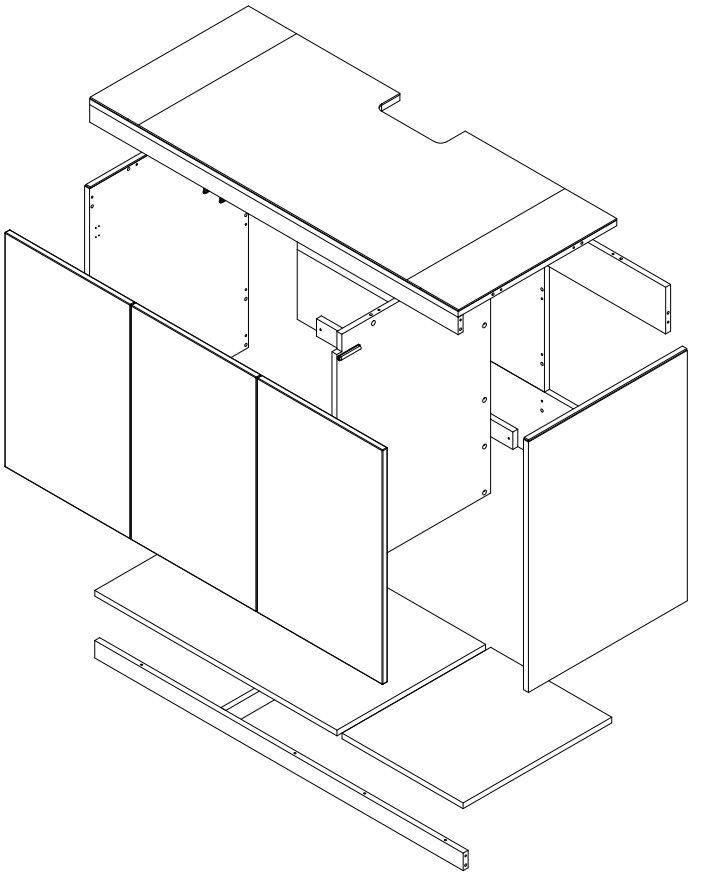
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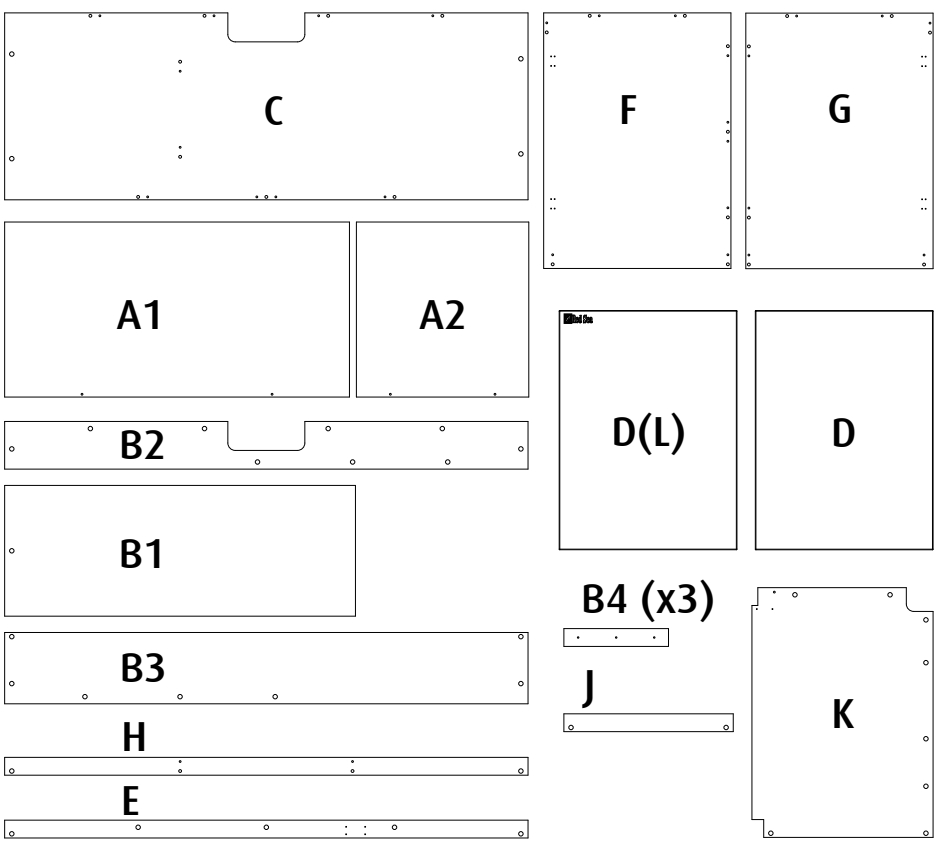
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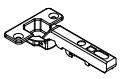
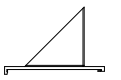


Pipe	XXL625	XXL750
P1	R42325	R42328
P2	R42326	R42329
P3	R42324	R42327

Cabinet



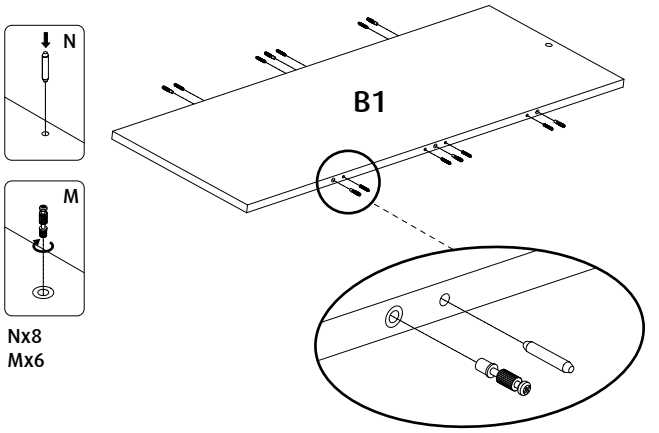


	625	750
L2 	6	
L1 		
N 	46	
M 	38	39
P 	38	39
Q 	38	39
R	1	
S 	3	
T 	2	
V1 ST4x16	36	
V2 ST3.5x14	6	
V3 ST5x35	10	
V4 ST5x60	2	
W	9	
Y32	2	
Y25	1	
Z	22	24

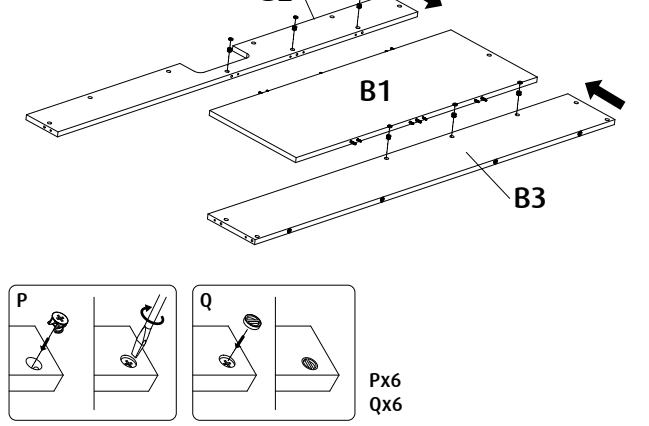
XXL	625	750	Part Description
A1	6138B	6238B	Cabinet Bottom Sump
A2	6139B	6239B	Cabinet Bottom Chiller
B1	5304BP	6234B	Cabinet Rear Middle
B2	5305BP	6235B	Cabinet Rear Top
B3	5306BP	6236B	Cabinet Rear Bottom
B4	6132B	6240B	Cabinet Rear Bottom Support
C	6137B	6237B	Cabinet Top

XXL	625	750	Part Description
D	5307 - B/W	5275 - B/W	Cabinet Door - Black/White
E	5309BP	6232B	Cabinet Front Upper
F	6133 - B/W		Cabinet Side Left
G	6134 - B/W		Cabinet Side Right
H	5303P - B/W	6233 - B/W	Cabinet Front Lower - Black/White
J	6135B		Cabinet Base Support
K	6136B		Cabinet Internal Wall

1

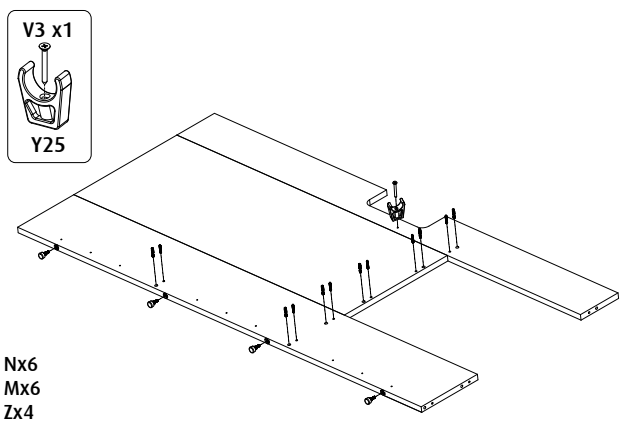


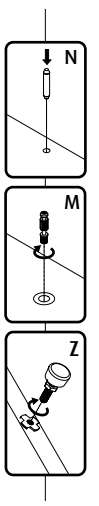
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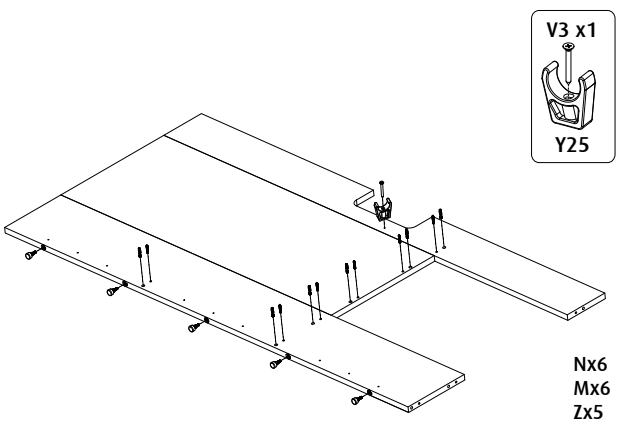
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XXL 625

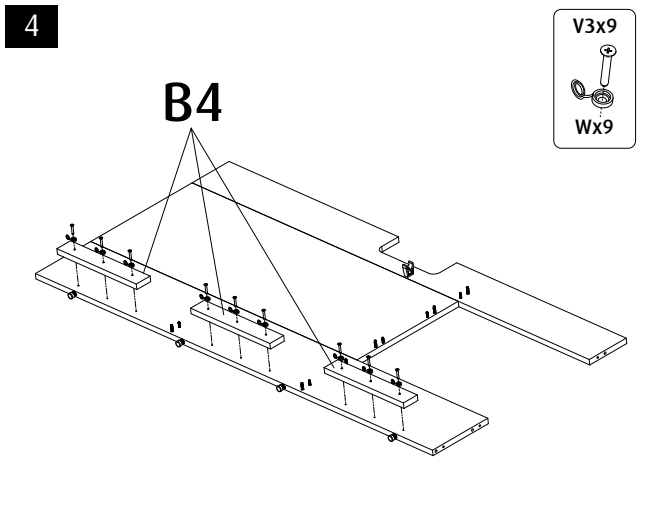




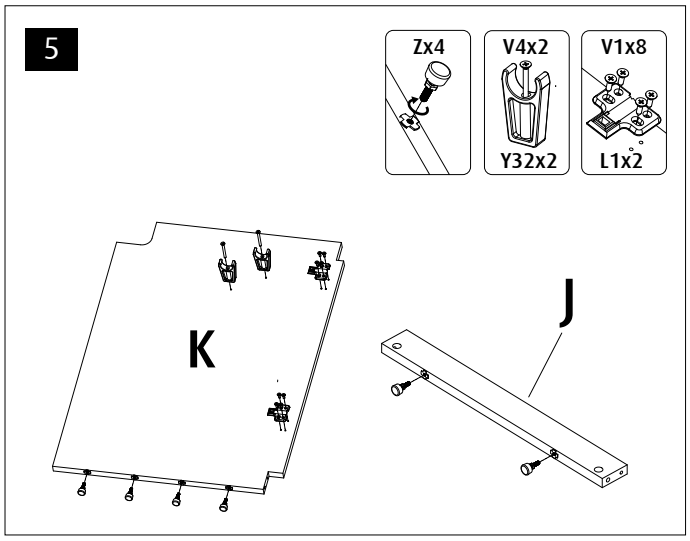
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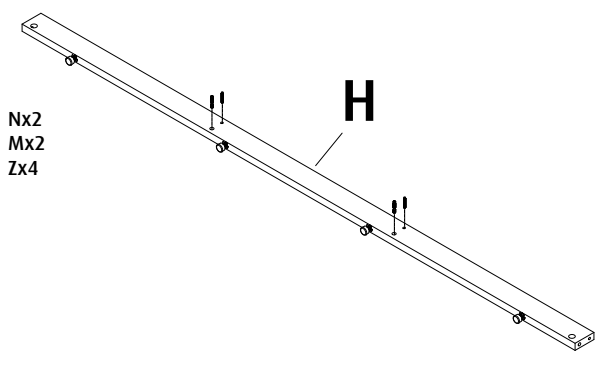


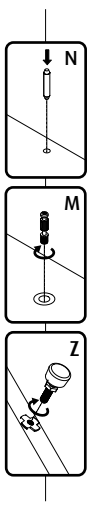
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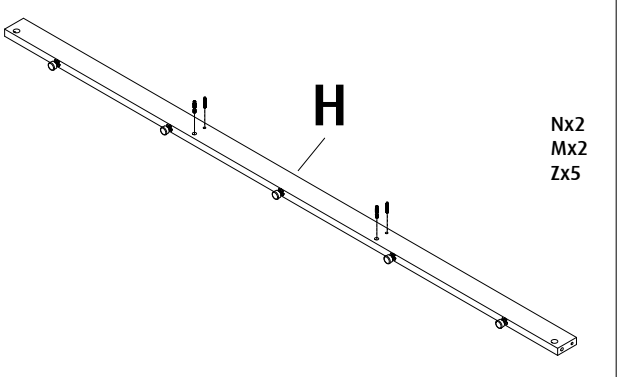
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XXL 625

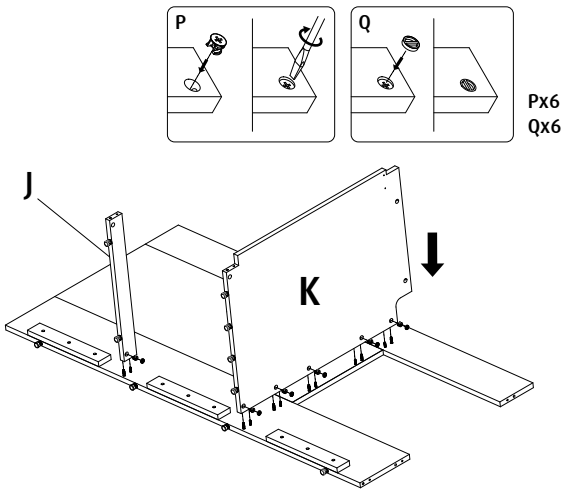




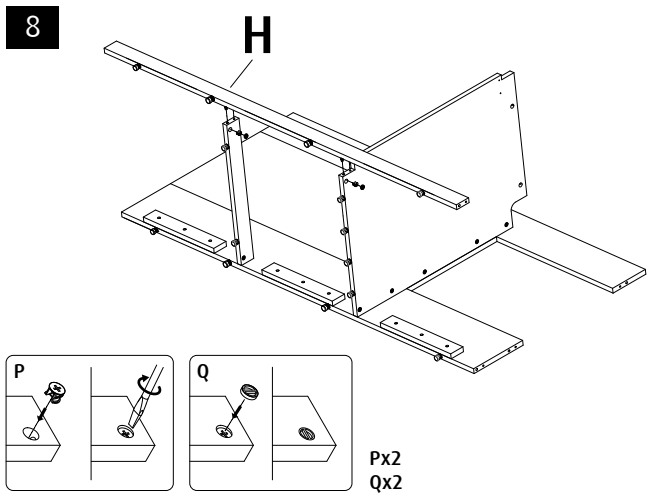
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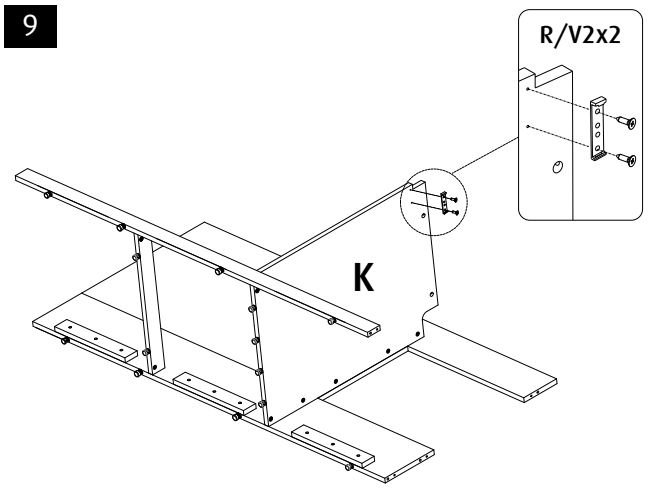
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P
Q
Px6
Qx6
J
K

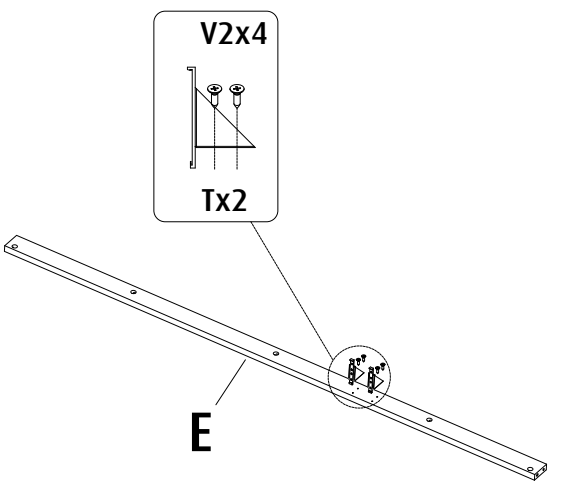
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H
P
Q
Px2
Qx2

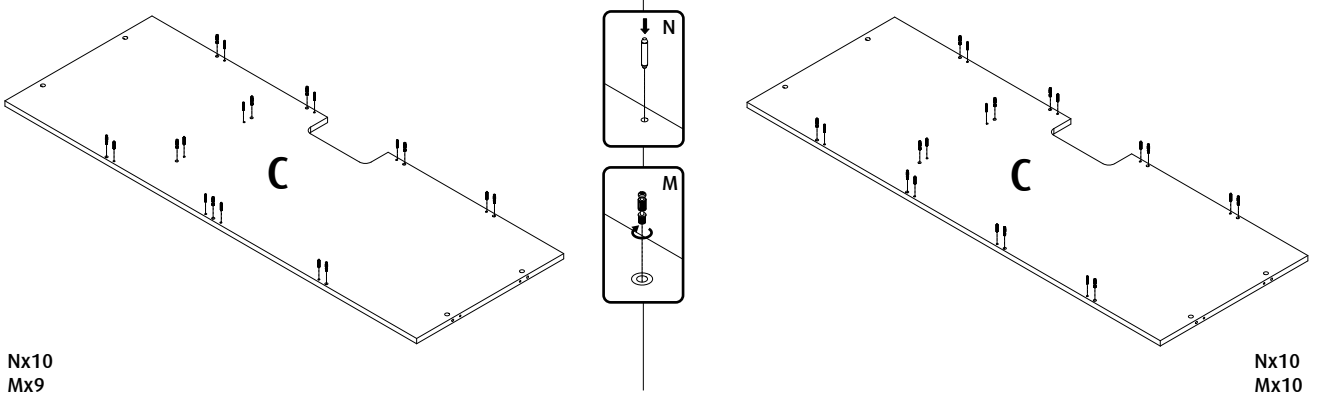
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R/V2x2
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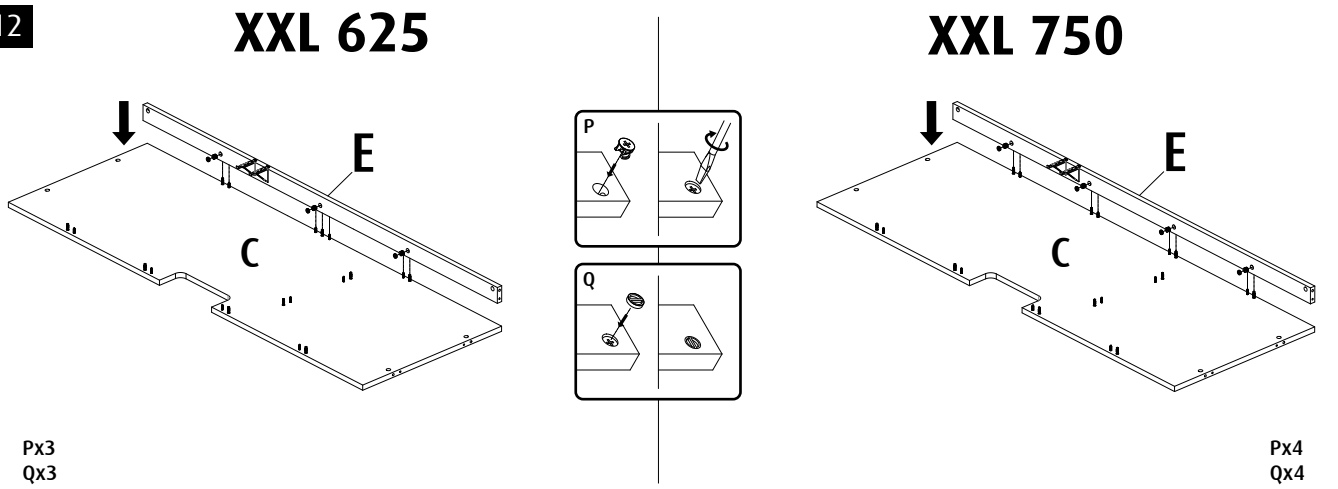
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V2x4
Tx2
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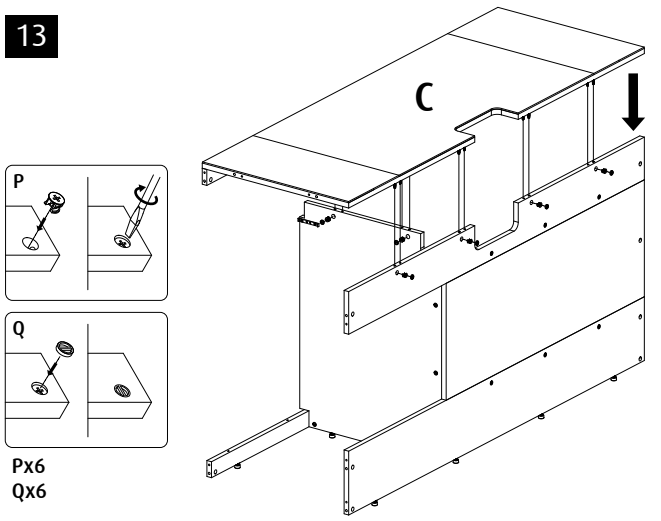
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XXL 625
XXL 750
N
M
C
C
Nx10
Mx9
Nx10
Mx10

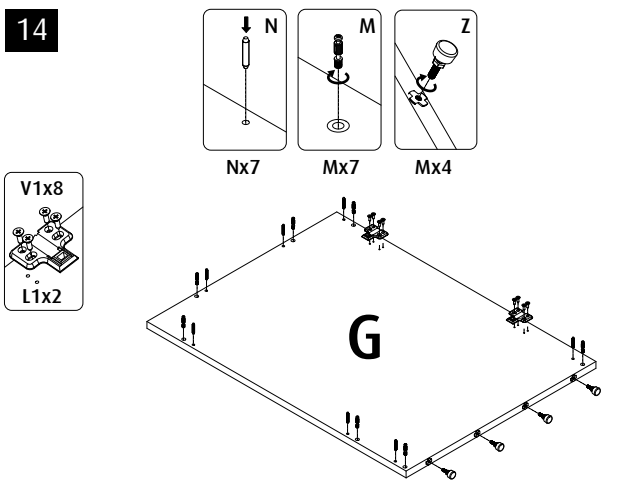
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XXL 625
XXL 750
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Q
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C
Px3
Qx3
Px4
Qx4

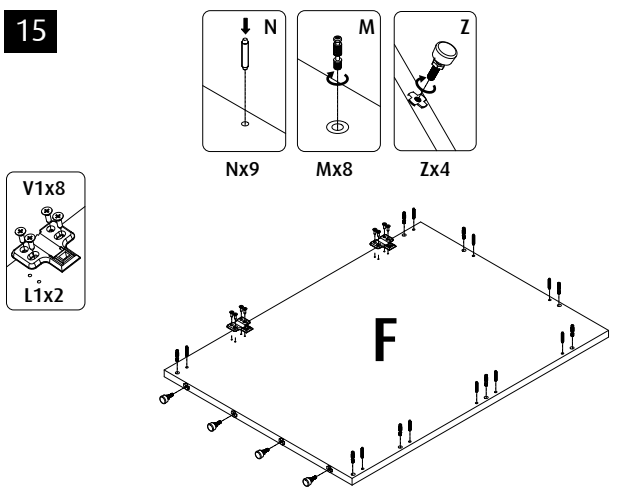
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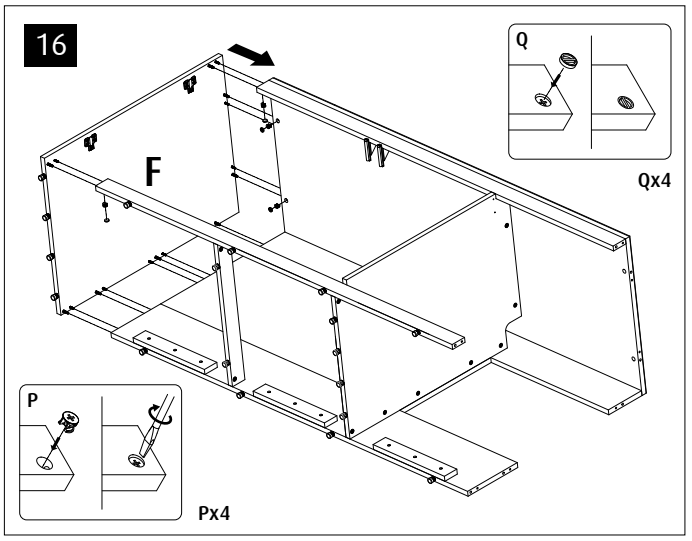
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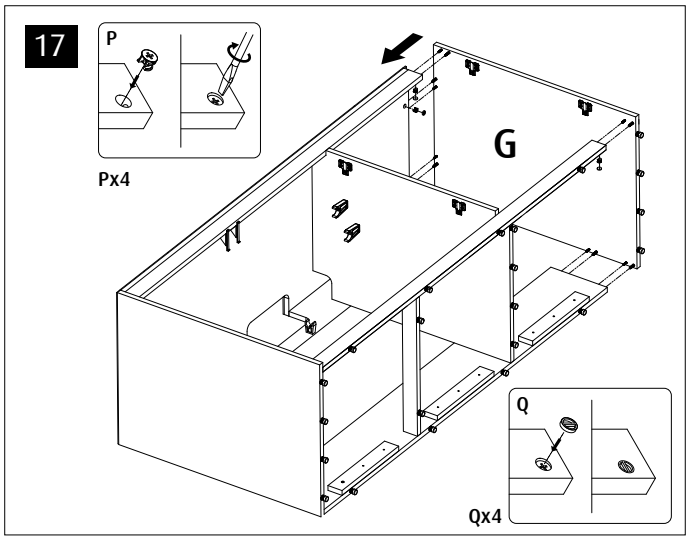
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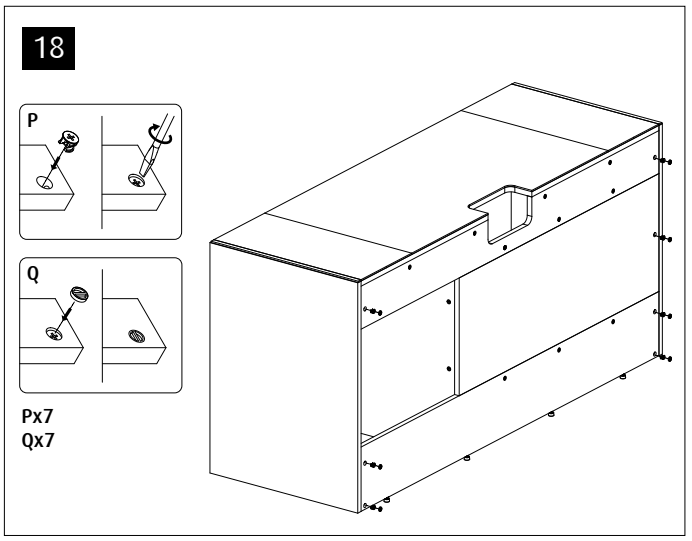
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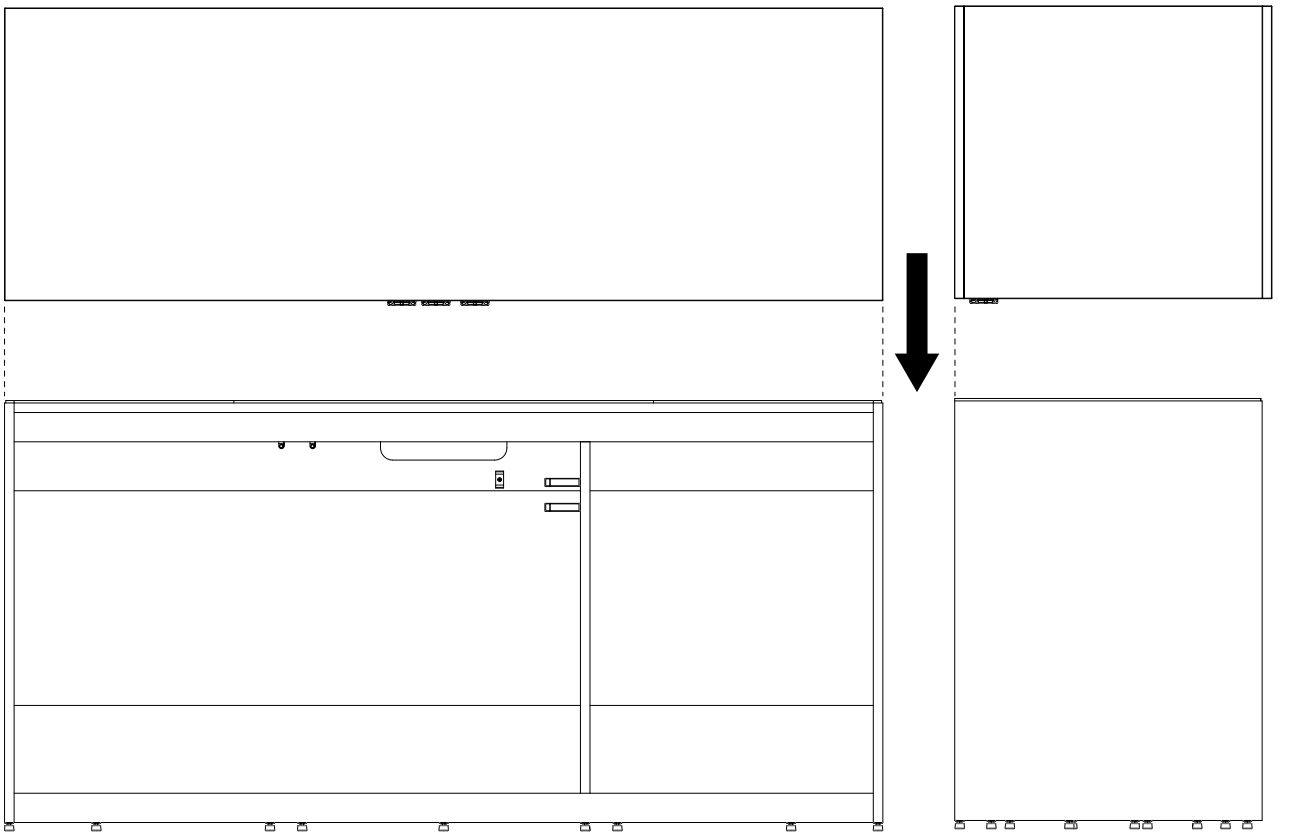
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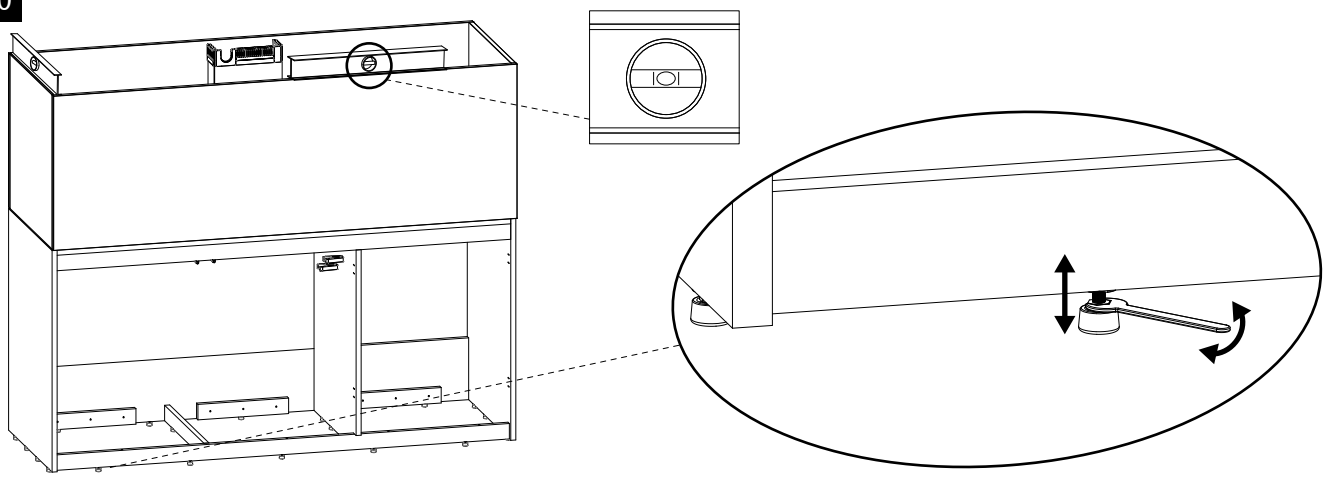
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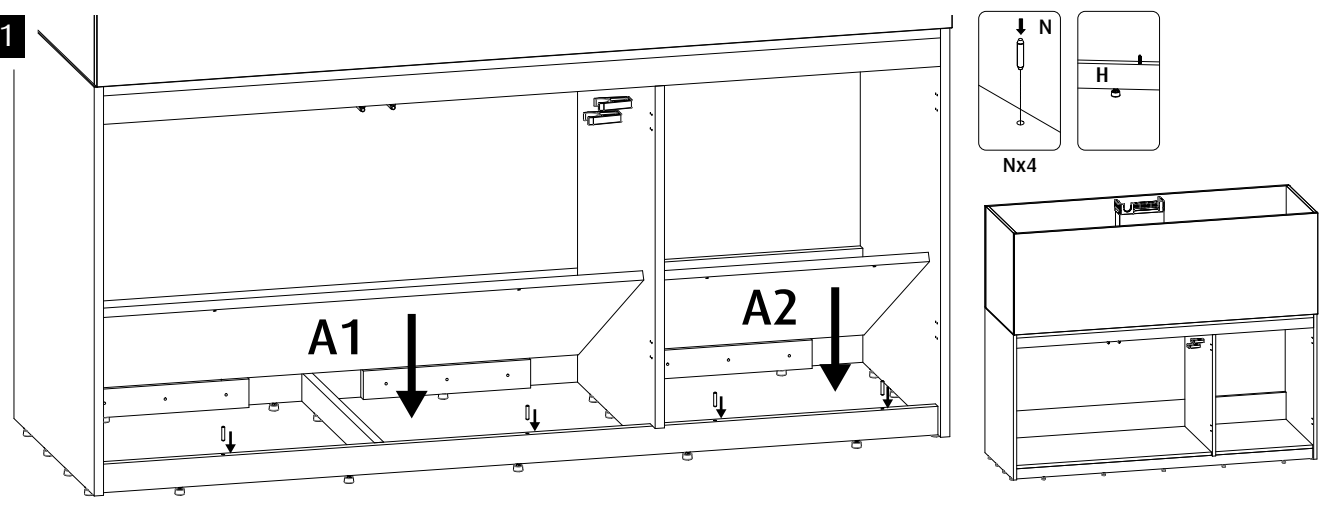
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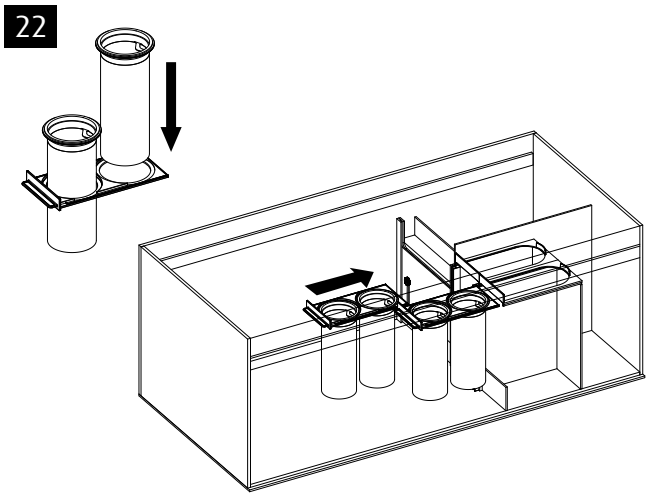
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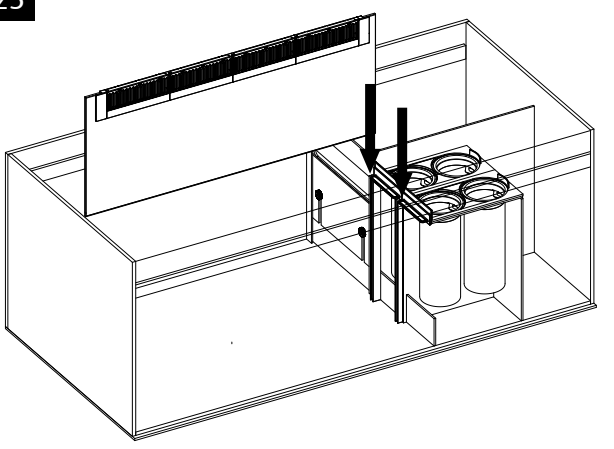
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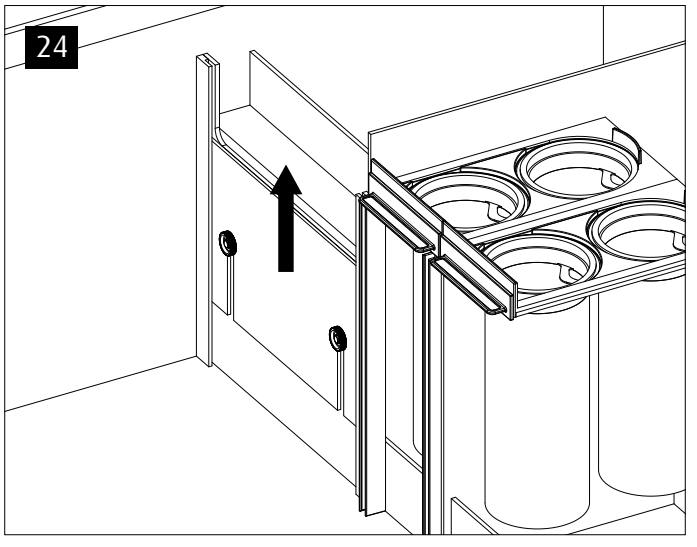
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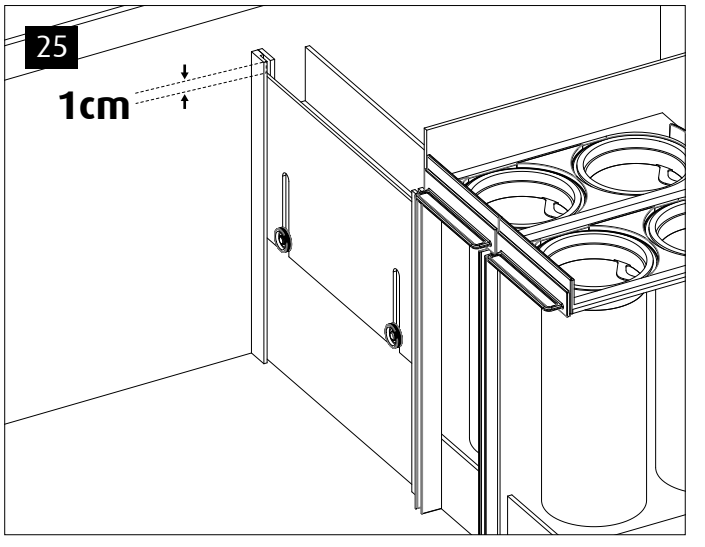
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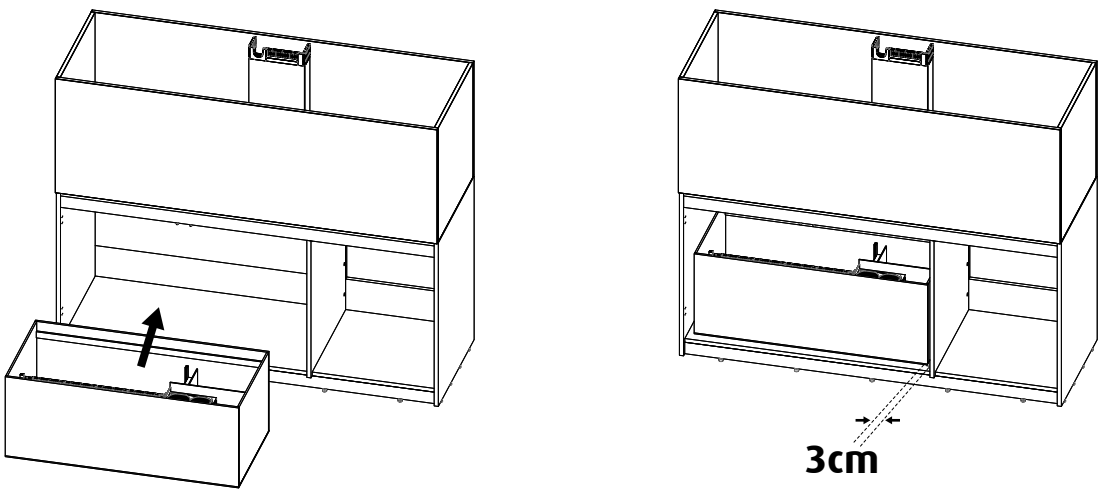
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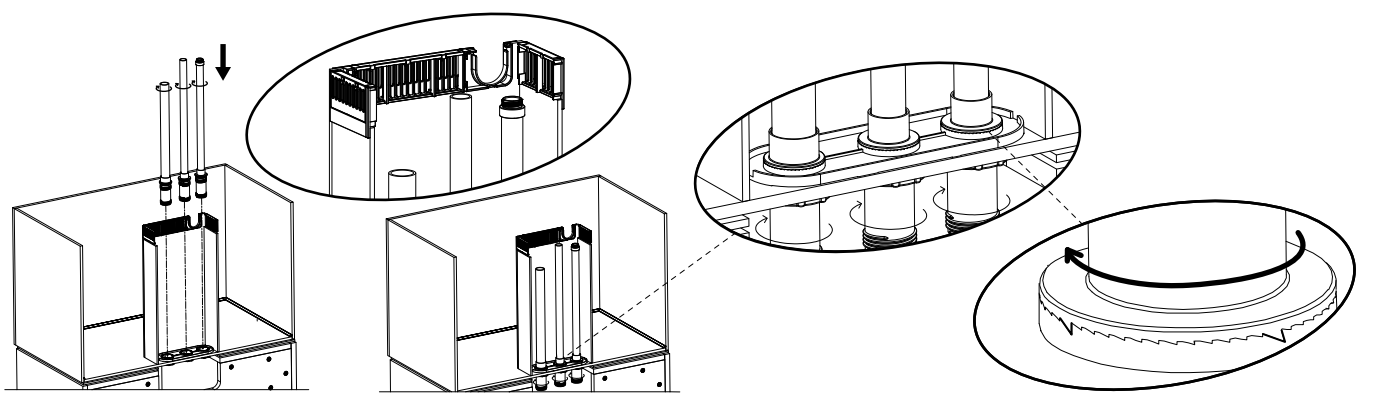
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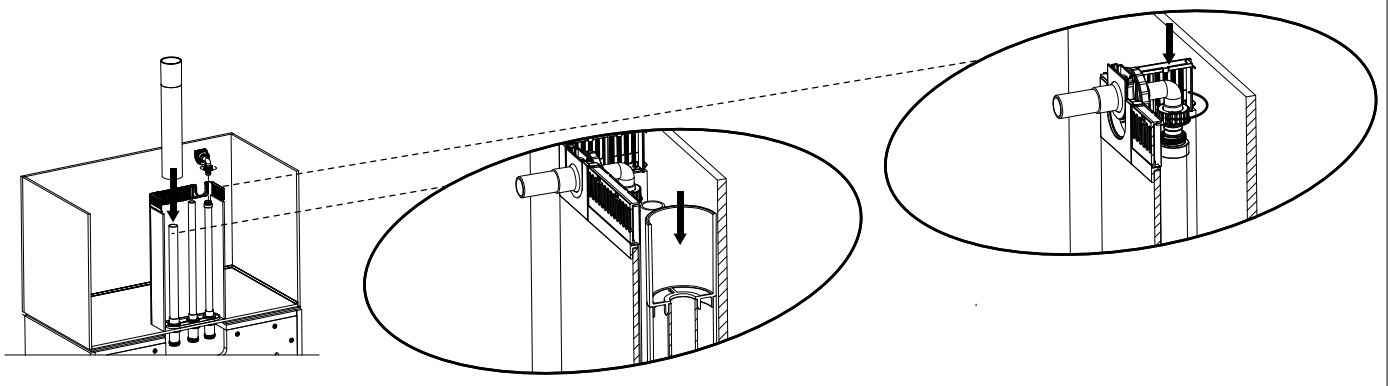
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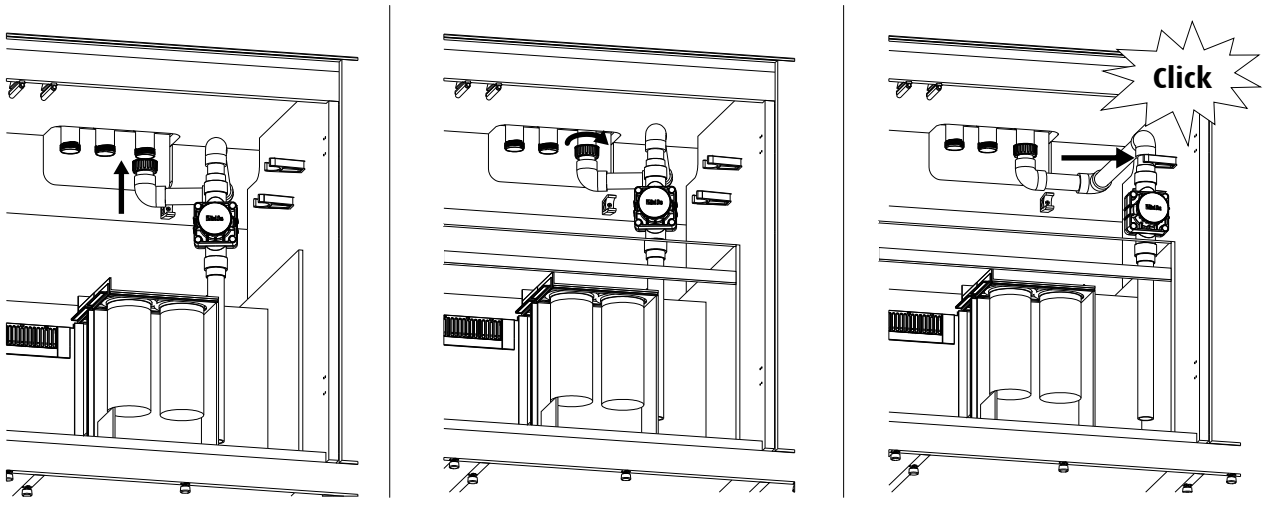
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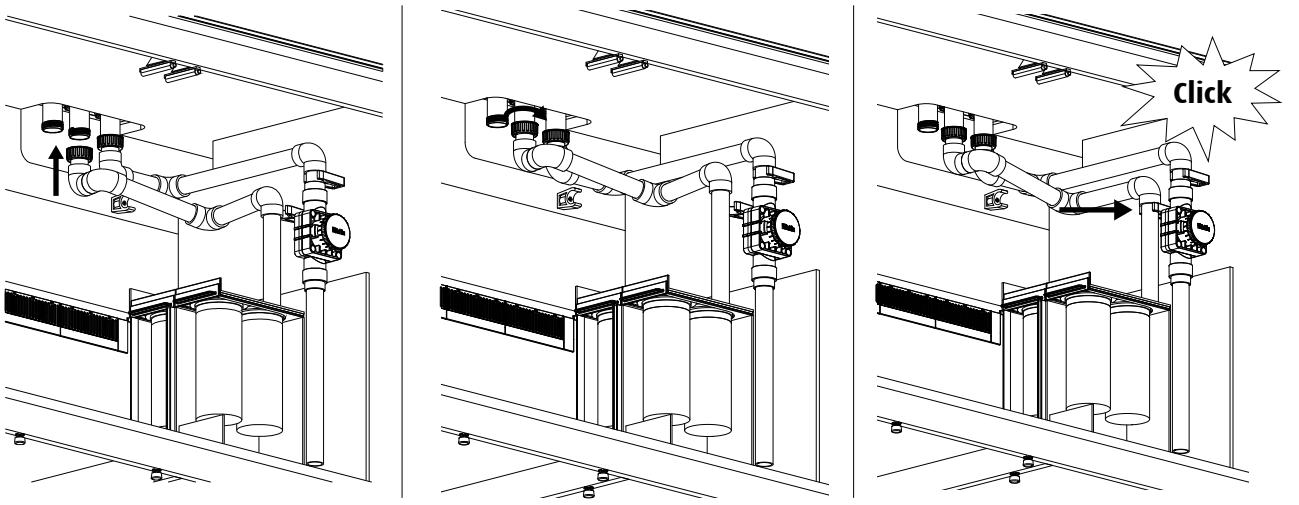
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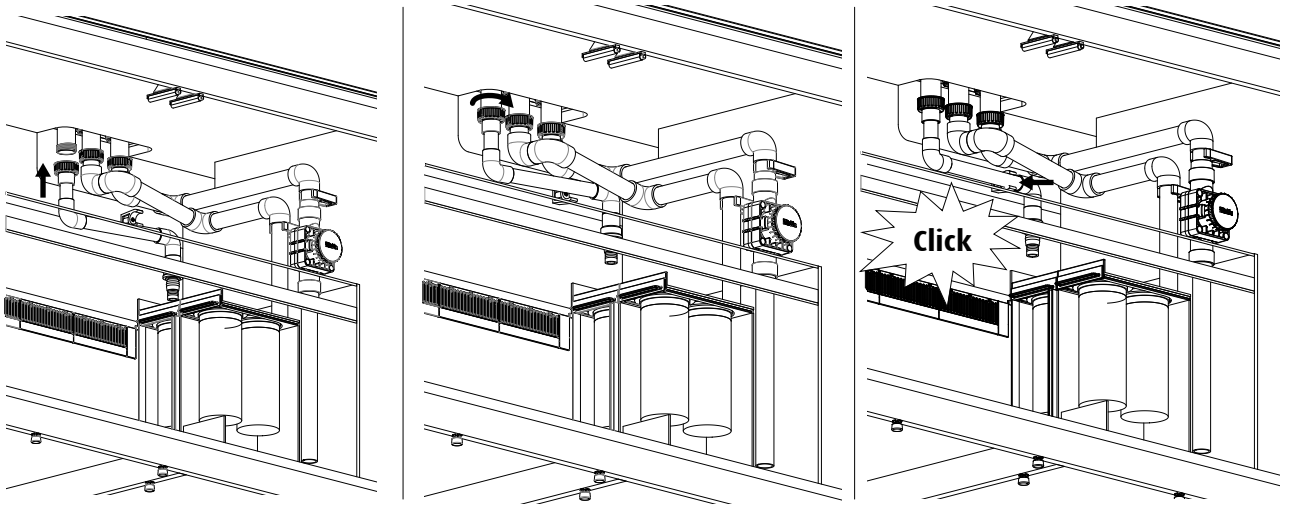
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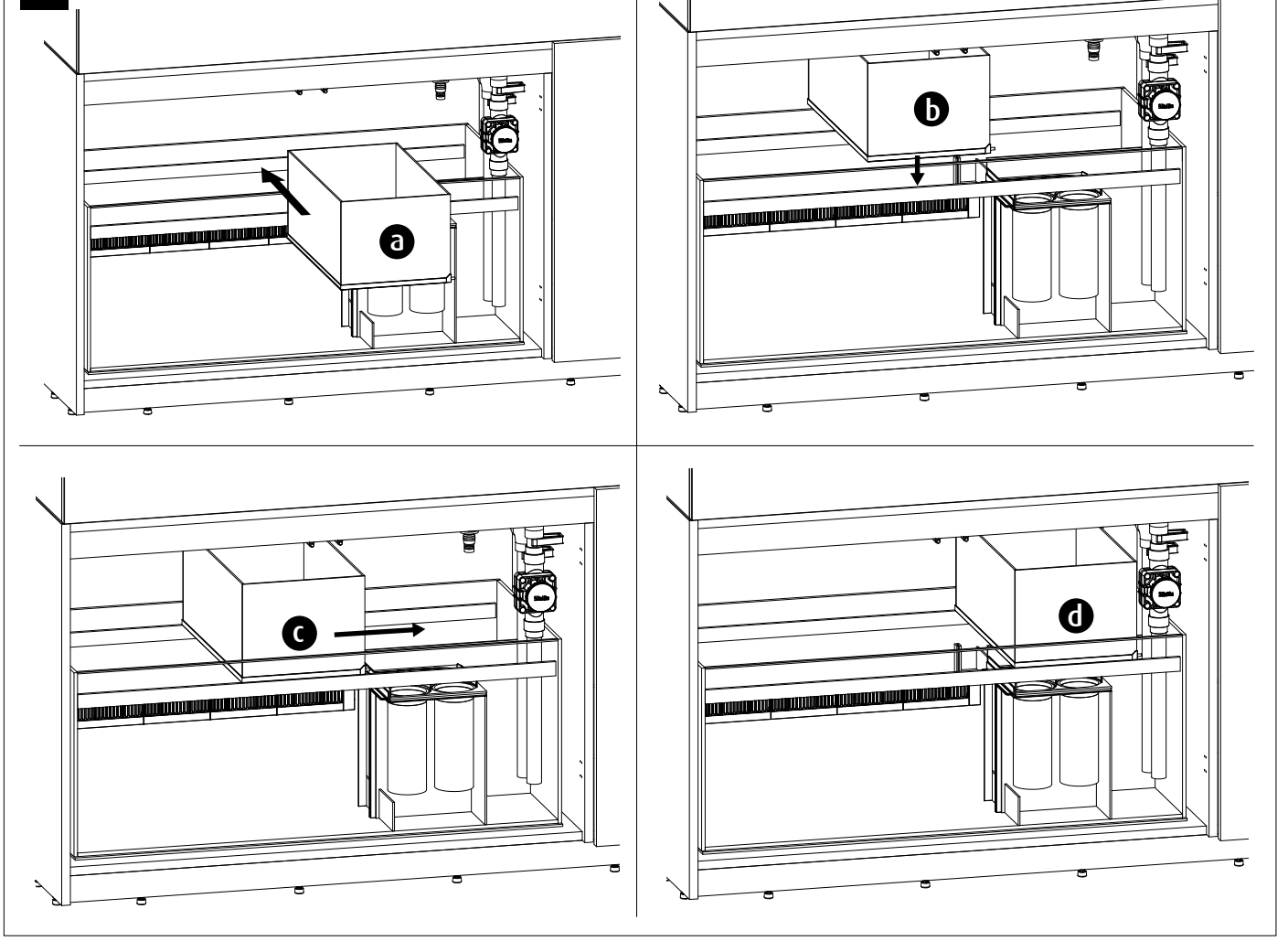
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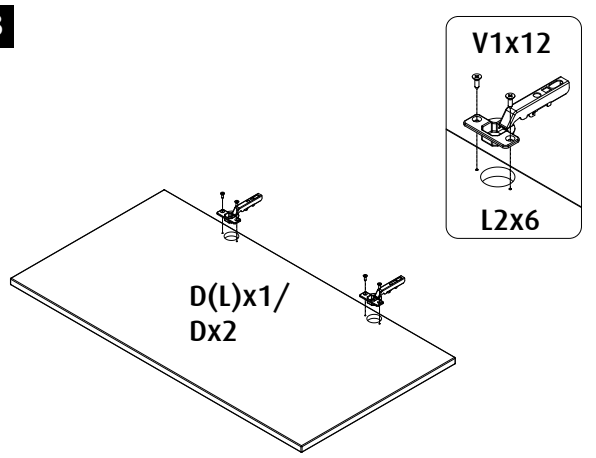
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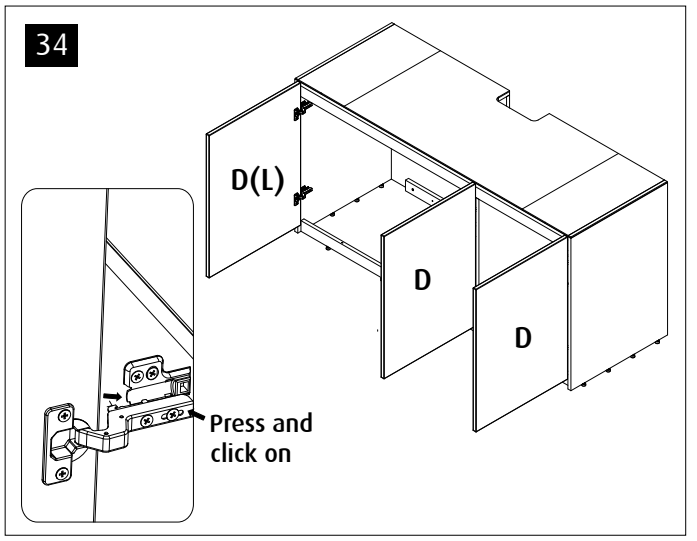
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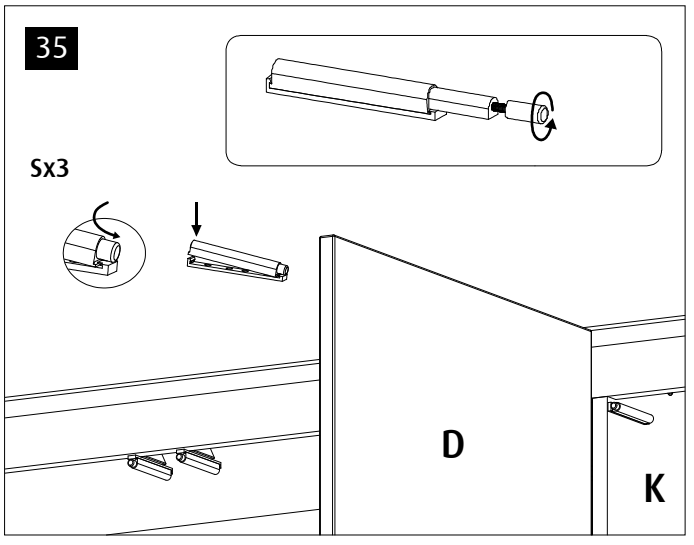
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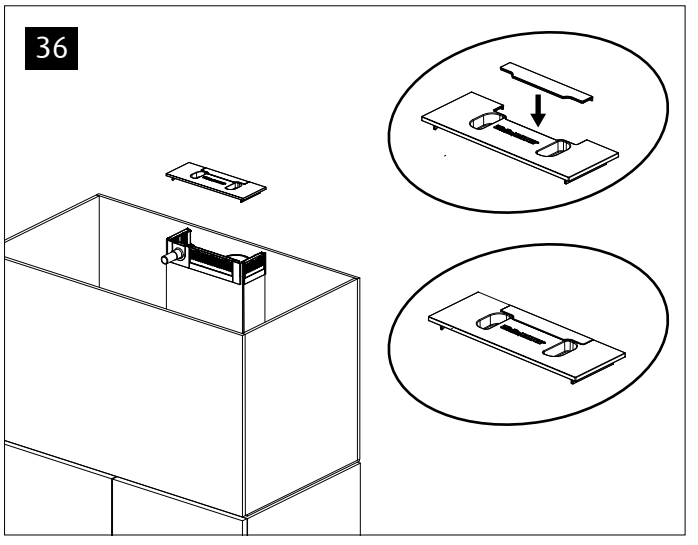
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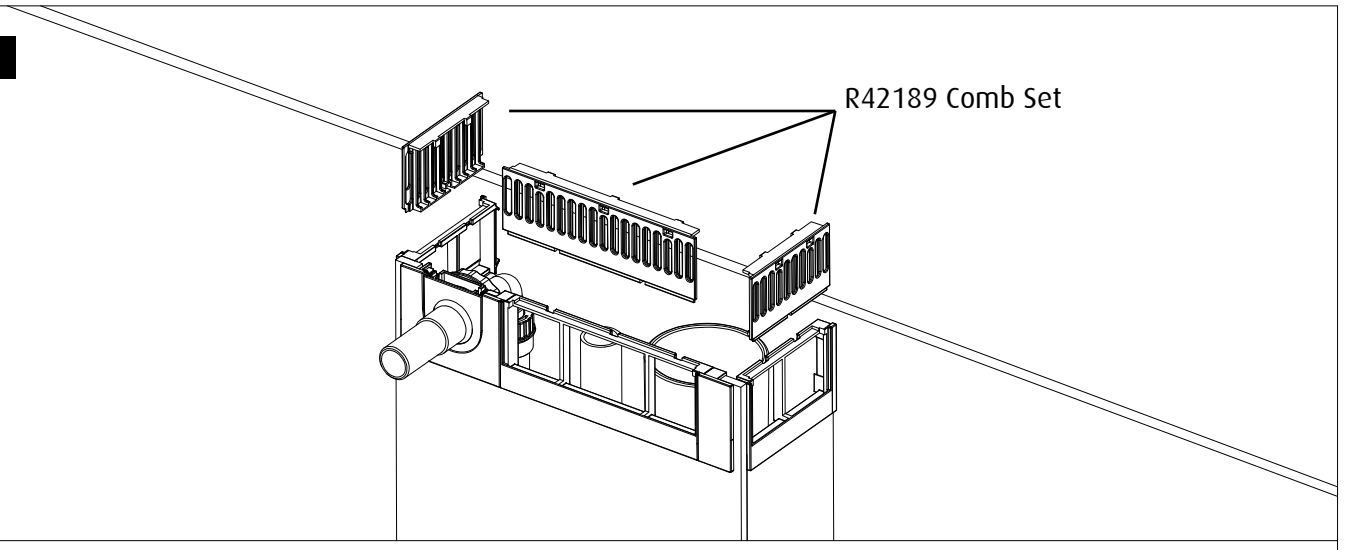


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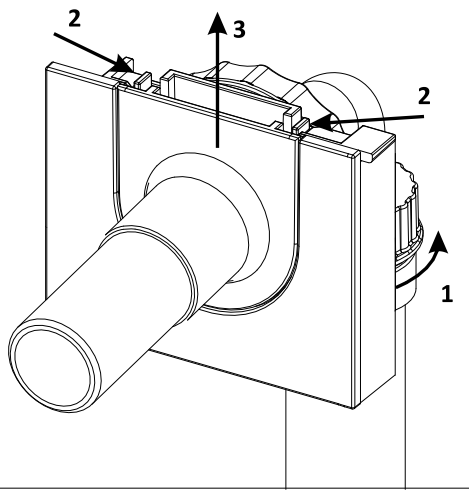


Maintenance

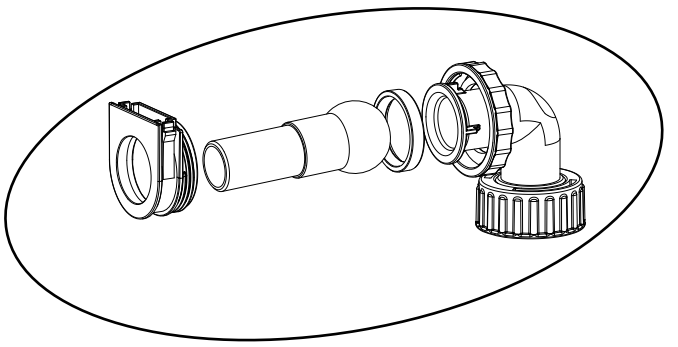
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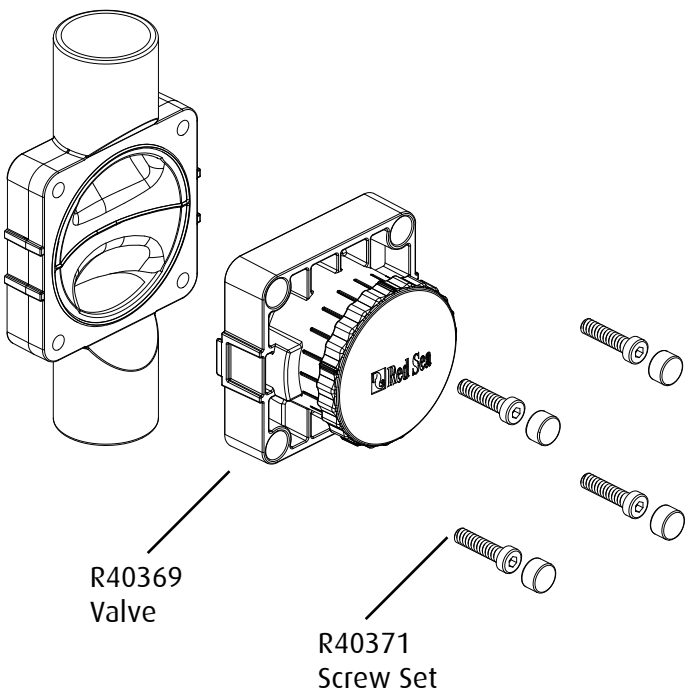
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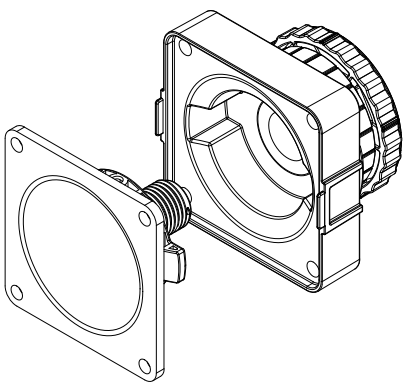
R42319 Outlet Assembly



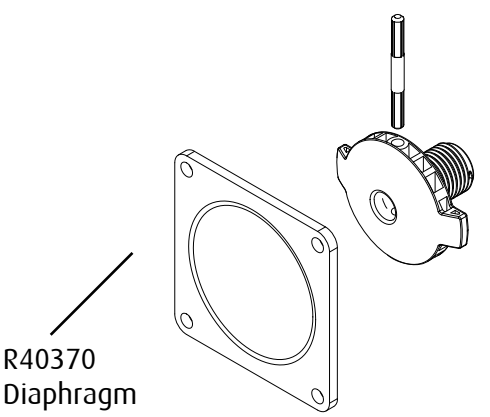
C 1



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6109_ Manual Reefer XXL Assembly _v17a

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www redseafish com

PRINTING INSTRUCTIONS

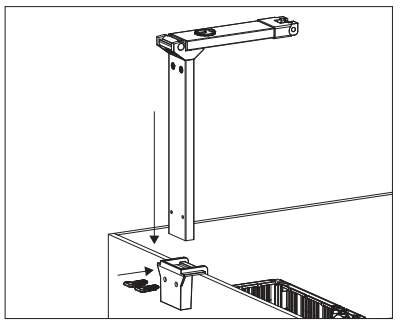
To print **only** the LED Assembly Manual, print pages 58-61.

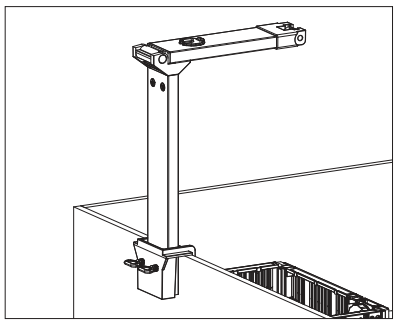
REEFER™ LED Assembly Manual

Red Sea

Assembly - LED Mounts

Place the mounting bracket in the desired position on the back wall of the aquarium. Insert the mounting column to the bracket and fix in position with 2 screws provided. Hand-tighten the screws only! Do not attach the LED modules at this time. Do not insert the cable plugs into the hole in the arm. Make sure that the mounting arm is in the horizontal position.





Installation of LED Modules

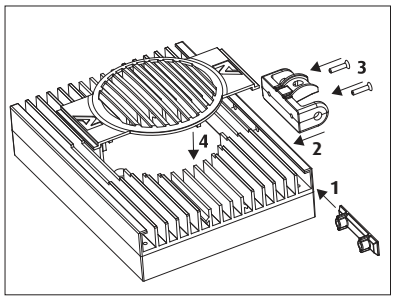
1. Remove the fan cover. Slide the connector plate into the module so that the threaded bushings in the plate are aligned with the holes in the aluminum.

2. Using the M3 screws provided, lightly attach the swivel connector as shown in the diagram. Replace the fan cover and ensure that the swivel connector is parallel to the top of the aluminum before tightening the screws.

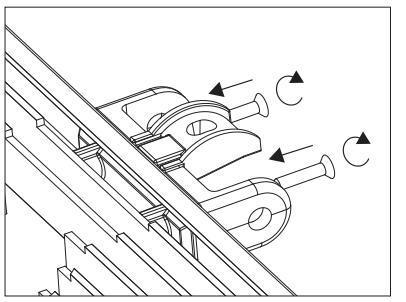
3. Put the swivel connector pins and fixing screw within easy reach of the aquarium. Locate the LED Module in front of the mounting arm and push swivel connector in position. Insert the connector pins to both sides and push until firmly in position. Screw the fixing screw into the top of the connector. Adjust the position of the LED module until it is parallel with the top of the aquarium and tighten the fixing screw. The swivel connector allows rotational adjustment for personal preference of approximately 5 degrees.

4. Bring the cable to the rear of the mount and thread the cable through the hole in the arm so that there is sufficient cable to plug the DC jack into the connector on the LED module. Flatten the cable against the underside of the mounting arm and insert the bottom cable plug. Insert the cable plug into the top of the arm so that the cable is facing backwards.

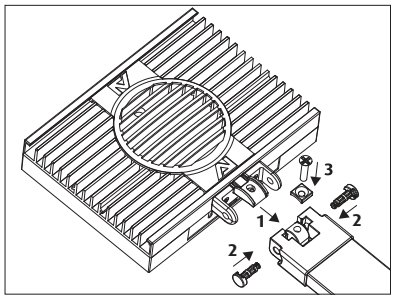
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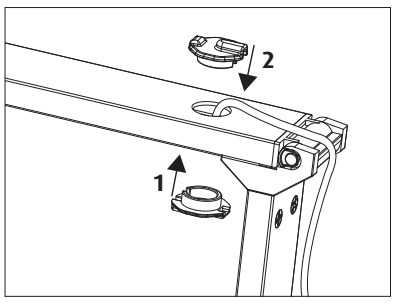
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❸



❹



WARNING: The LED module is not waterproof. Do not get the unit wet and do not submerge any part of it or the power cord in the aquarium water.

WARNING: LED lights produce extremely intense light output that may damage or injure your eyes. Do not look directly into the LED's any time the fixture is illuminated.

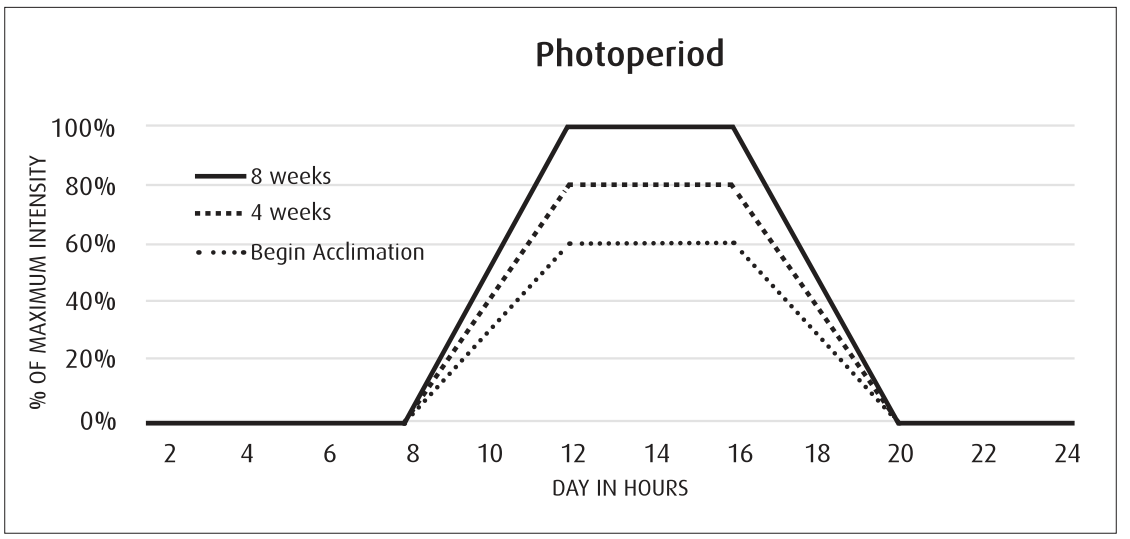
LED Set up and programming

The LED modules have a built-in Wi-Fi network and must be connected to a smartphone or Wi-Fi enabled computer to get the benefits of all of the features. To set up and program the LED's follow the instructions provided with the LED modules.

Programming guidelines:

Photoperiod: Day/moonlight

The day photoperiod should be between 8 – 12 hours with no more than 4 hours at maximum intensity and at ramp up/down rate of approximately 25% (of maximum intensity) per hour. Corals and fish must have daily periods of darkness. LED moonlight should be limited to 1% of the maximum light intensity for a maximum period of 6 hours.



Acclimation

To prevent photo-inhibition due to the high intensity of LED lights, an acclimation period is recommended for new systems or when introducing new corals.

Acclimation will vary for different kinds of corals however it recommended to allow a period of 8 weeks for new set-ups as follows:

Set the day photoperiod as described above however the 4 hour peak intensity to should not exceed 60% of maximum. Increase the peak intensity by 10% every 2 week.

During the acclimation period look for signs of photo stress and photo-inhibition such as:

- Whitening/Bleaching of the upper section of the tissue (the lower section will continue to show pigments and zooxanthellae).
- Polyps retraction.
- Gas bubbles inside the soft tissue.

In the event of any of the above symptoms immediately reduce the peak intensity by 20% for about 4 weeks and thereafter increase by 5% per week until maximum intensity is reached.

When introducing new corals to already acclimated systems, start by positioning them at the lower levels of the aquarium and gradually raising them to their desired position over a period of several weeks. Keep watching for signs of photo inhibition/stress and if necessary return an affected coral to lower levels for recuperation.

NOTE: Red and Green wavelengths are not recommended for use in Reef systems as they may promote the outbreak of unwanted Algae or Cyanobacteria.

LED Assembly Manual

Red Sea

4669_Manual Reefer DLX - Installation_ENG_V2_17A



PRINTING INSTRUCTIONS

To print **only** the LED Assembly Manual, print pages 62-65.

REEFER™ XXL LED Assembly Manual

Red Sea

LED Set up and programming

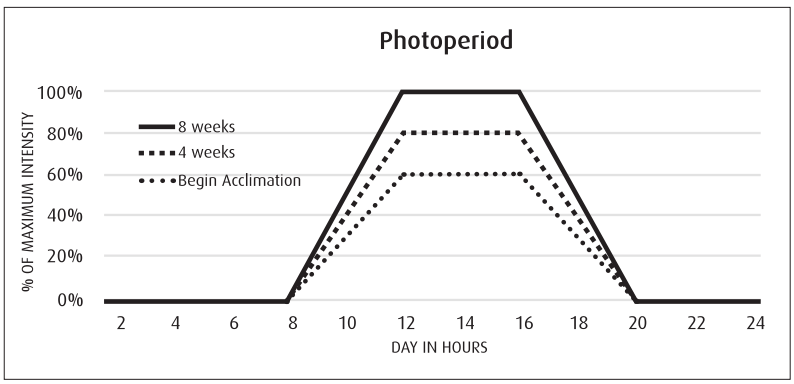
ENG

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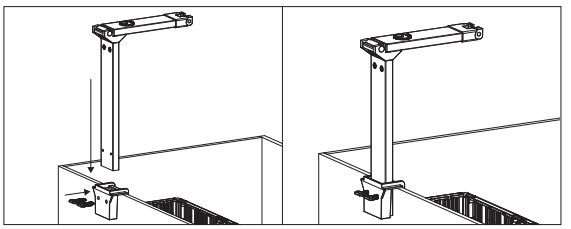
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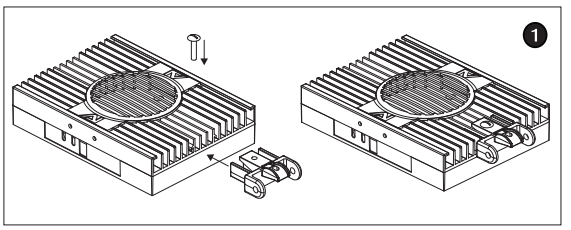
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Assembly - LED Mounts

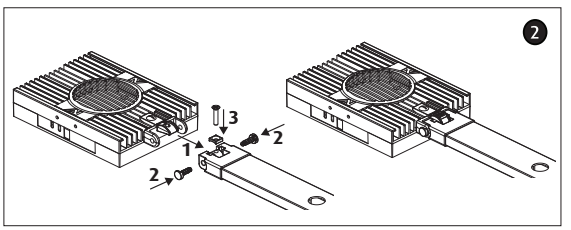
Place the mounting bracket in the desired position on the back wall of the aquarium. Insert the mounting column to the bracket and fix in position with 2 screws provided. Hand-tighten the screws only! Do not attach the LED modules at this time. Do not insert the cable plugs into the hole in the arm. Make sure that the mounting arm is in the horizontal position.



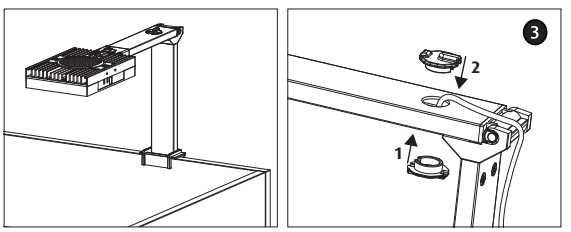
Installation of LED Modules



1. Using the M3 screws provided, lightly Attach the swivel connector to the Hydra 26 HD as shown in the diagram. Replace the fan cover and ensure that the swivel connector is parallel to the top of the aluminum before tightening the screws.



2. Put the swivel connector pins and fixing screw within easy reach of the aquarium. Locate the LED Module in front of the mounting arm and push swivel connector in position. Insert the connector pins to both sides and push until firmly in position. Screw the fixing screw into the top of the connector. Adjust the position of the LED module until it is parallel with the top of the aquarium and tighten the fixing screw. The swivel connector allows rotational adjustment for personal preference of approximately 5 degrees.



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Red Sea

Red Sea

REEFER™ PENINSULA



REFEER™ PENINSULA 500



REFEER™ PENINSULA 500 DLX



REFEER™ PENINSULA 650



REFEER™ PENINSULA 650 DLX


Red Sea
REEFER™ PENINSULA 500
Operation Manual
Assembly Manual

Red Sea

REEFER™ PENINSULA 500 DLX

Operation Manual

Assembly Manual

LED Pendant Manual




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REEFER™ PENINSULA 650
Operation Manual
Assembly Manual

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REEFER™ PENINSULA 650 DLX



Operation Manual

Assembly Manual

LED Pendant Manual

PRINTING INSTRUCTIONS

To print **only** the Aquarium & Cabinet Installation Guide, print pages 71-82

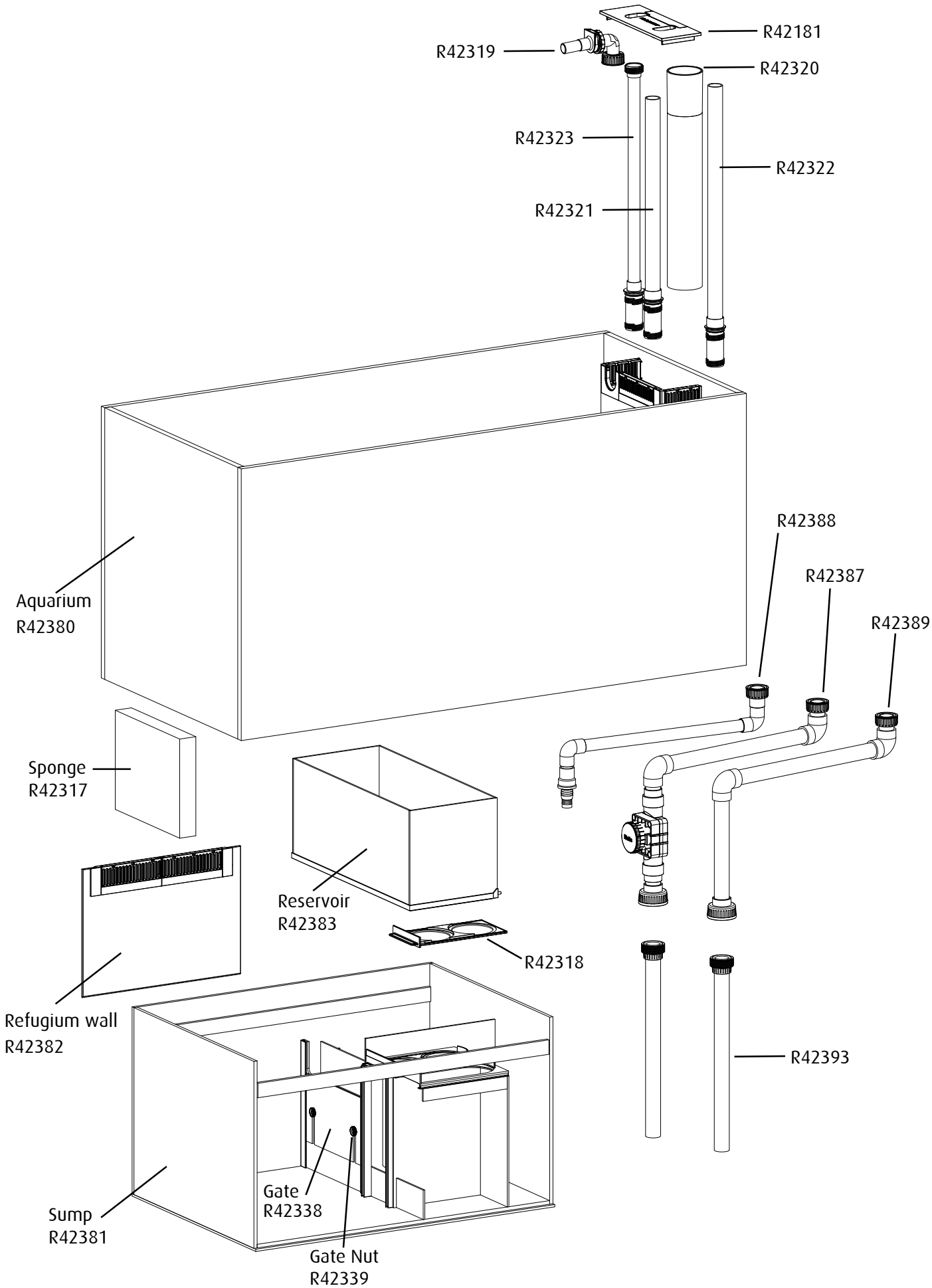
Red Sea REEFER™

Peninsula 500

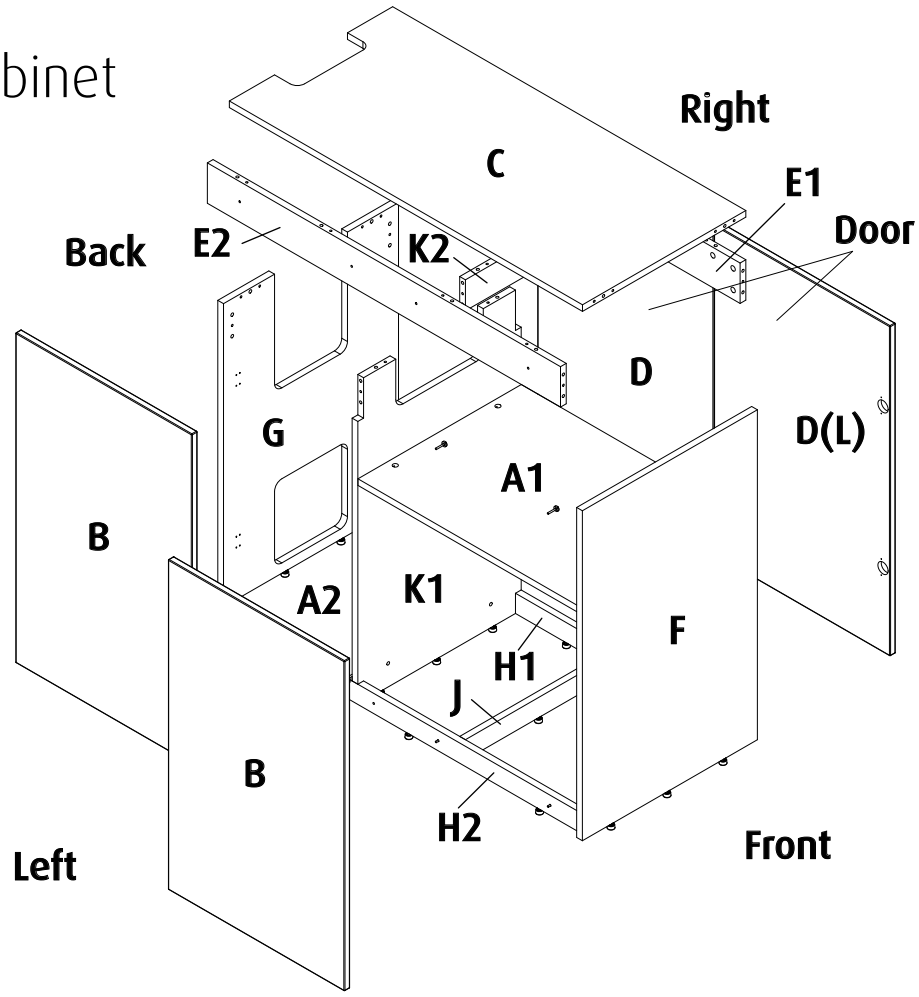
Aquarium & Cabinet Assembly Manual

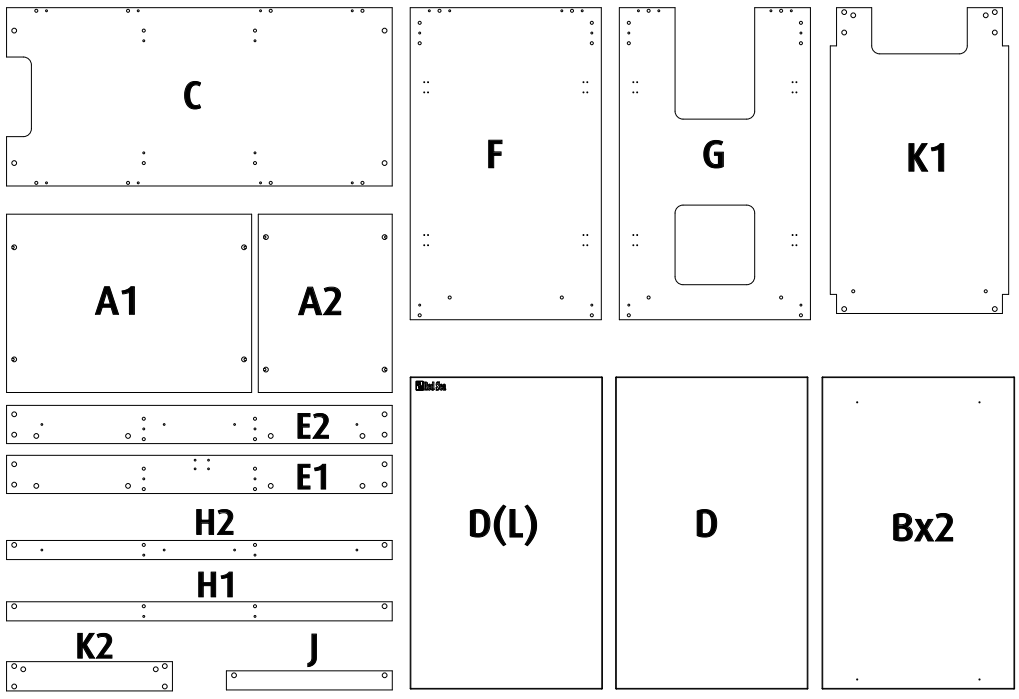
Red Sea

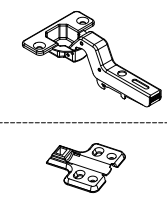
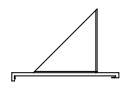
Aquarium Water Management System



Cabinet



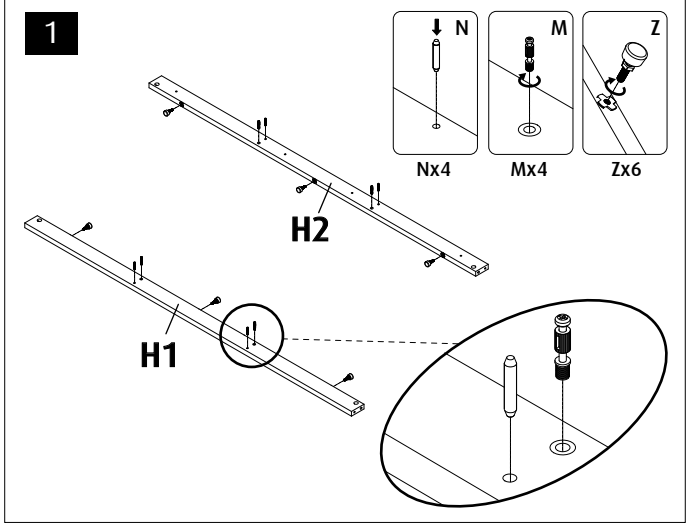


L3 / L1		4
N		36
M		48
P		48
Q		48
S		2
T		2
V1	ST4x16	24
V2	ST3.5x14	4
V3	ST5x35	11
W		8
Y32-25		2
Y25		1
Z		16

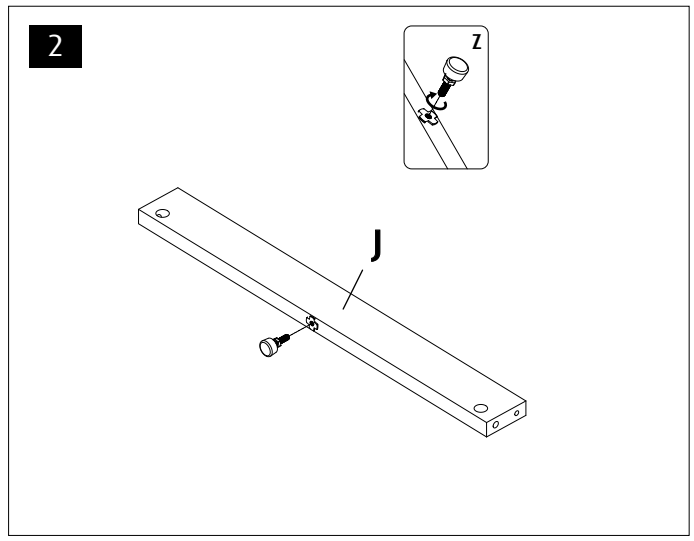
	P500	Part Description
A1	6501B	Cabinet Bottom Sump
A2	6502B	Cabinet Bottom Chiller
B - Black	R42403	Cabinet Side Panel - Black
B - White	R42404	Cabinet Side Panel - White
C	6500B	Cabinet Top
D - Black	R42401	Cabinet Door - Black
D – White	R42402	Cabinet Door - White
E1	6506B	Cabinet Front Upper - Door Side

	P500	Part Description
E2	6506B-1	Cabinet Front Upper - Panel Side
F	6431-B/W	Cabinet Front – Black/White
G	6430-B/W	Cabinet Rear – Black/White
H1	6507B	Cabinet Front Lower – Door Side
H2	6508B	Cabinet Front Lower – Panel Side
J	6504B	Cabinet Base Support
K1	6503B	Cabinet Internal Wall
K2	6505B	Cabinet Internal Support

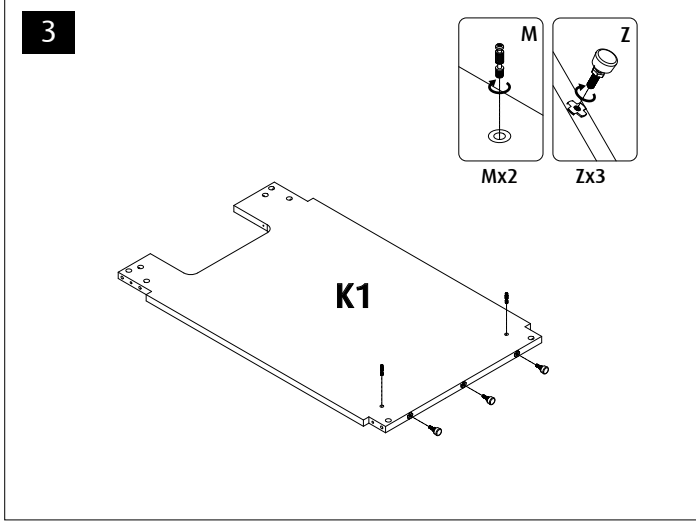
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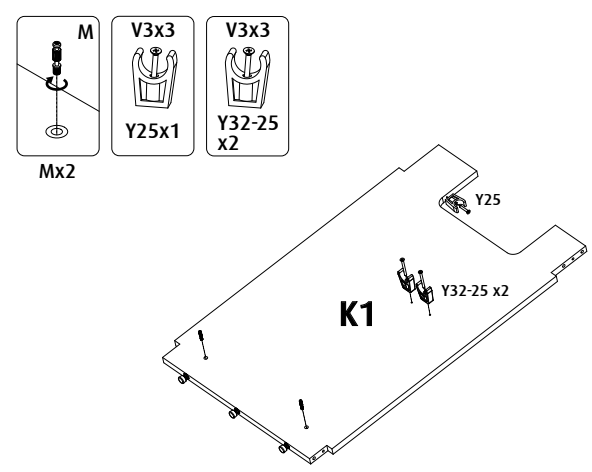

N
M
Z
Nx4
Mx4
Zx6
H2
H1

2

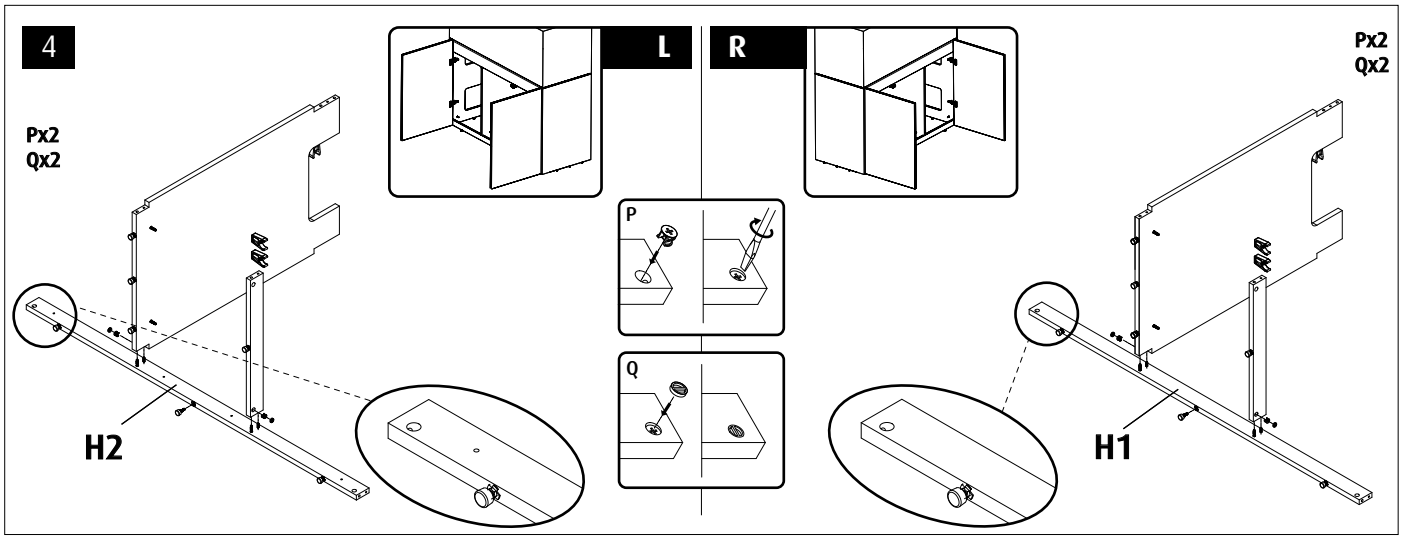

Z
J

3

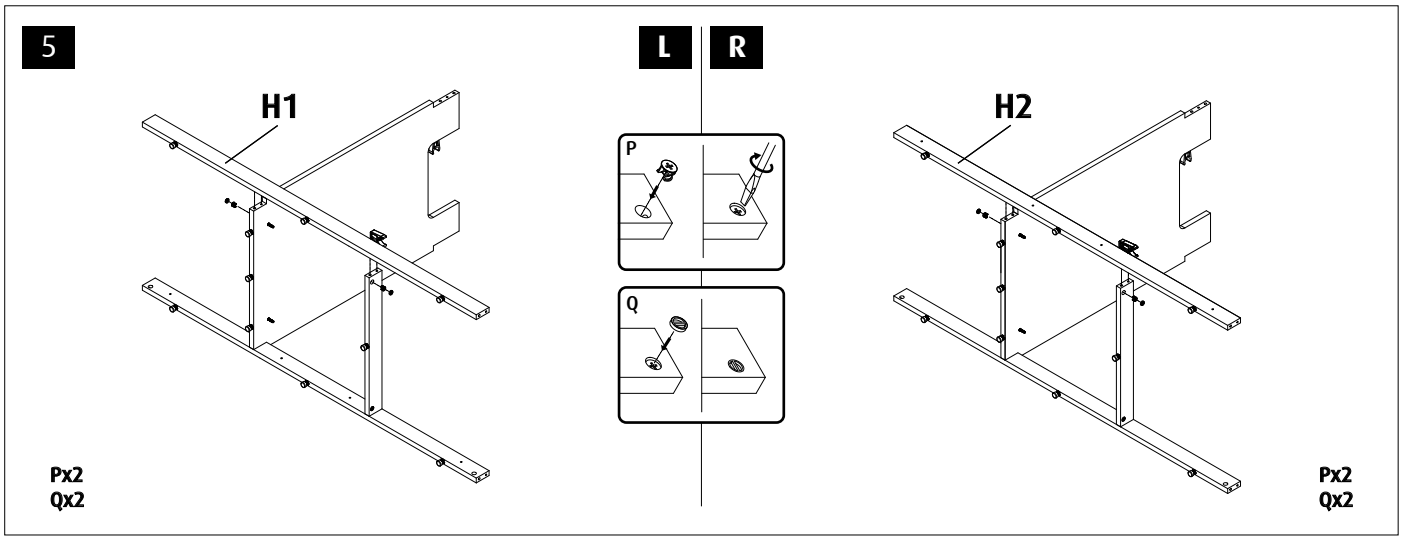

M
Z
Mx2
Zx3
K1


M
V3x3
V3x3
Y25x1
Y32-25 x2
Mx2
Y25
Y32-25 x2
K1

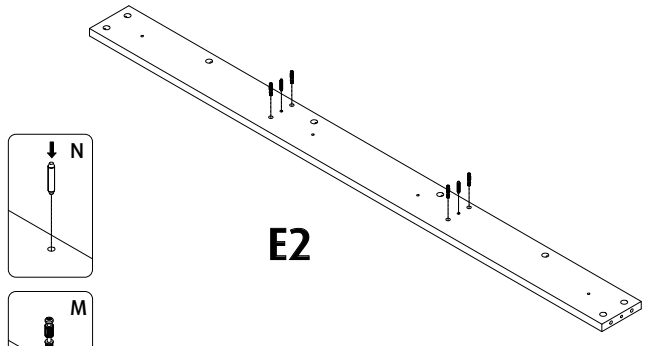
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L
R
Px2
Qx2
P
Q
H2
H1
Px2
Qx2

5

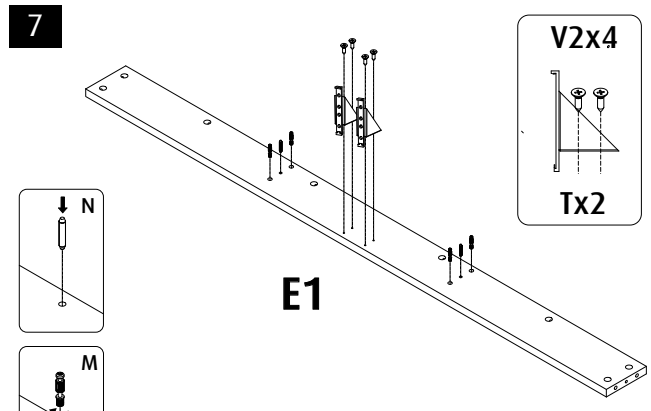

L
R
H1
H2
P
Q
Px2
Qx2
Px2
Qx2

6



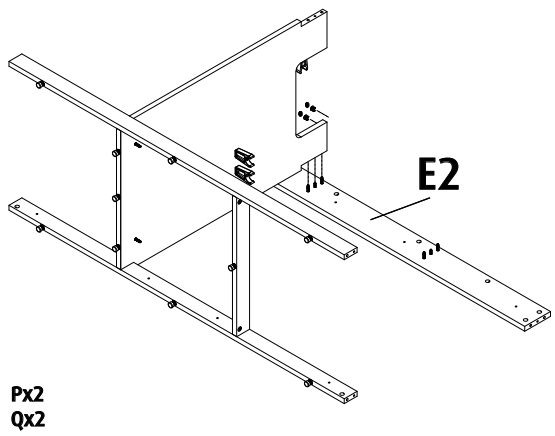
Nx2
Mx4

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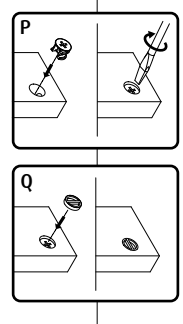
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Mx4

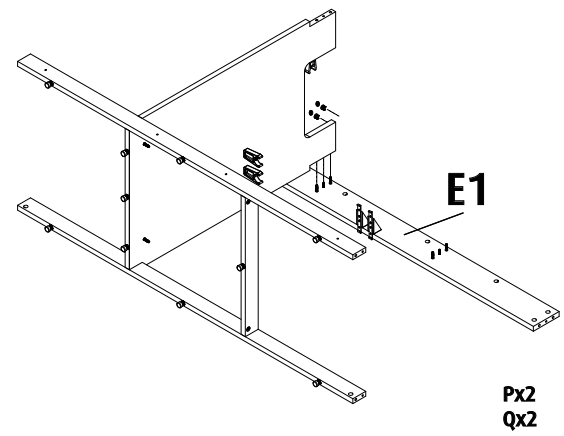
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Px2
Qx2

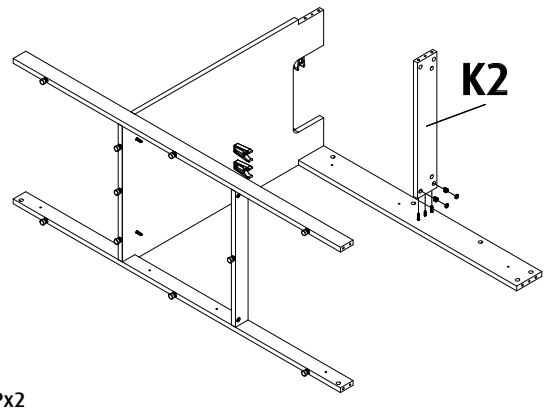
L R





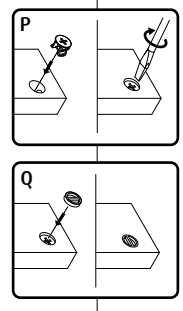
Px2
Qx2

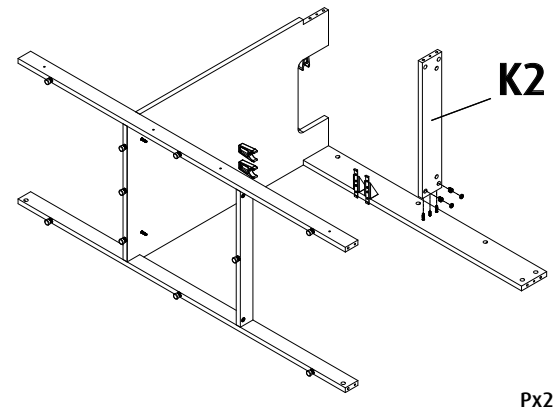
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Px2
Qx2

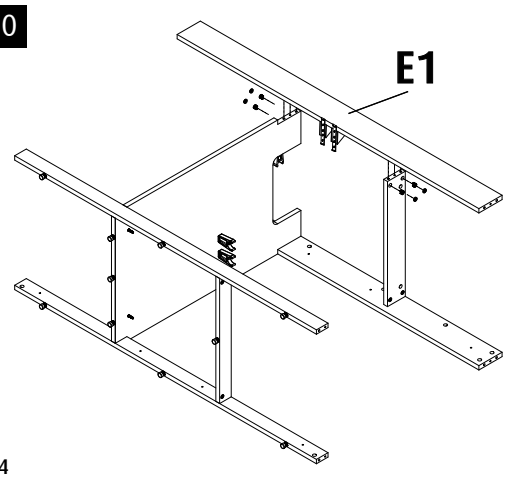
L R





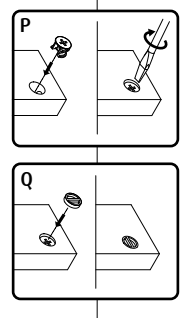
Px2
Qx2

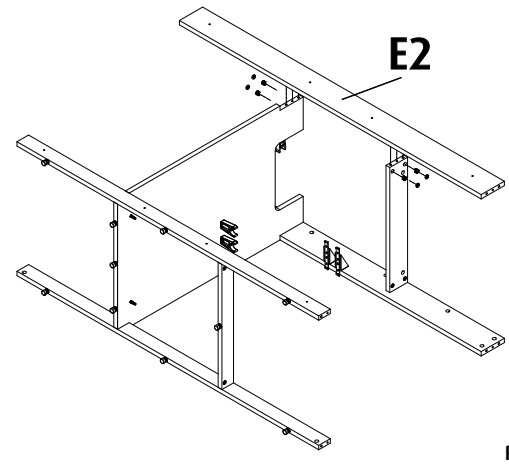
10



Px4
Qx4

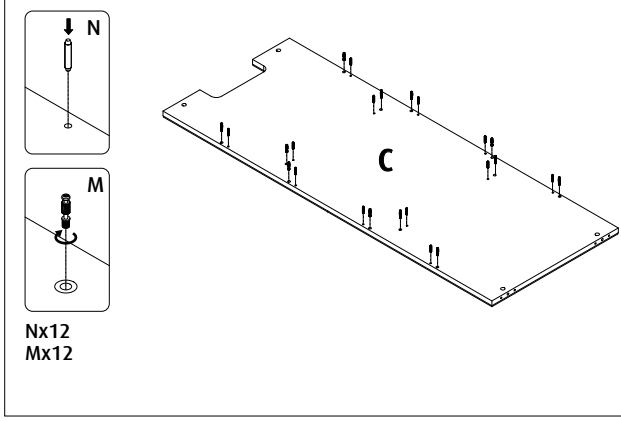
L R





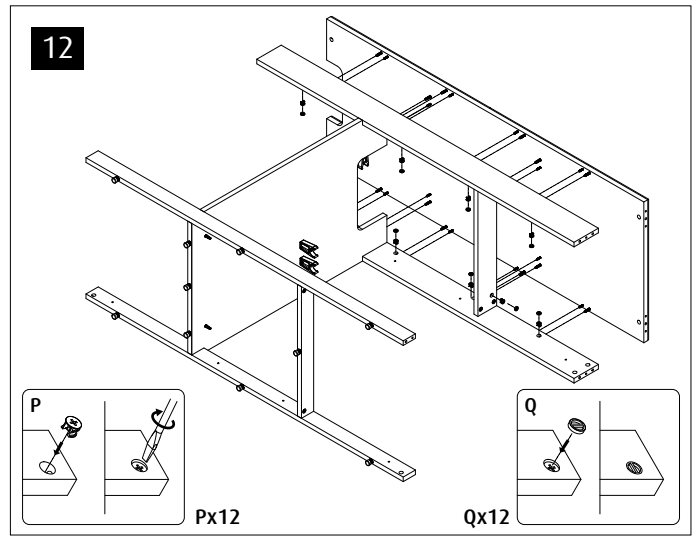
Px4
Qx4

11



Nx12
Mx12

12



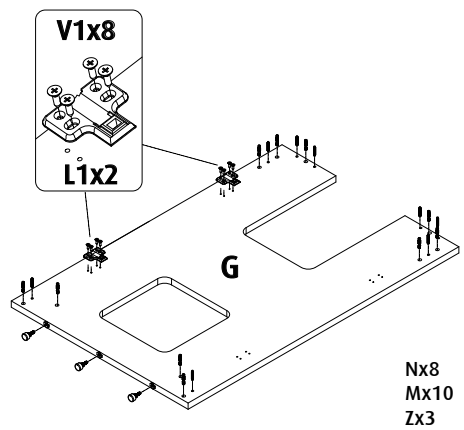
Px12

Qx12

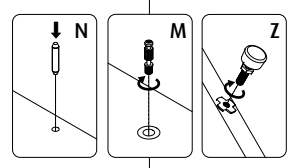
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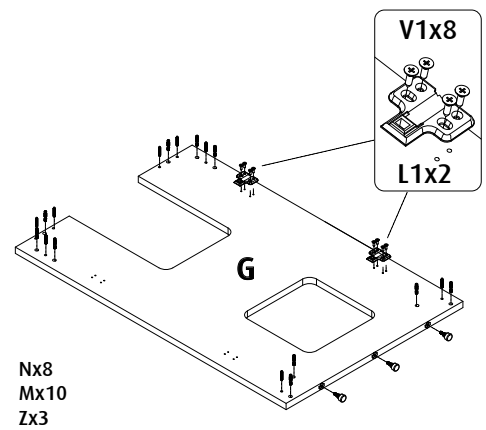
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R



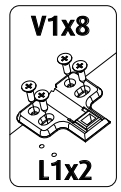
Nx8
Mx10
Zx3





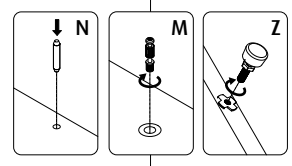
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Zx3

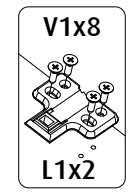
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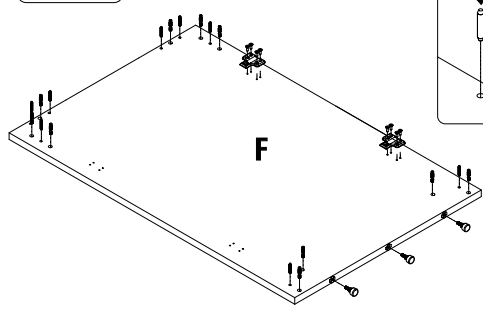


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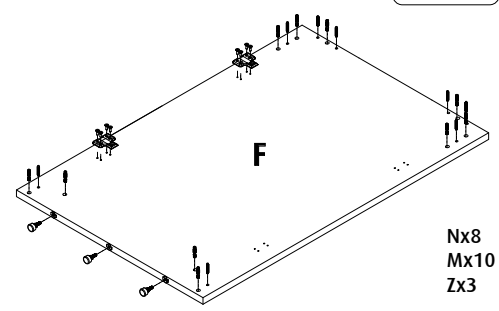
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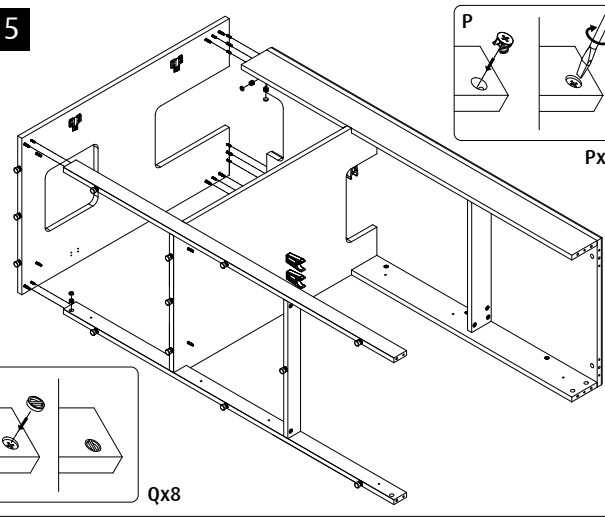


Nx8
Mx10
Zx3



Nx8
Mx10
Zx3

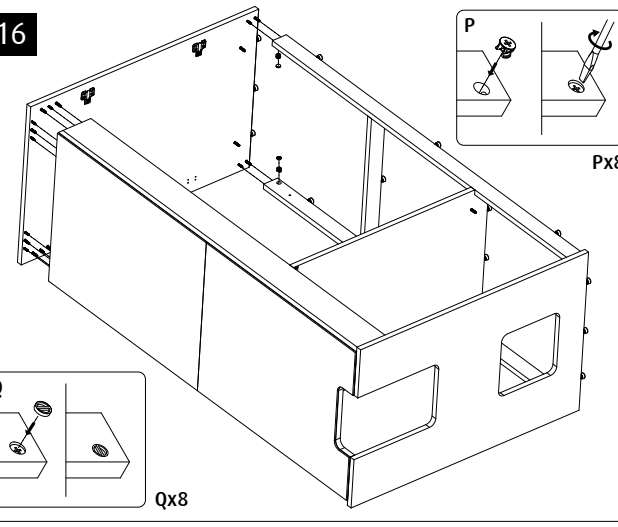
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Px8

Qx8

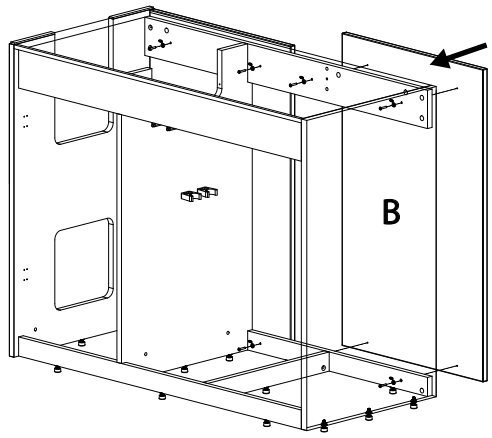
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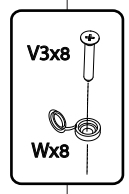
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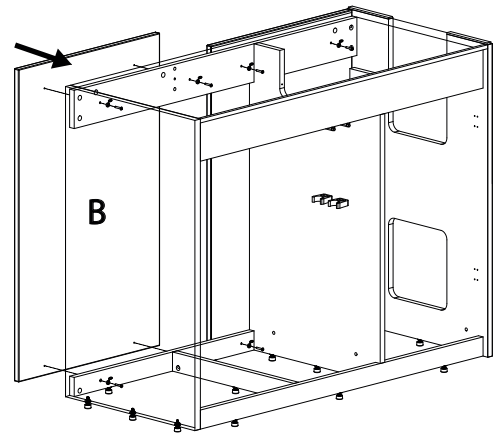
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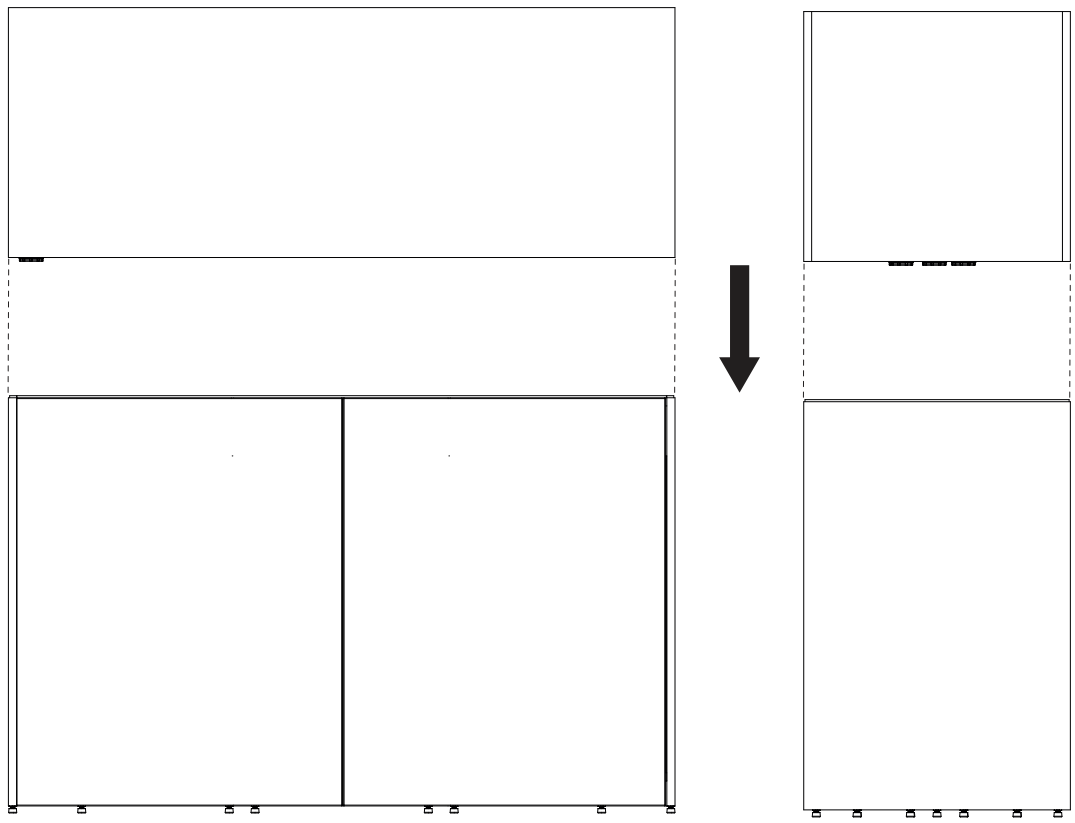


L R

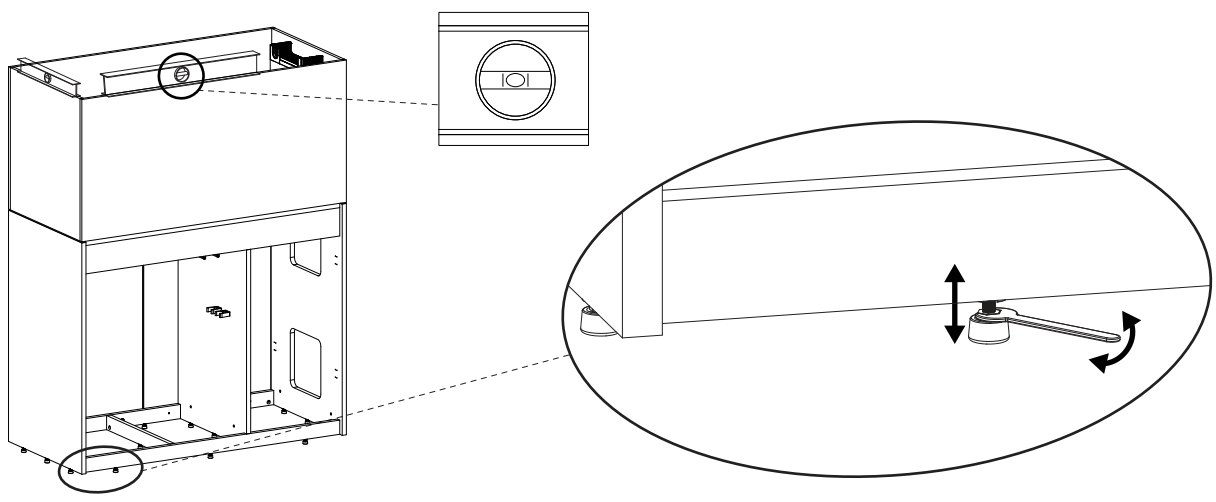




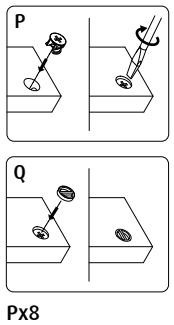
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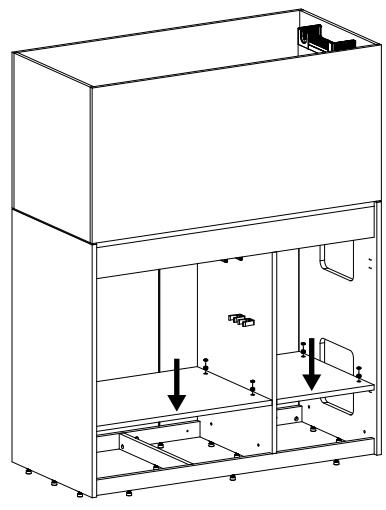
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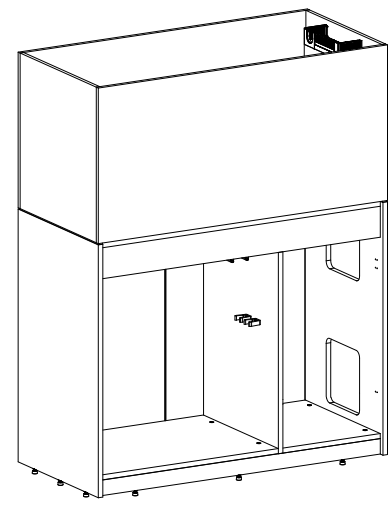


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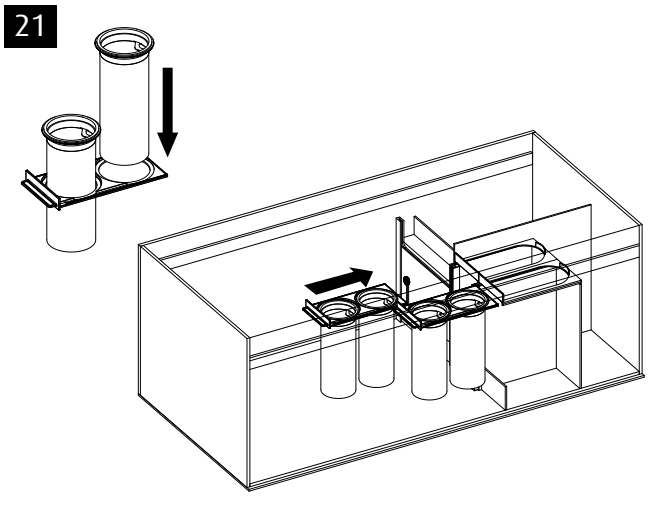


Px8
Qx8

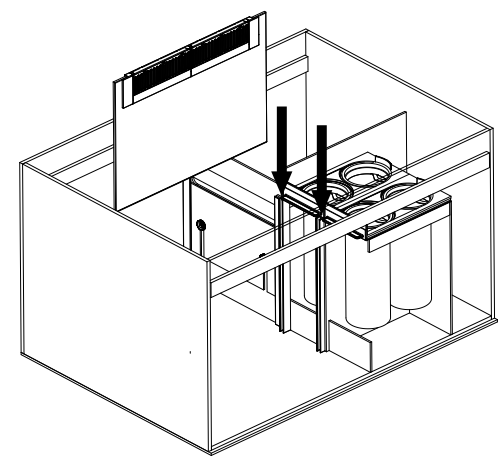




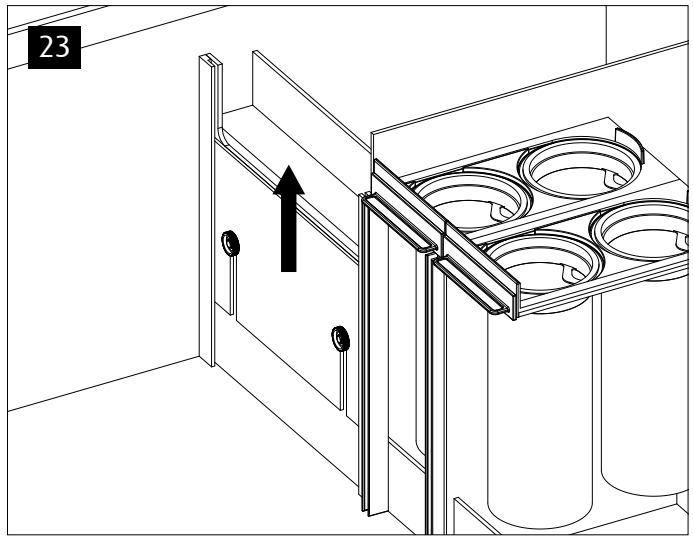
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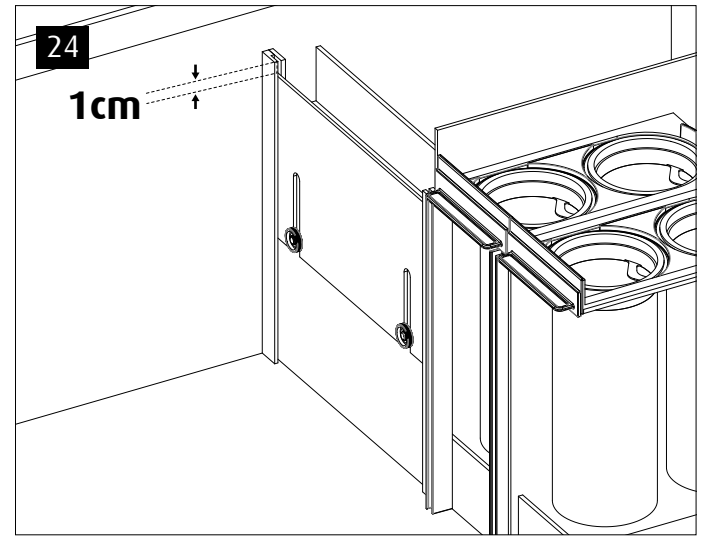
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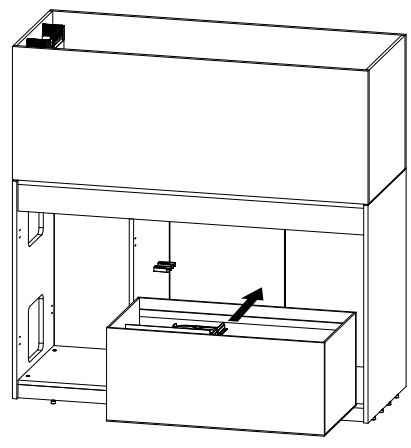
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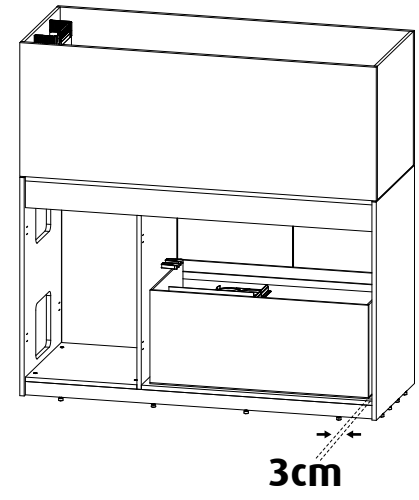


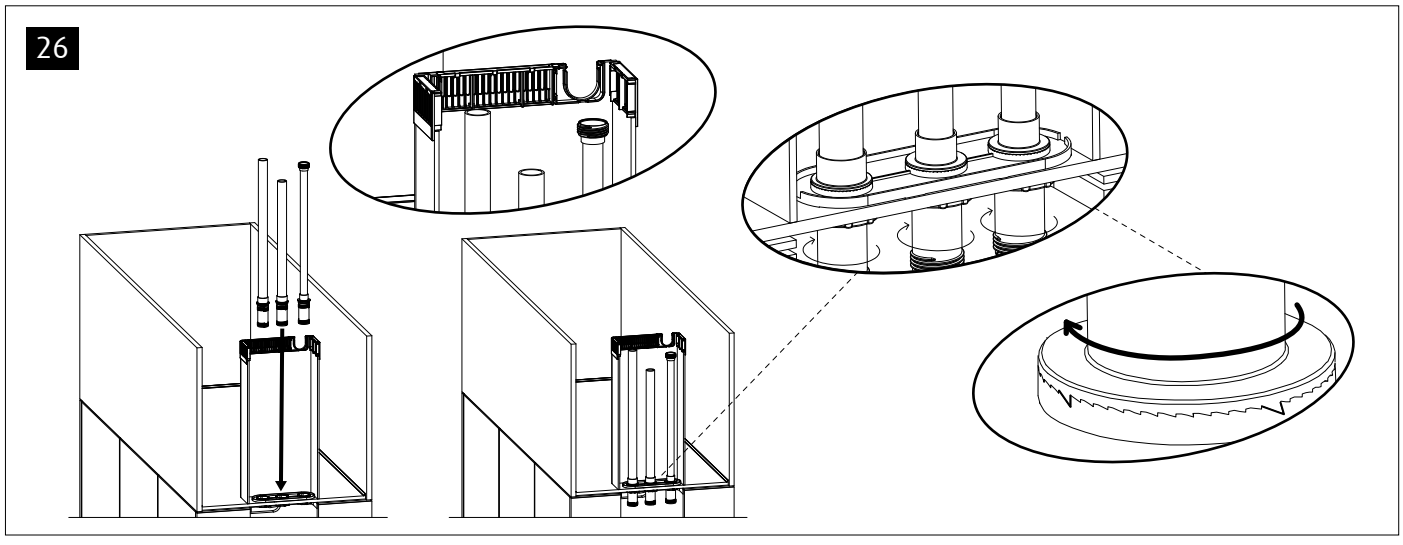
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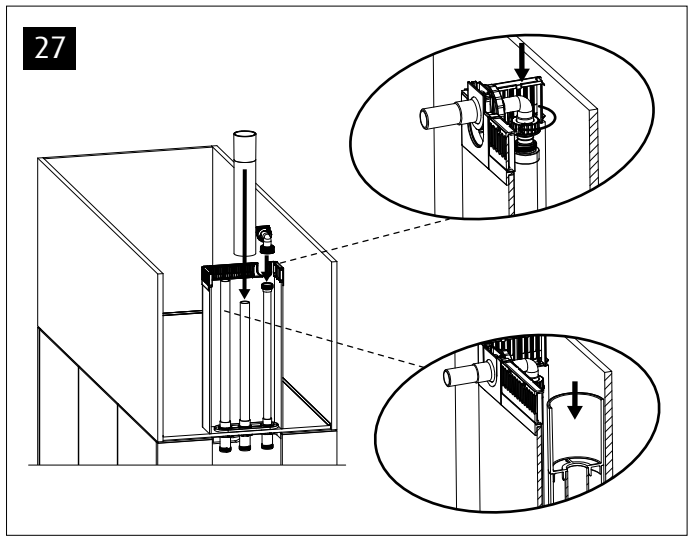


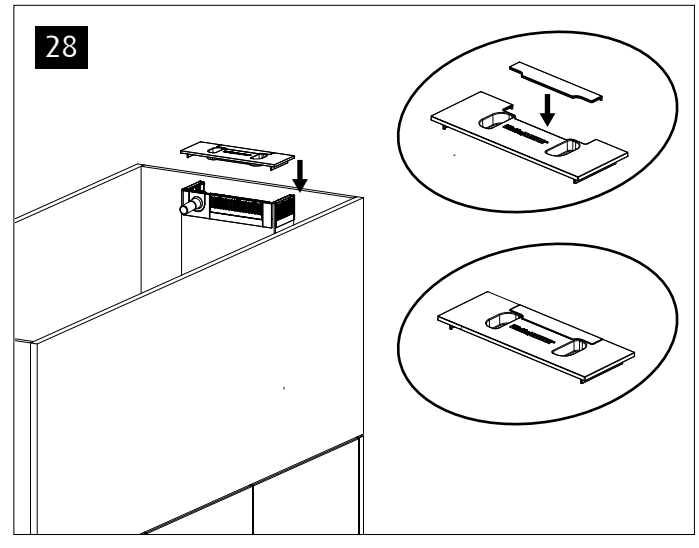
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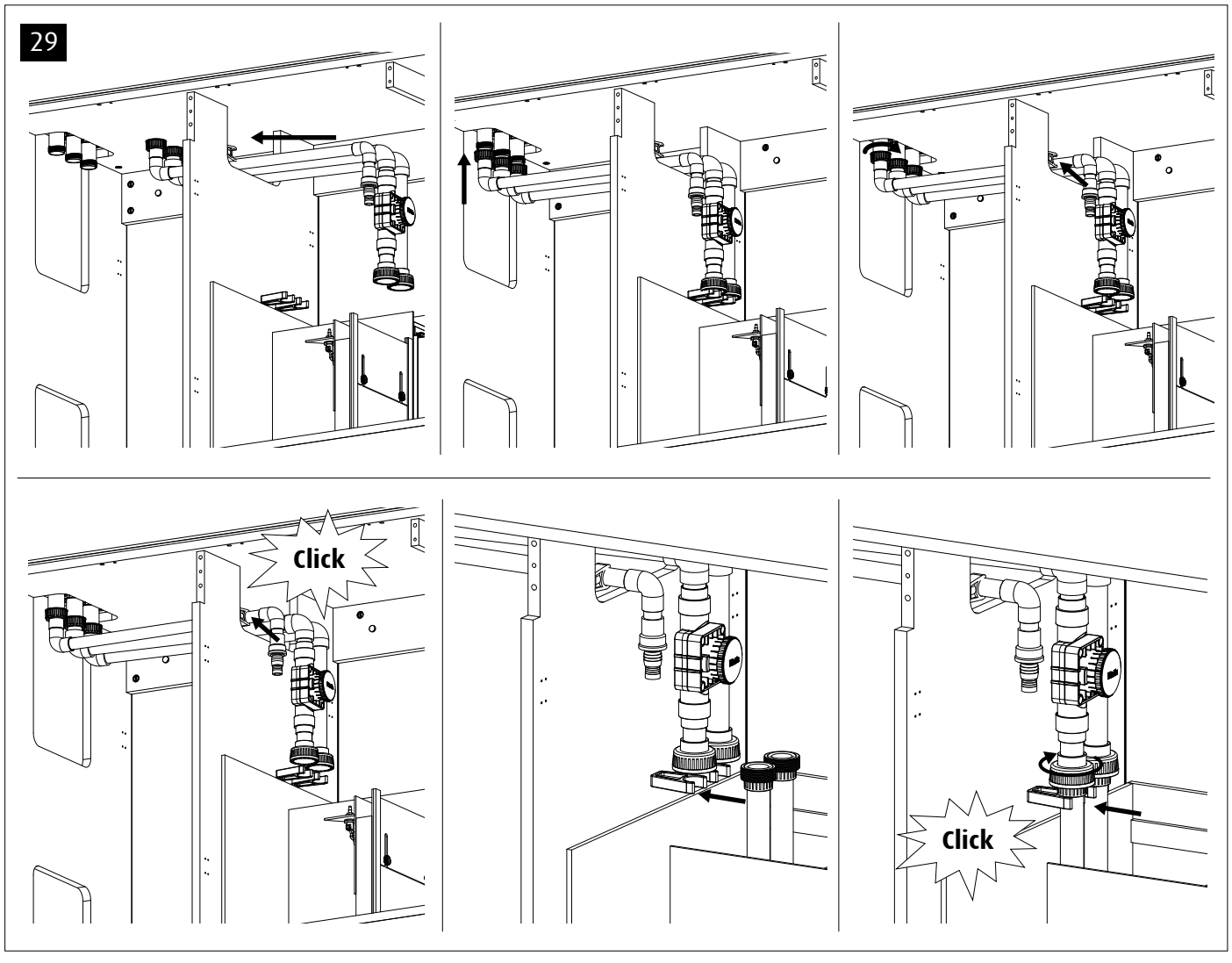




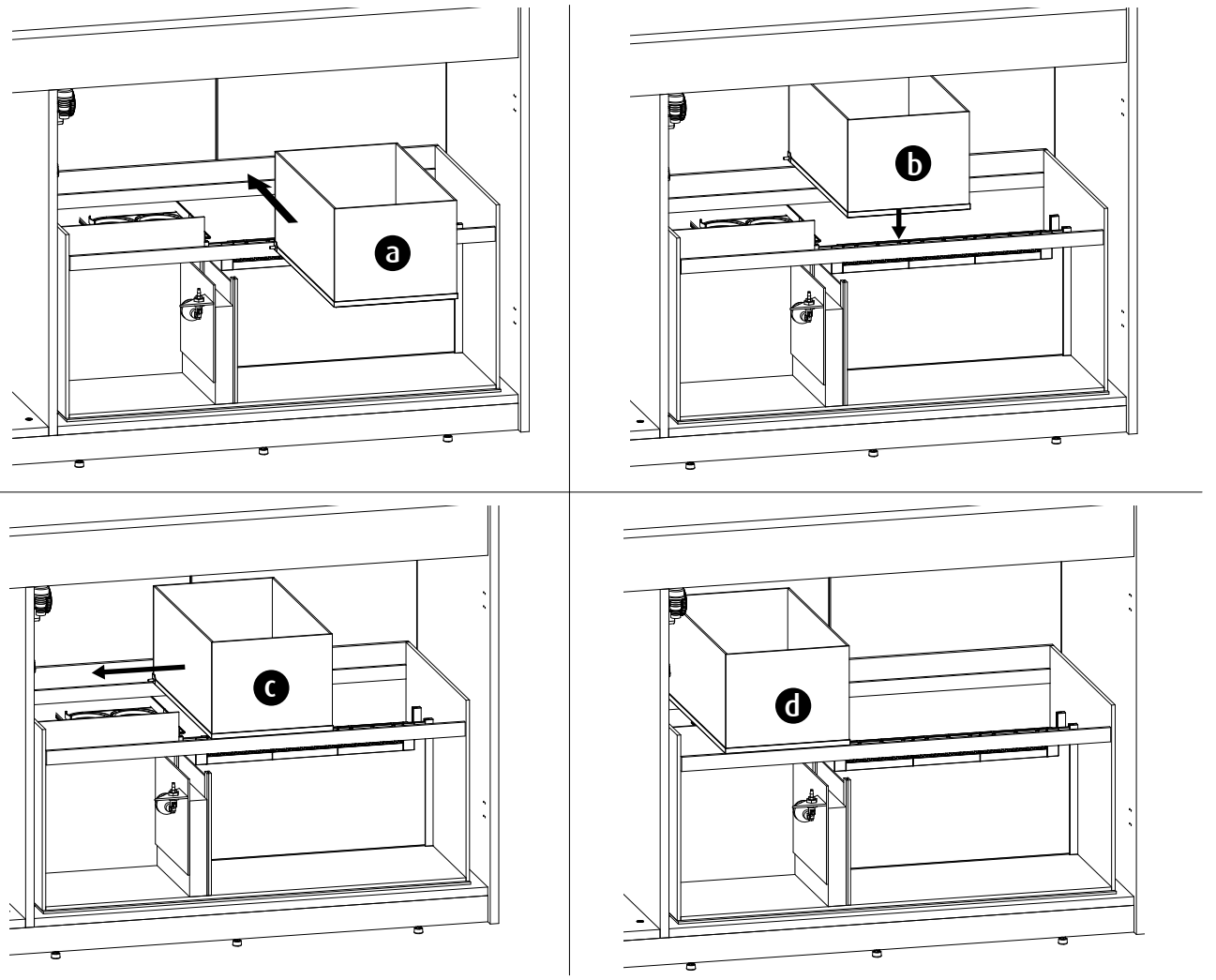

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27


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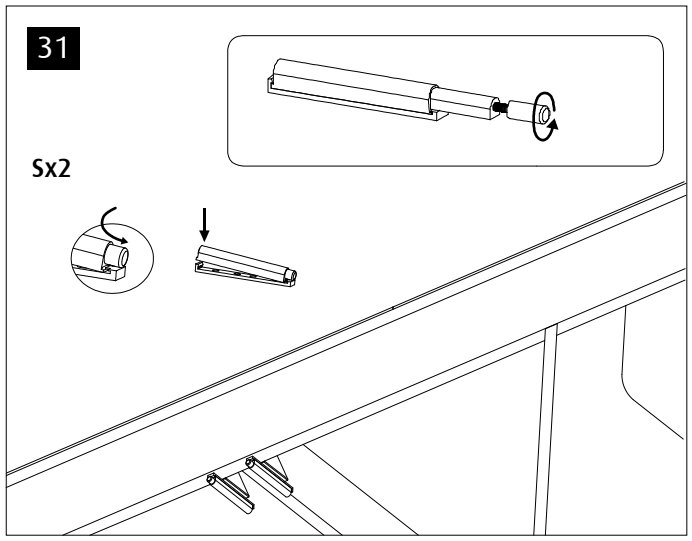

29
Click
Click

30

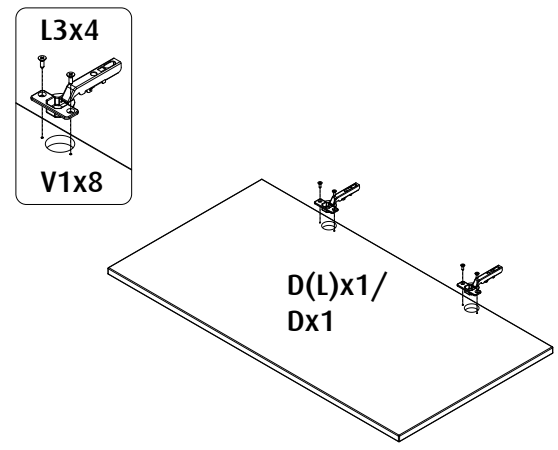


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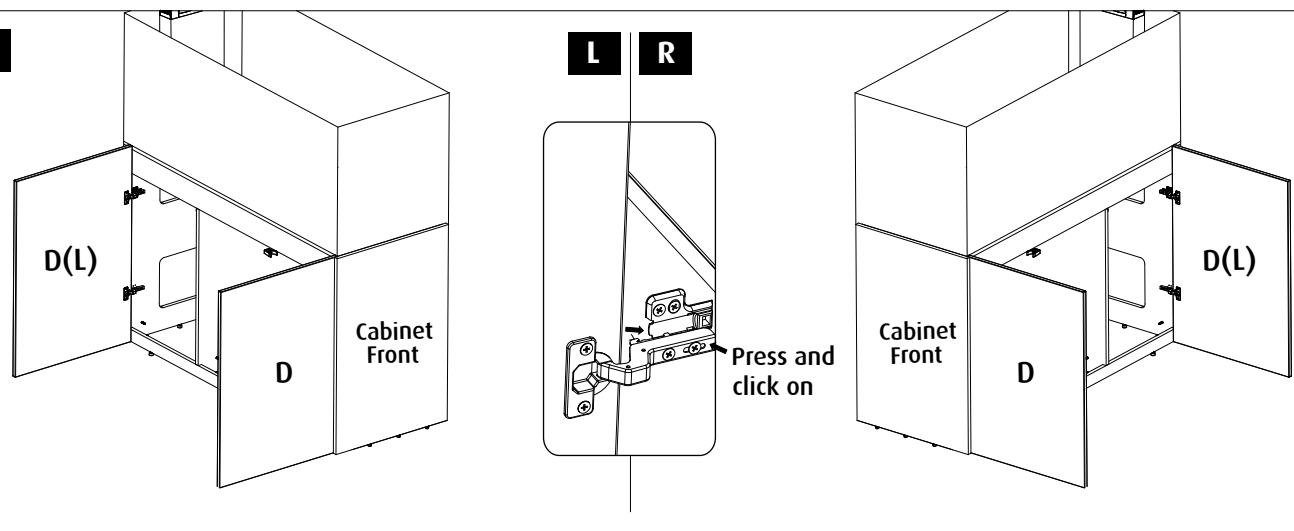
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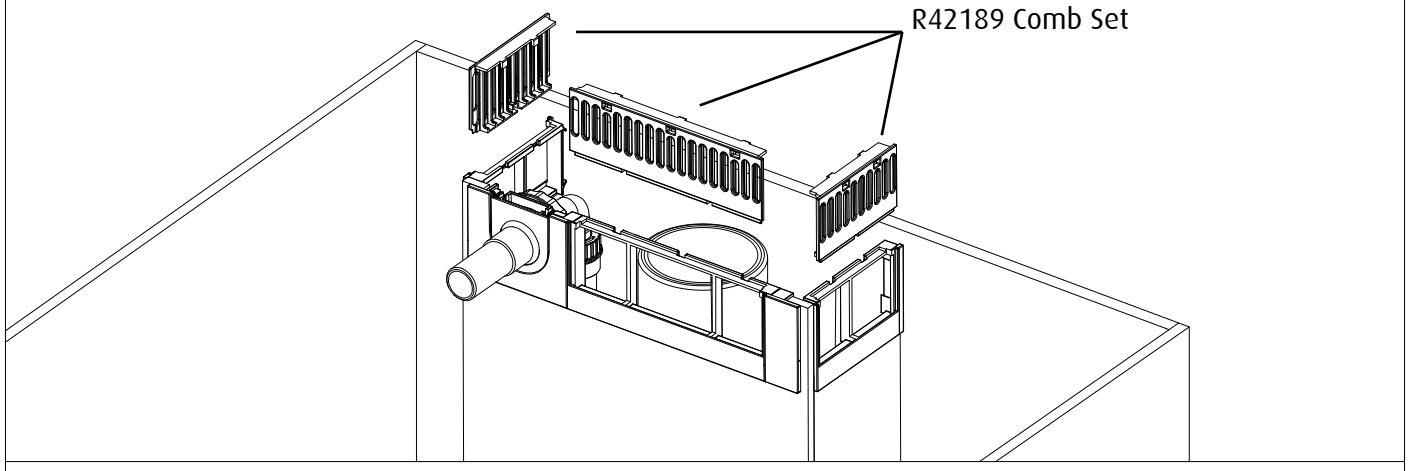


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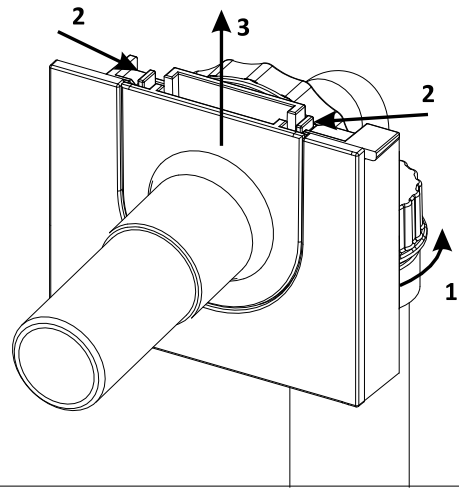


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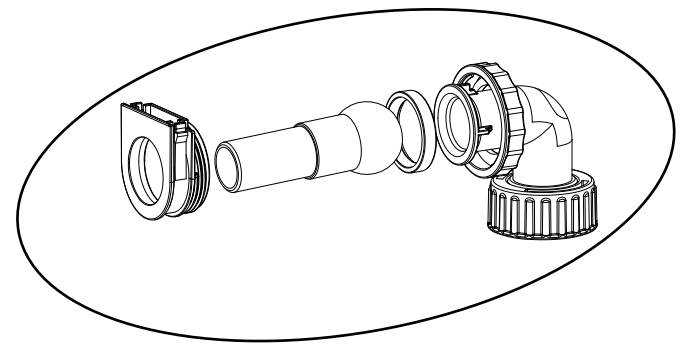
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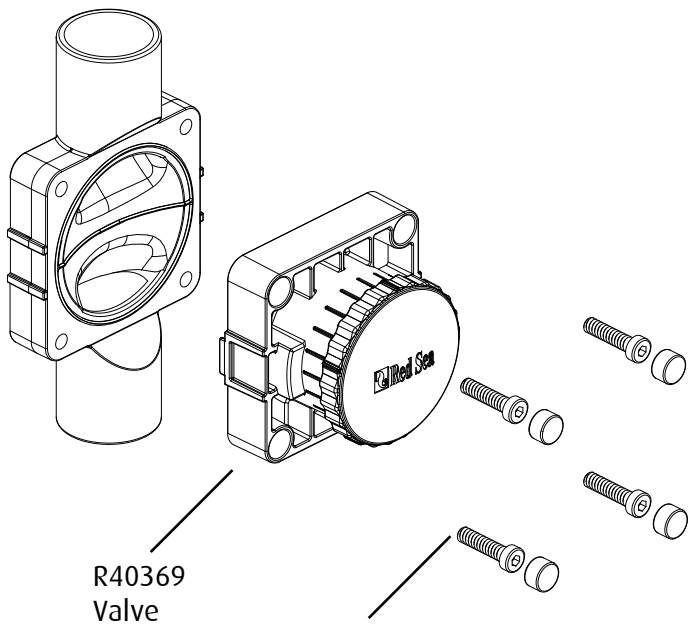
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R42319 Outlet Assembly



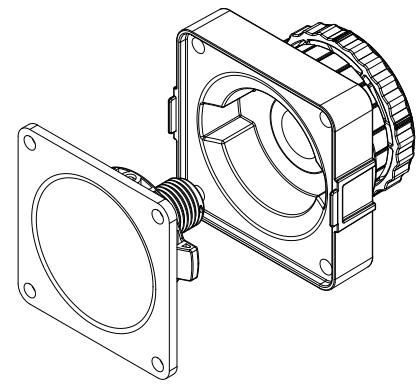
C 1



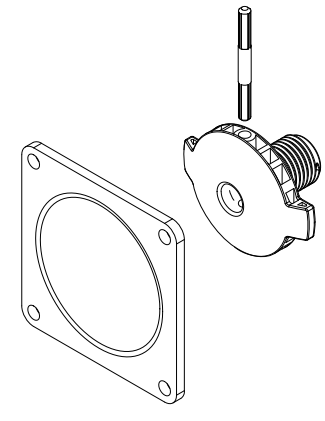
R40369
Valve

R40371
Screw Set

2



3



R40370
Diaphragm

REEFER PENINSULA 500

6426_ Manual P500 - Assembly _v17a

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PRINTING INSTRUCTIONS

To print **only** the Aquarium & Cabinet Installation Guide, print pages 83-94.

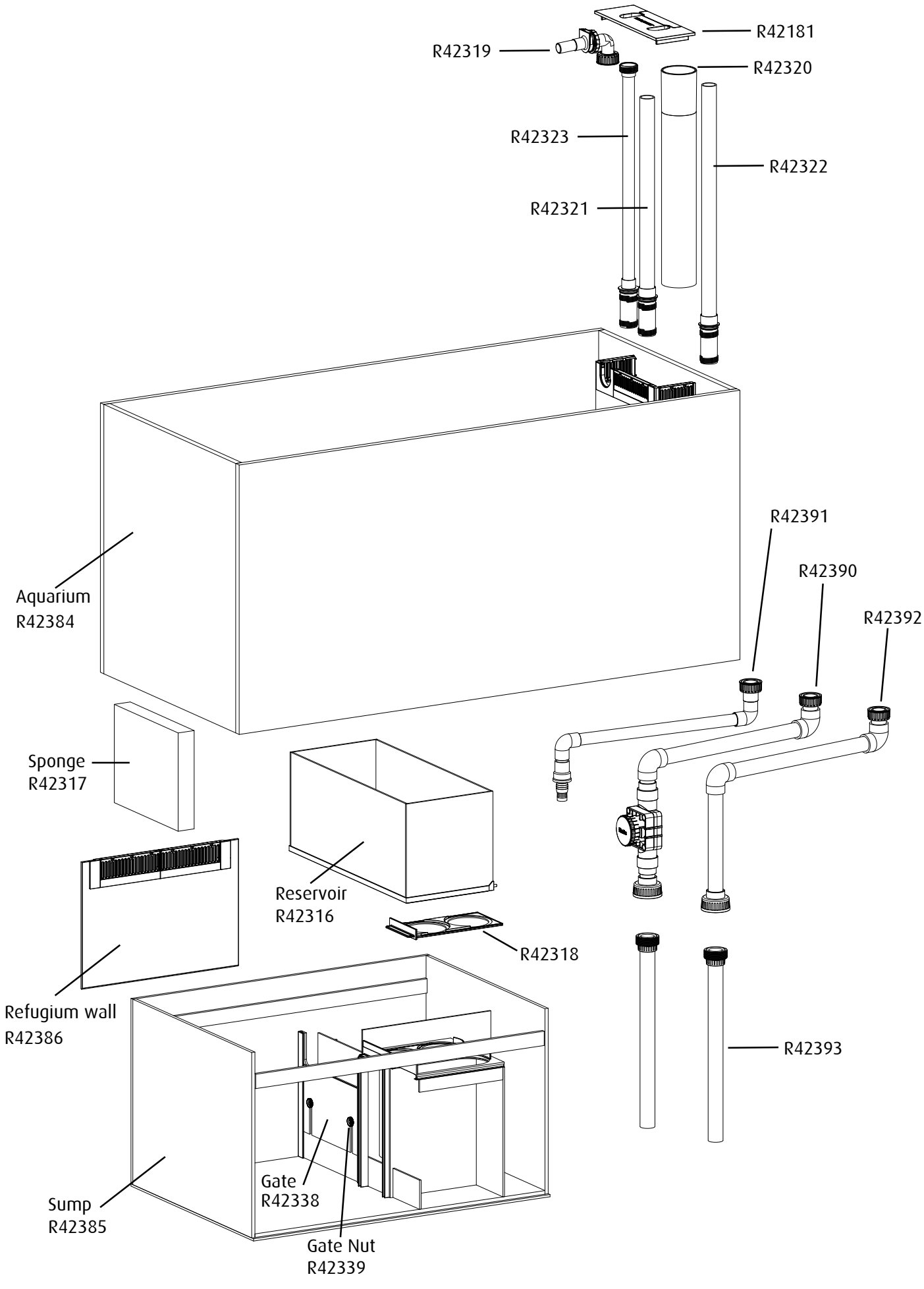
Red Sea REEFER™

Peninsula 650

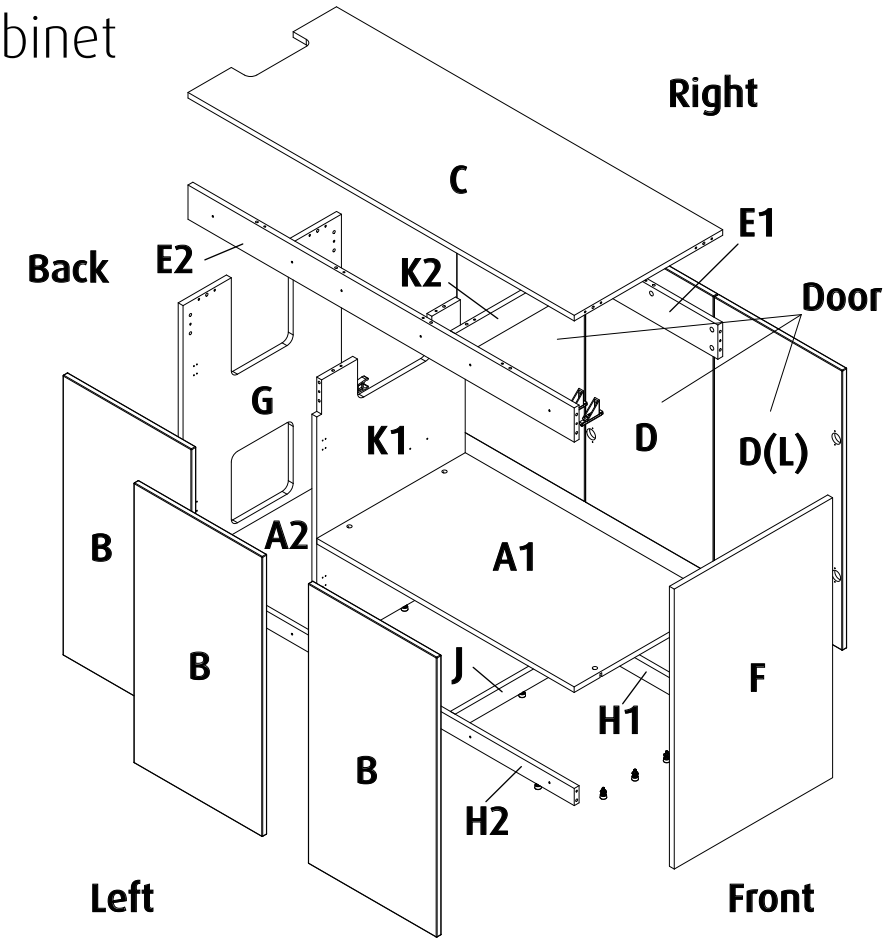
Aquarium & Cabinet Assembly Manual

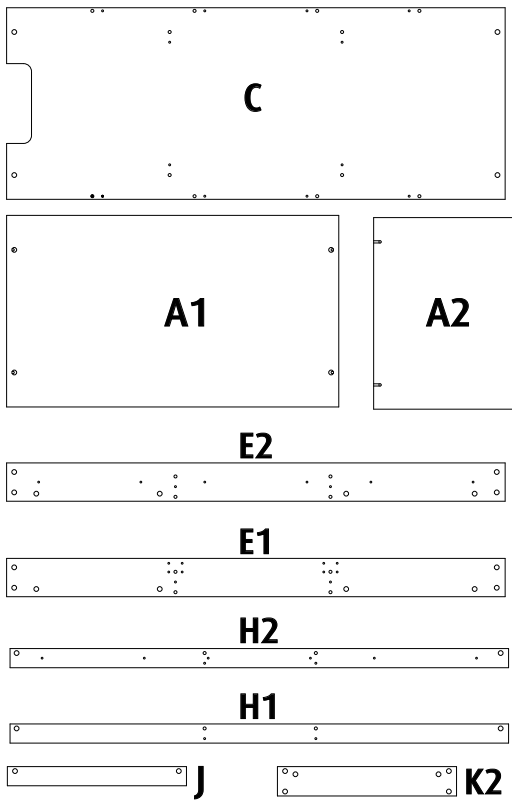
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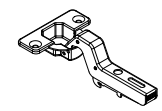
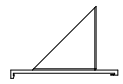
Aquarium Water Management System



Cabinet

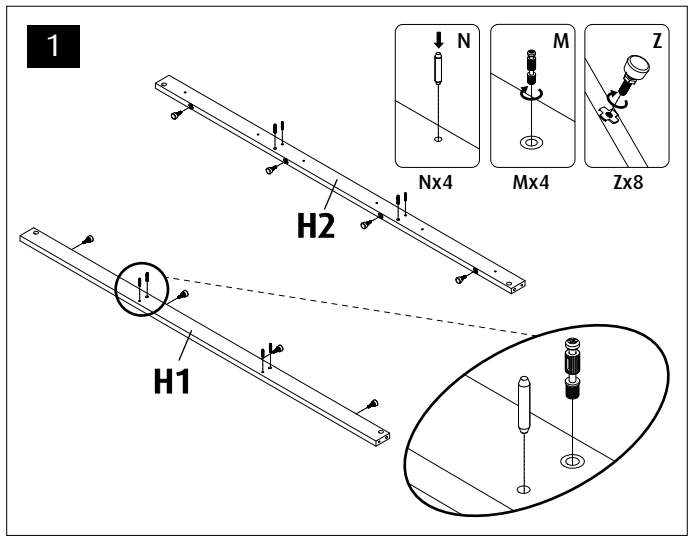


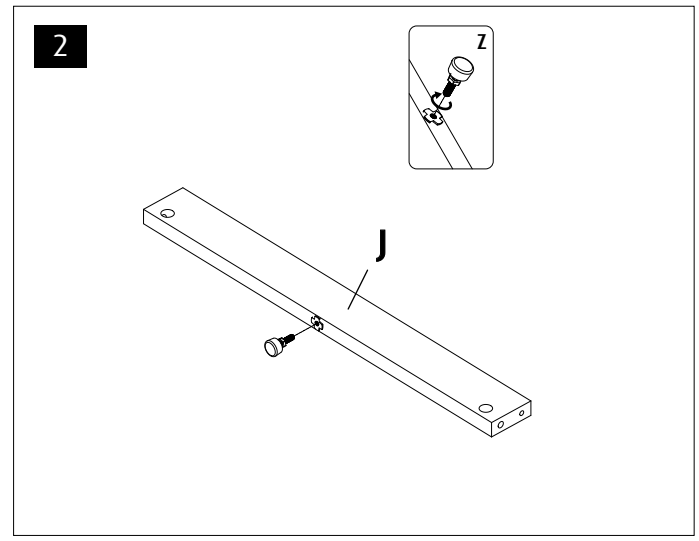


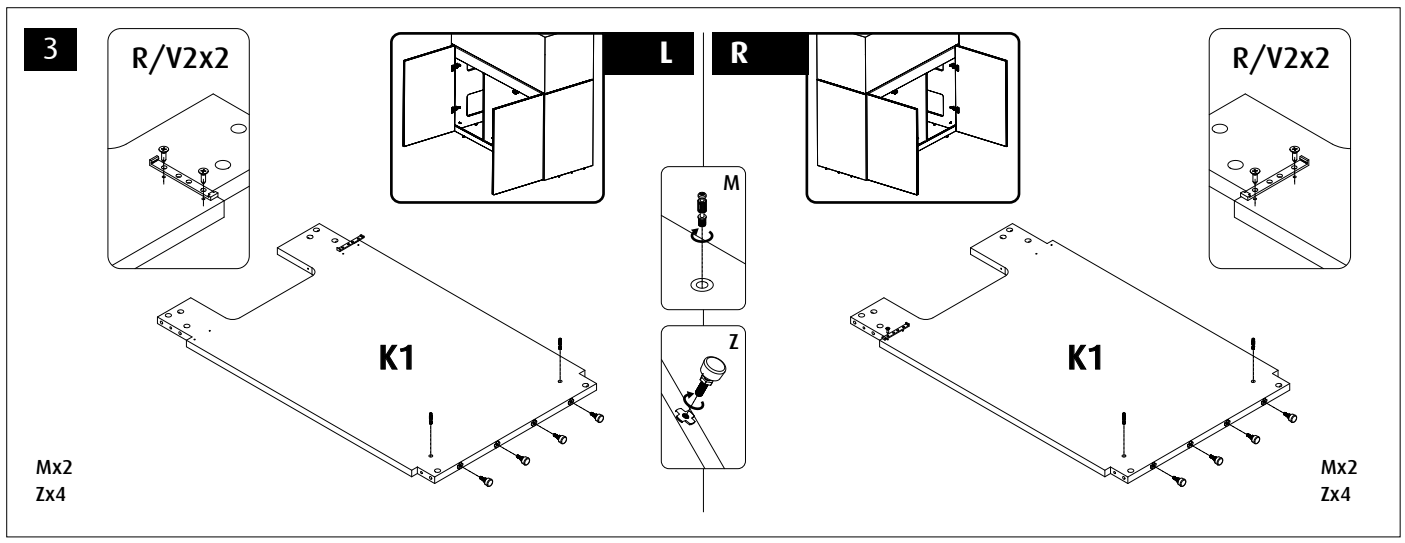
L3 		6
L1 		
N 		36
M 		48
P 		48
Q 		48
R		1
S 		3
T 		2
V1 	ST4x16	36
V2 	ST3.5x14	6
V3 	ST5x35	13
V4 	ST5x60	2
W 		12
Y32-48 		2
Y25 		1
Z 		21

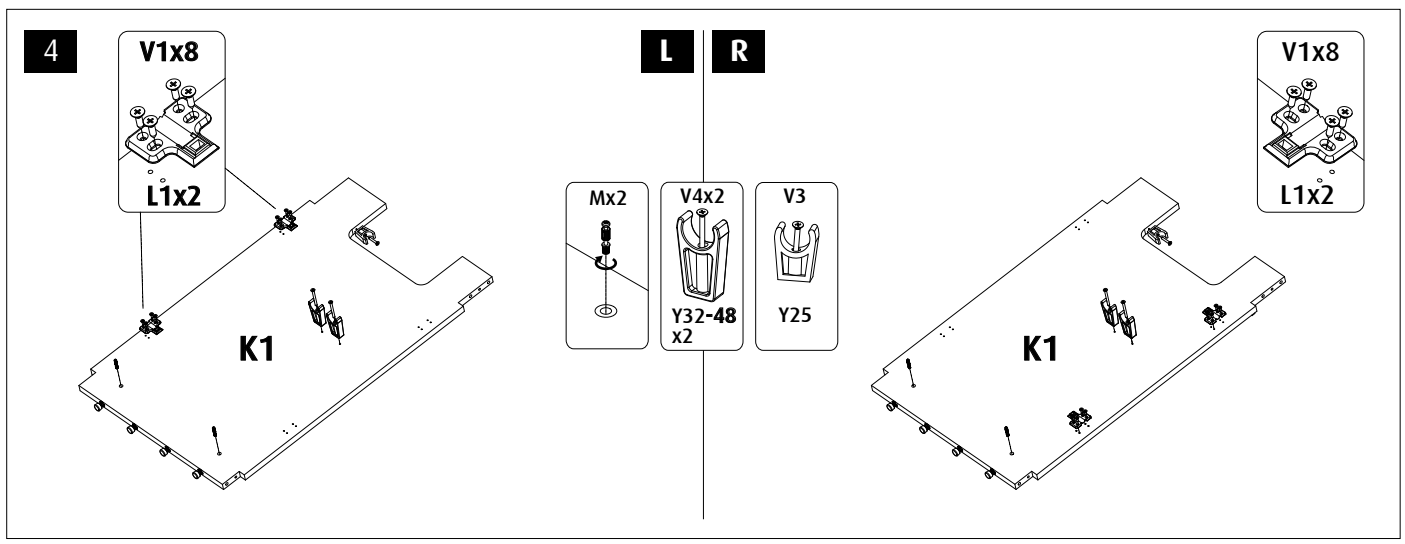
	P650	Part Description
A1	6511B	Cabinet Bottom Sump
A2	6512B	Cabinet Bottom Chiller
B - Black	R42407	Cabinet Side Panel - Black
B - White	R42408	Cabinet Side Panel - White
C	6510B	Cabinet Top
D - Black	R42405	Cabinet Door - Black
D – White	R42406	Cabinet Door - White
E1	6516B	Cabinet Front Upper - Door Side

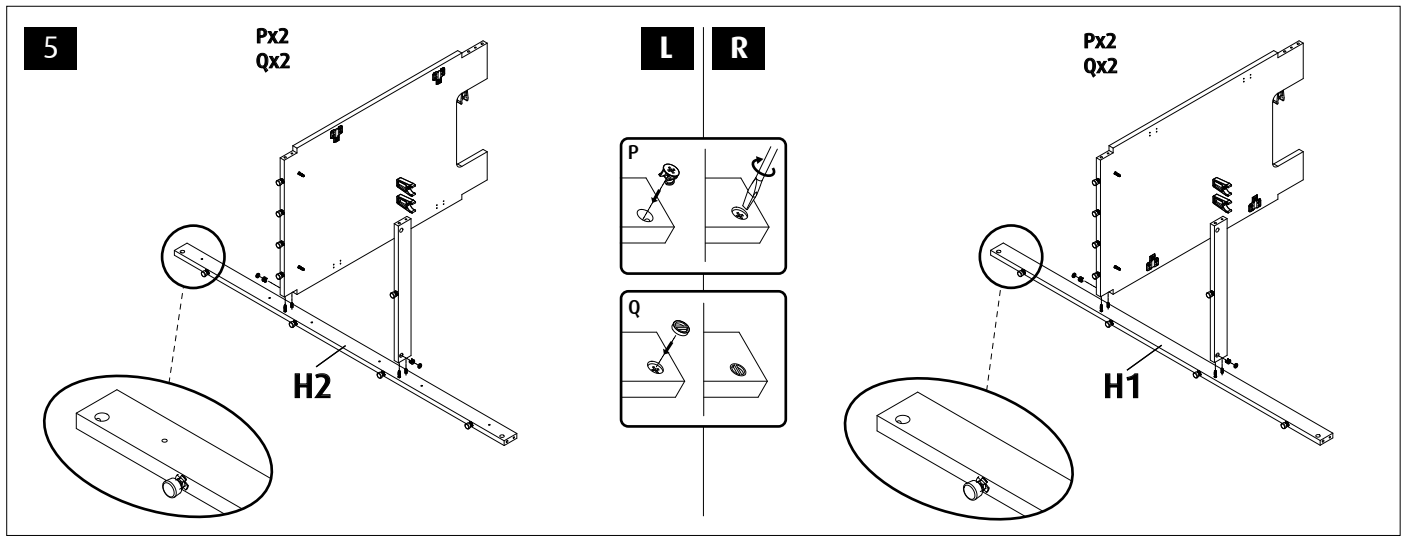
	P650	Part Description
E2	6516B-1	Cabinet Front Upper - Panel Side
F	6437-B/W	Cabinet Front – Black/White
G	6436-B/W	Cabinet Rear – Black/White
H1	6517B	Cabinet Front Lower – Door Side
H2	6518B	Cabinet Front Lower – Panel Side
J	6514B	Cabinet Base Support
K1	6513B	Cabinet Internal Wall
K2	6515B	Cabinet Internal Support


1
N
M
Z
Nx4
Mx4
Zx8
H2
H1

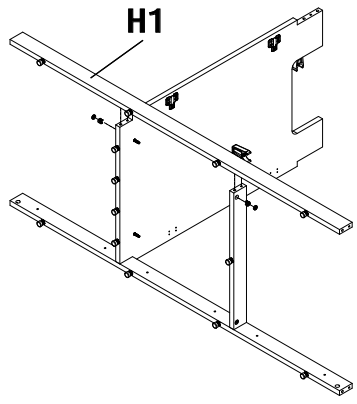

2
Z
J


3
R/V2x2
L
R
M
Z
K1
Mx2
Zx4


4
V1x8
L1x2
L
R
Mx2
V4x2
Y32-48
x2
V3
Y25
K1

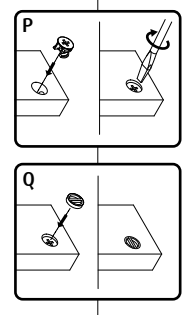

5
Px2
Qx2
L
R
P
Q
H2
H1

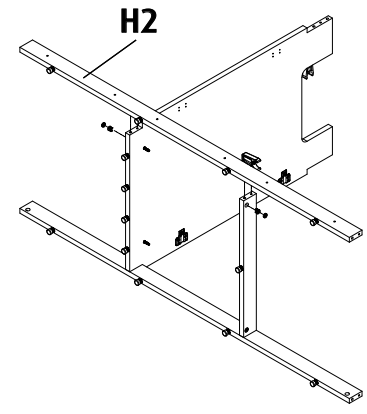
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Px2
Qx2

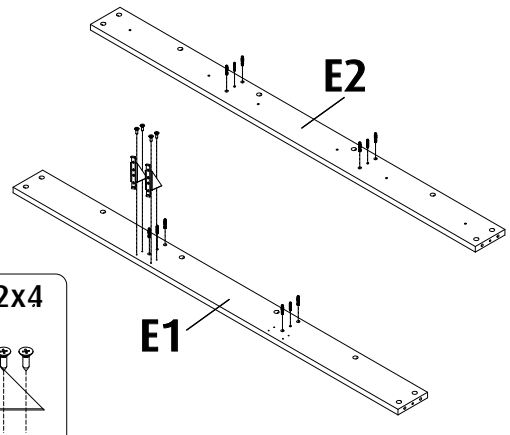
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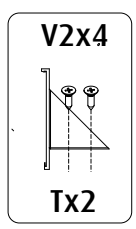




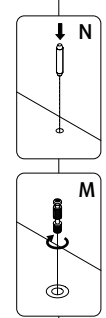
Px2
Qx2

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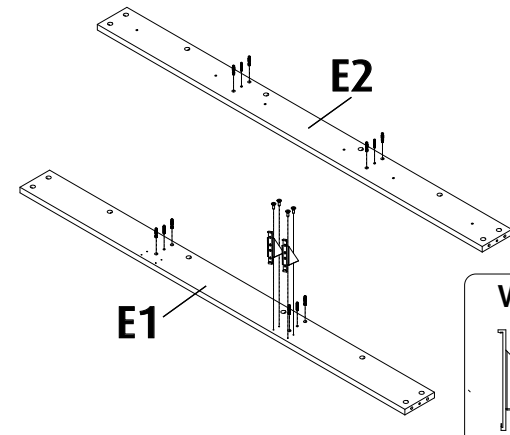


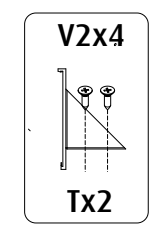
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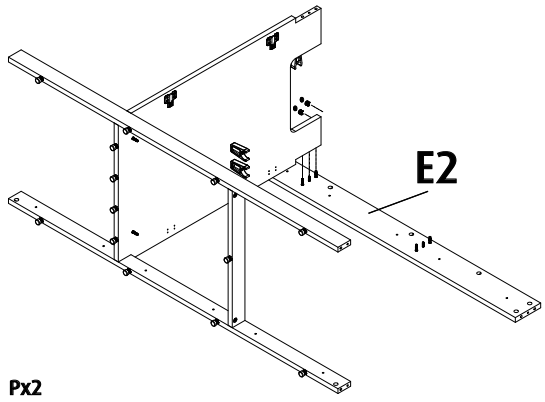
Nx4
Mx8

Nx4
Mx8



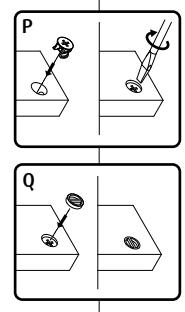


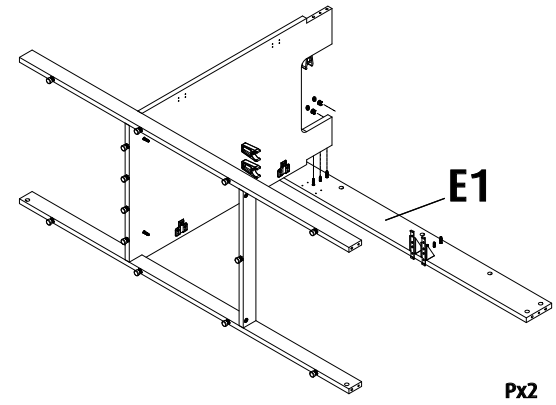
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Px2
Qx2

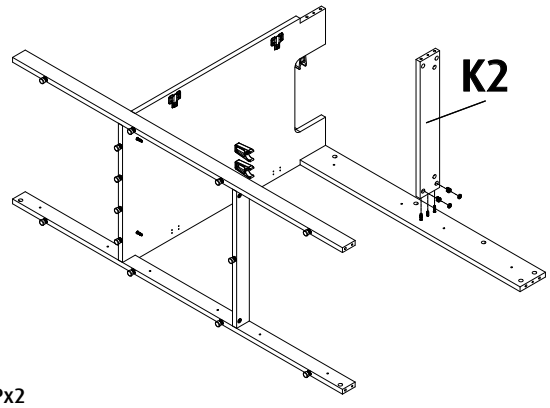
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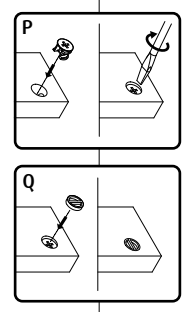
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Qx2

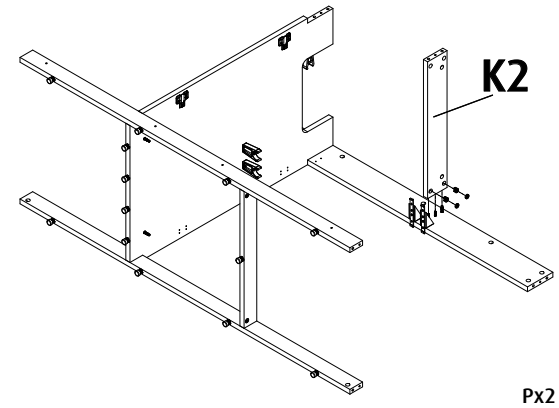
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Px2
Qx2

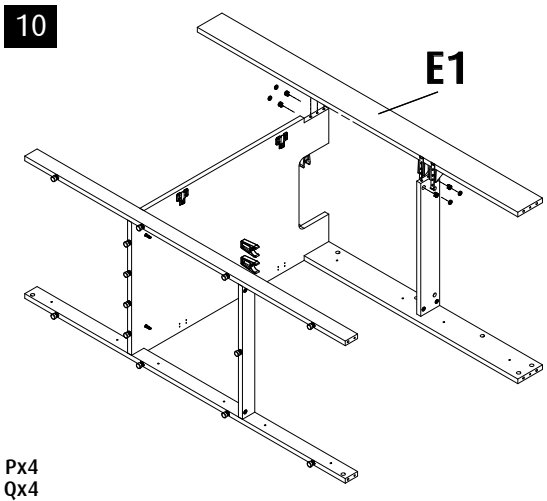
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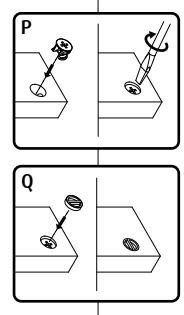
Px2
Qx2

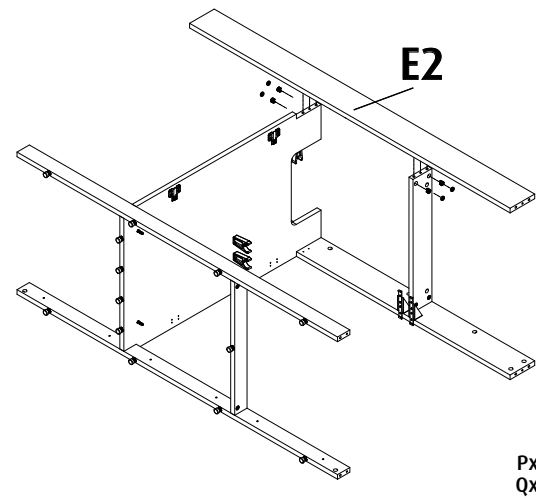
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Px4
Qx4

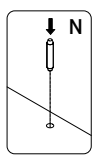
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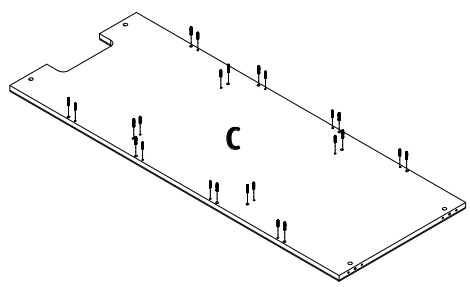


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Qx4

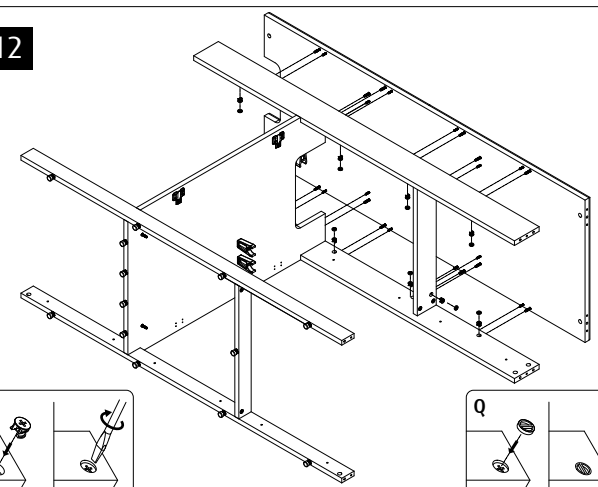
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Nx12
Mx12



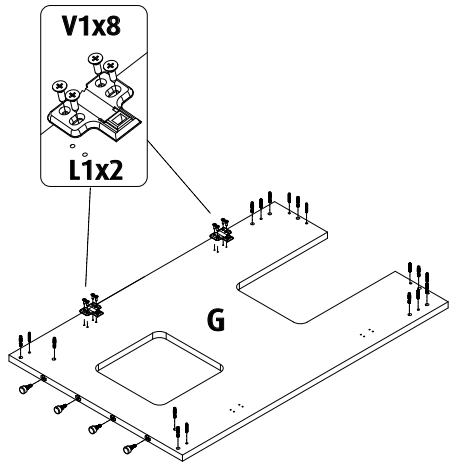
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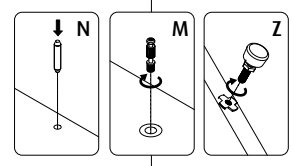
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Qx12

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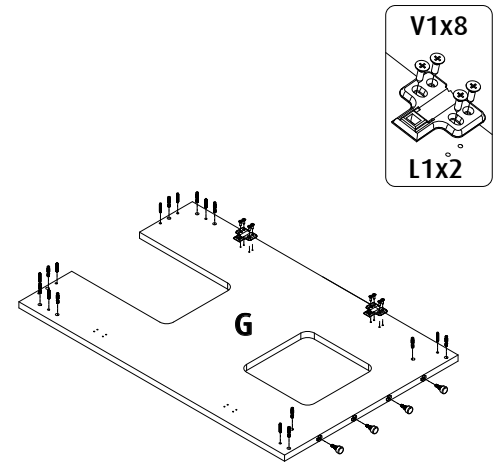


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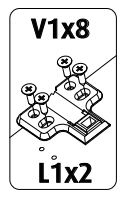


Nx8
Mx10
Zx4

Nx8
Mx10
Zx4

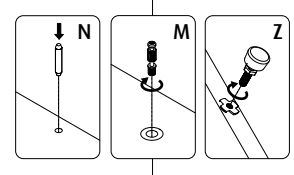


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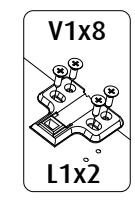


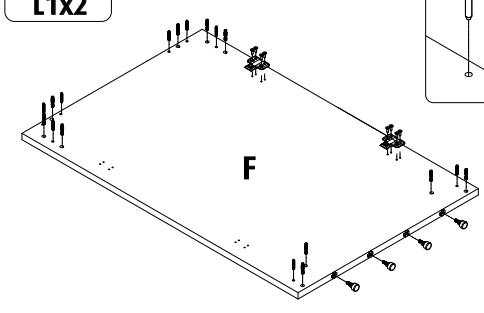
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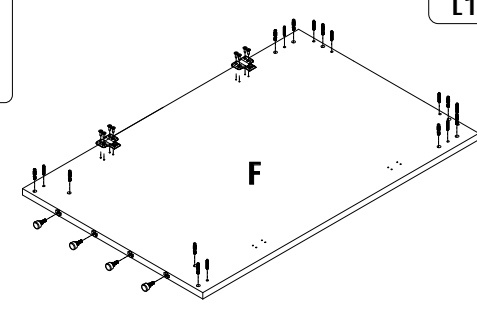
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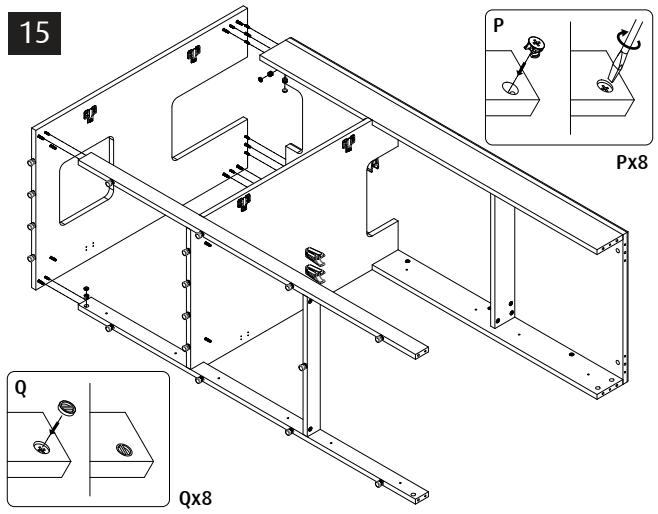
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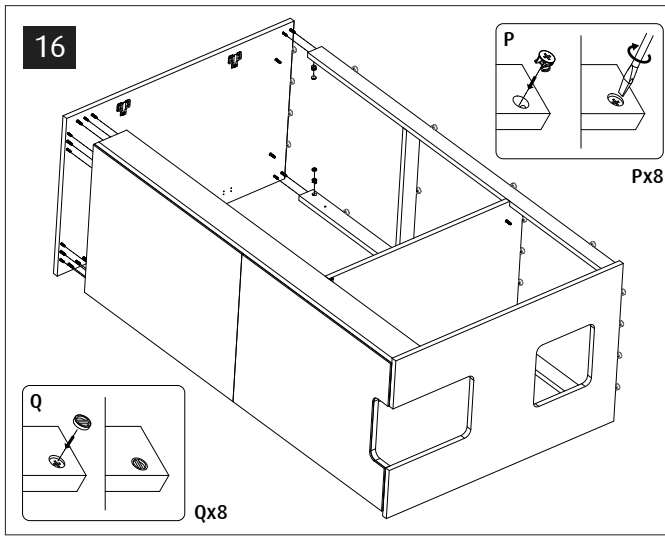




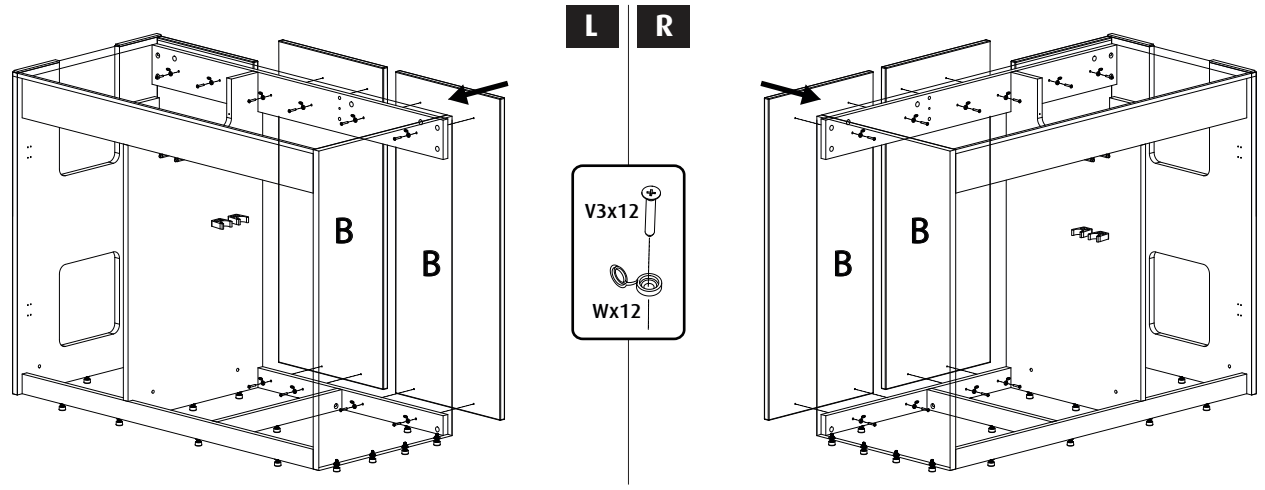
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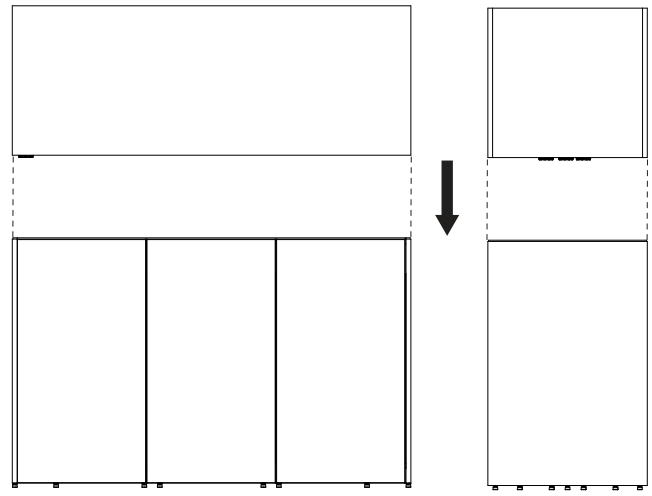
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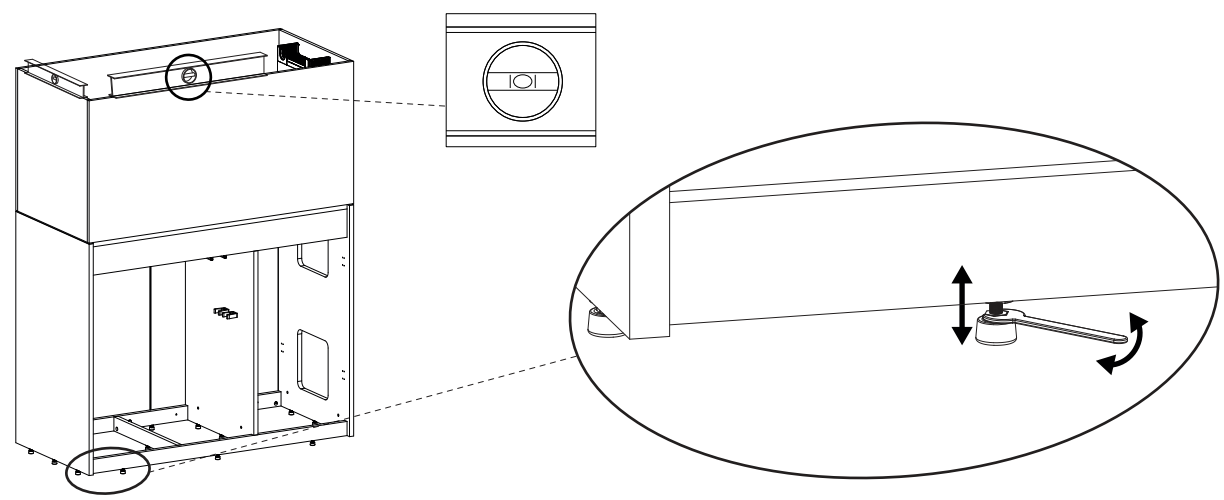
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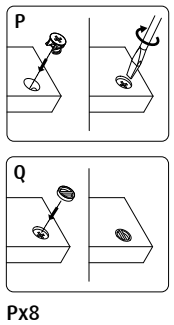
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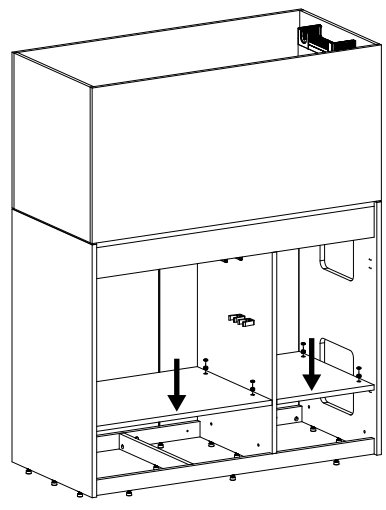
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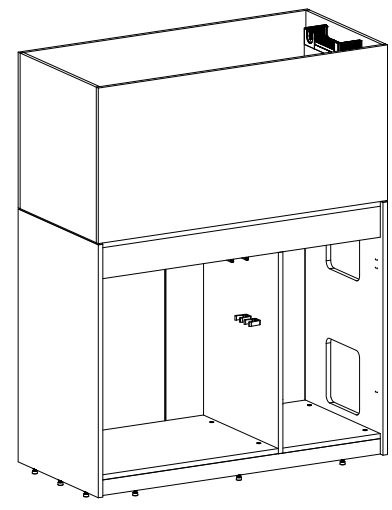


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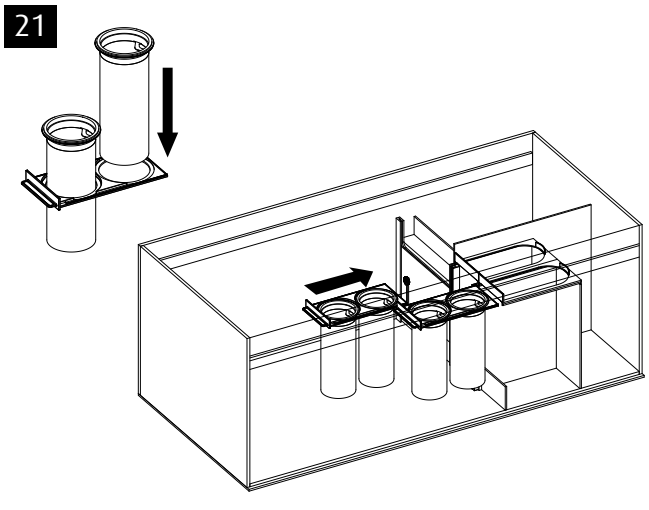


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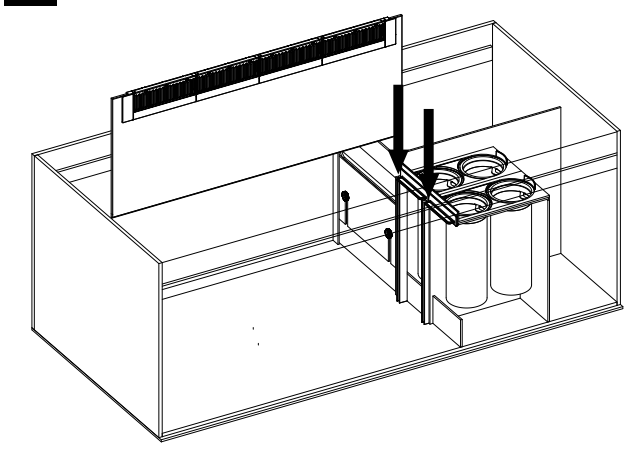




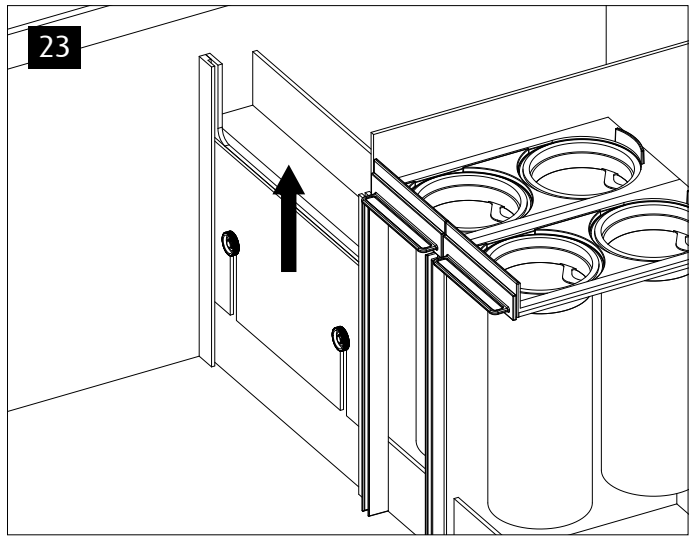
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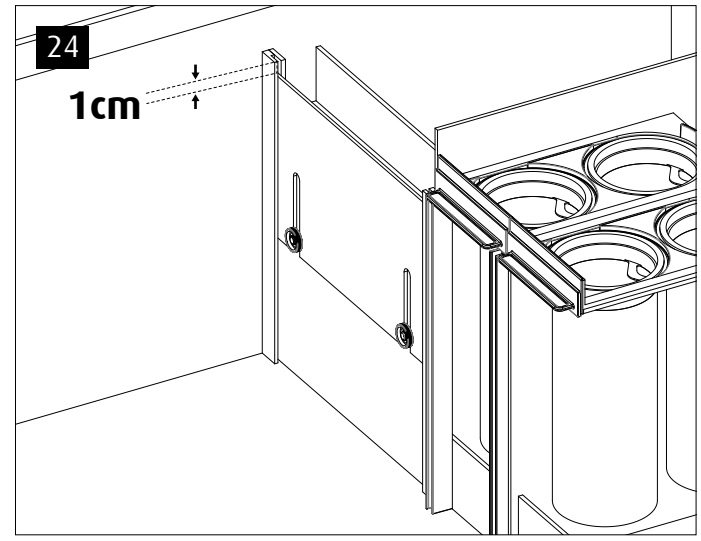
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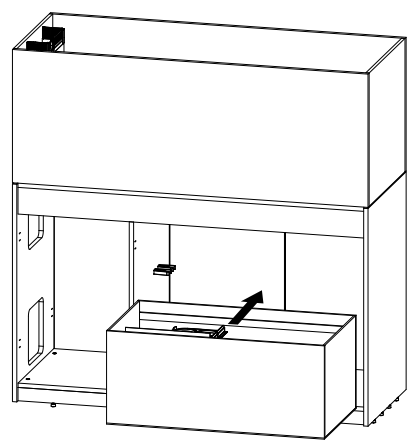
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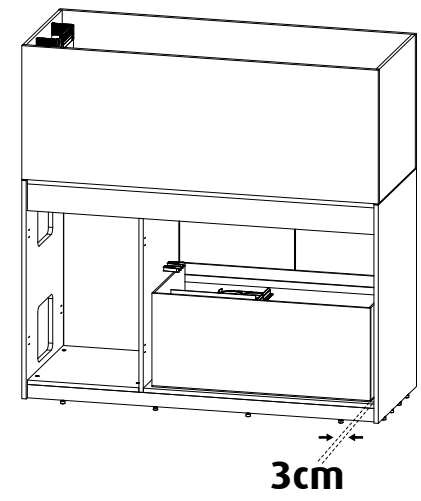


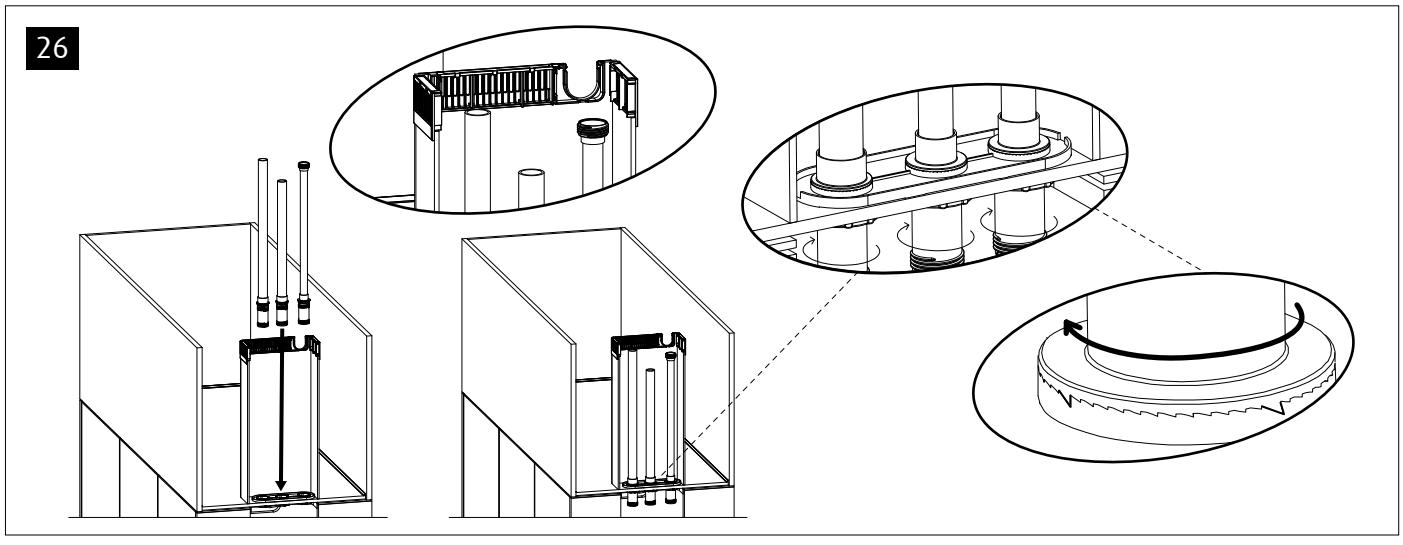
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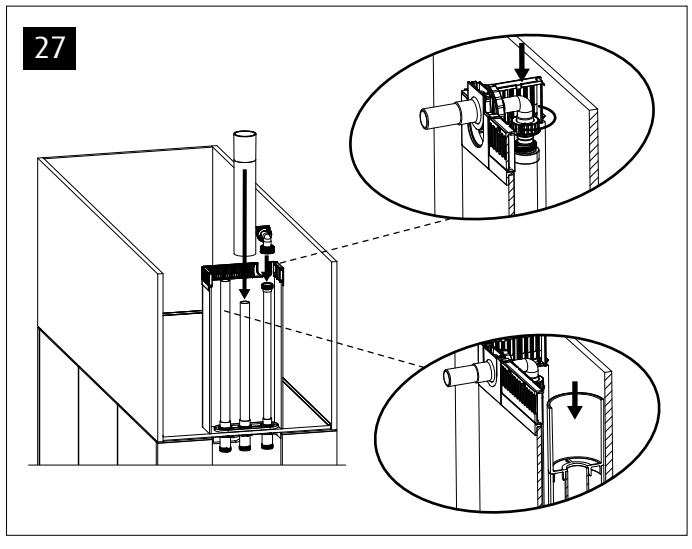


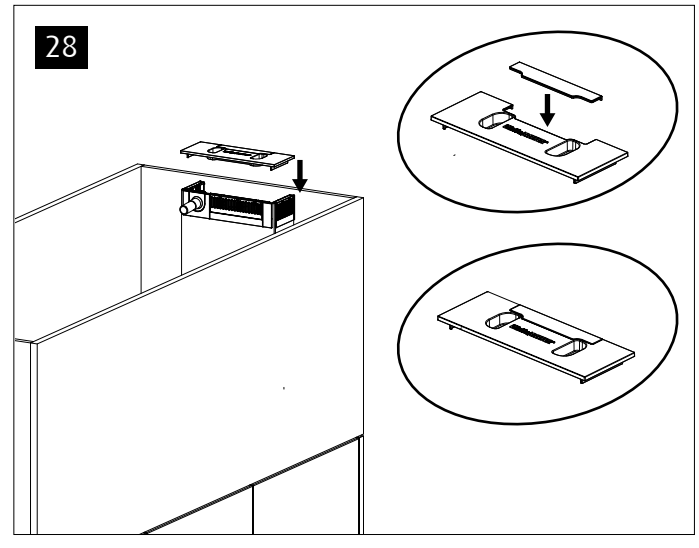
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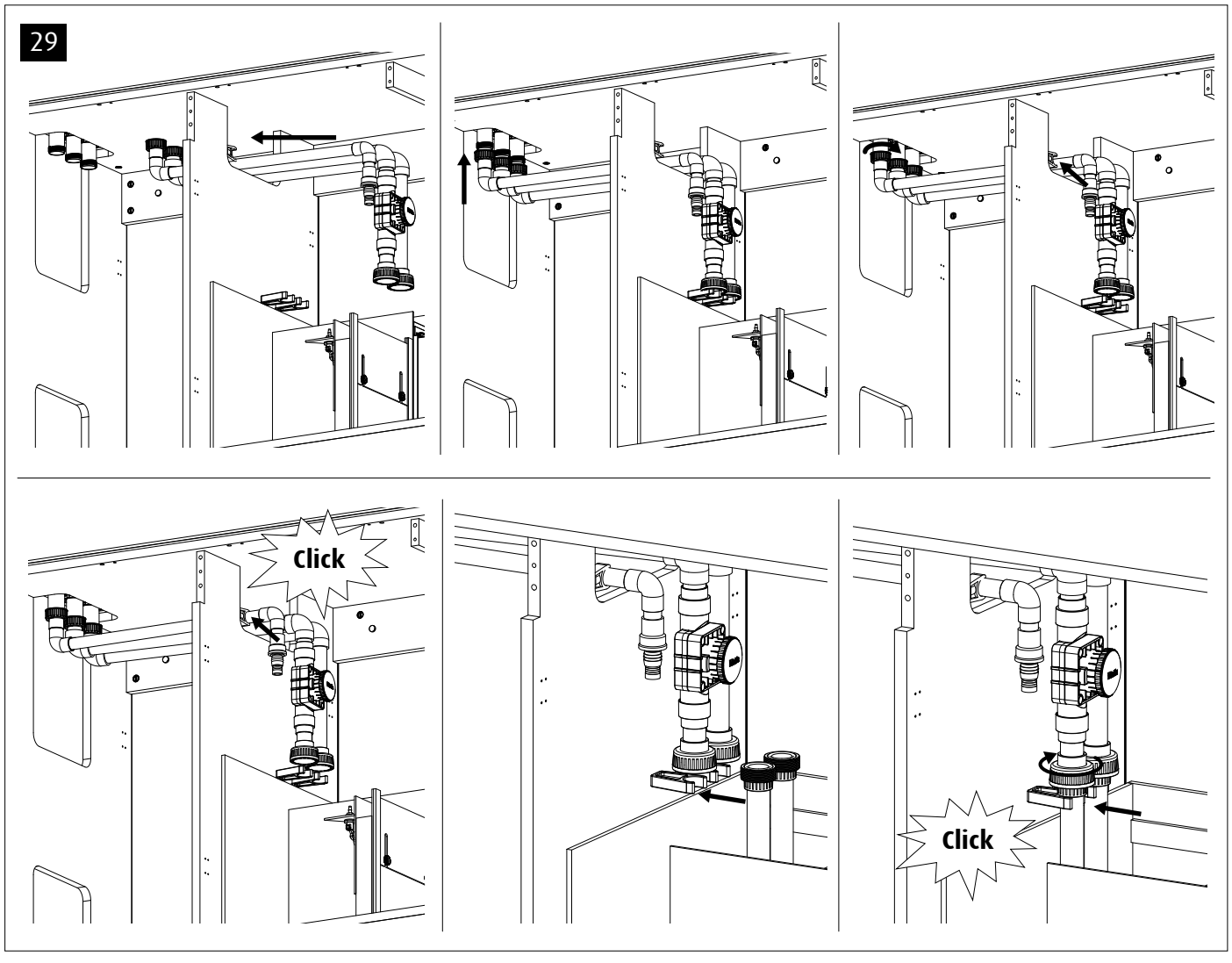




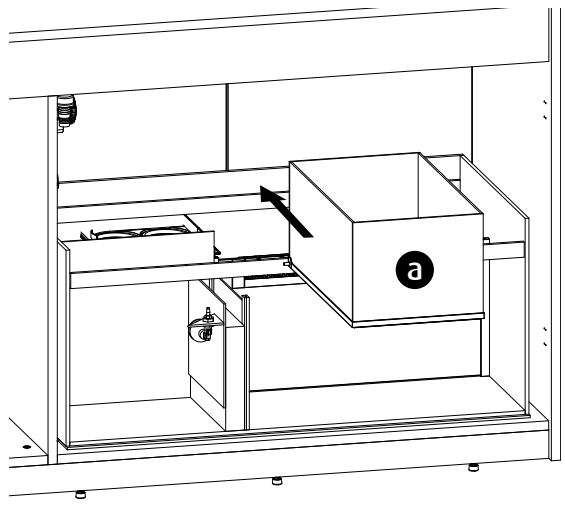

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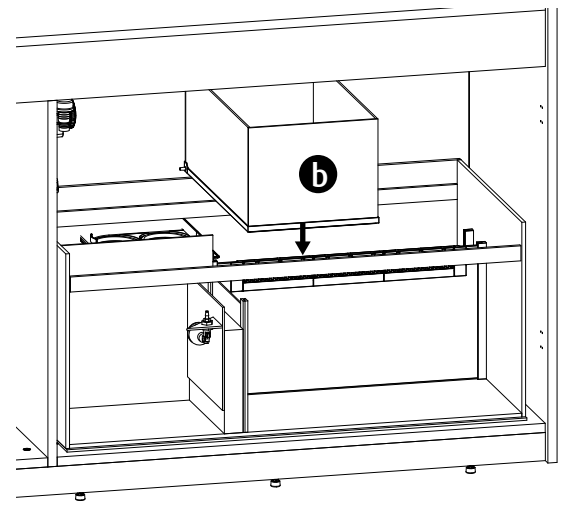

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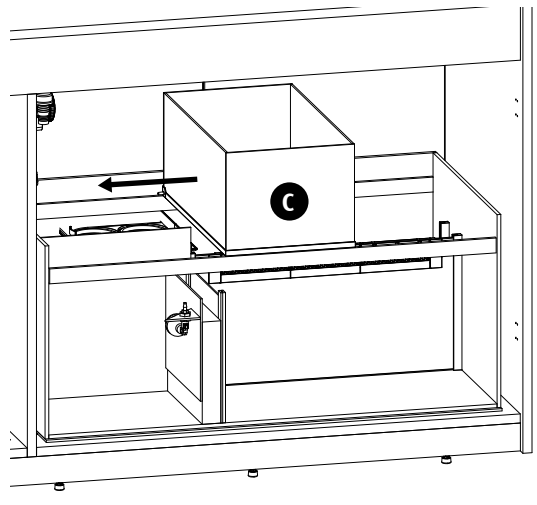

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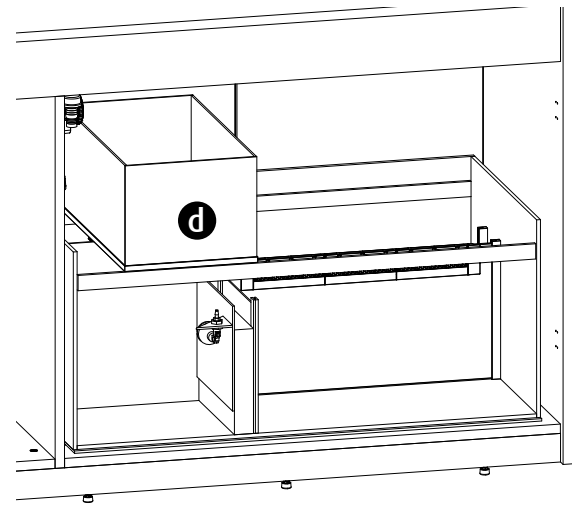

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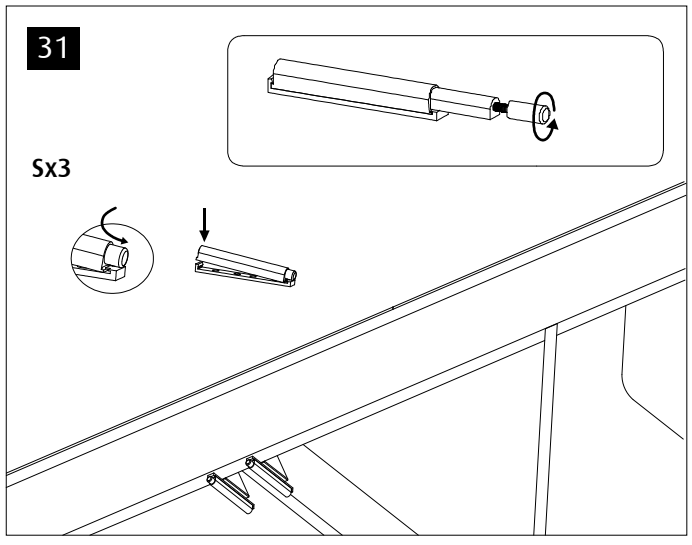




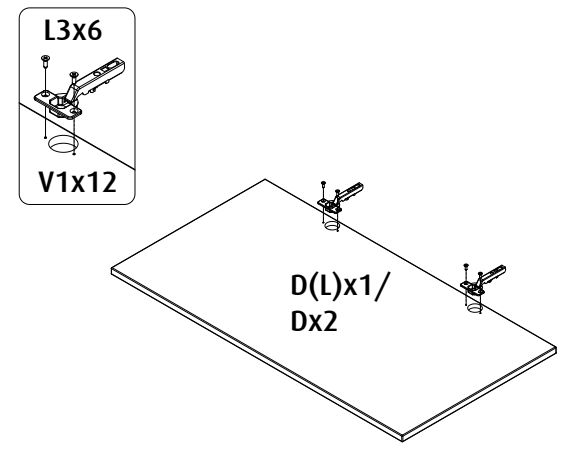


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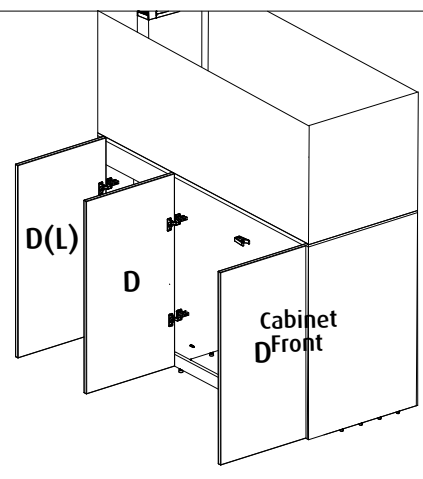
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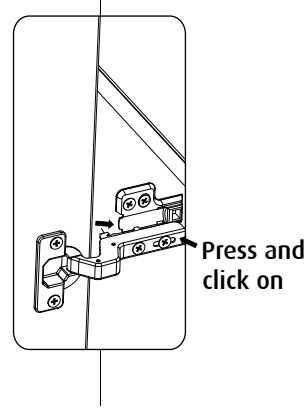
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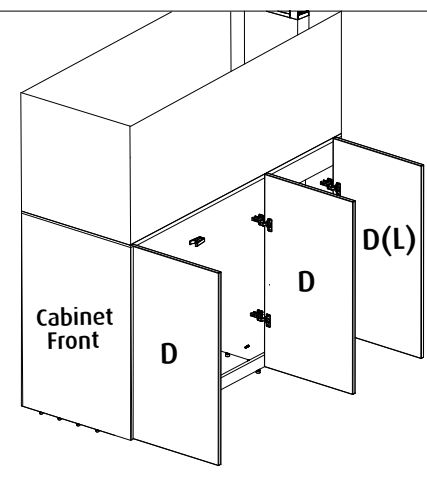


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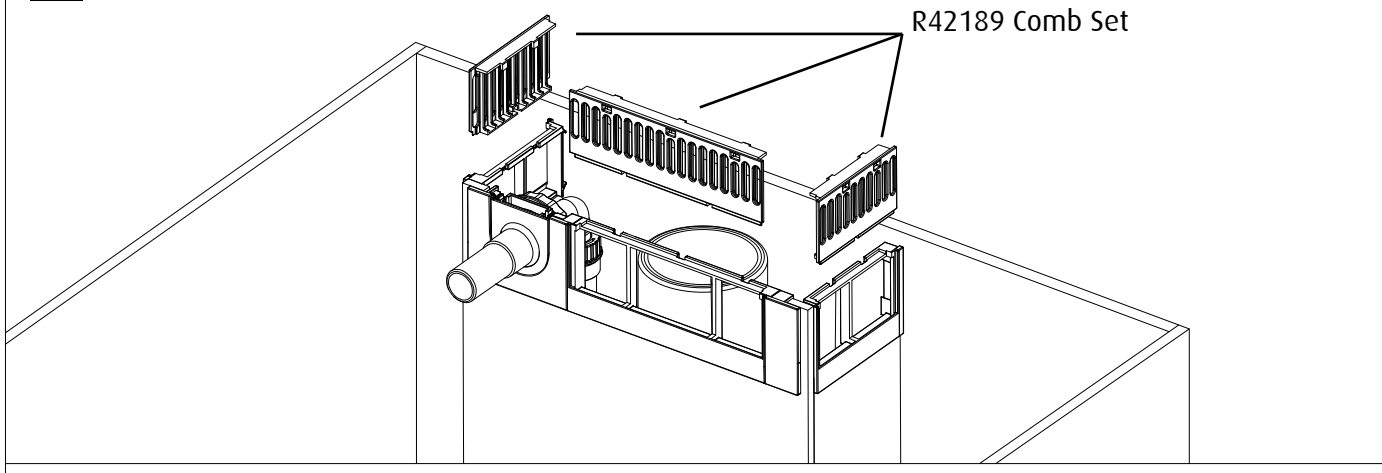
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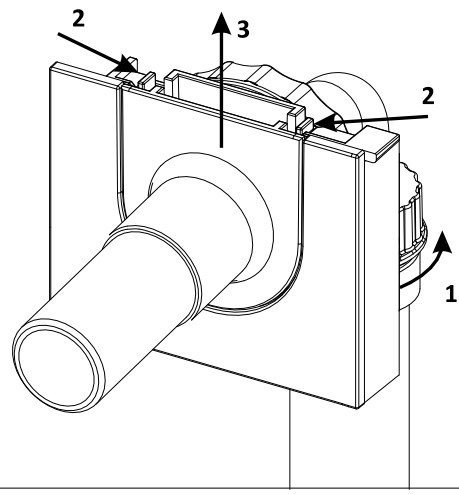


Maintenance

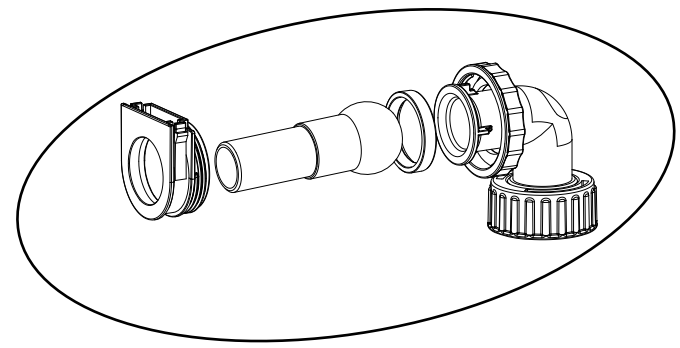
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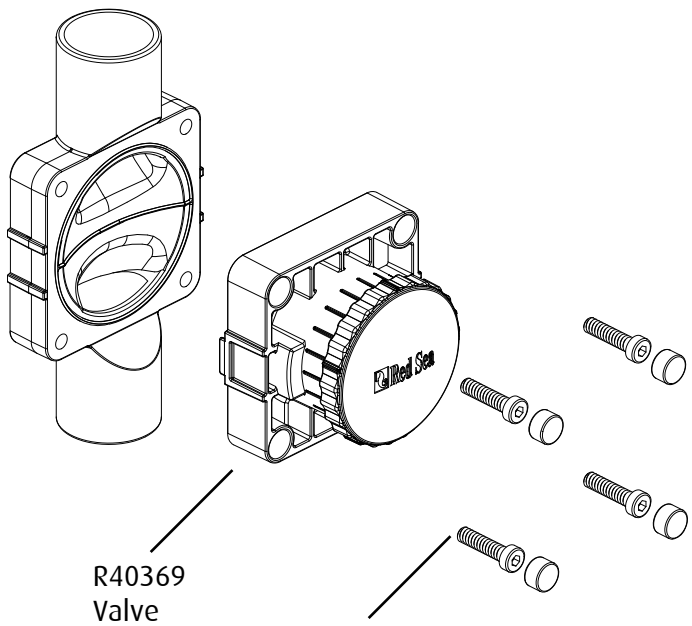
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R42319 Outlet Assembly



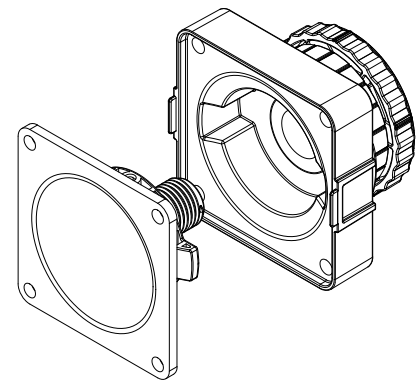
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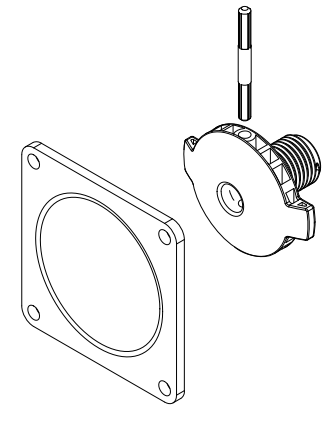
R40369
Valve

R40371
Screw Set

2



3



R40370
Diaphragm

REEFER PENINSULA 650

6427_ Manual P650 – Assembly _v17a

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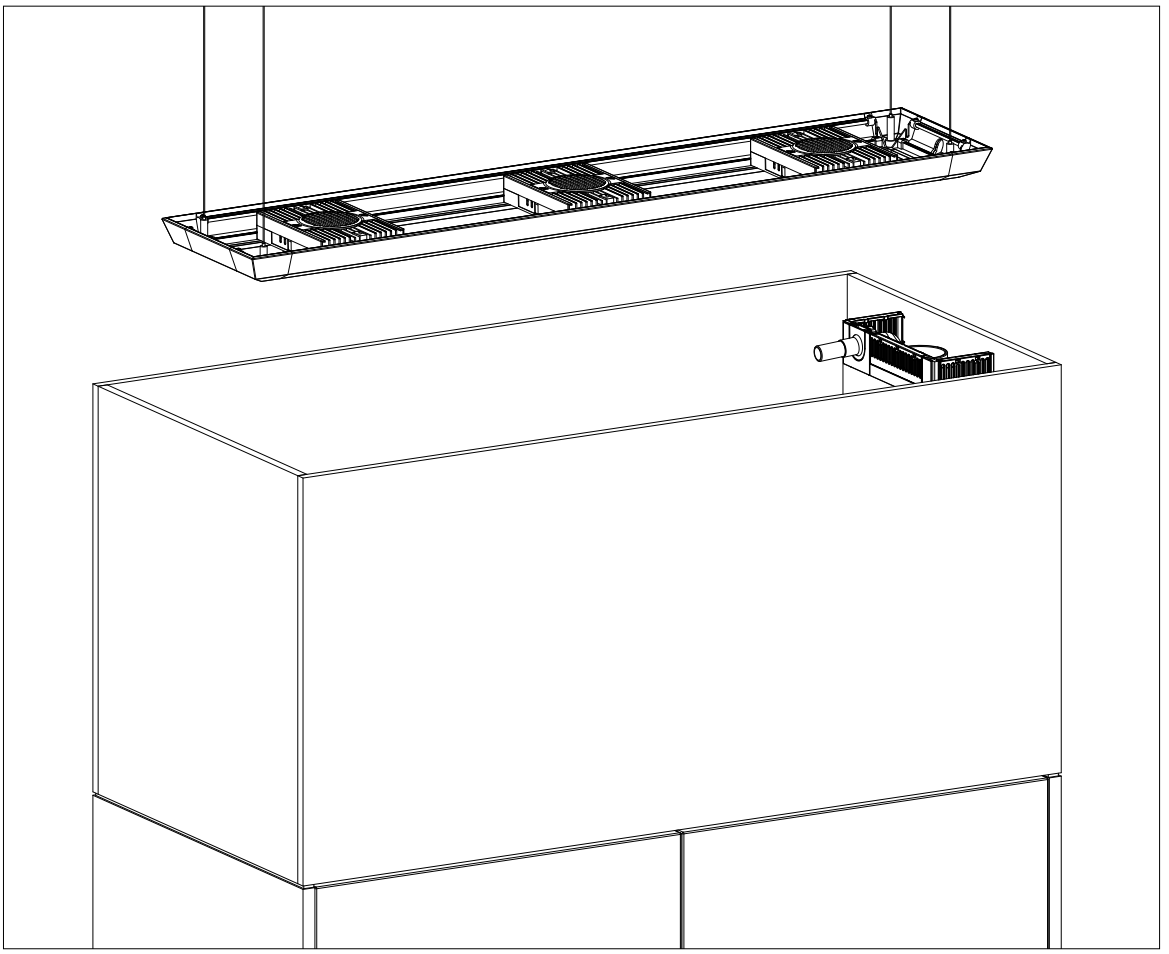
Red Sea
www redseafish com

PRINTING INSTRUCTIONS

To print **only** the LED Pendant Manual, print pages 95-105.

Red Sea REEFER™ Peninsula LED Pendant

Assembly and installation instructions



Red Sea

Item:	Part No.	Part Name	P500 Black	P500 White	P650 Black	P650 White
A	6578-PB	Pendant Corner - Black	4		4	
	6578-PW	Pendant Corner - White		4		4
B	6568A-PB	LED Pendant Painted Profile - Rear - Black	1		1	
	6568A-PW	LED Pendant Painted Profile - Rear - White		1		1
C	6569A	LED Pendant Aluminum Profile - Rear	1	1	1	1
D	6568-PB	LED Pendant Painted Profile - Front - Black	1		1	
	6568-PW	LED Pendant Painted Profile - Front - White		1		1
E	6569	LED Pendant Aluminum Profile - Front	1	1	1	1
F	6570-PB	LED Pendant P500 Painted Profile - Black	2			
	6570-PW	LED Pendant P500 Painted Profile - White		2		
	6571-PB	LED Pendant P650 Painted Profile - Black			2	
	6571-PW	LED Pendant P650 Painted Profile - White				2
G	6572	LED Pendant P500 Aluminum Profile	2	2		
	6573	LED Pendant P650 Aluminum Profile			2	2
H	1333	Screw P3.5x8	16	16	16	16
J	5842	Hydra 26HD Fixing Plate	6	6	8	8
K	5844	Screw M3x8	6	6	8	8
L	5848	Screw #10UNFx20	6	6	8	8
M	6579	Suspension Kit for LED Pendant	4	4	4	4

EN

Safety

PLEASE READ AND FOLLOW ALL SAFETY INSTRUCTIONS

DANGER: To avoid possible electric shock, special care should be taken when handling a wet aquarium. For each of the following situations, do not attempt repairs yourself; return the appliance to an authorized service facility for service or discard the appliance.

WARNING: To guard against injury, basic safety precautions should be observed, including the following:

Do not operate any appliance if it has a damaged cord or plug, if it is malfunctioning, or if it is dropped or damaged in any manner.

If the external cable Is damaged, It shall be replaced by the manufacturer.

To avoid the possibility of the appliance plug or receptacle getting wet, position the aquarium stand and tank to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. You should create a "drip loop" (see Figure 1) for each cord connecting an aquarium appliance to a receptacle. The "drip loop" is that part of the cord below the level of the receptacle, or the connector. Use an extension cord, if necessary, to prevent water traveling along the cord and coming into contact with the receptacle. If the plug or receptacle does get wet, DO NOT unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug the device and examine for presence of water in the receptacle.

Close supervision is necessary when any appliance is used by or near children.

To avoid injury, do not contact moving parts.

Always unplug an appliance from an outlet when not in use, before putting on or taking off parts, and before cleaning. Never pull the cord itself to remove the plug from the outlet. Grasp the plug and pull to disconnect.

Do not use an appliance for anything other than its intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.

Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing point.

Make sure an appliance mounted on a tank is securely installed before operating it.

Read and observe all the important notices on the appliance.

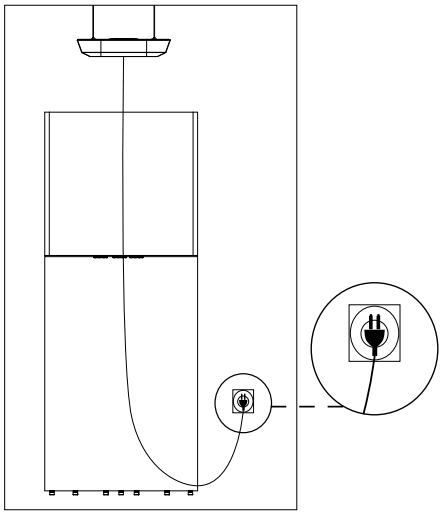
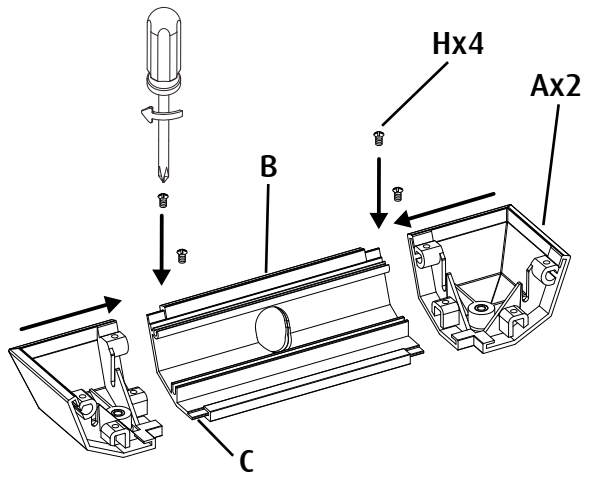
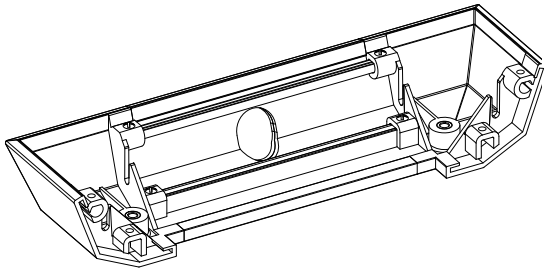


Figure 1: Drip Loop

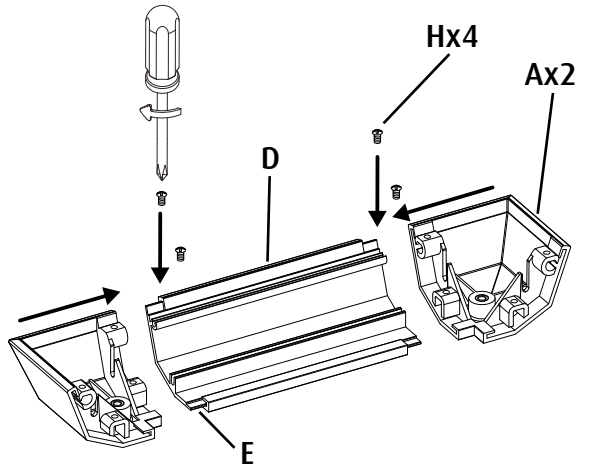
NOTE: A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it cannot be tripped over or pulled accidental.

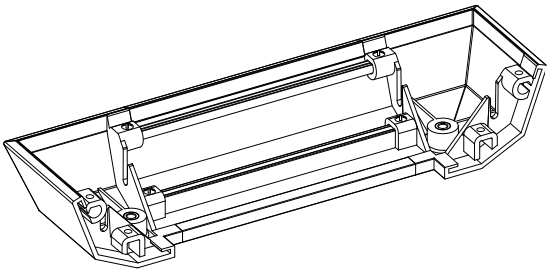
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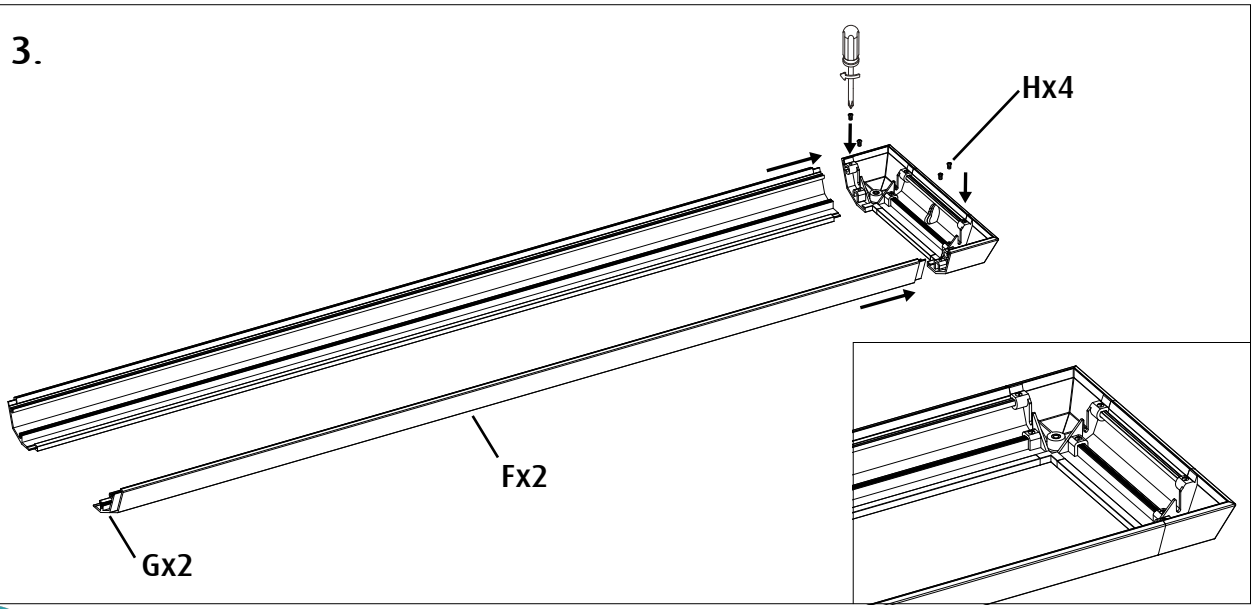


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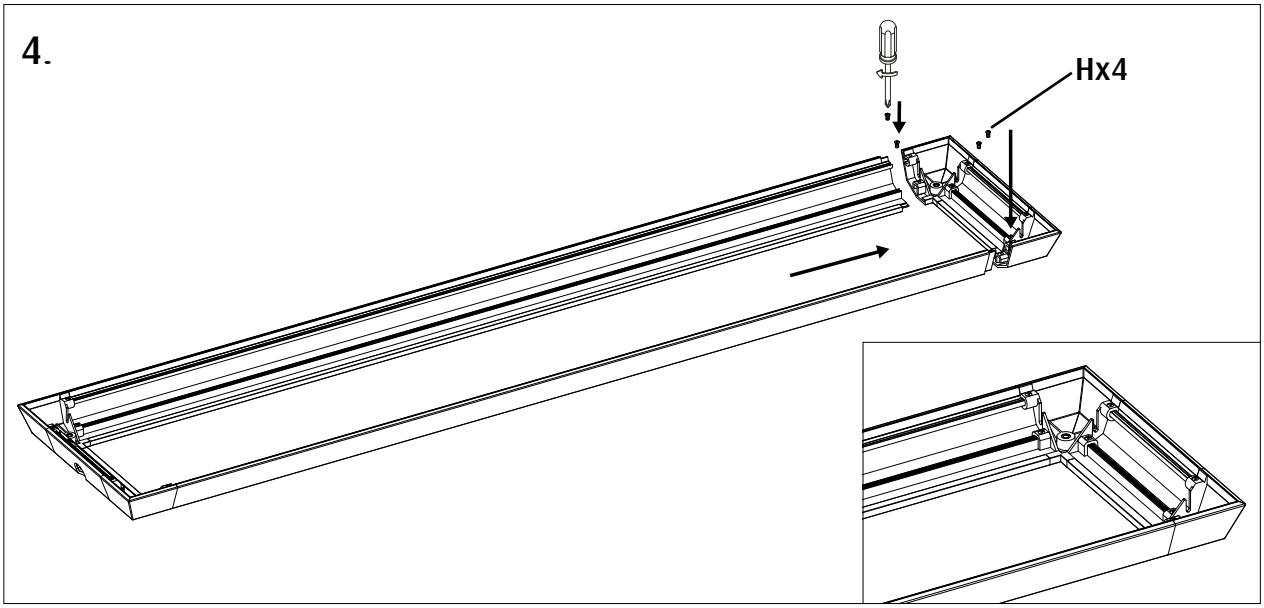




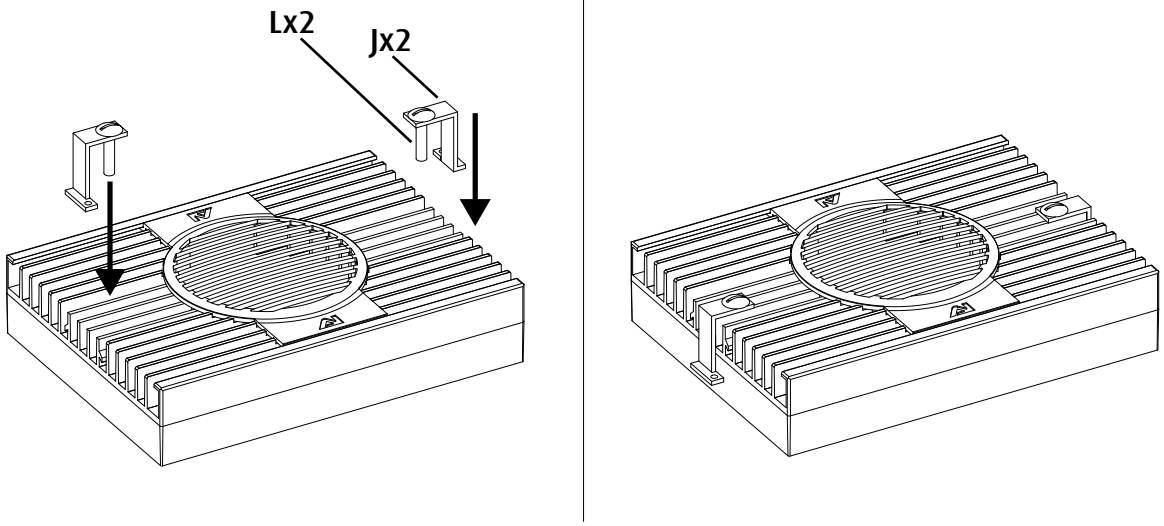
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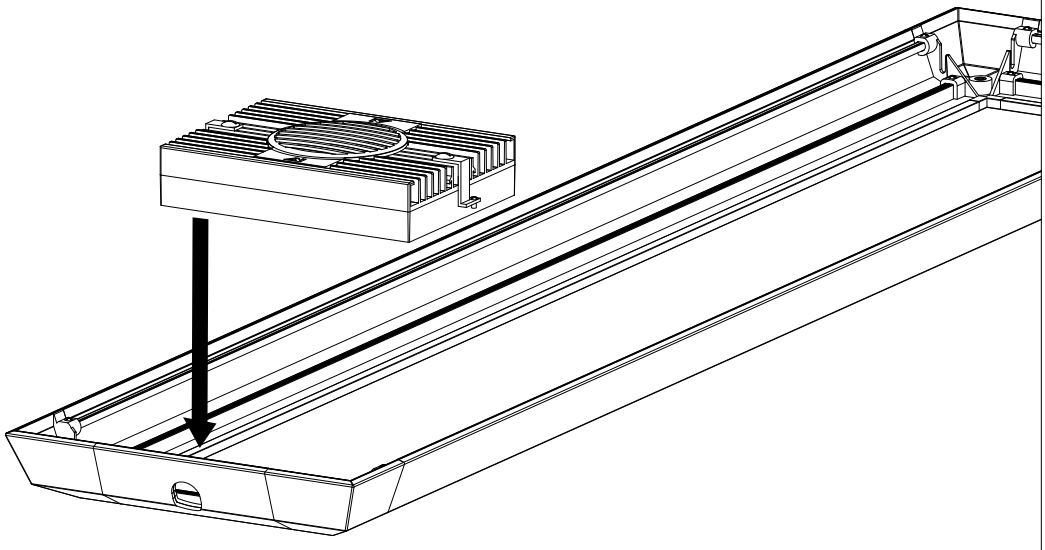
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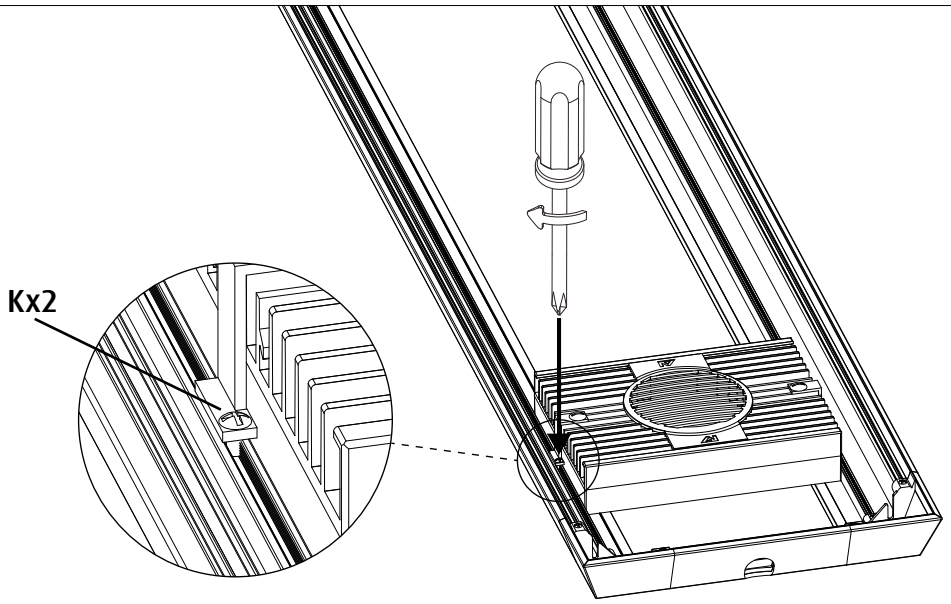
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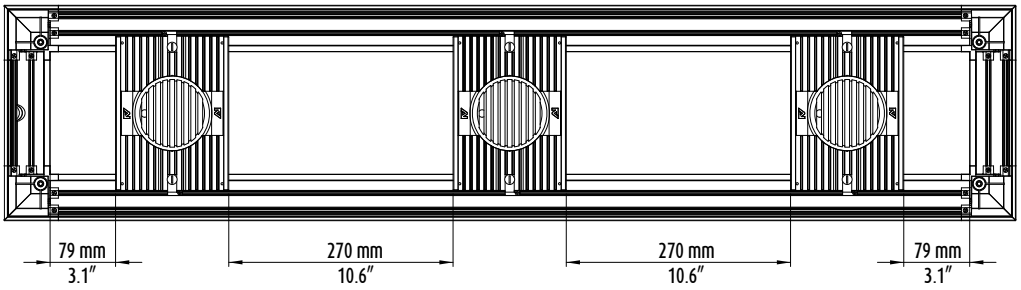
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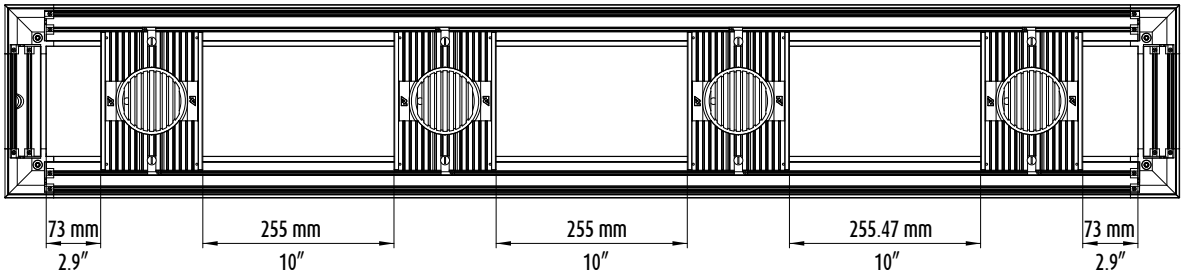
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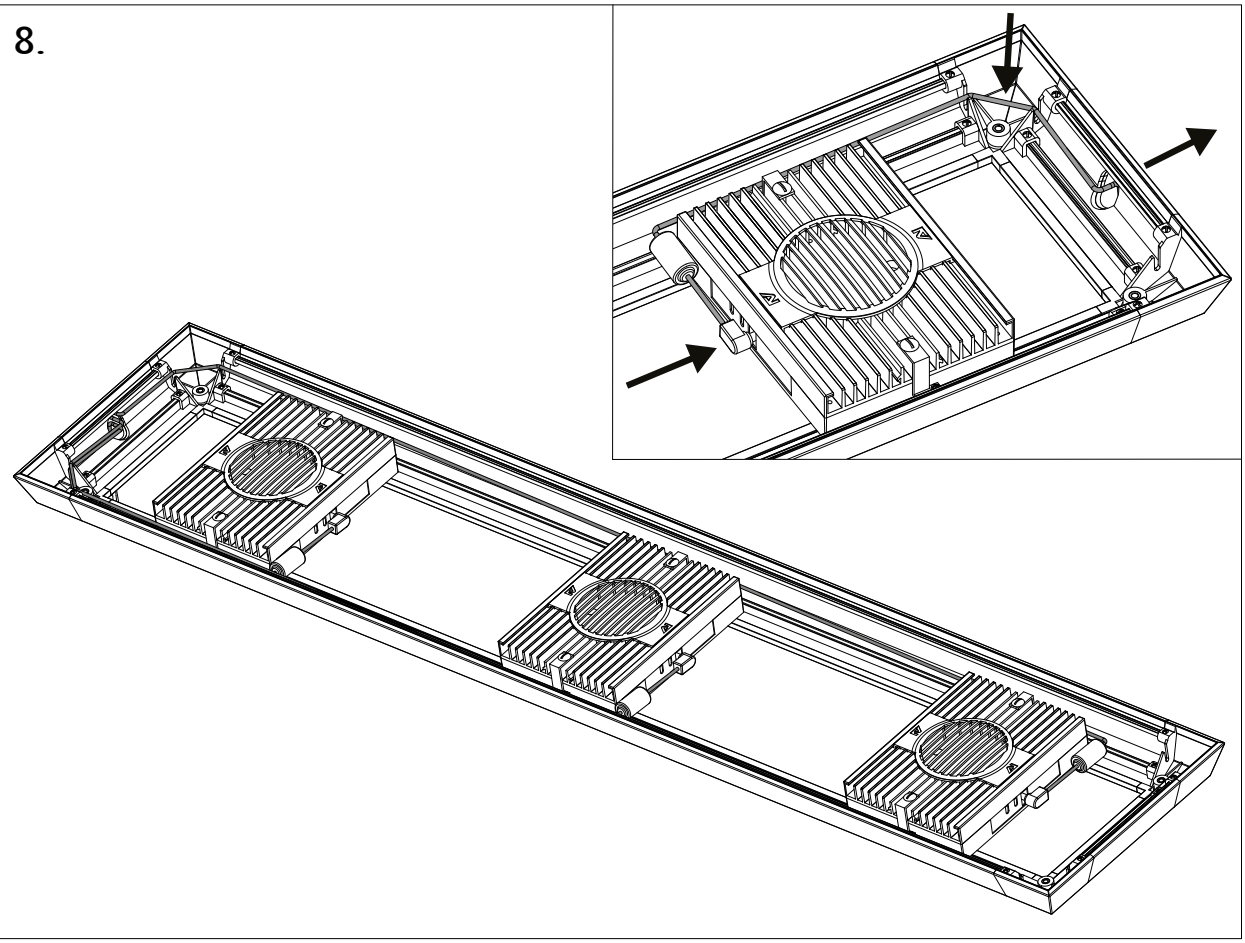
PENINSULA 500



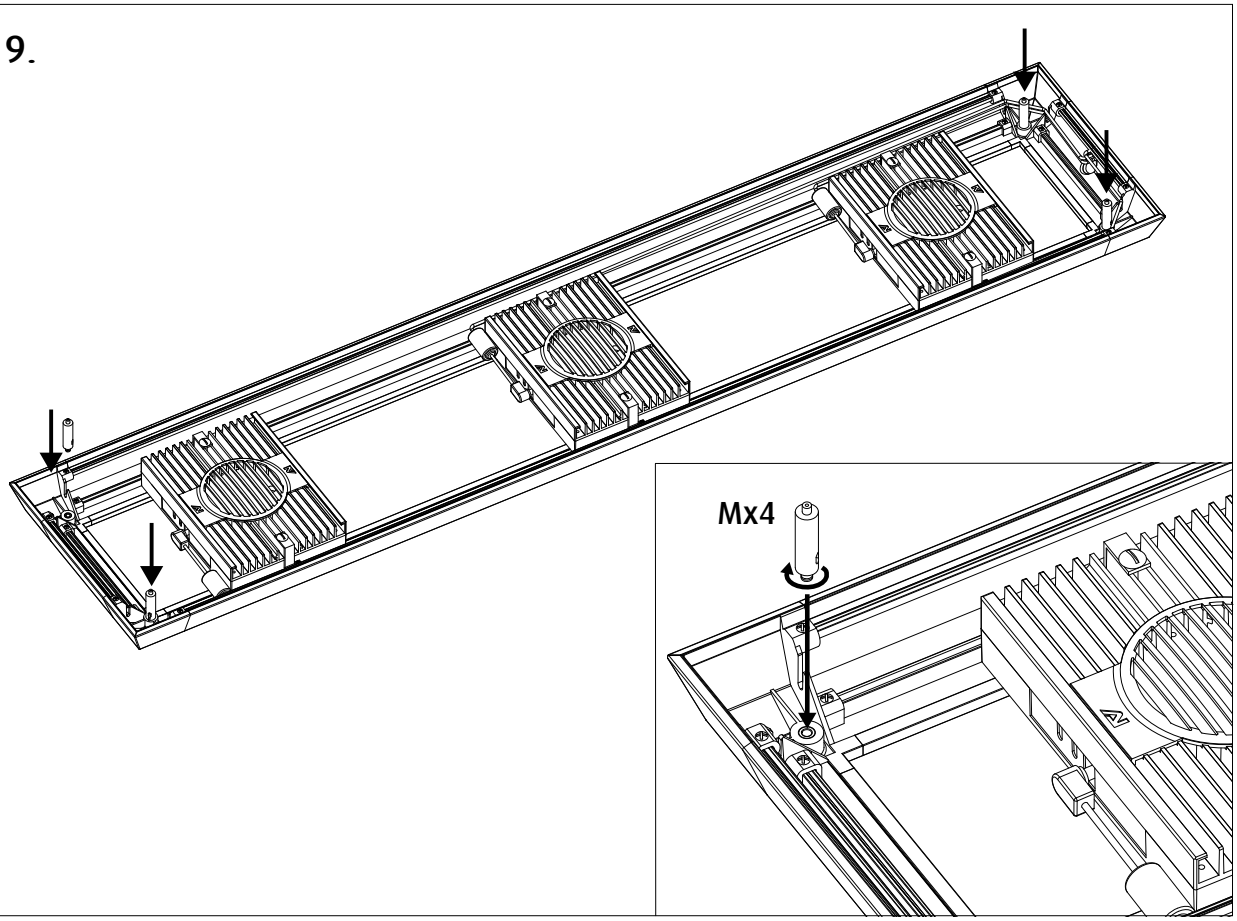
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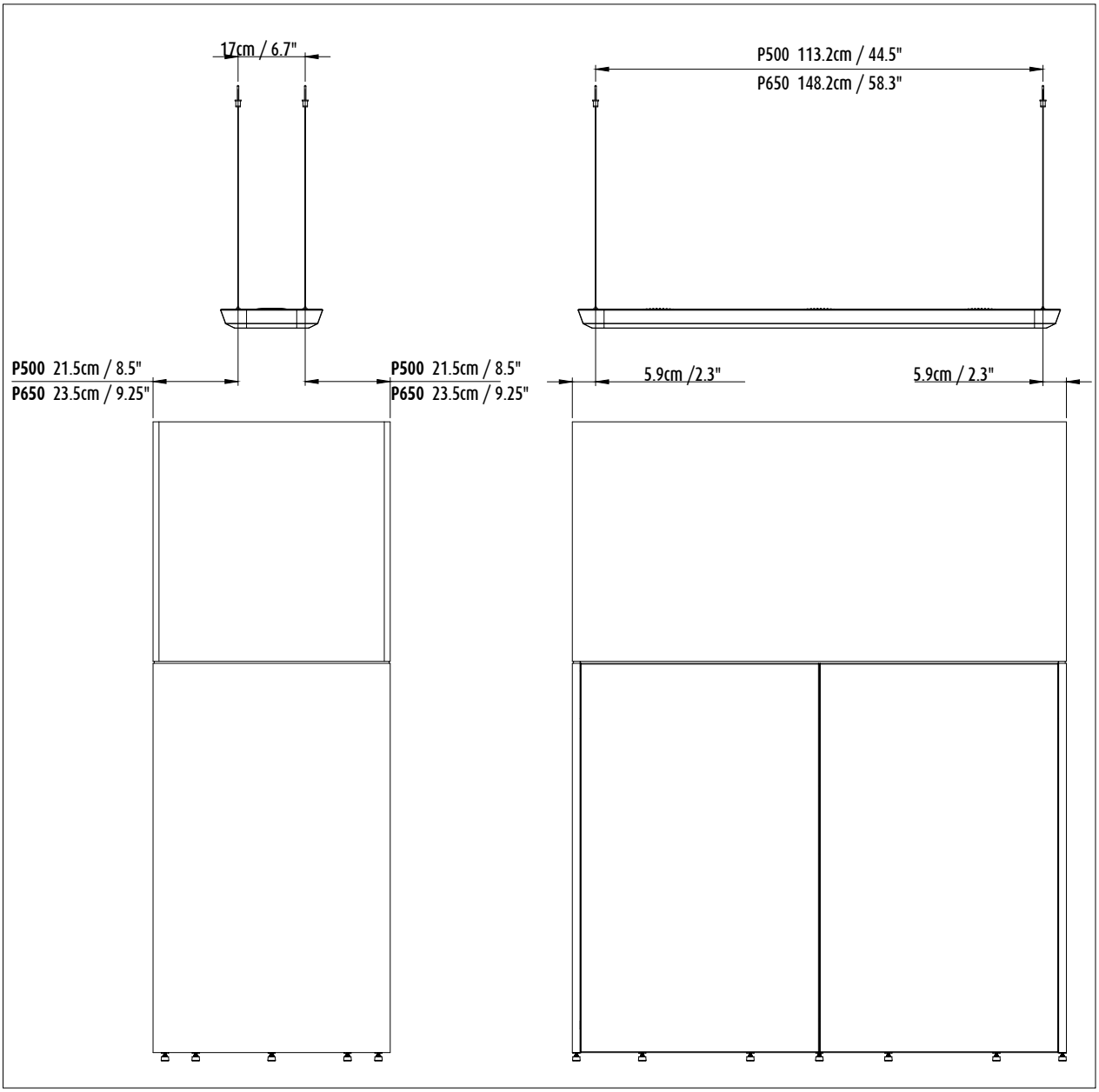


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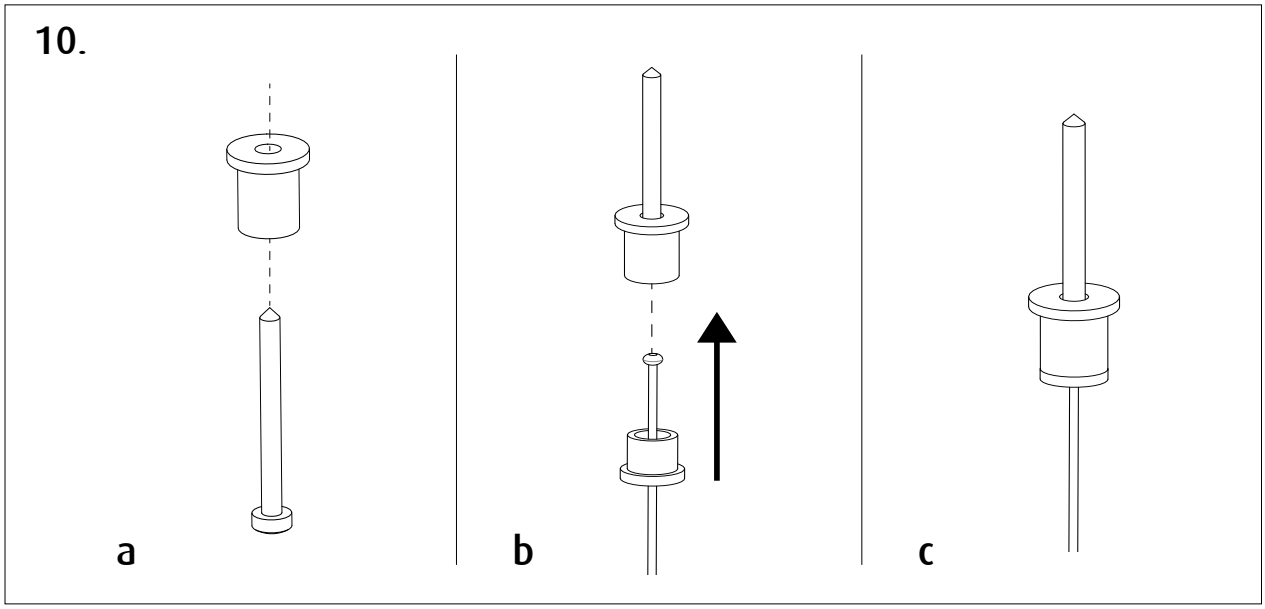


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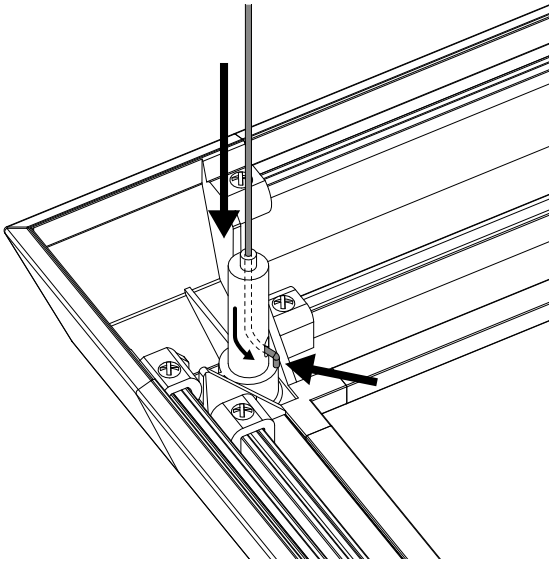



17cm / 6.7"
P500 113.2cm / 44.5"
P650 148.2cm / 58.3"
P500 21.5cm / 8.5"
P650 23.5cm / 9.25"
P500 21.5cm / 8.5"
P650 23.5cm / 9.25"
5.9cm /2.3"
5.9cm / 2.3"

10.



11.



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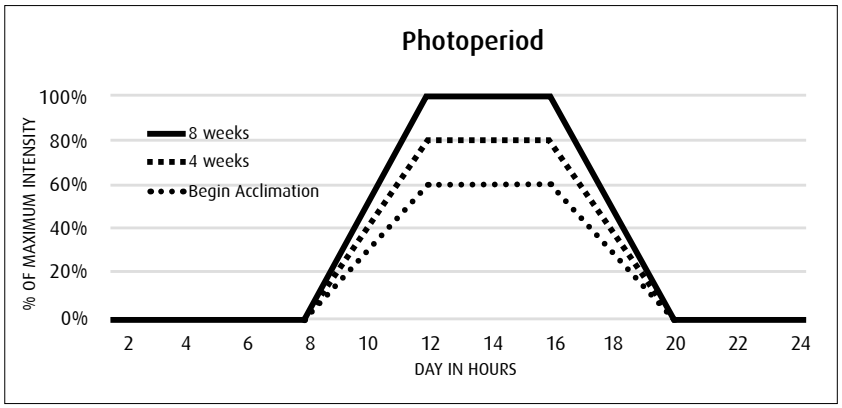
Lighting

The LED modules have a built-in Wi-Fi network and must be connected to a smartphone or Wi-Fi enabled computer to get the benefits of all of the features. To set up and program the LED's follow the instructions provided with the LED modules.

Programming guidelines:

Photoperiod: Day/moonlight

The day photoperiod should be between 8 – 12 hours with no more than 4 hours at maximum intensity and at ramp up/down rate of approximately 25% (of maximum intensity) per hour. Corals and fish must have daily periods of darkness. LED moonlight should be limited to 1% of the maximum light intensity for a maximum period of 6 hours.



Acclimation

To prevent photo-inhibition due to the high intensity of LED lights, an acclimation period is recommended for new systems or when introducing new corals.

Acclimation will vary for different kinds of corals however it recommended to allow a period of 8 weeks for new set-ups as follows:

Set the day photoperiod as described above however the 4 hour peak intensity to should not exceed 60% of maximum. Increase the peak intensity by 10% every 2 week.

During the acclimation period look for signs of photo stress and photo-inhibition such as:

- Whitening/Bleaching of the upper section of the tissue (the lower section will continue to show pigments and zooxanthellae).
- Polyps retraction.
- Gas bubbles inside the soft tissue.

In the event of any of the above symptoms immediately reduce the peak intensity by 20% for about 4 weeks and thereafter increase by 5% per week until maximum intensity is reached.

When introducing new corals to already acclimated systems, start by positioning them at the lower levels of the aquarium and gradually raising them to their desired position over a period of several weeks. Keep watching for signs of photo inhibition/stress and if necessary return an affected coral to lower levels for recuperation.

NOTE: Red and Green wavelengths are not recommended for use in Reef systems as they may promote the outbreak of unwanted Algae or Cyanobacteria.

WARNING: The LED module is not waterproof. Do not get the unit wet and do not submerge any part of it or the power cord in the aquarium water.

WARNING: LED lights produce extremely intense light output that may damage or injure your eyes. Do not look directly into the LED's any time the fixture is illuminated.

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PRINTING INSTRUCTIONS

To print **only** the Cabinet Installation Guide, print pages 106-115

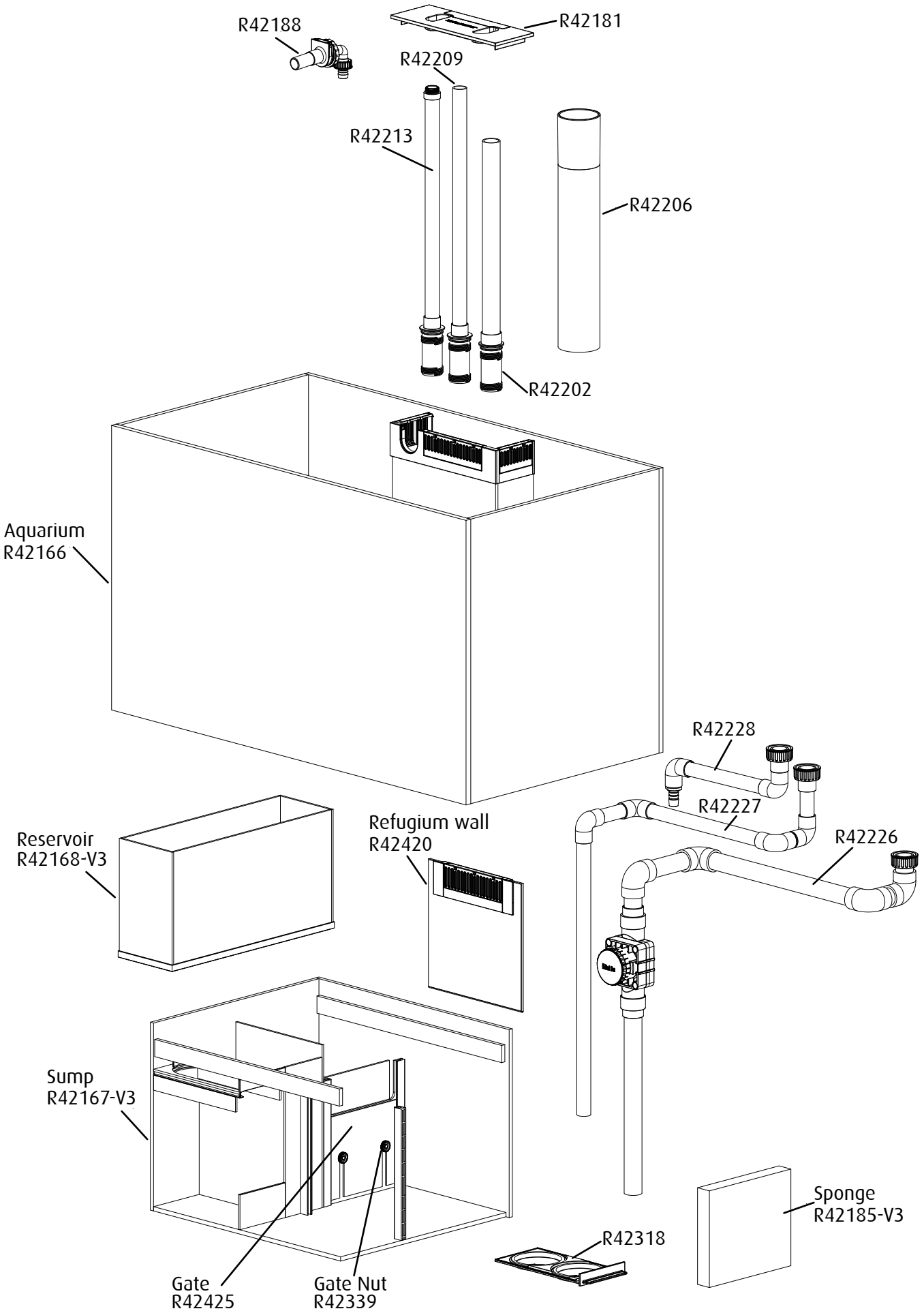
Red Sea REEFER™

250 (refugium ready)

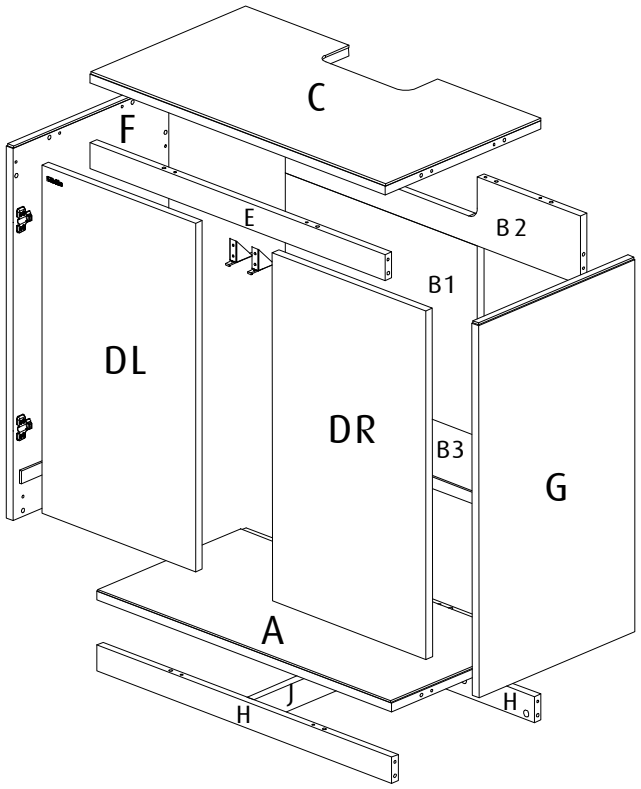
Aquarium & Cabinet Assembly Manual

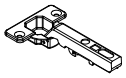
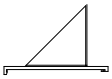
Red Sea

Aquarium Water Management System



Cabinet



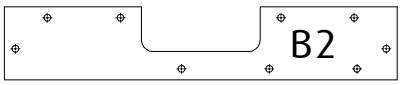
L2		4
L1		
N		46
M		42
P		42
Y		27
R		2
W		2
V1	ST4x16	24
V2	ST3.5x14	4
V3	ST5x35	1
V4	ST5x60	2
Y32		2
Y25		1

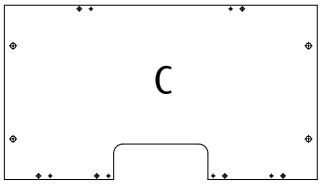




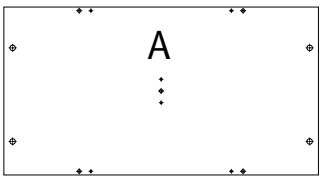


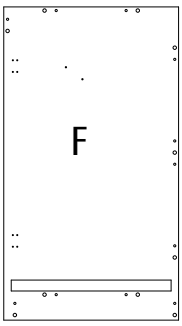


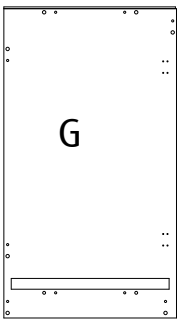


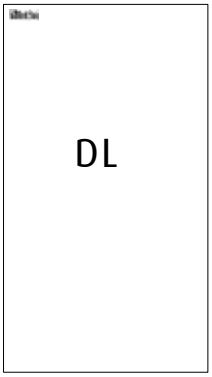


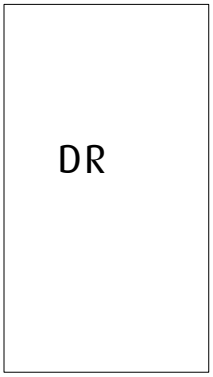






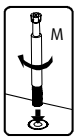


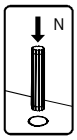


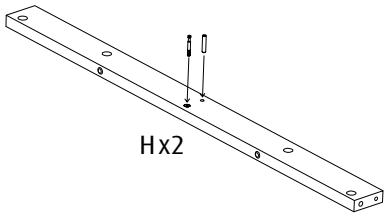


RF250 V3	Black	White	Marble	Part Description
A	5282B	5282W	5282B	Cabinet Bottom
B1	5284B	5284W	5284B	Cabinet Rear Middle
B2	5285BV3	5285WV3	5285BV3	Cabinet Rear Top
B3	5286B	5286W	5286B	Cabinet Rear Bottom
C	5281B	5281W	5281B	Cabinet Top
D	5265B	5265W	5265M	Cabinet Door
E	5288B	5288W	5288B	Cabinet Front Upper
F	5276B-1V3	5276W-1V3	5276M-1V3	Cabinet Side Left
G	5277BV3	5277WV3	5277M-1	Cabinet Side Right
H	5283B	5283W	5283M-P	Cabinet Front Lower
J	5287B	5287W	5287B	Cabinet Base Support

1





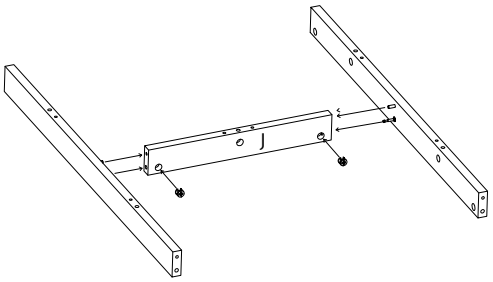


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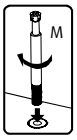


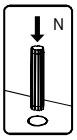


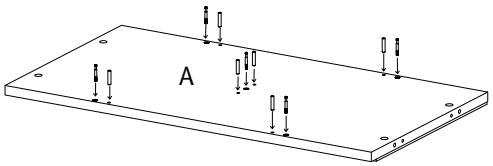
Px2



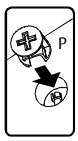
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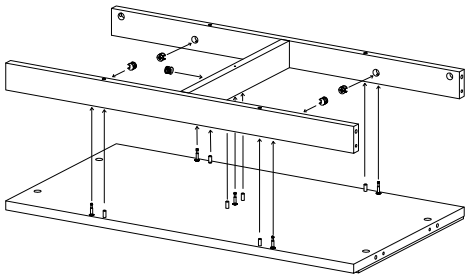


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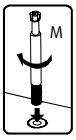


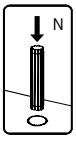


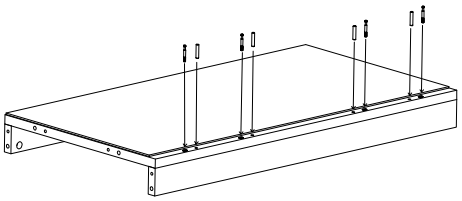
Px5



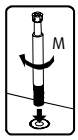
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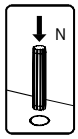


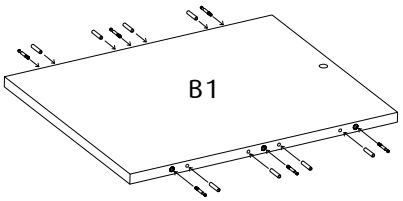




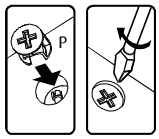
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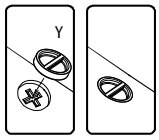




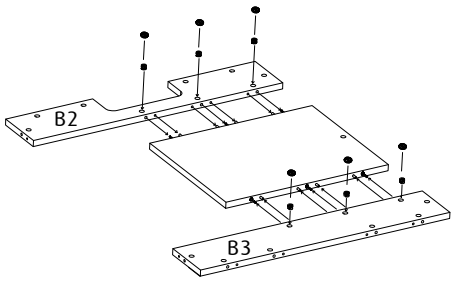


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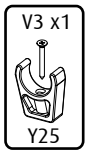


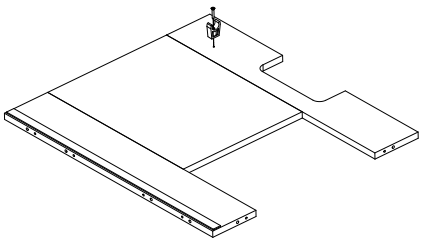


Px6, Yx6

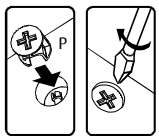


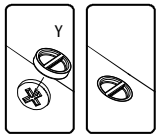
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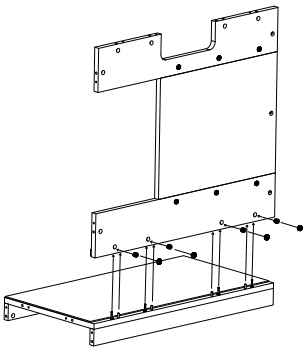


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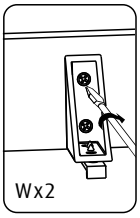


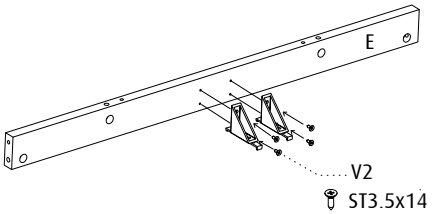


Px4, Yx4

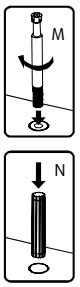


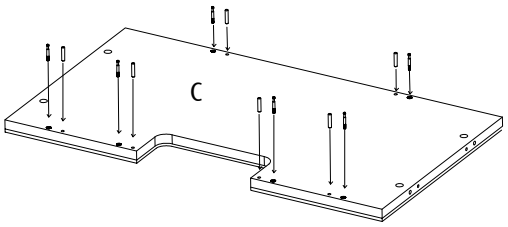
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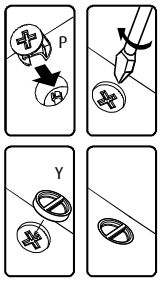


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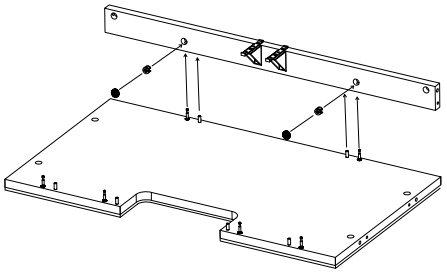




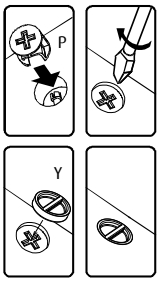
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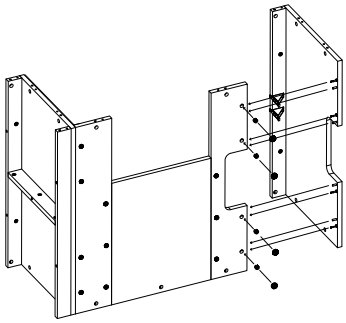
Px2, Yx2



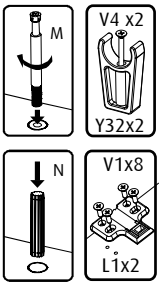
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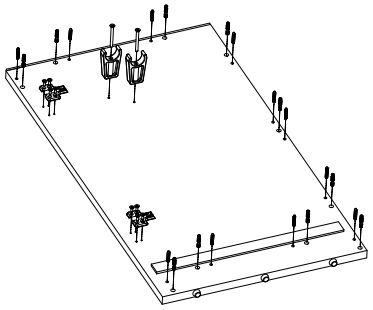


Px4, Yx4

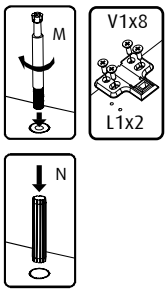


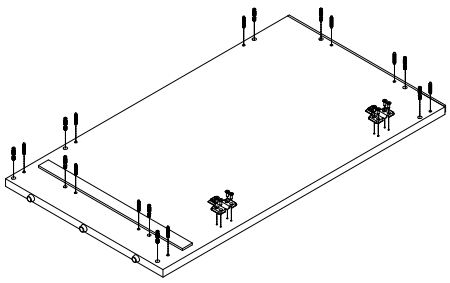
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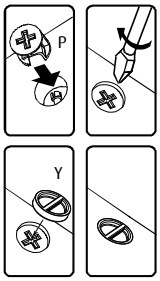


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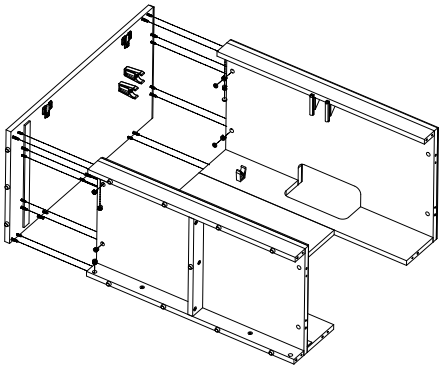




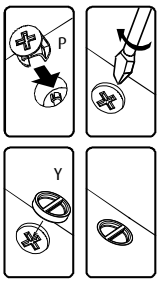
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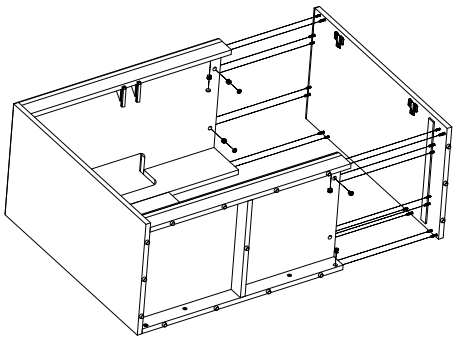
Px7,Yx3



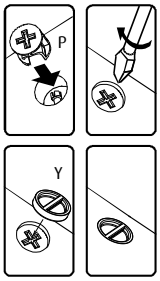
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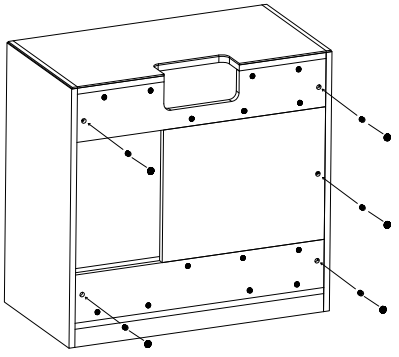
Px7,Yx3



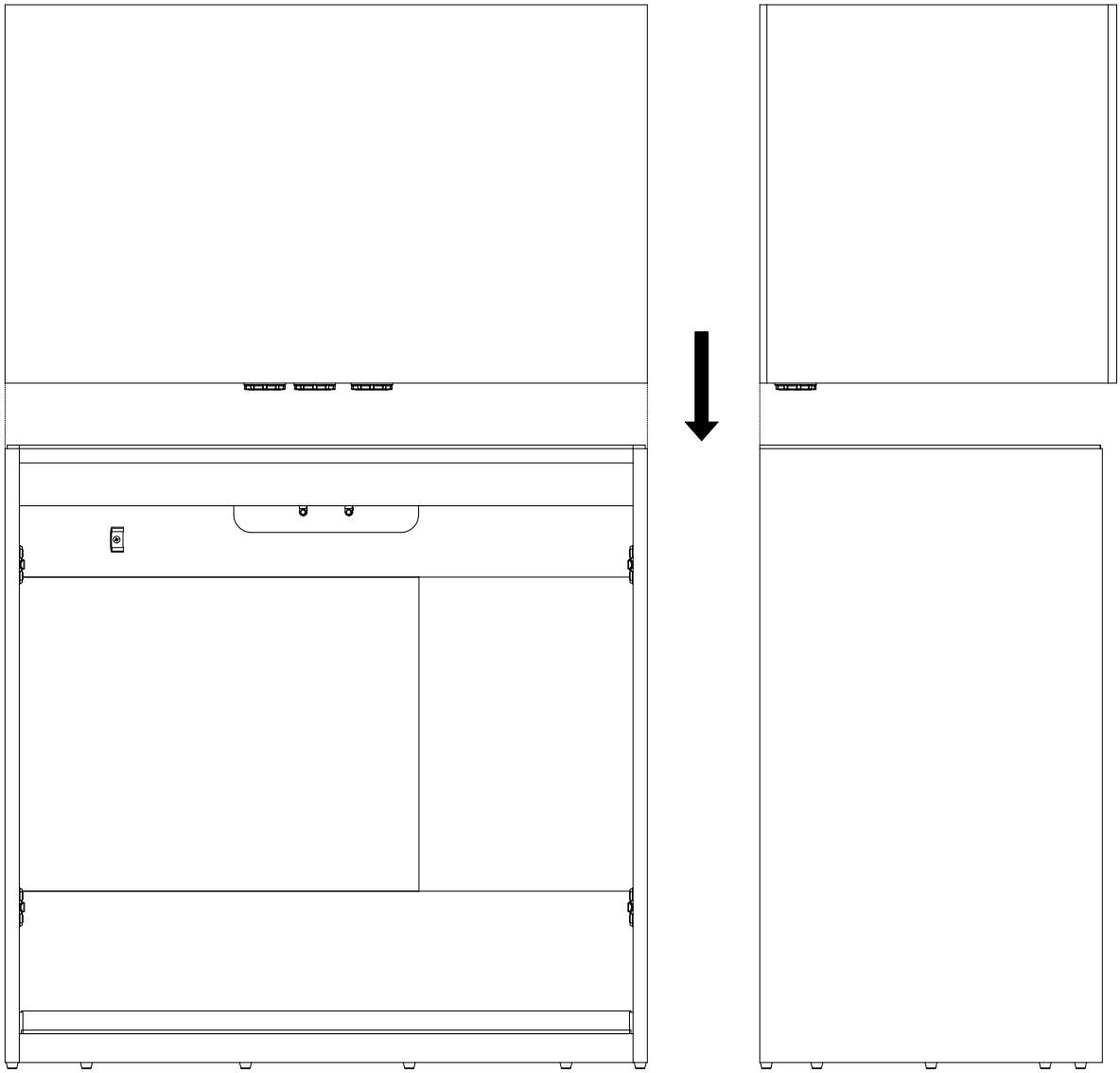
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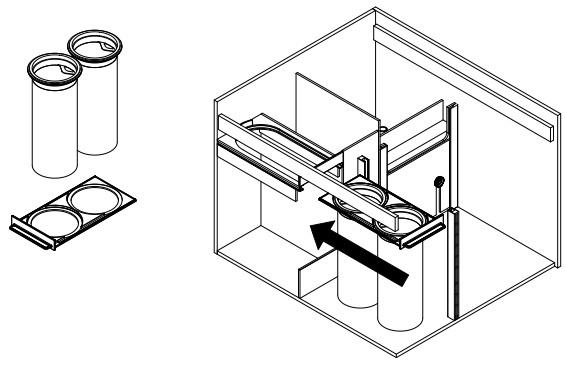
Px5, Yx5



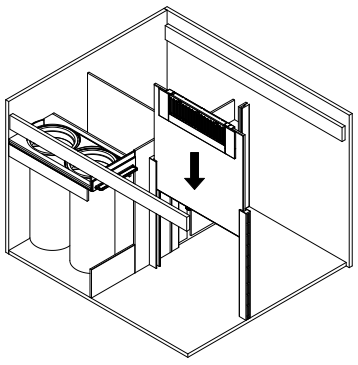
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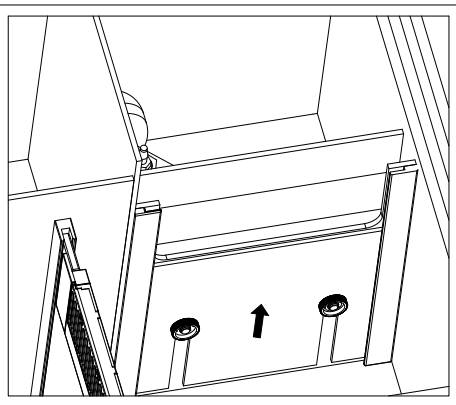
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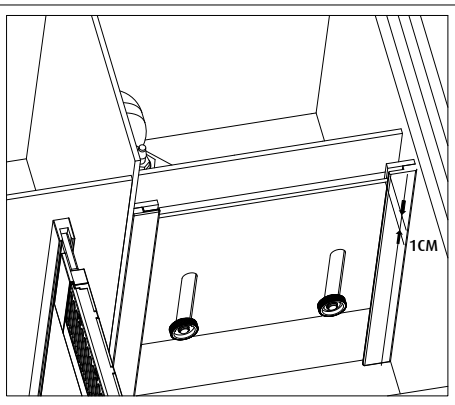
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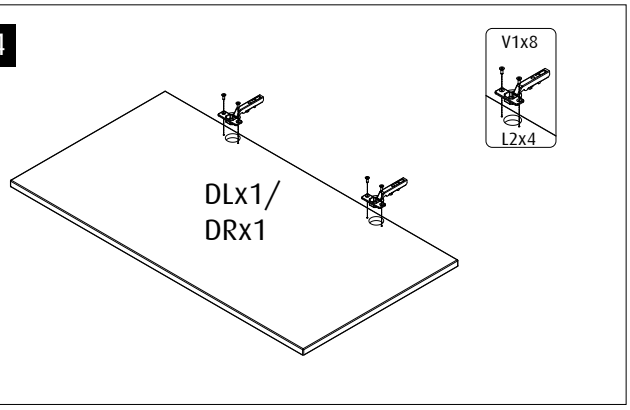
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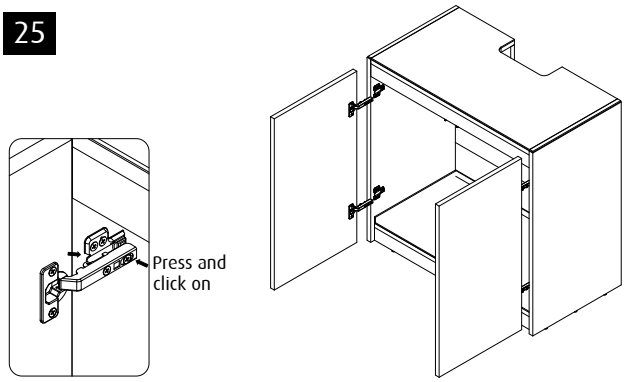
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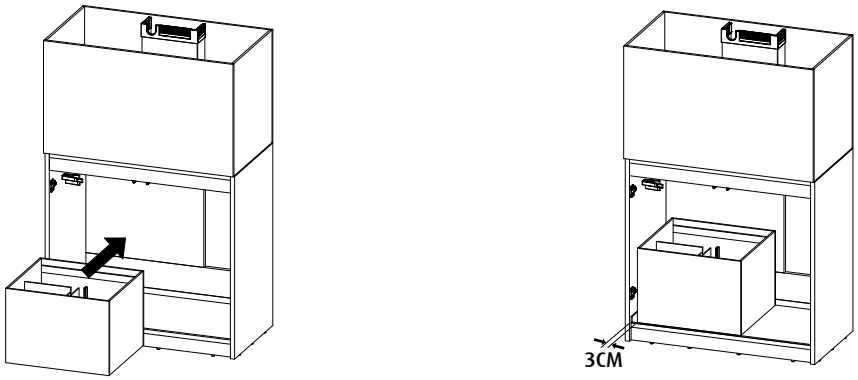
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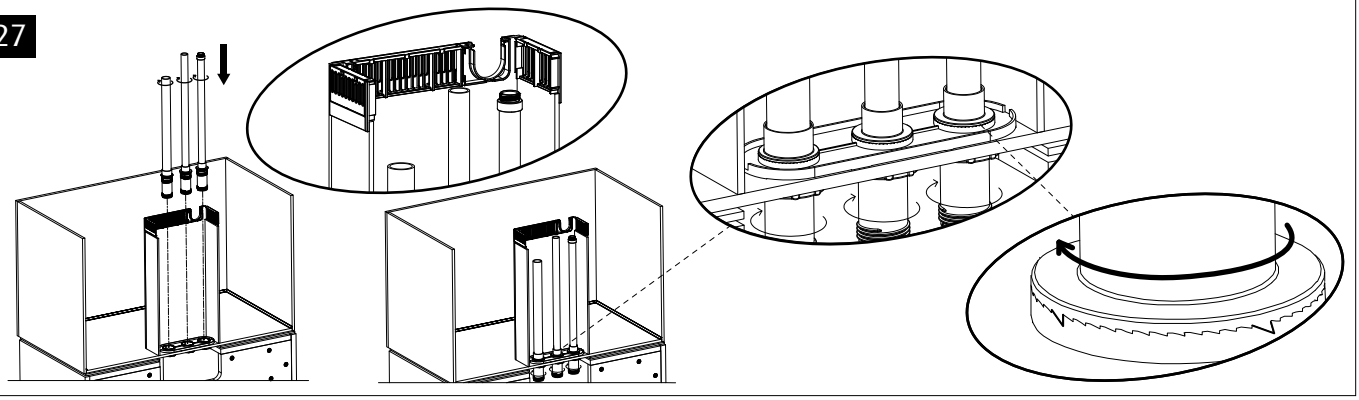
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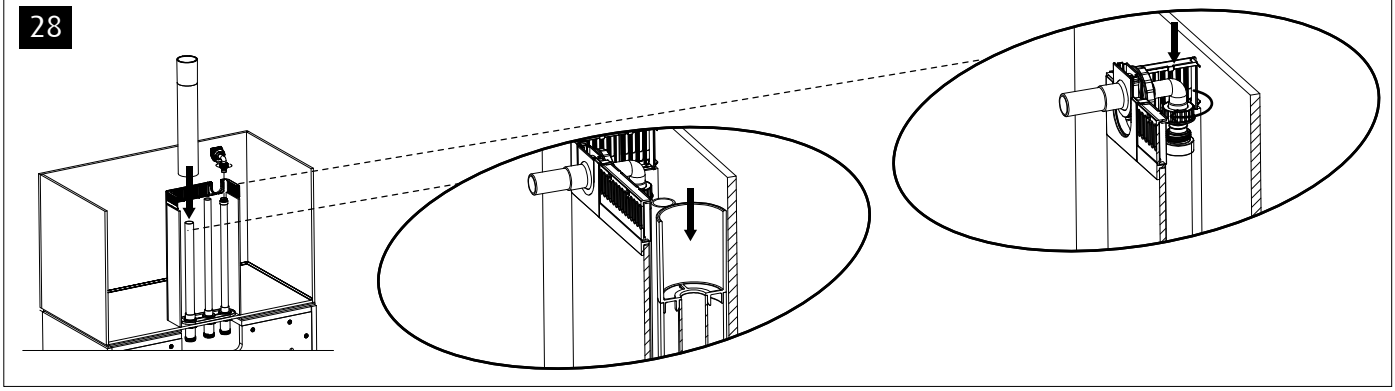
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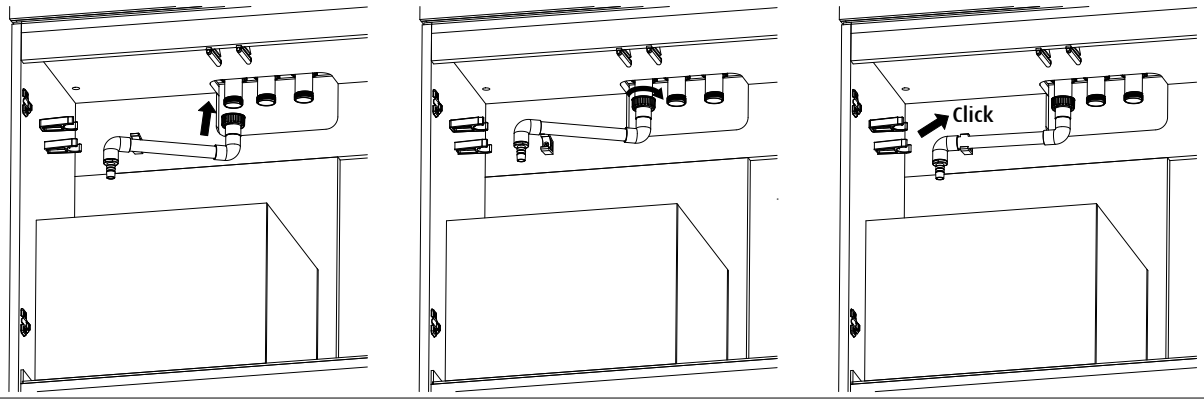
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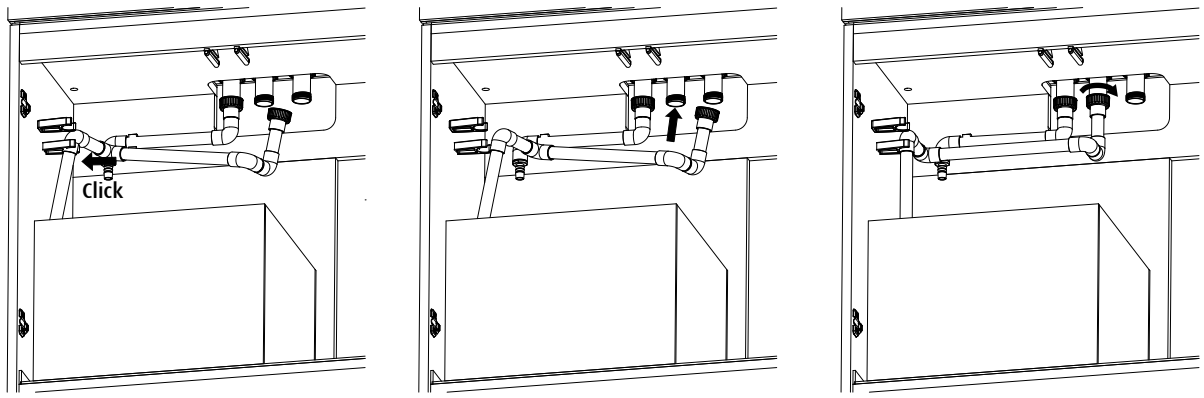
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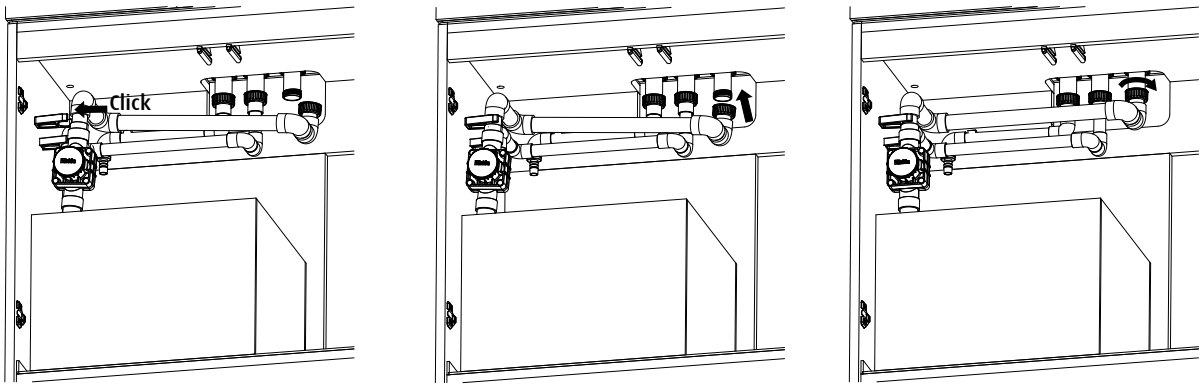
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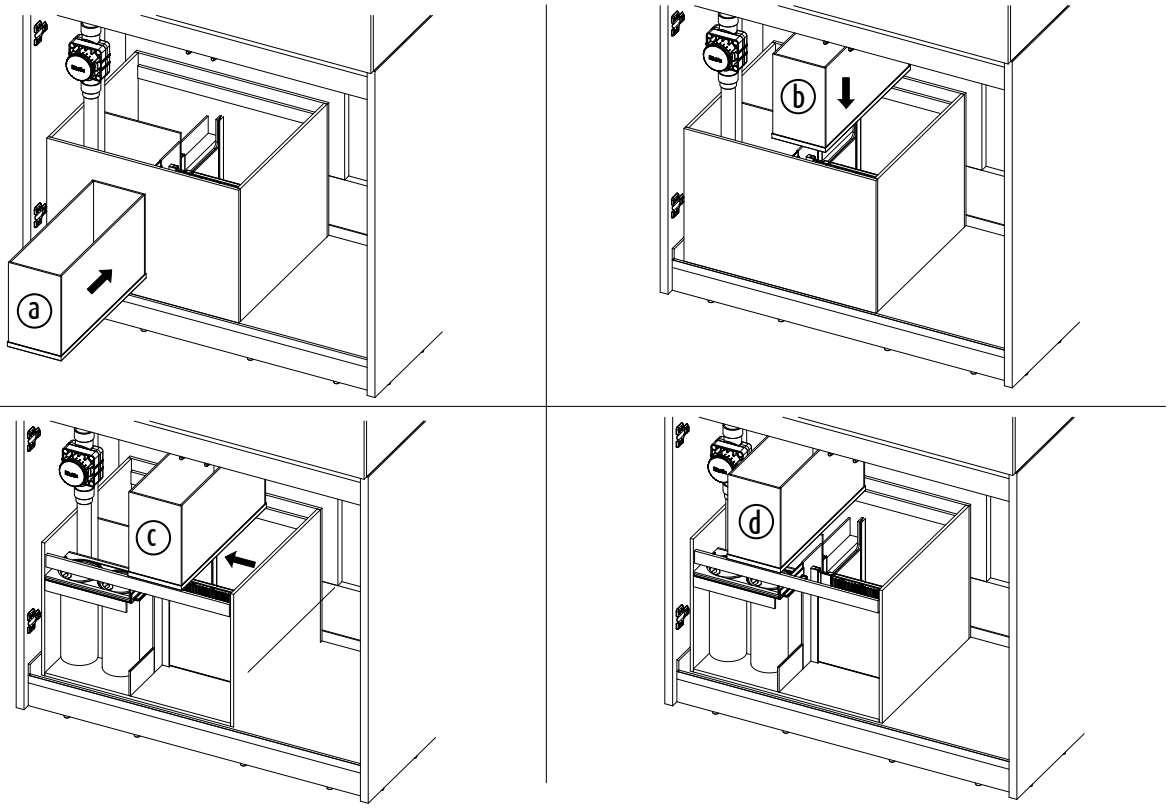
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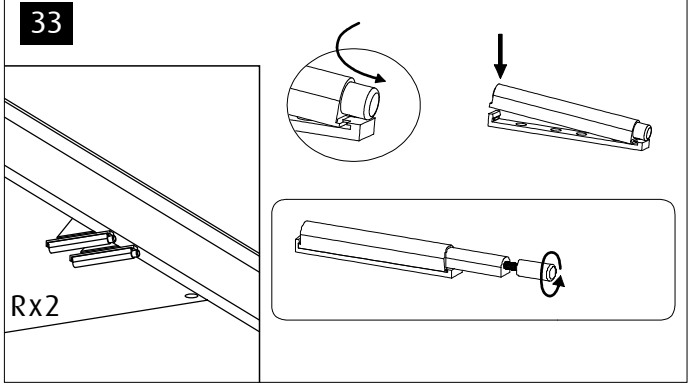
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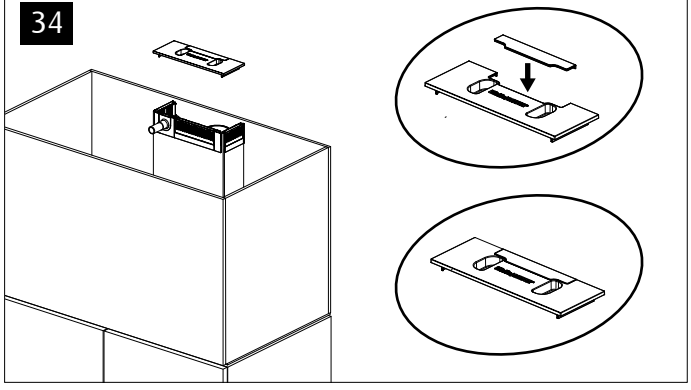
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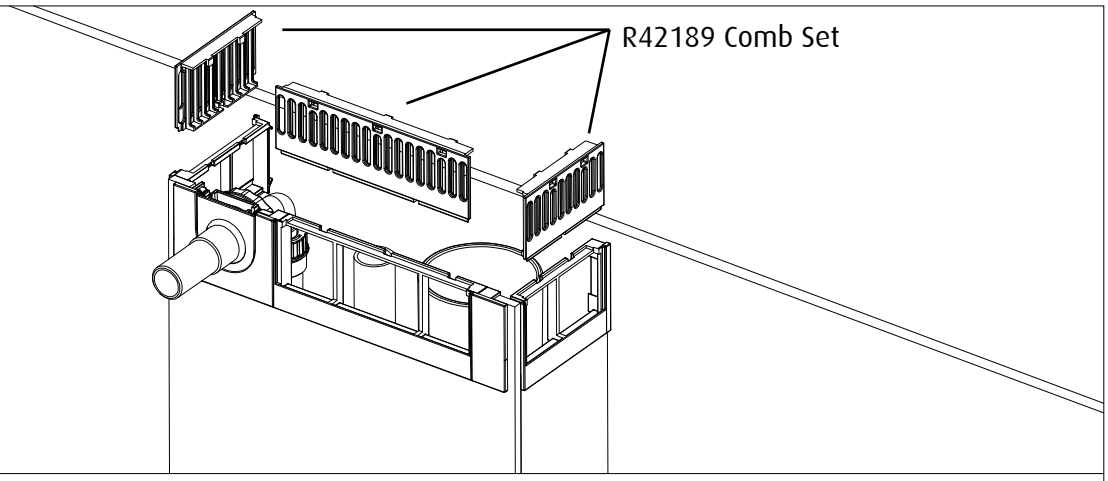


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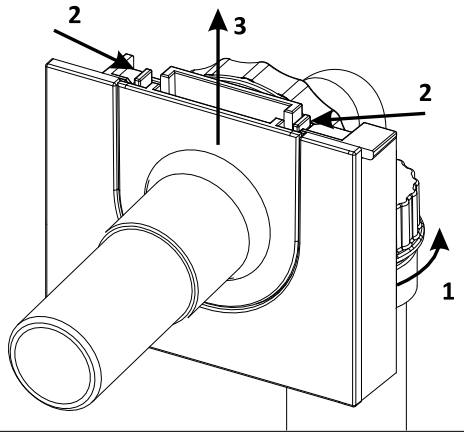


MAINTENANCE

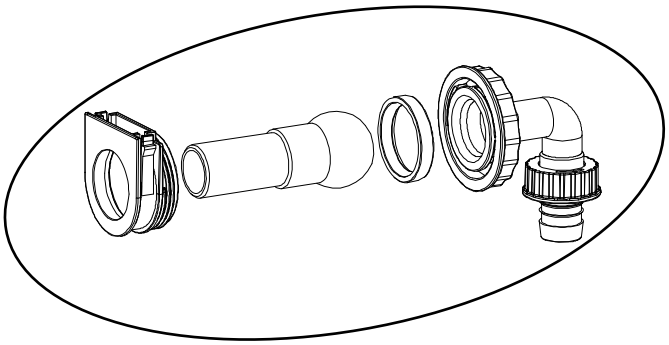
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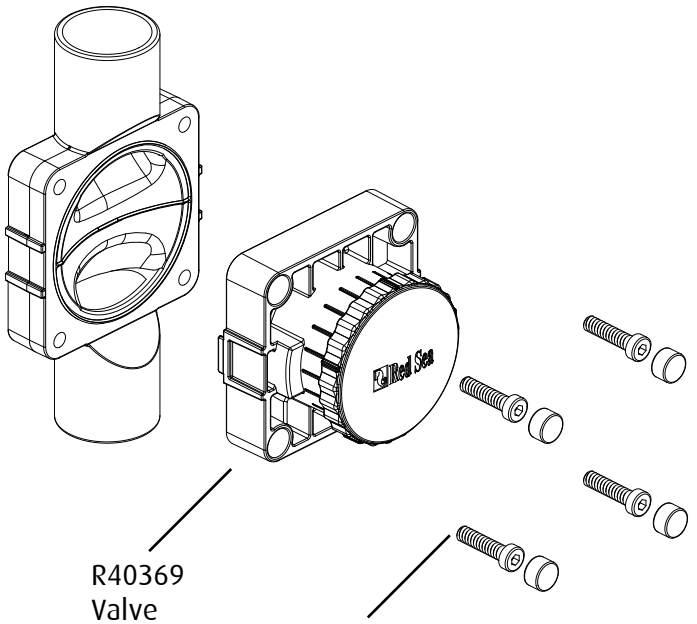
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R42188 Outlet Assembly



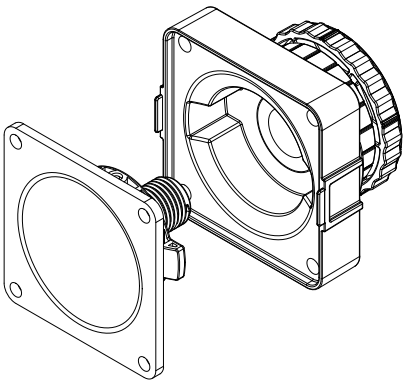
C 1



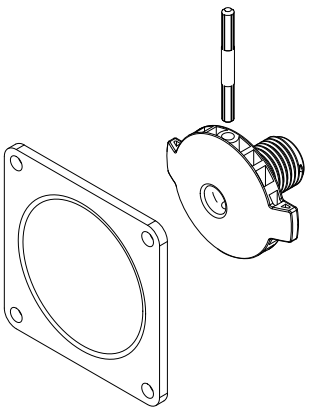
R40369
Valve

R40371
Screw Set

2



3



R40370
Diaphragm

#6633_REEFER 250 V3 Cabinet & Aquarium Manual_v18a

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PRINTING INSTRUCTIONS

To print **only** the Cabinet Installation Guide, print pages 116-125

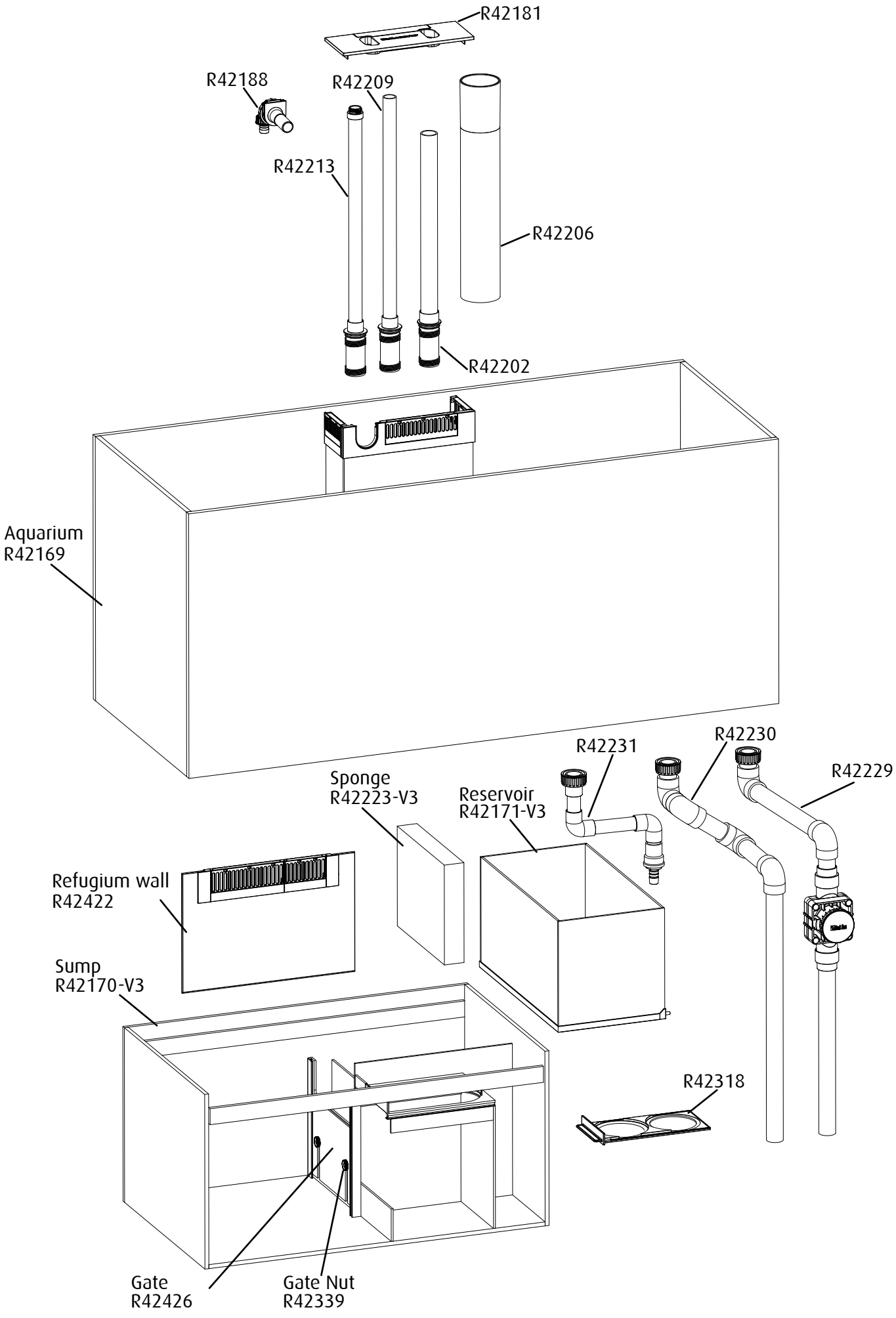
Red Sea REEFER™

350 (refugium ready)

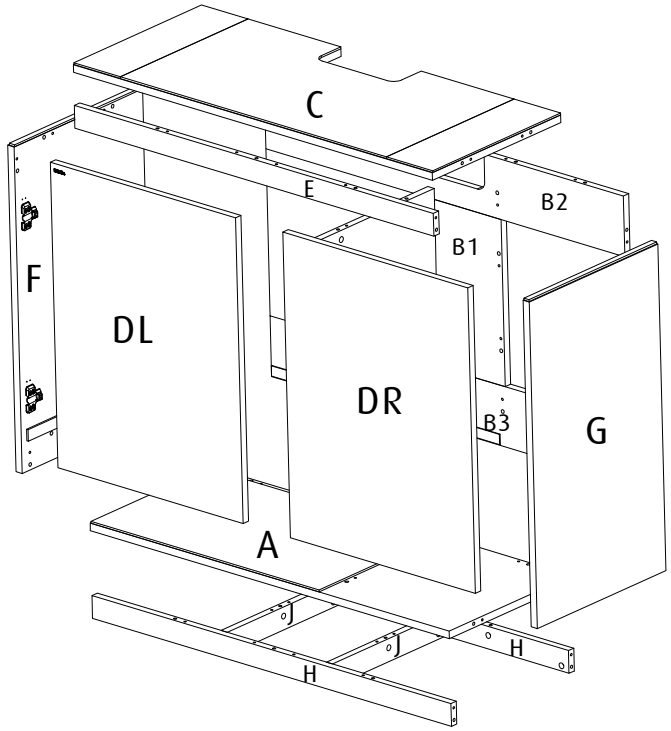
Aquarium & Cabinet Assembly Manual

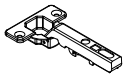
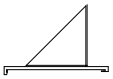
Red Sea

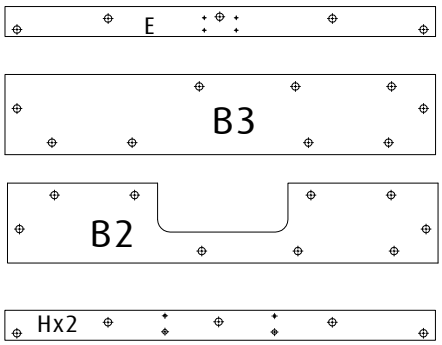
Aquarium Water Management System

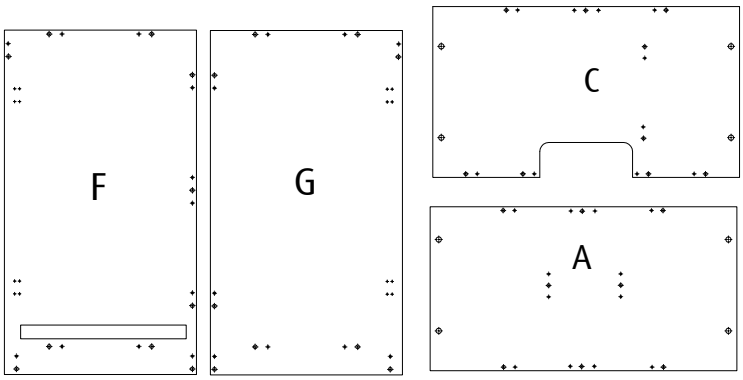


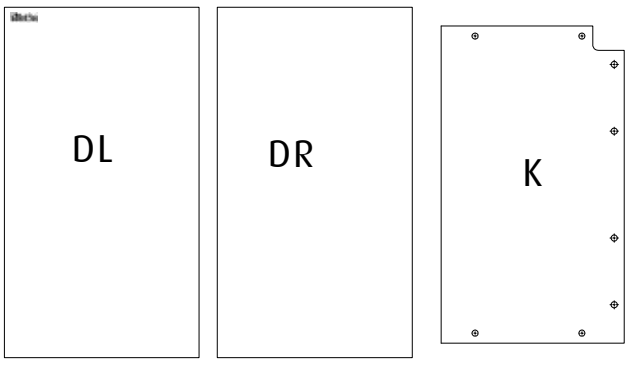
Cabinet



L2		4
L1		
N		62
M		56
P		56
Y		28
R		2
W		2
V1	ST4x16	24
V2	ST3.5x14	4
V3	ST5x35	1
V4	ST5x60	2
Y32		2
Y25		1

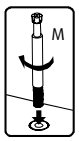


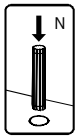


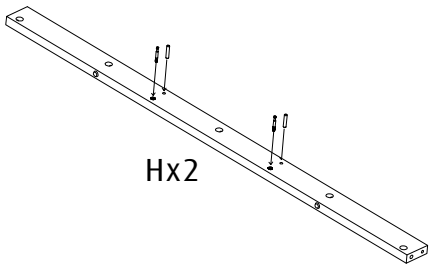


RF350 V3	Black	White	Part Description
C	5291B	5291W	Cabinet Top
A	5292B	5292W	Cabinet Bottom
H	5293B	5293W	Cabinet Front Lower
B1	5294B	5294W	Cabinet Rear Middle
B2	5295BV3	5295WV3	Cabinet Rear Top
B3	5296B	5296W	Cabinet Rear Bottom
K	5297BV3	5297WV3	Cabinet Internal Wall
E	5298B	5298W	Cabinet Front Upper
D	5275B	5275W	Cabinet Door
F	5276BV3	5276WV3	Cabinet Side Left
G	5277BV3	5277WV3	Cabinet Side Right
J	5287B	5287W	Cabinet Base Support

1



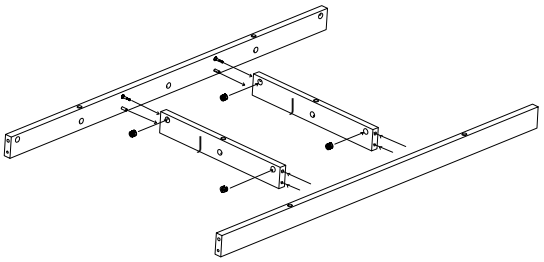




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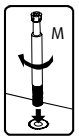


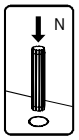


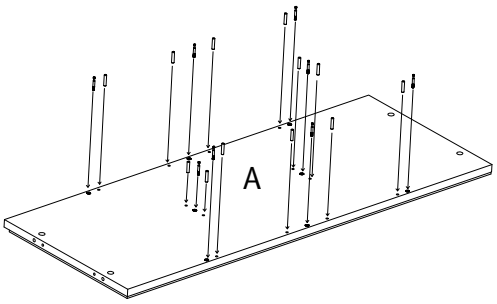


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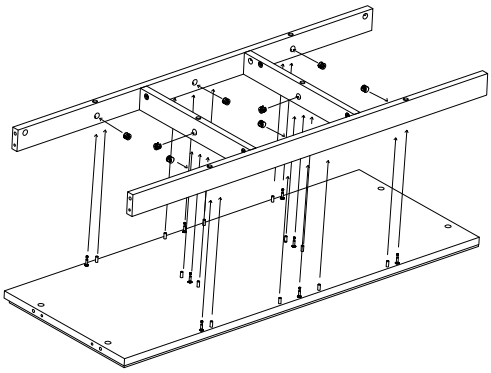




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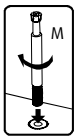


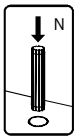


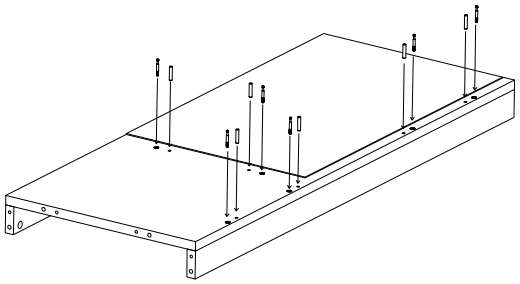


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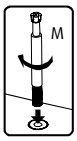
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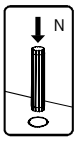


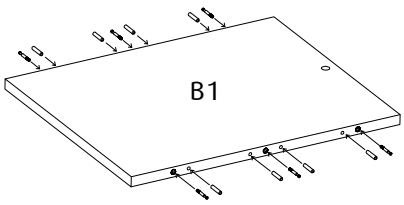




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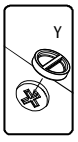


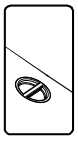


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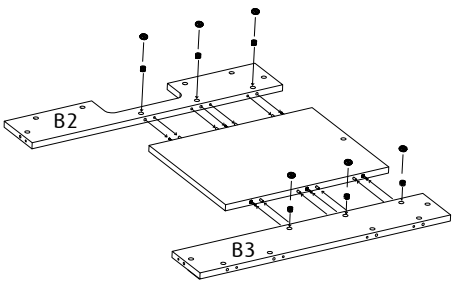




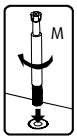


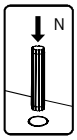


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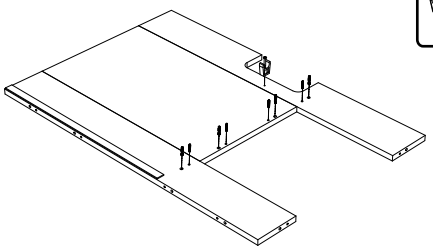


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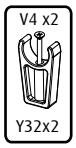


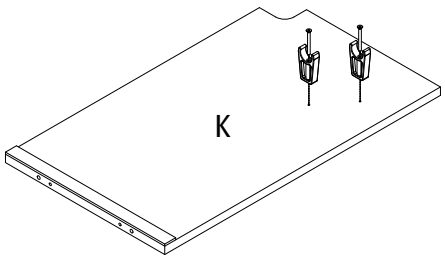






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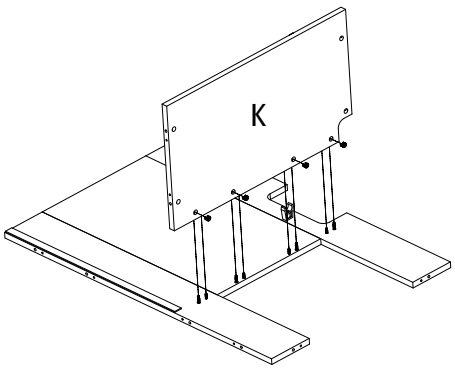




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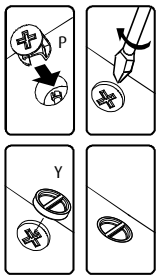




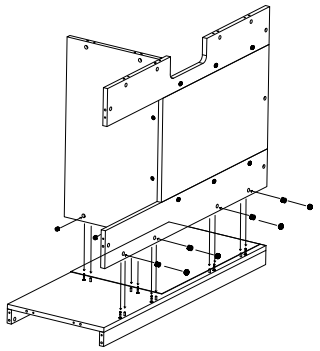


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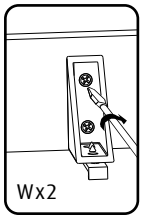
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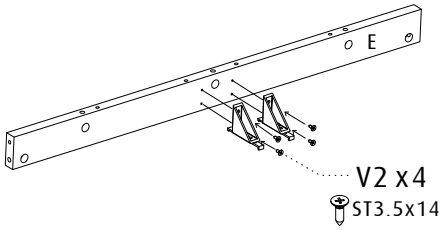


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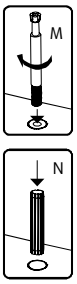


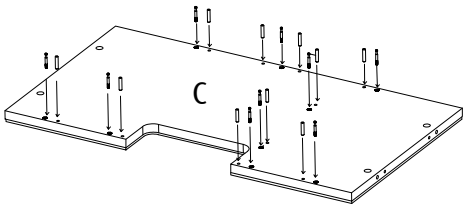
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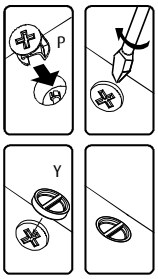


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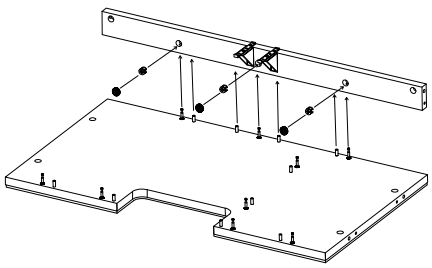




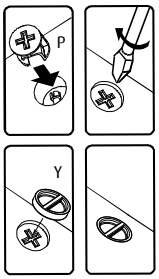
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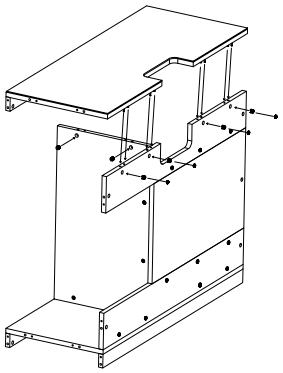
Px3, Yx3



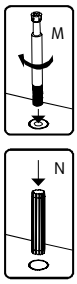
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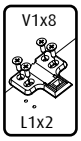


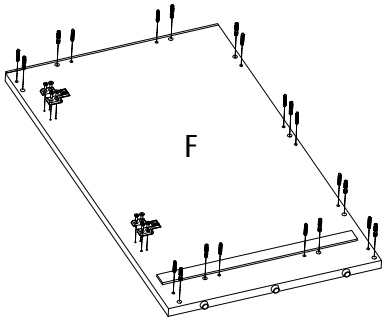
Px6, Yx4



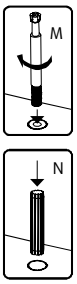
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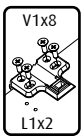




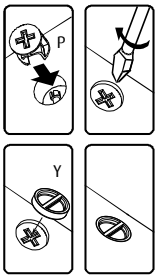


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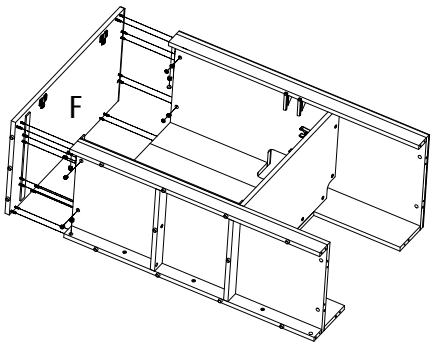




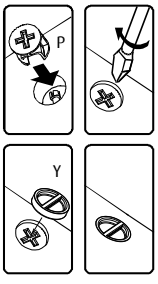
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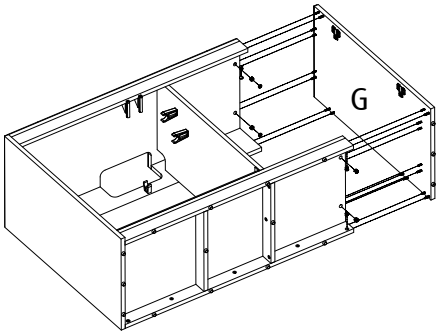
Px7,Yx3



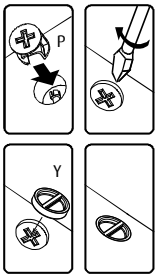
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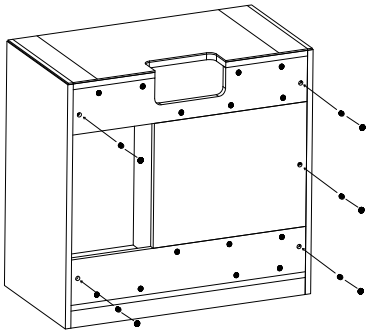
Px7,Yx3



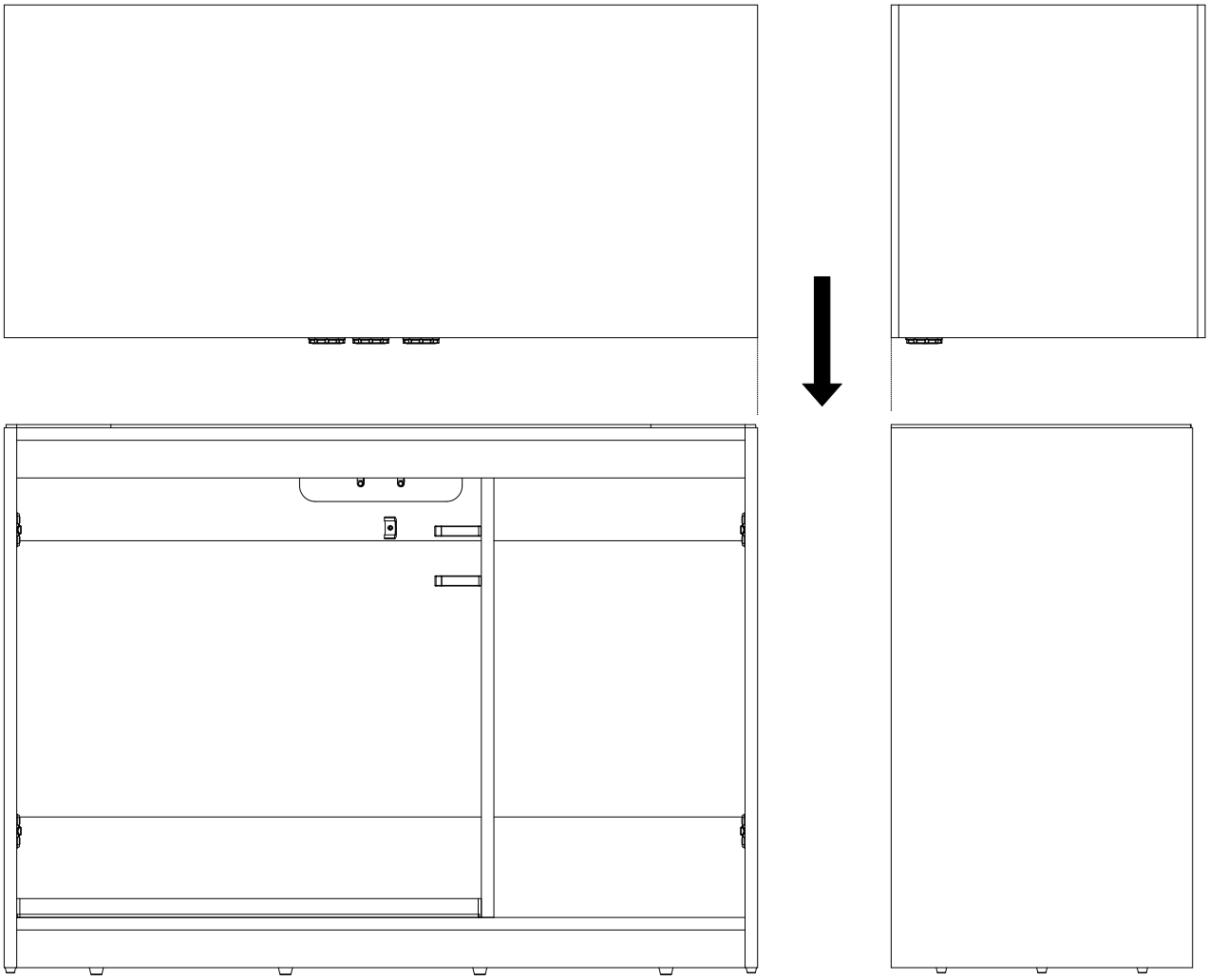
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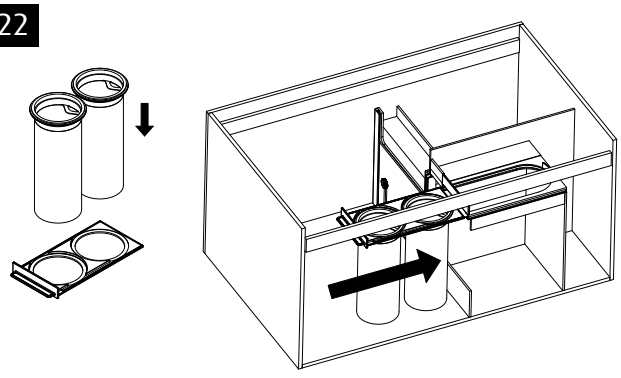
Px5, Yx5



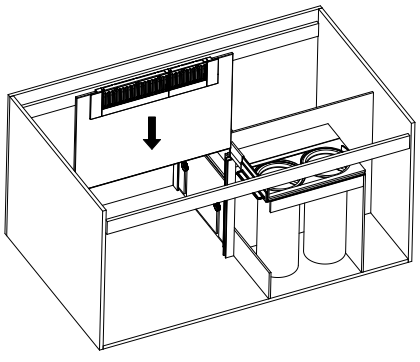
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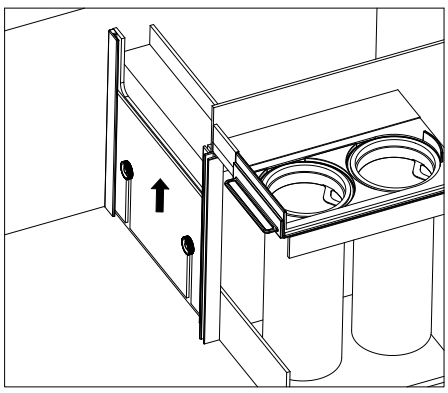
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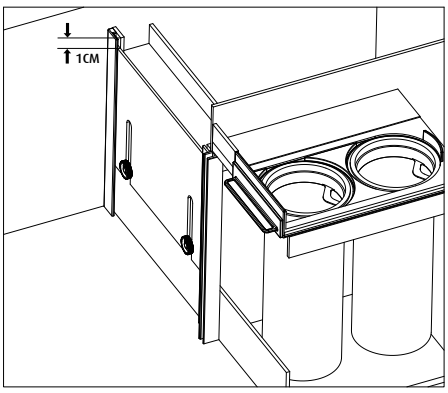
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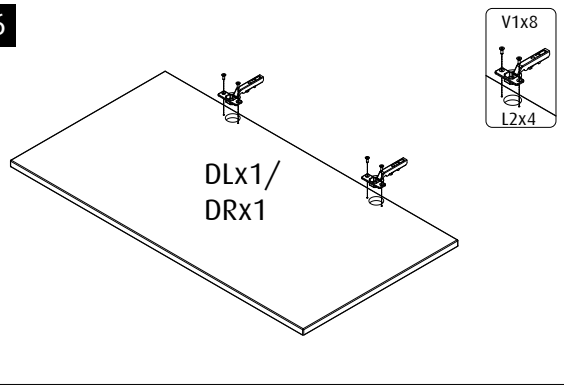
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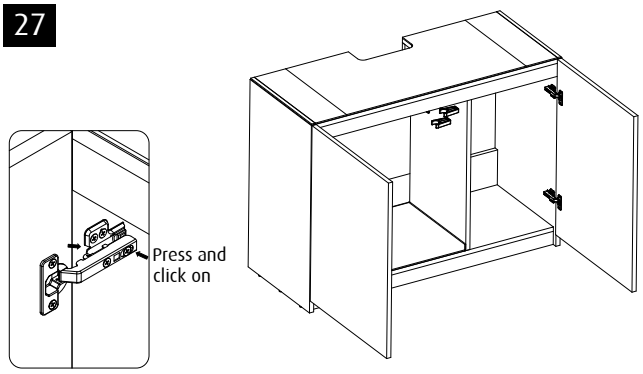
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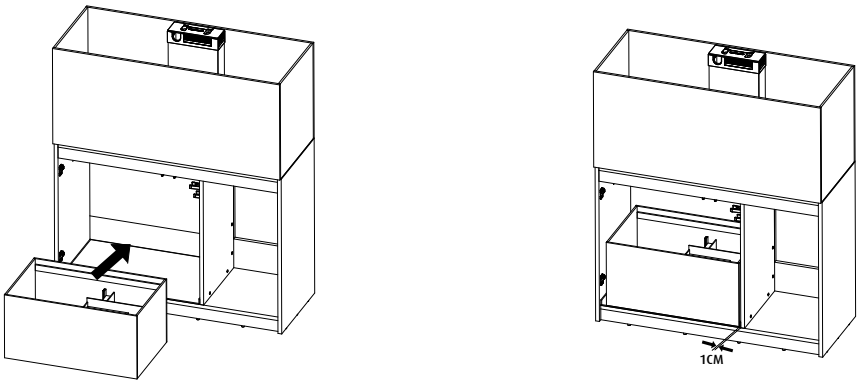
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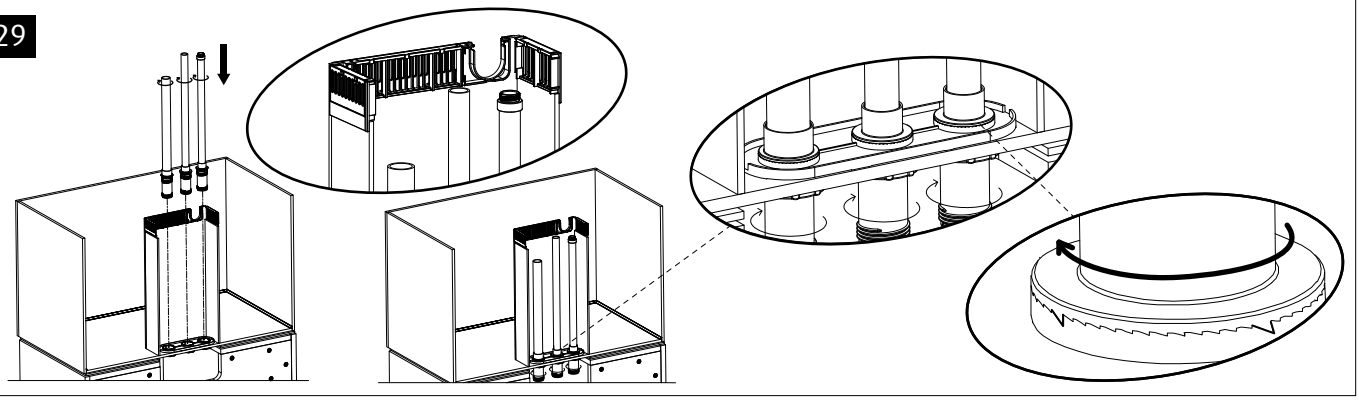
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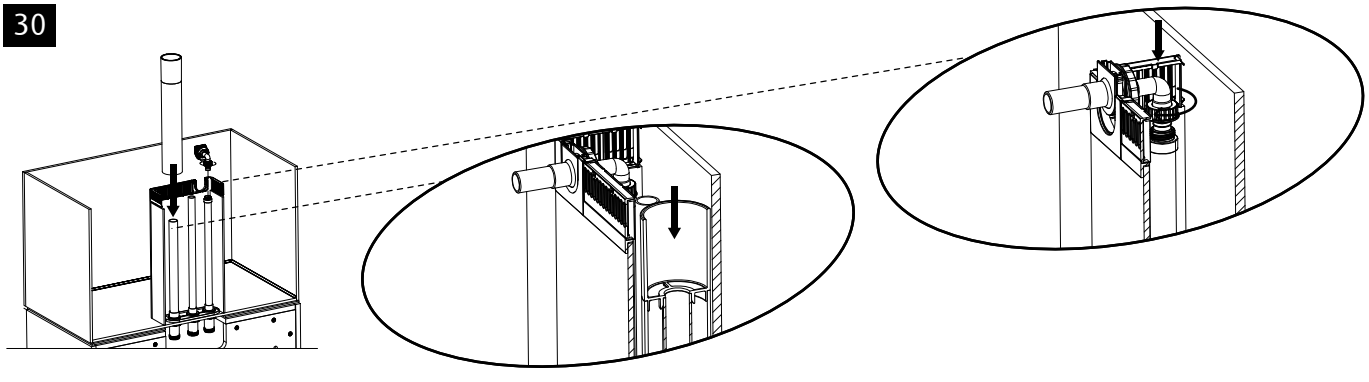
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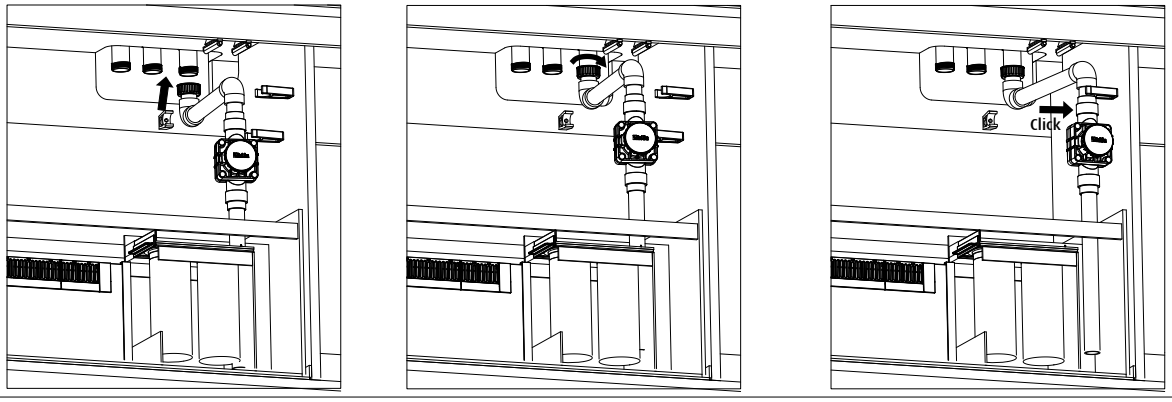
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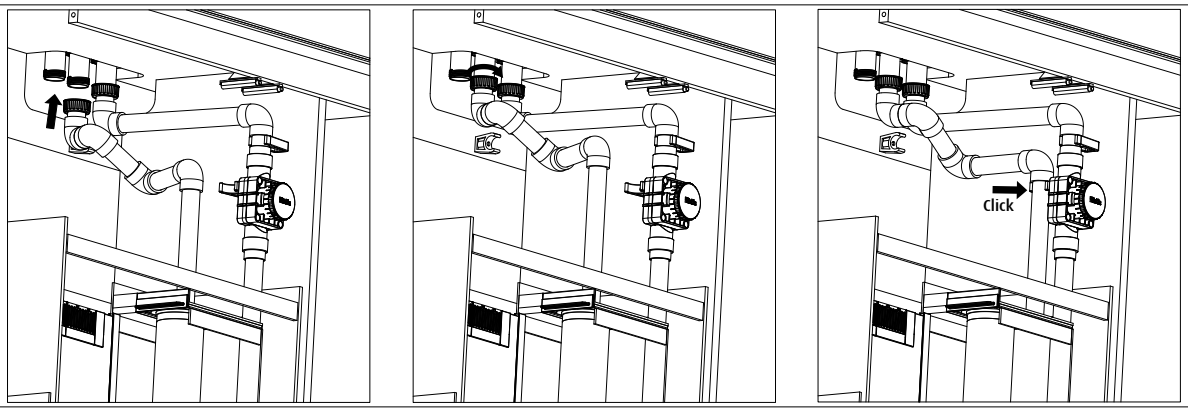
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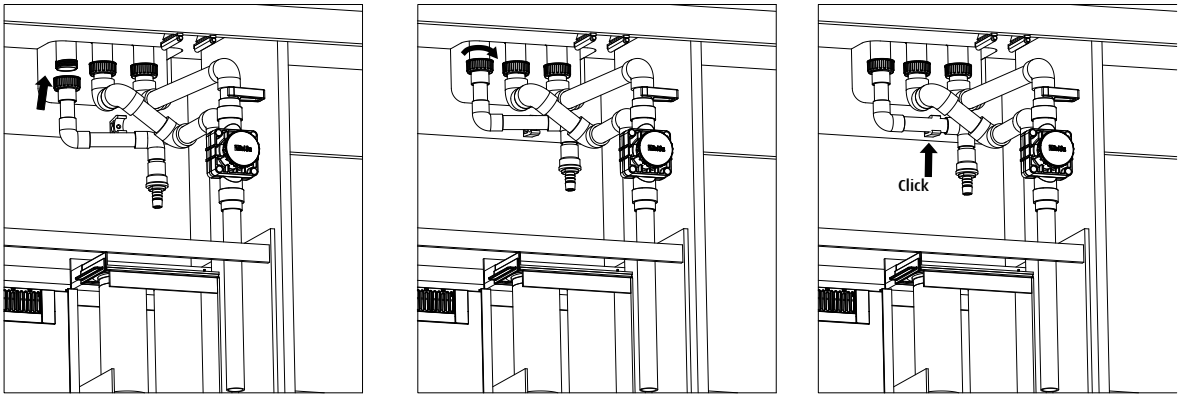
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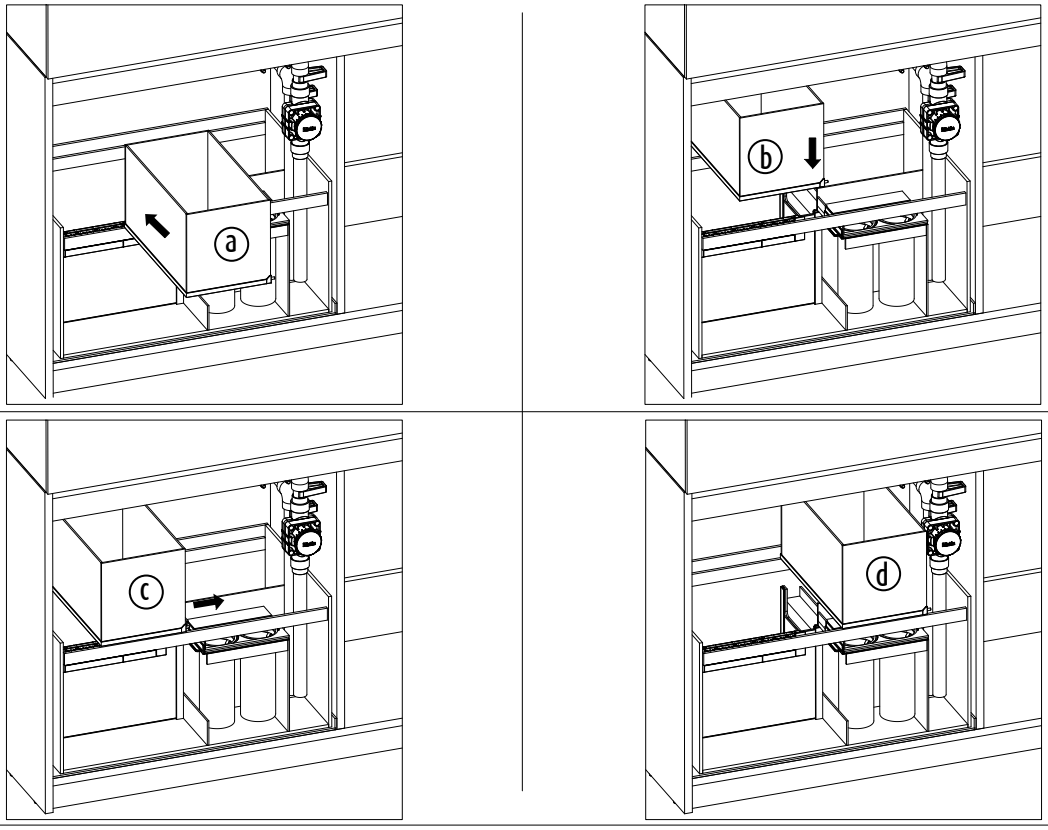
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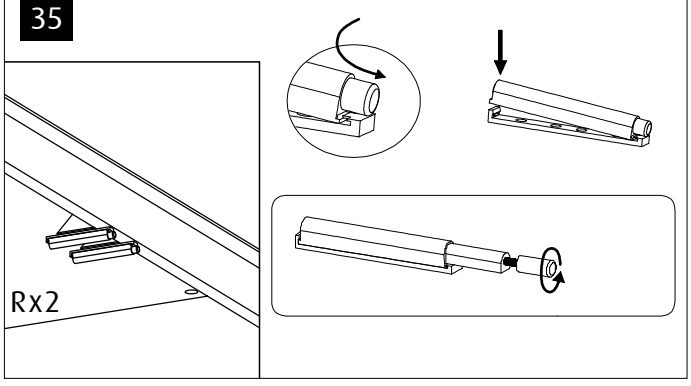
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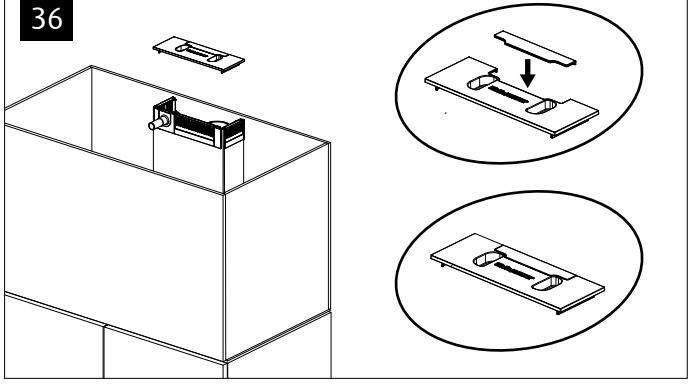
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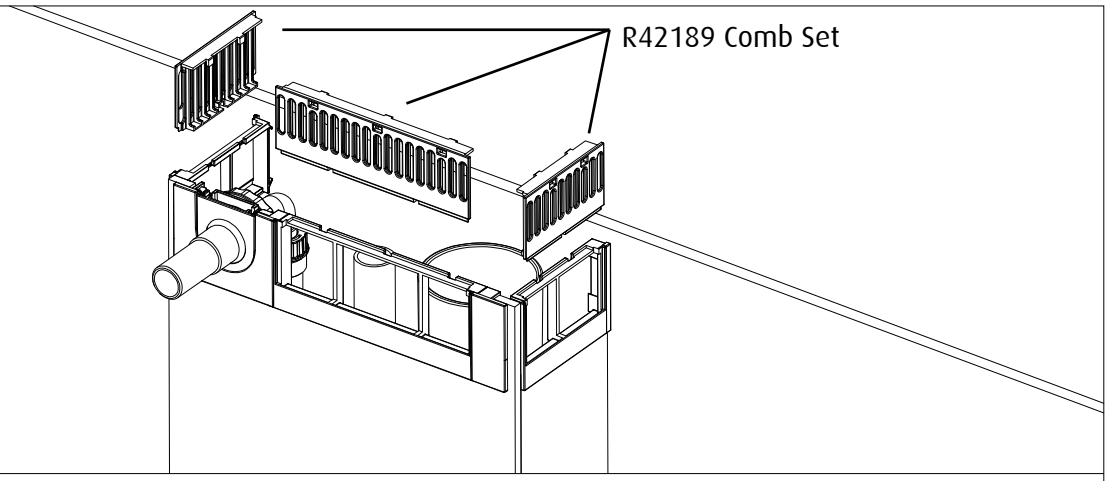


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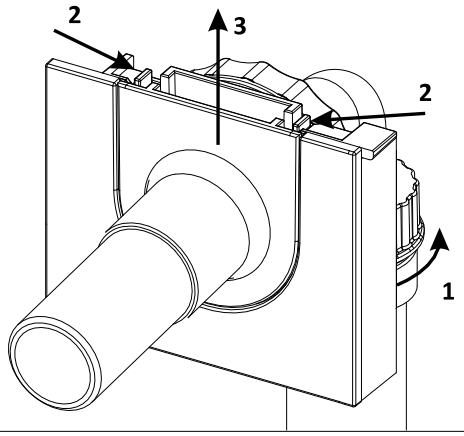


MAINTENANCE

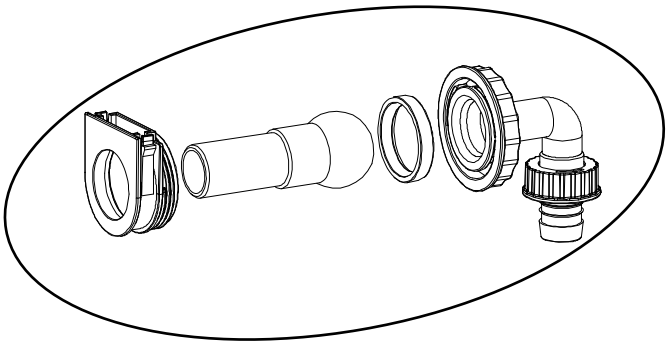
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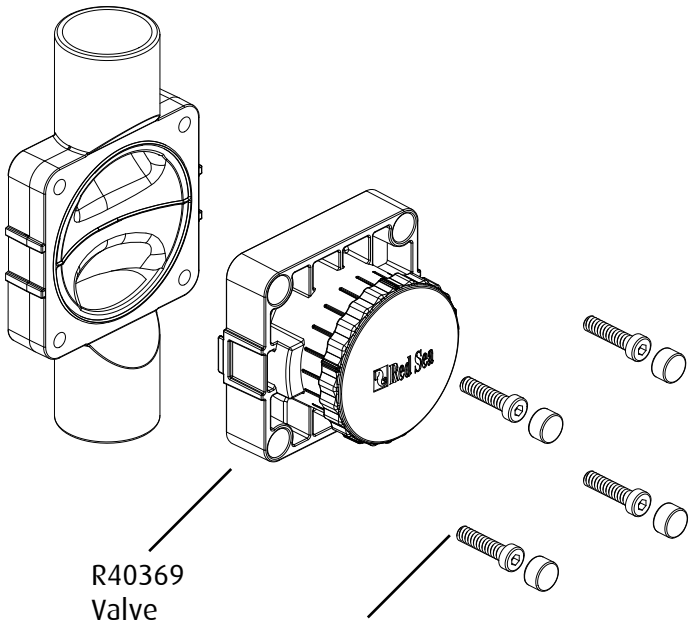
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R42188 Outlet Assembly



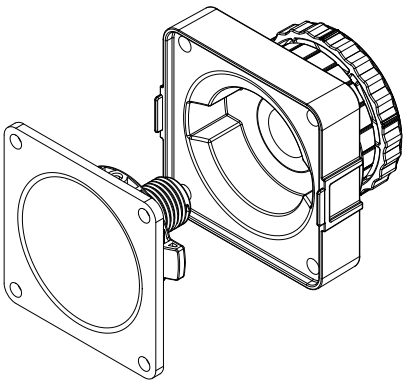
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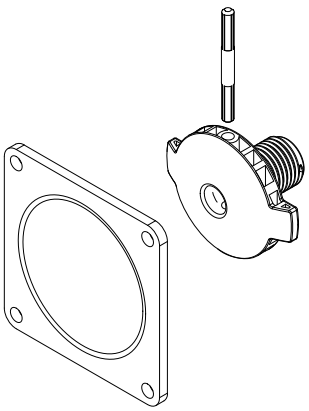
R40369
Valve

R40371
Screw Set

2



3



R40370
Diaphragm

#6634_REEFER 350 V3 Cabinet & Aquarium Manual_v18a

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Red Sea
www.redseafish.com

PRINTING INSTRUCTIONS

To print **only** the Cabinet Installation Guide, print pages 126-136

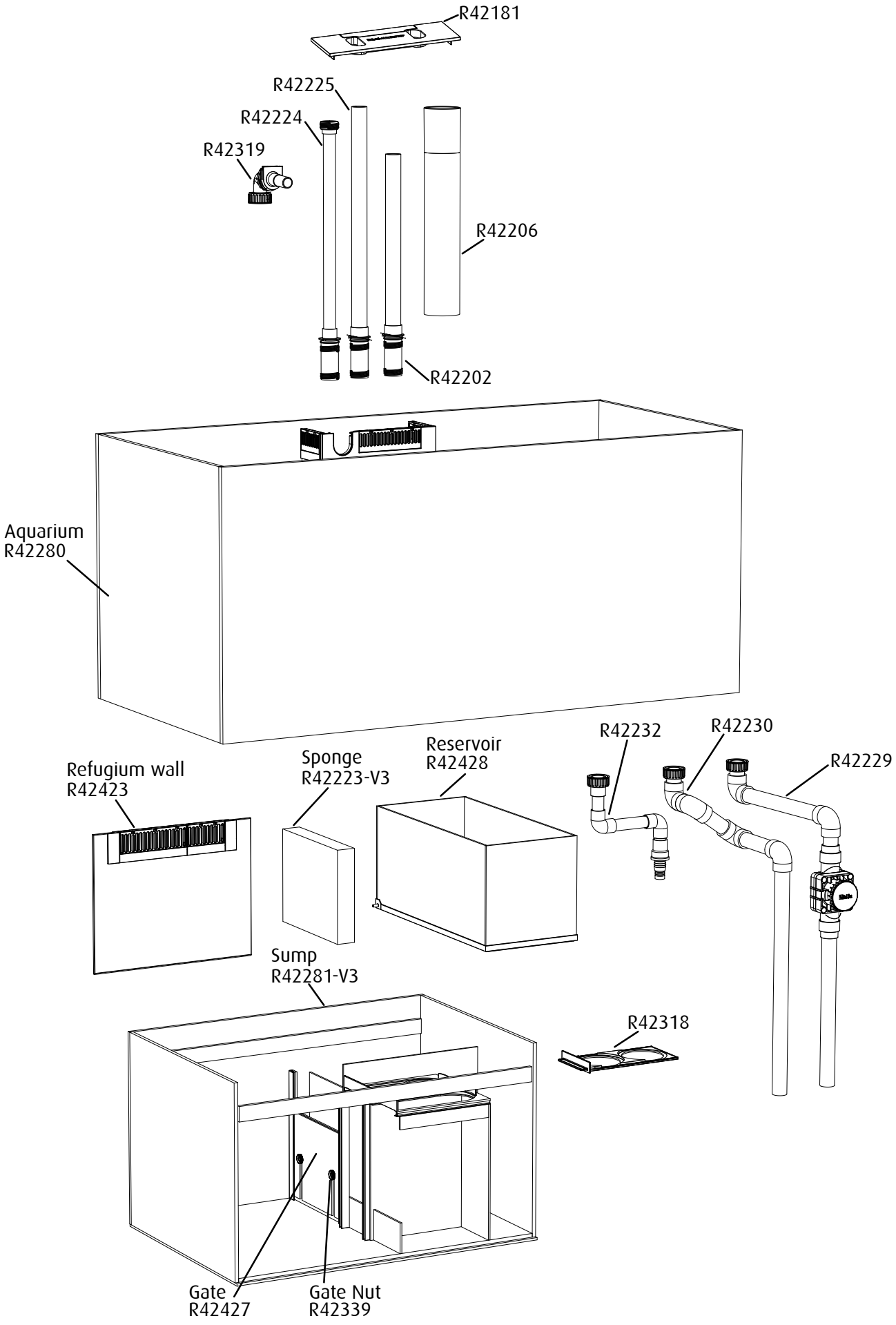
Red Sea REEFER™

DLX 425 (refugium ready)

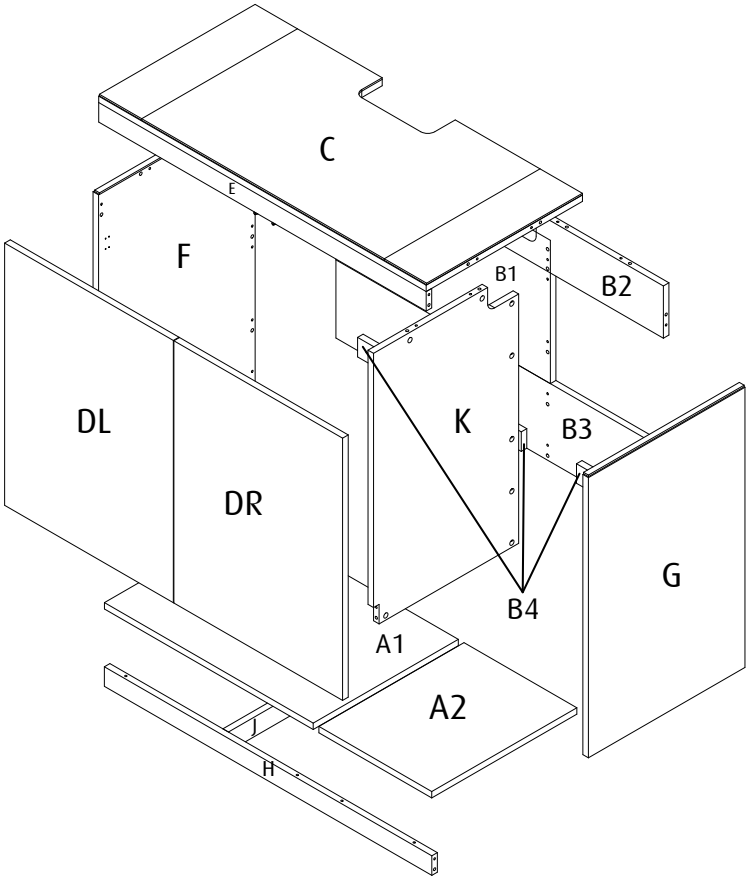
Aquarium & Cabinet Assembly Manual

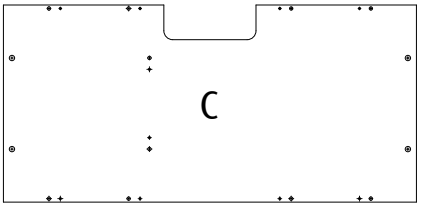
Red Sea

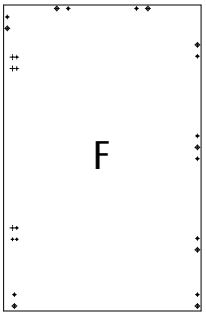
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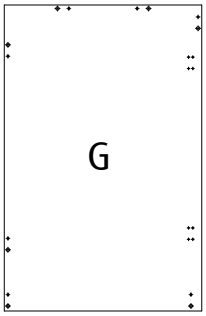


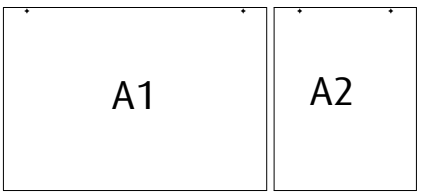
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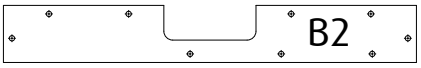


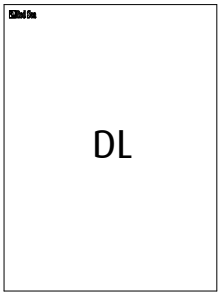


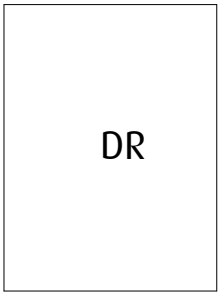




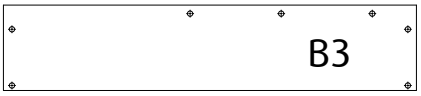




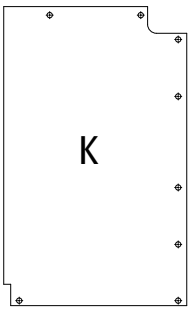


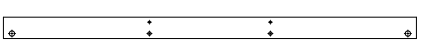


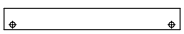


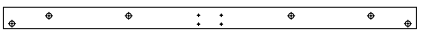


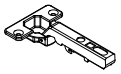
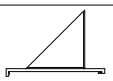






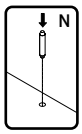


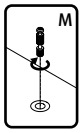


L2 		4
L1 		
N 		47
M 		40
P 		40
Q 		40
R 		2
T 		2
V1 	ST4x16	24
V2 	ST3.5x14	4
V3	ST5x35	7
V4	ST5x60	2
W 		6
Y32 		2
Y25 		1
Z 		15

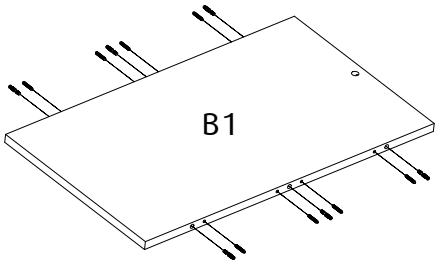
RFXL 425 V3	Black	White	Part Description
A1	6617	6617	Cabinet Bottom Sump
A2	6618	6618	Cabinet Bottom Chiller
B1	6628	6628	Cabinet Rear Middle
B2	6629	6629	Cabinet Rear Top
B3	6619	6619	Cabinet Rear Bottom
B4	6620	6620	Cabinet Rear Bottom Support
C	6616	6616	Cabinet Top
D	5275B	5275W	Cabinet Door
E	6630	6630	Cabinet Front Upper
F	6624BB	6624WB	Cabinet Side Left
G	6625BB	6625WB	Cabinet Side Right
H	6627B	6627W	Cabinet Front Lower
J	6626	6626	Cabinet Base Support
K	6623	6623	Cabinet Internal Wall

1

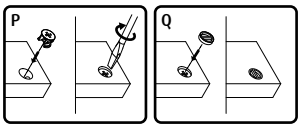




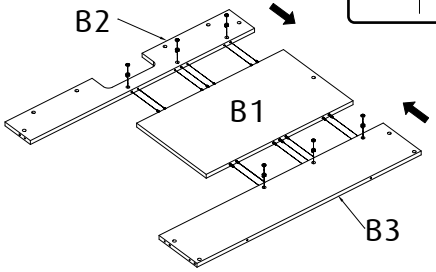
Nx8, Mx6



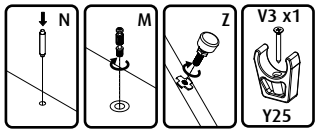
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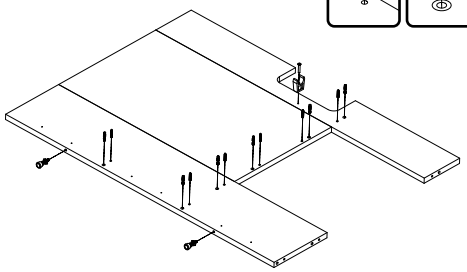
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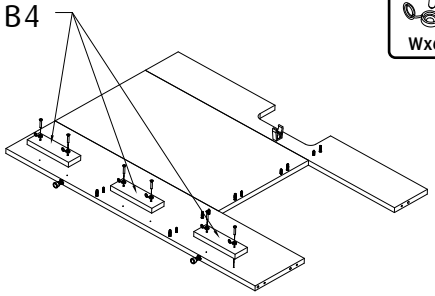


Nx6
Mx6
Zx2

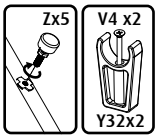


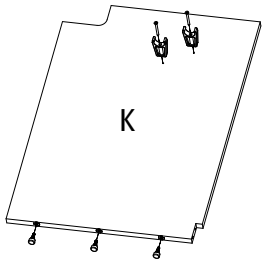
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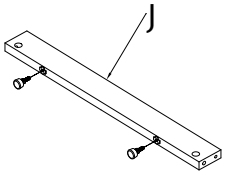




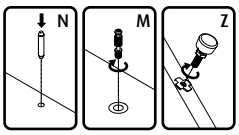
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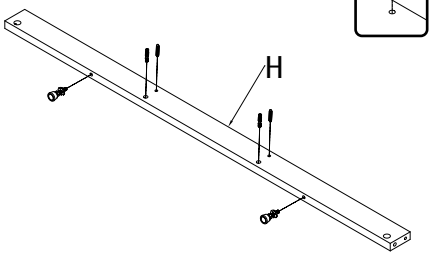




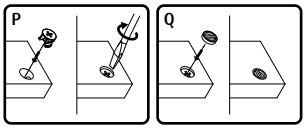
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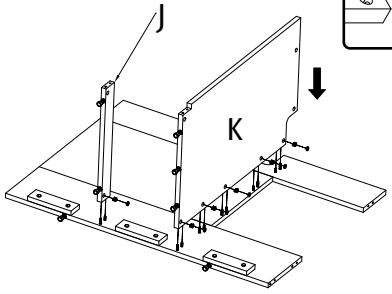
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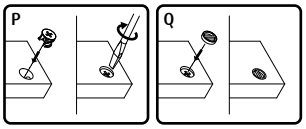
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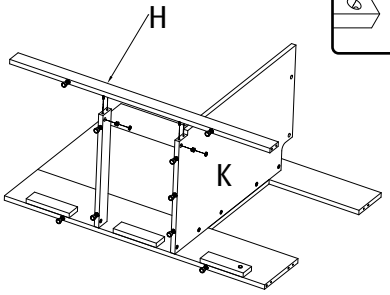
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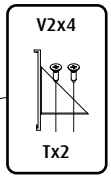
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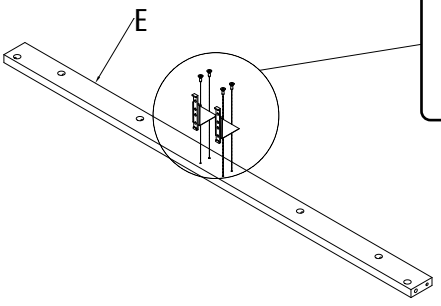


Px2
Qx2

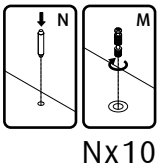


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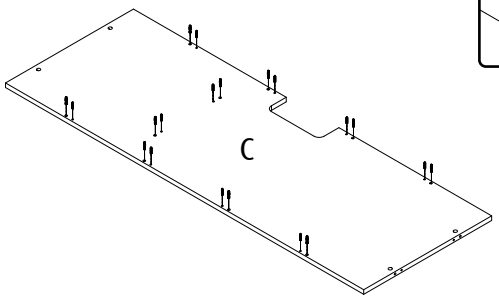




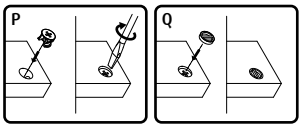
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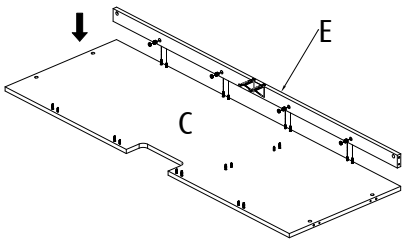
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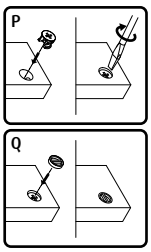
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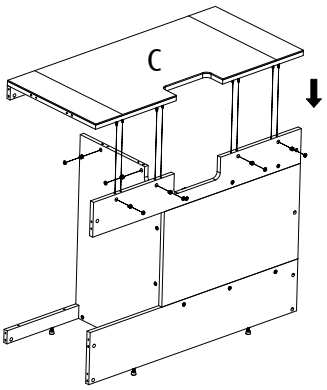
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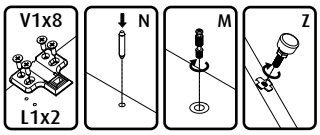
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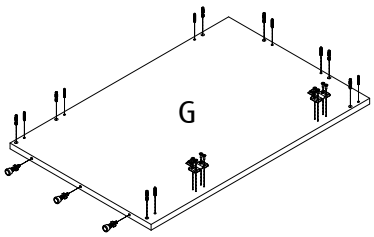
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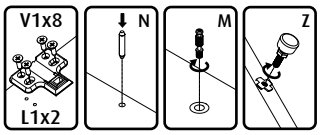
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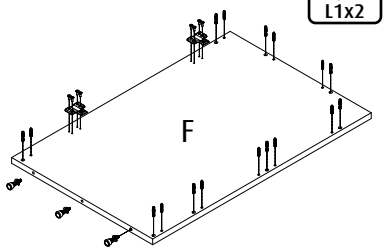
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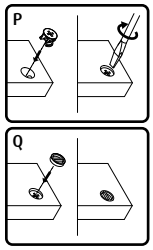
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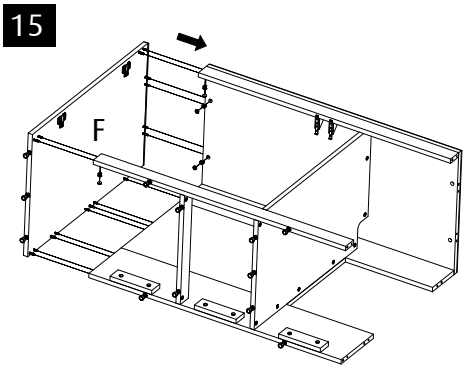
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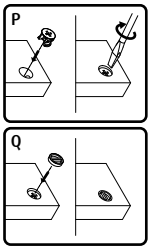
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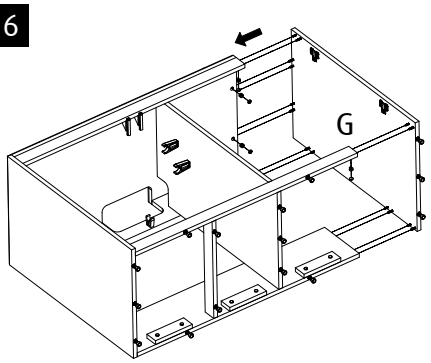
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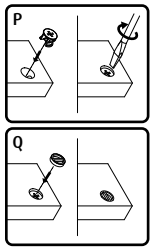
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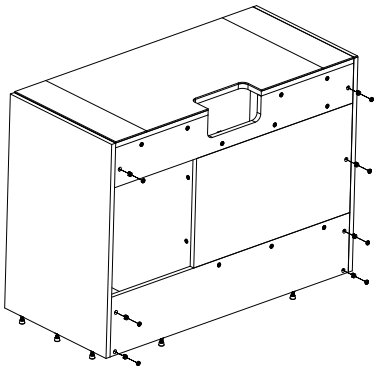
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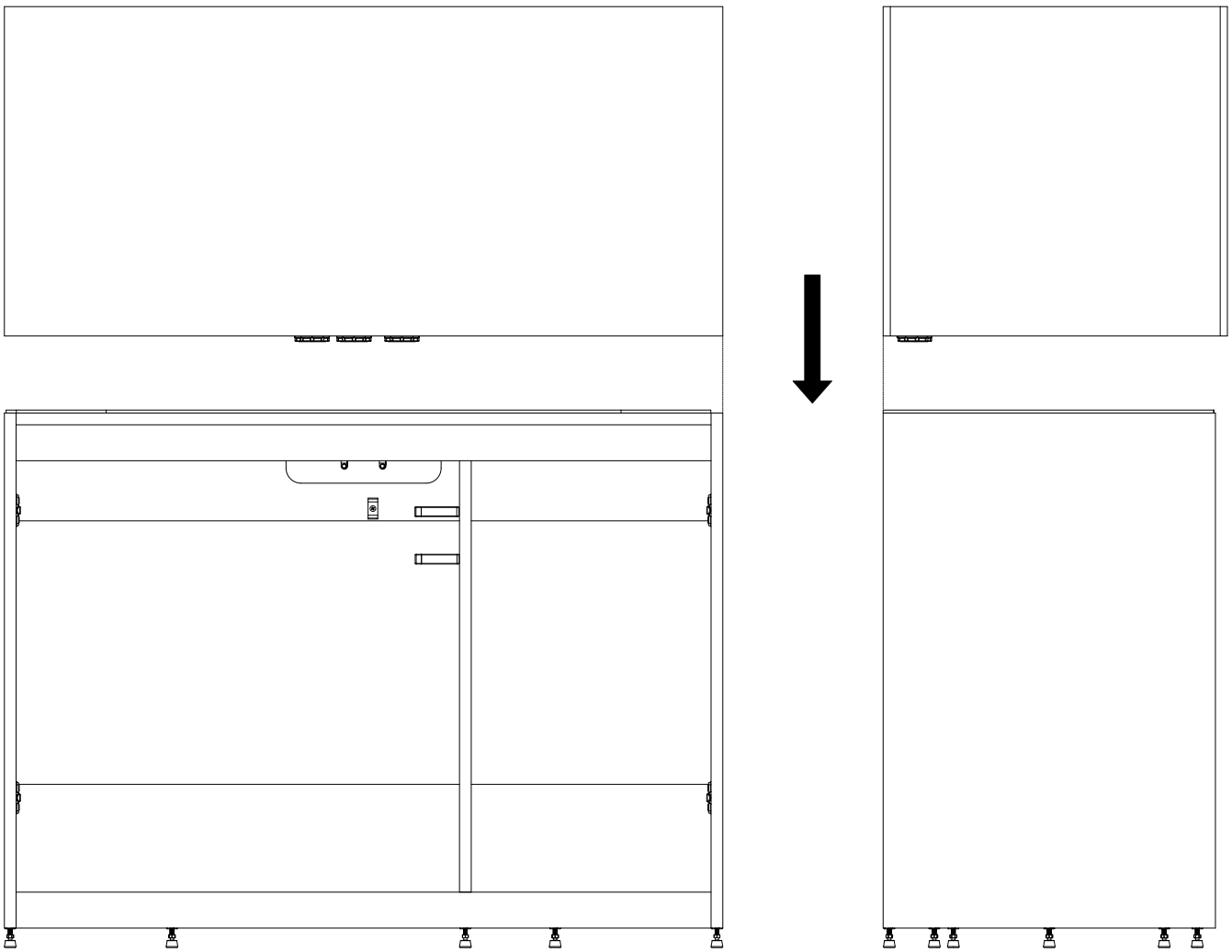
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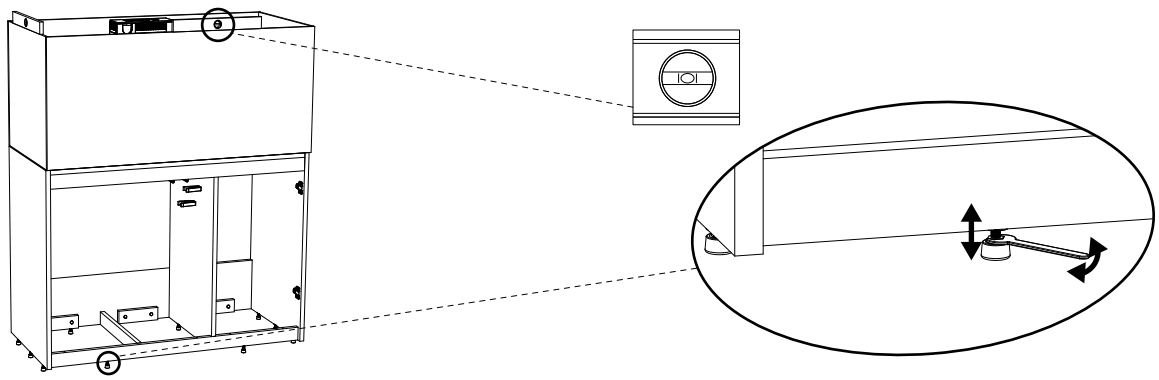
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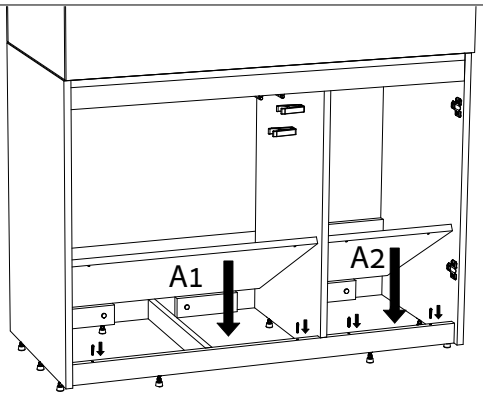
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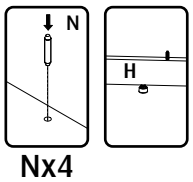


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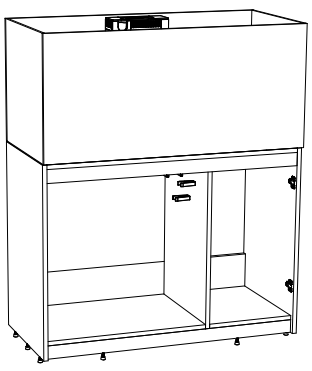


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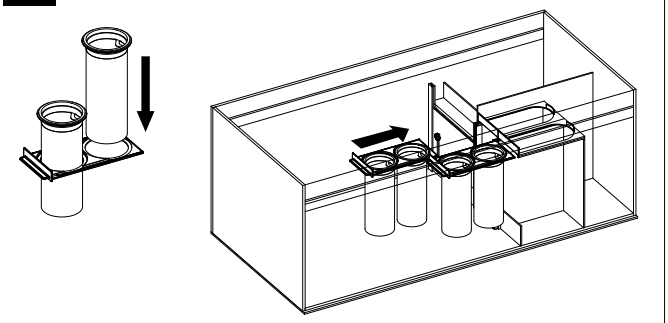




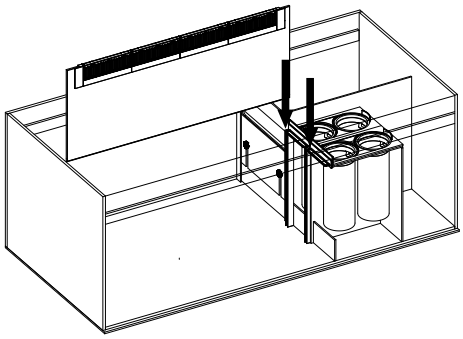
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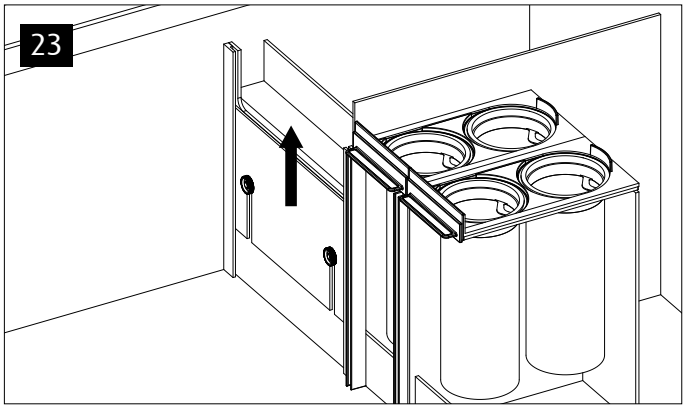
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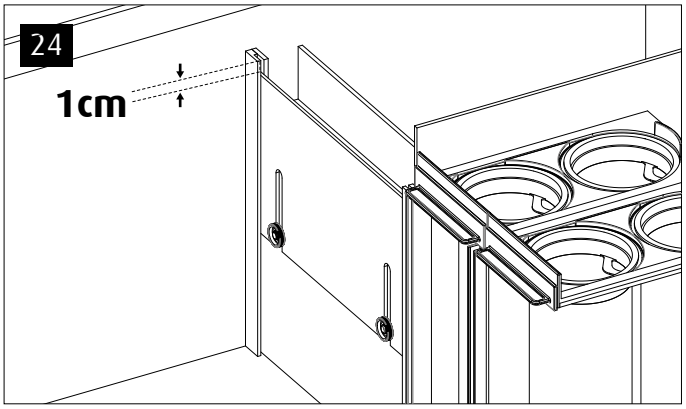
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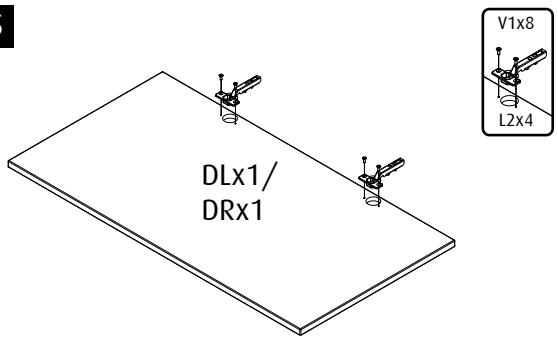
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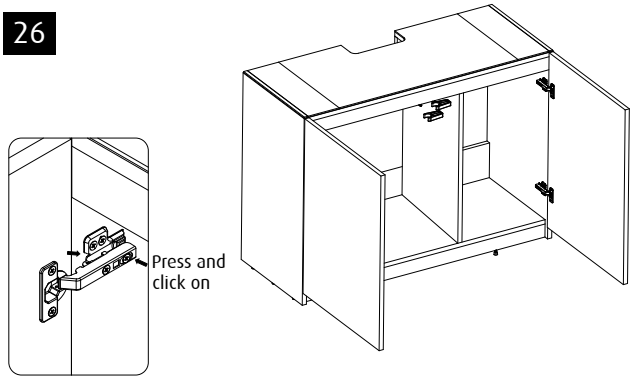
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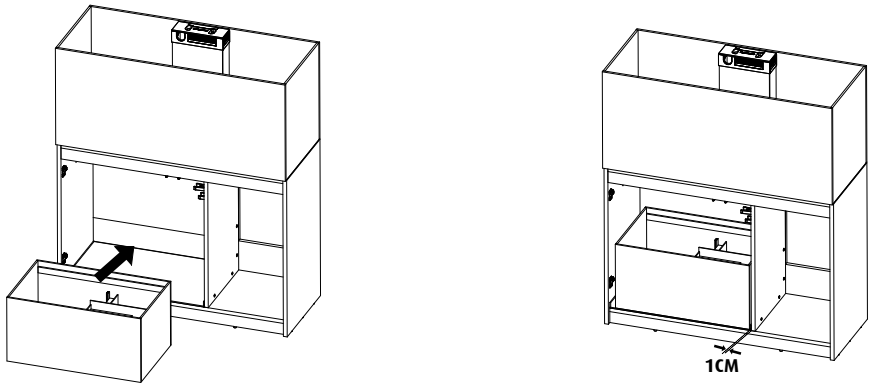
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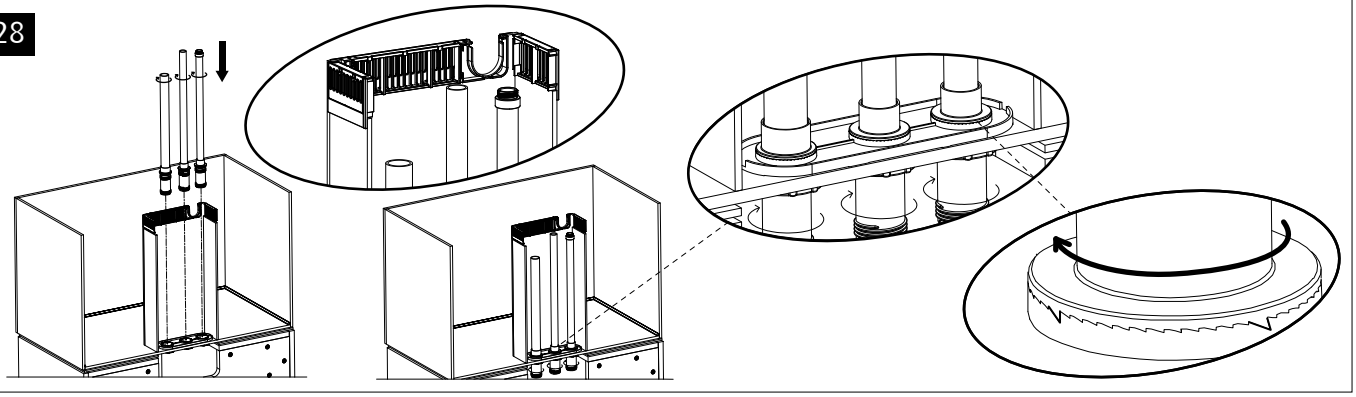
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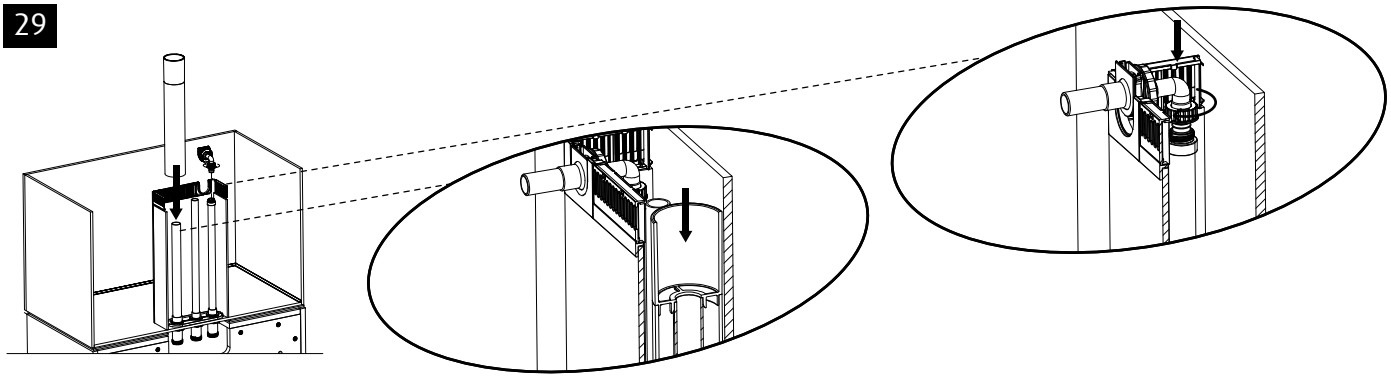
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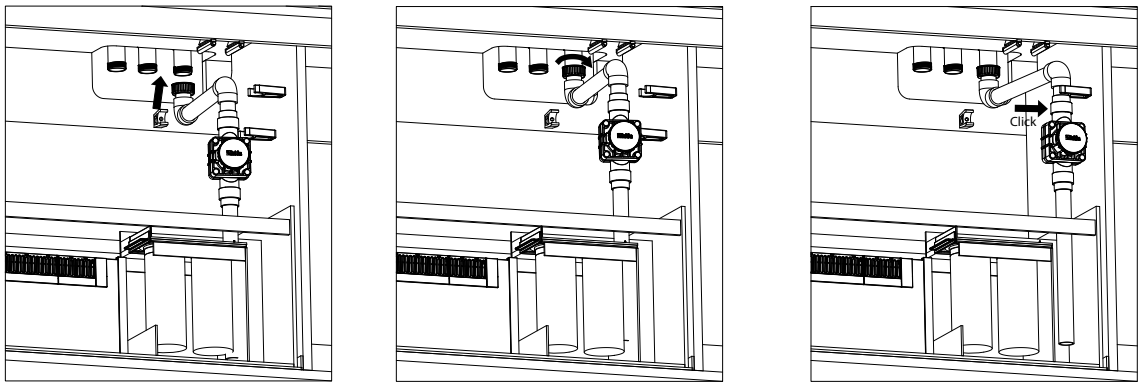
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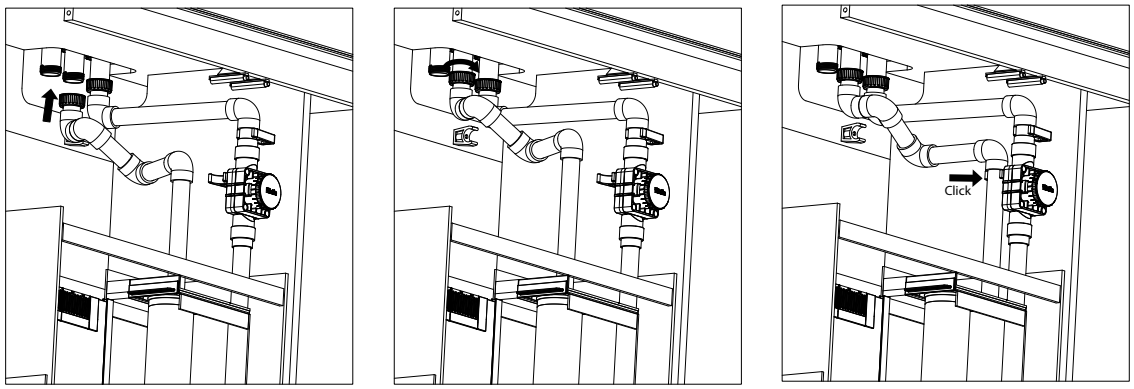
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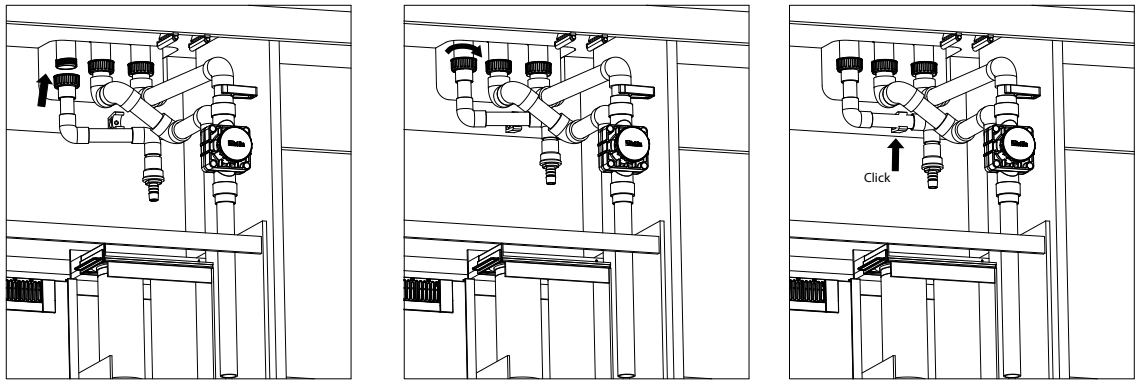
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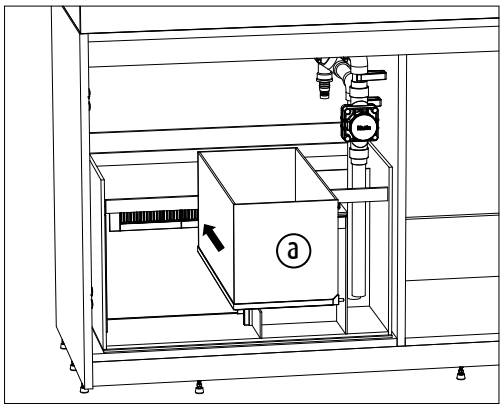
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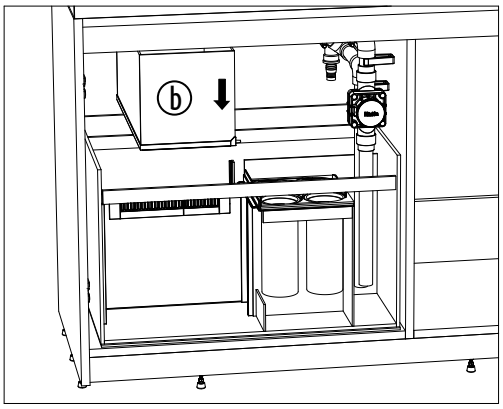


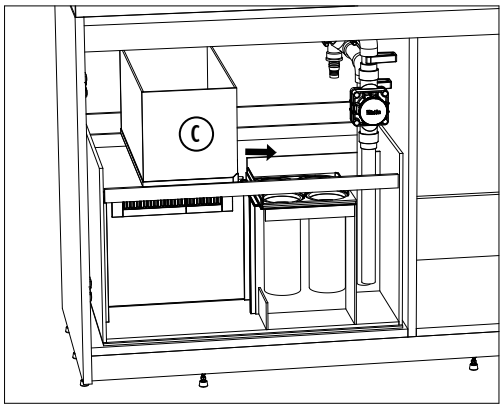
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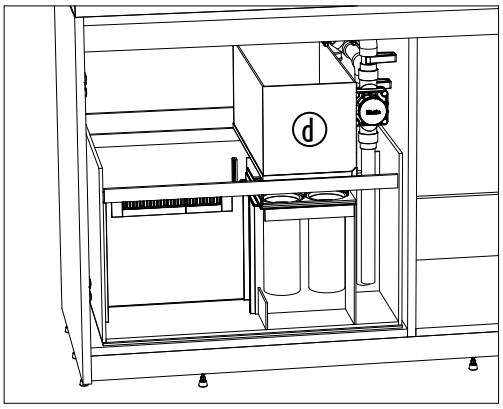


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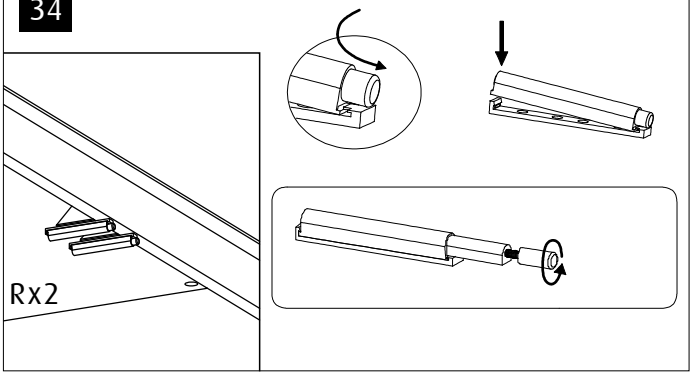




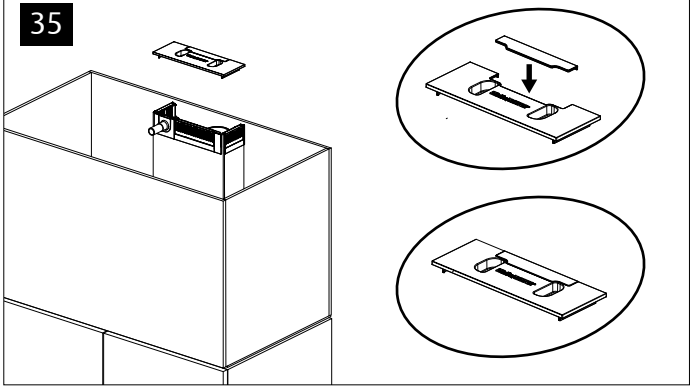




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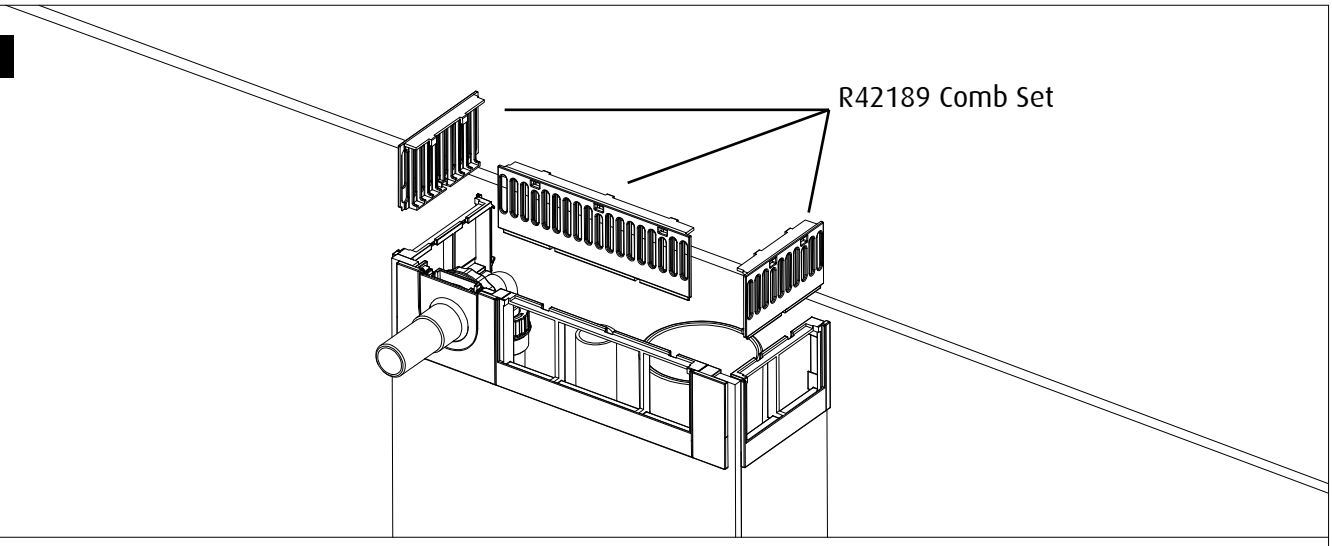


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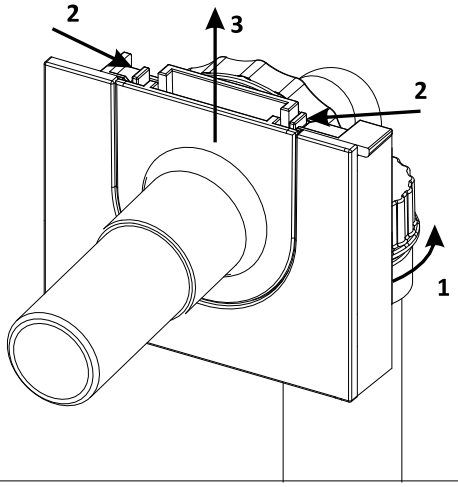


MAINTENANCE

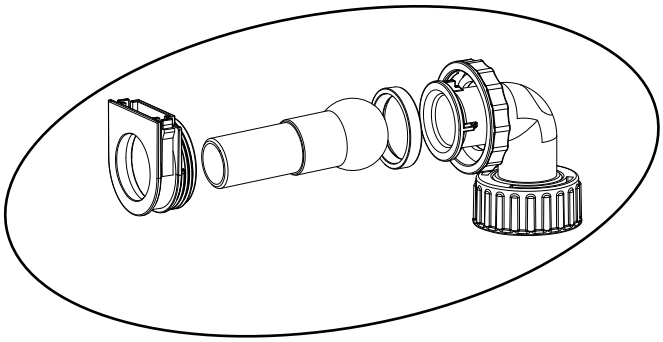
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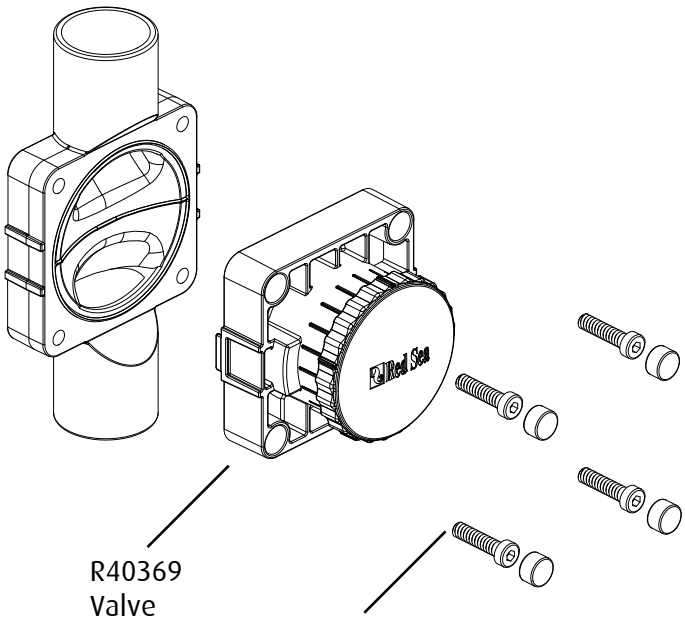
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R42319 Outlet Assembly



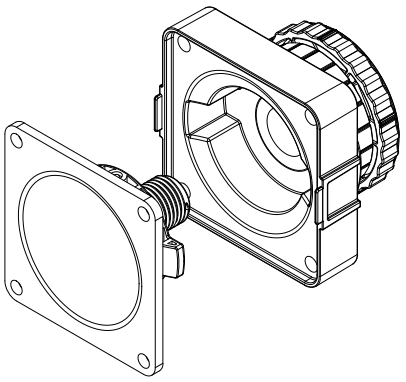
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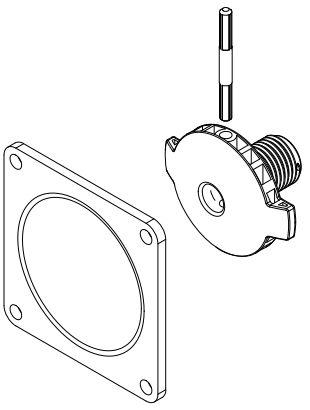
R40369
Valve

R40371
Screw Set

2



3



R40370
Diaphragm

#6635_REEFER DLX 425 V3 Cabinet & Aquarium Manual_v18a

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PRINTING INSTRUCTIONS

To print **only** the Cabinet Installation Guide, print pages 137-147

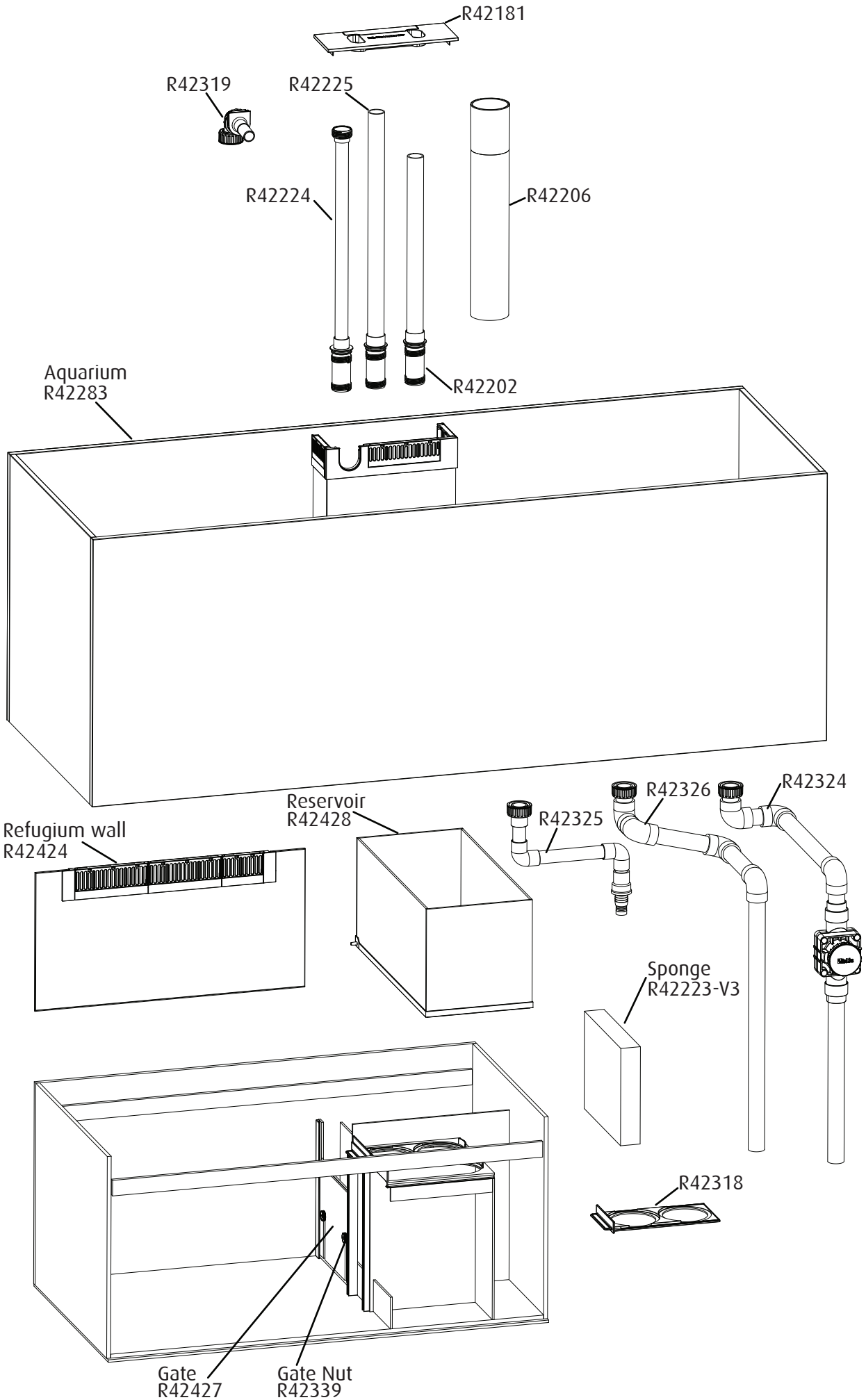
Red Sea REEFER™

DLX 525 (refugium ready)

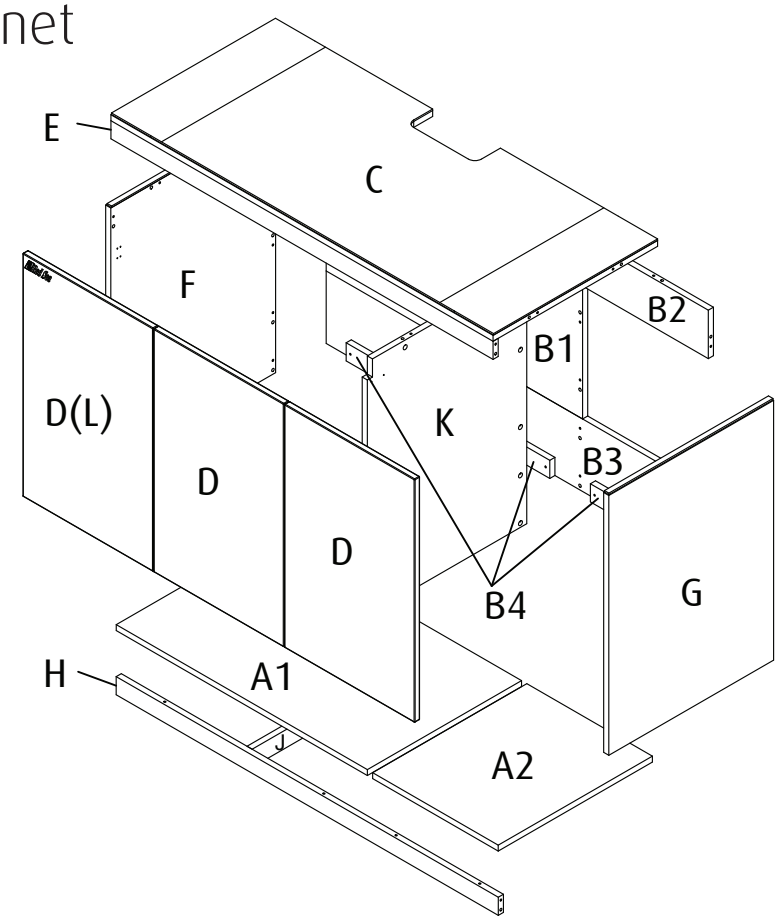
Aquarium & Cabinet Assembly Manual

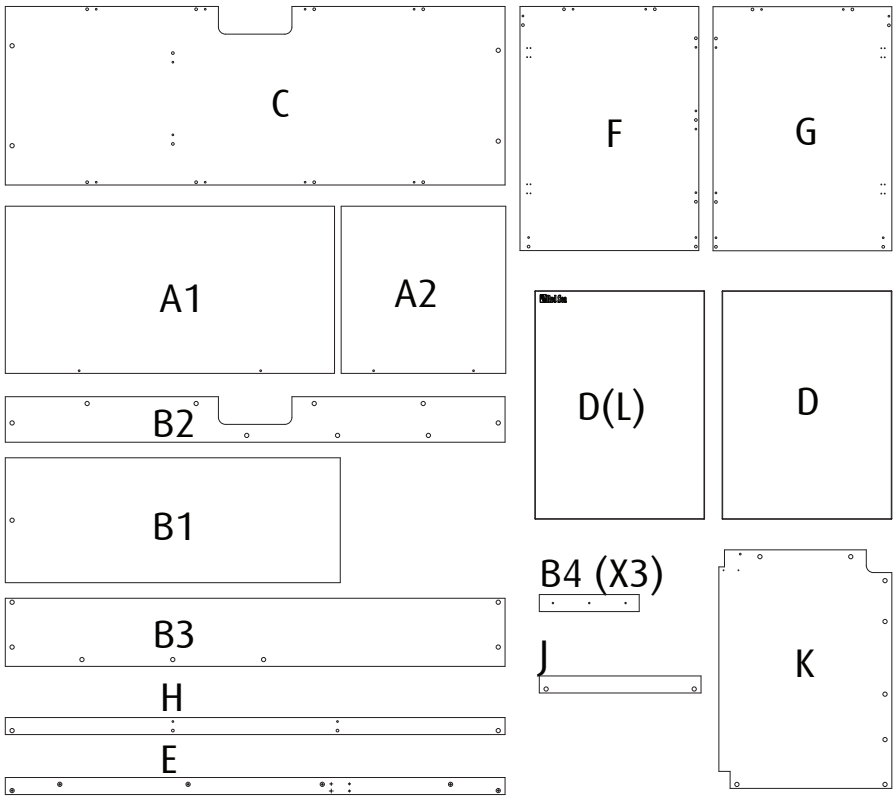
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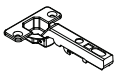
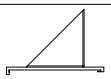
Aquarium Water Management System



Cabinet

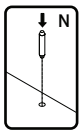


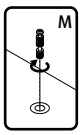


L2		6
L1		
N		47
M		40
P		40
Q		40
R		1
S		3
T		2
V1	ST4x16	36
V2	ST3.5x14	6
V3	ST5x35	10
V4	ST5x60	2
W		9
Y32		2
Y25		1
Z		19

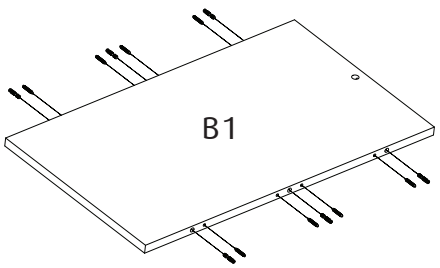
RFXL 525 V3	Black	White	Part Description
A1	6621	6621	Cabinet Bottom Sump
A2	6622	6622	Cabinet Bottom Chiller
B1	5304B-P	5304B-P	Cabinet Rear Middle
B2	5305BV3	5305BV3	Cabinet Rear Top
B3	5306BV3	5306BV3	Cabinet Rear Bottom
B4	6132B	6132B	Cabinet Rear Bottom Support
C	5775BV3	5775BV3	Cabinet Top
D	5307B	5307W	Cabinet Door
E	5309BV3	5309BV3	Cabinet Front Upper
F	6624BB	6624WB	Cabinet Side Left
G	6625BB	6625WB	Cabinet Side Right
H	5303BV3	5303WV3	Cabinet Front Lower
J	6626	6626	Cabinet Base Support
K	5777BV3	5777BV3	Cabinet Internal Wall

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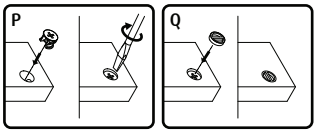




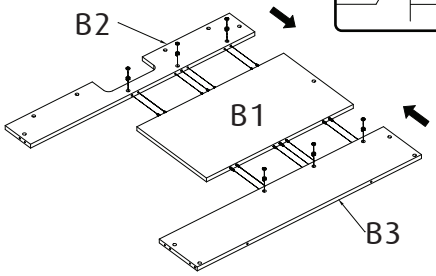
Nx8, Mx6



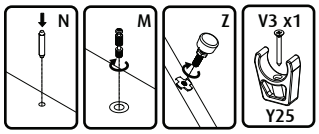
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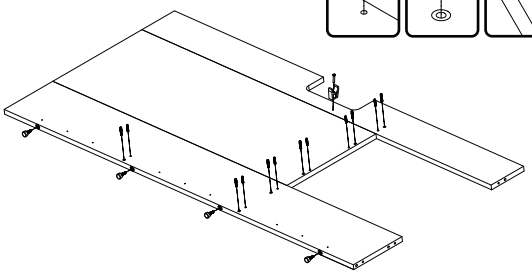
Px6,Qx6



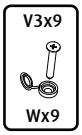
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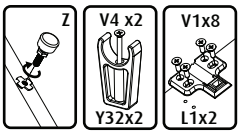
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Mx6
Zx4

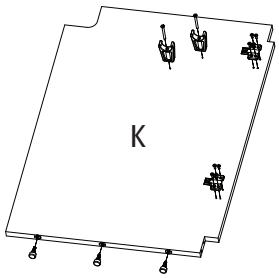


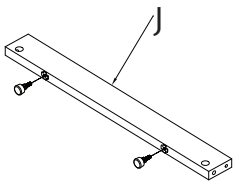
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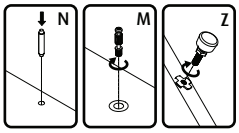
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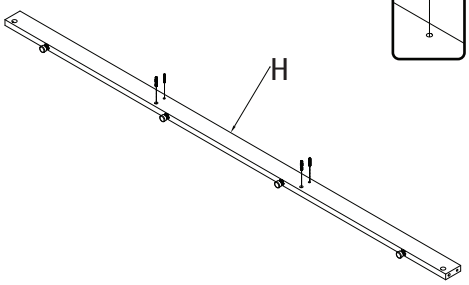




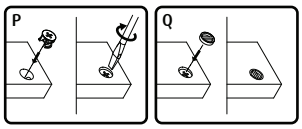
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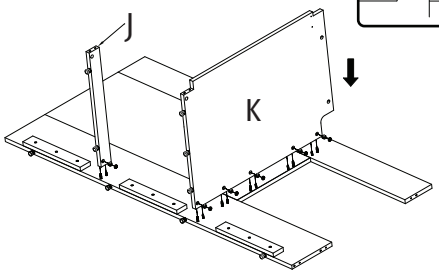
Nx2
Mx2
Zx4



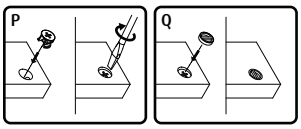
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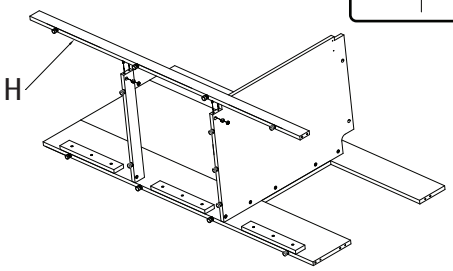
Px6
Qx6



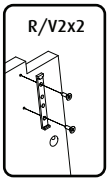
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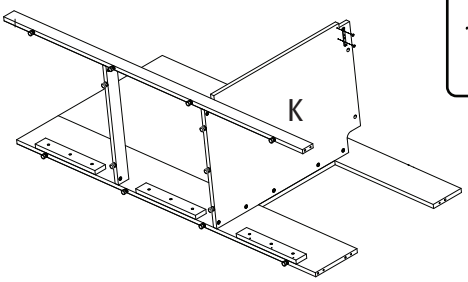


Px2
Qx2

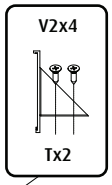


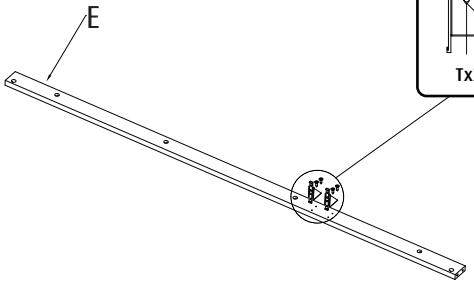
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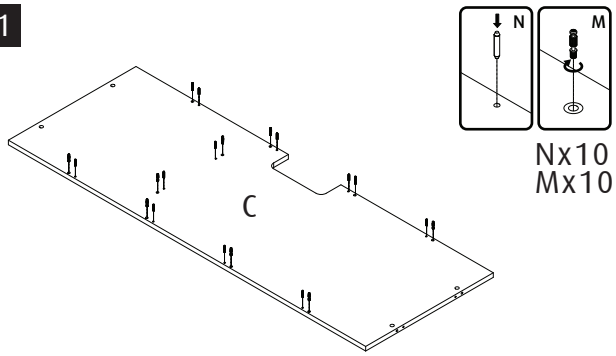


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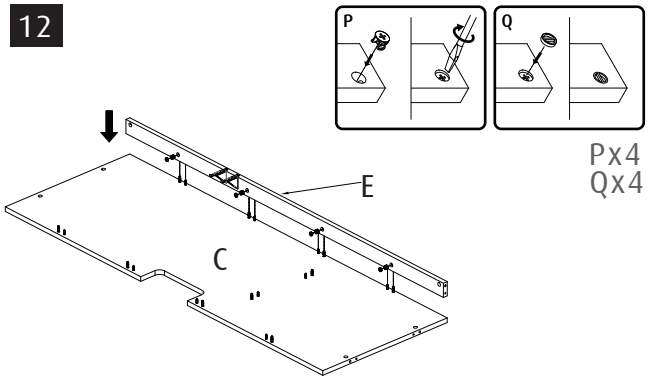


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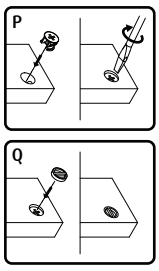
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Mx10

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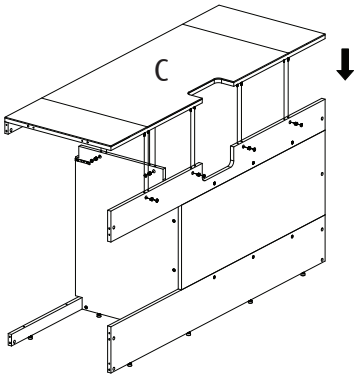


Px4
Qx4

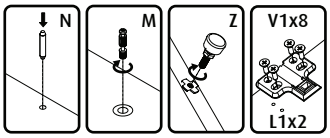
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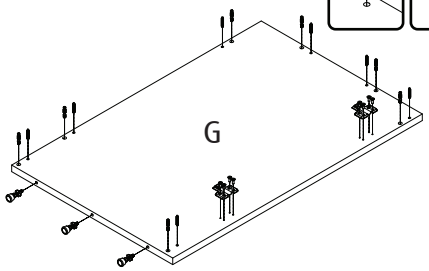
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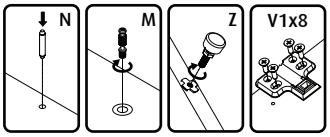
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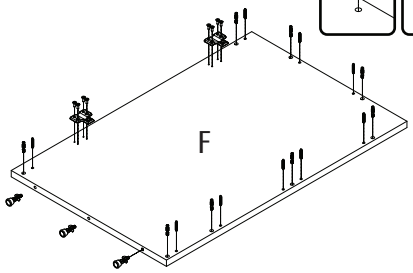
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Mx7
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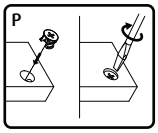
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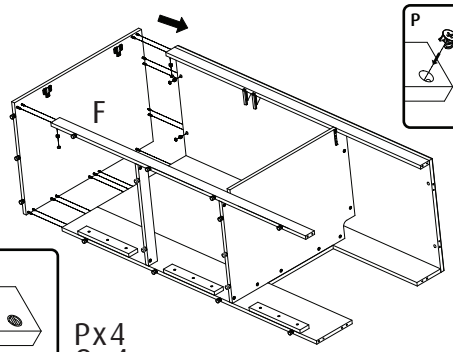


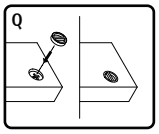
Nx9
Mx8
Zx3



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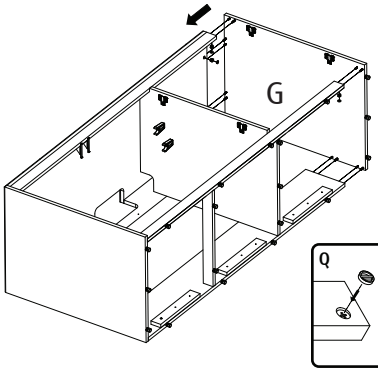


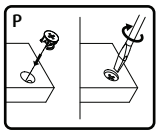


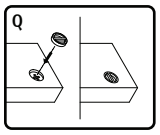
Px4
Qx4

17

Px4
Qx4

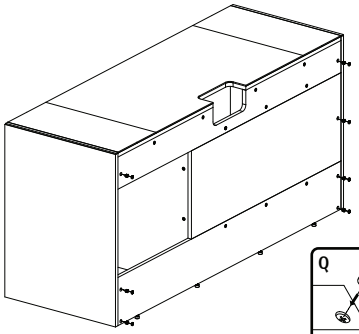


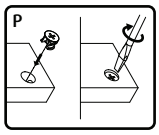


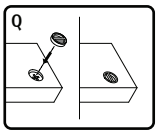


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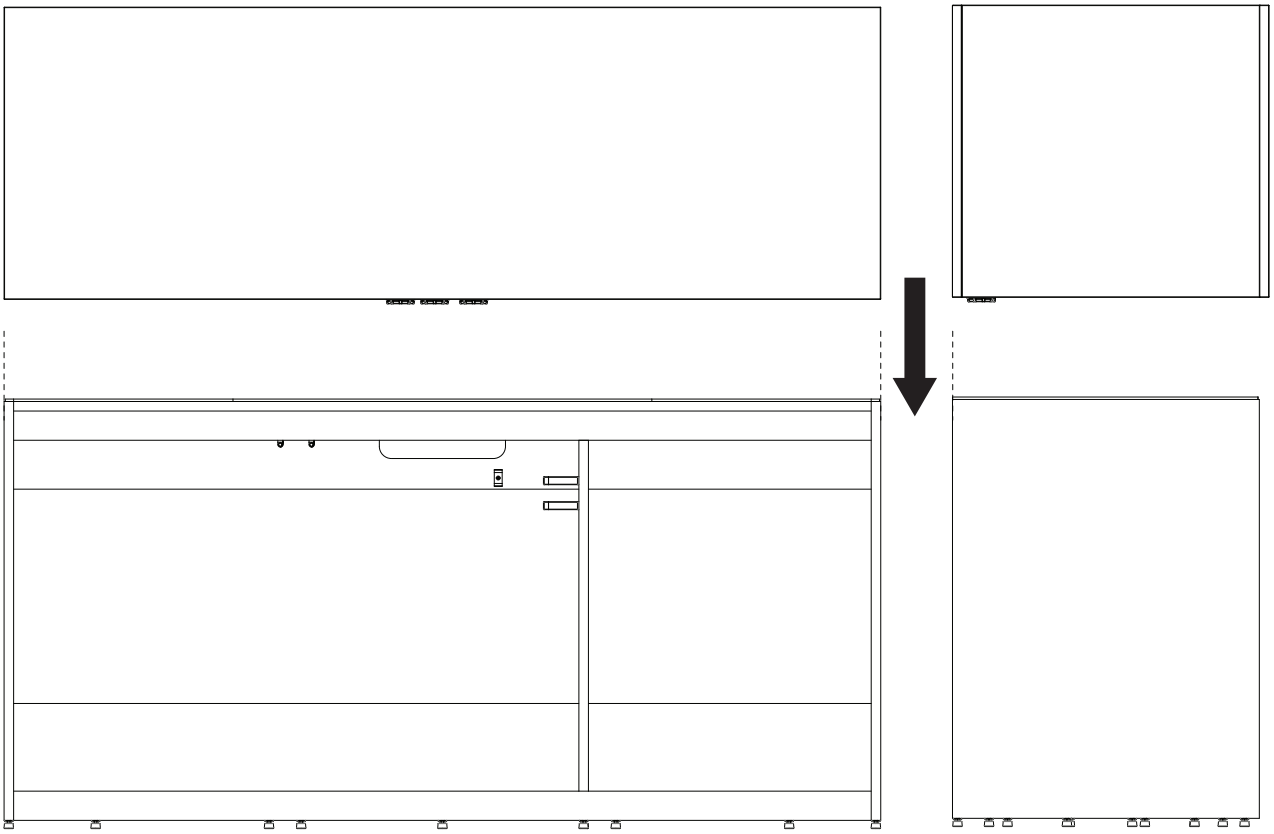
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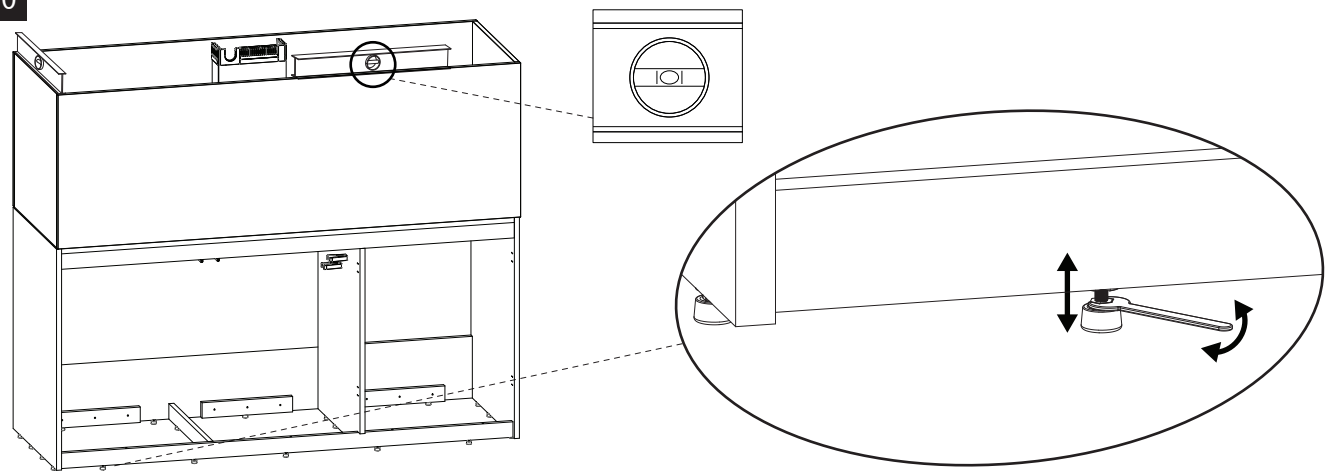




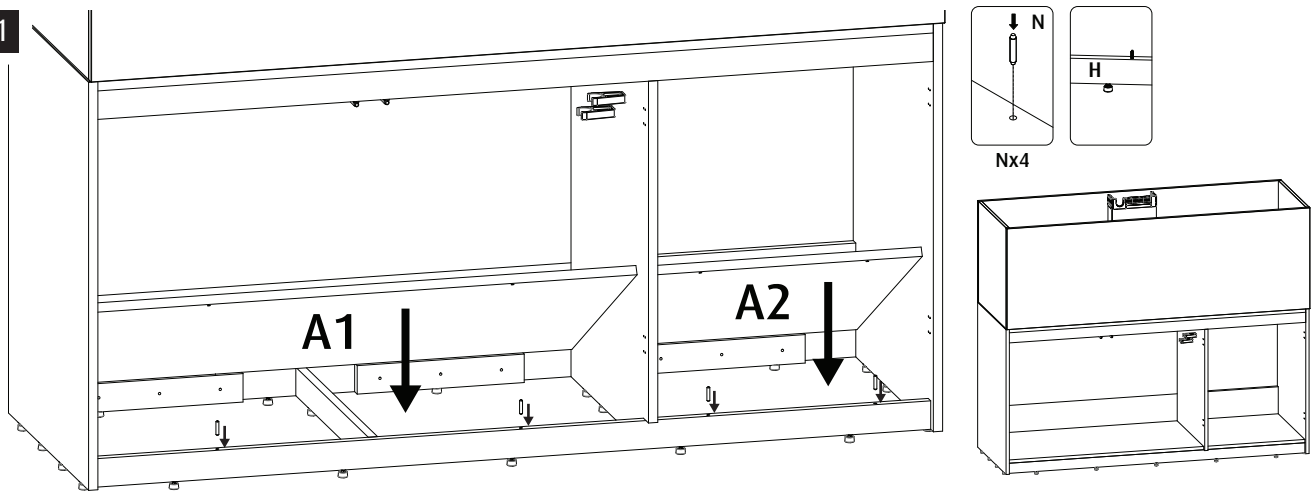
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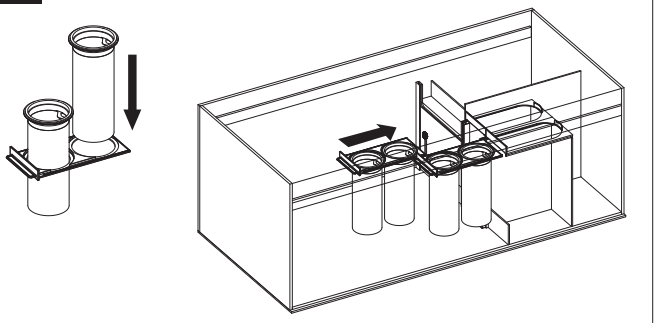
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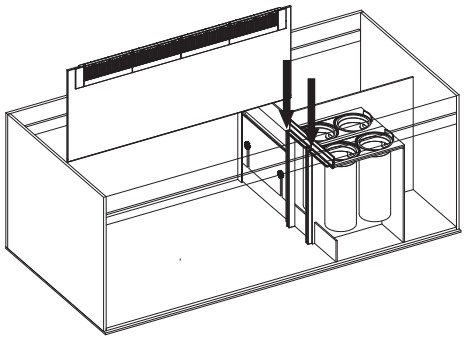
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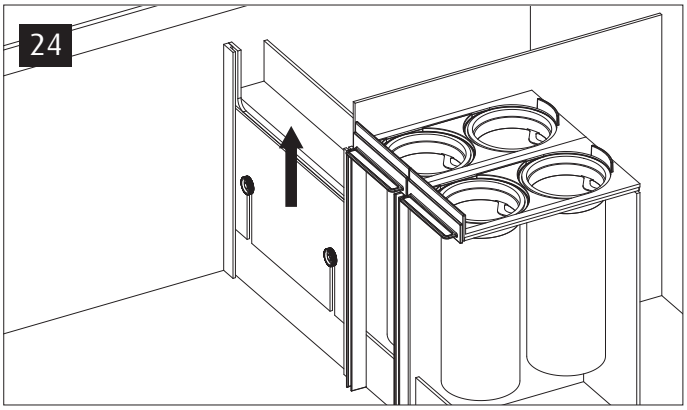
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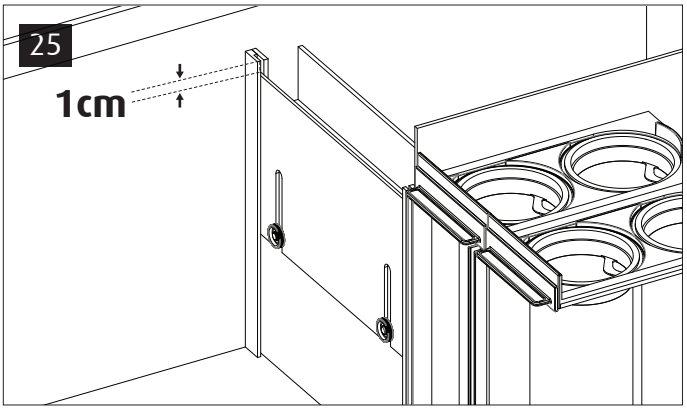
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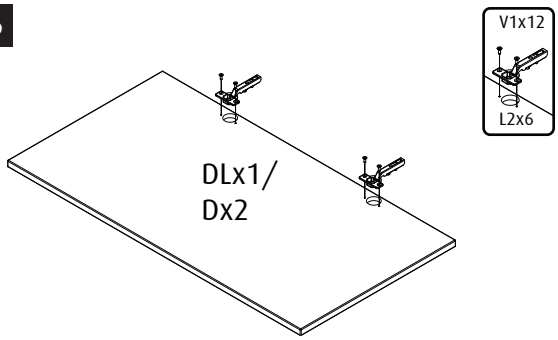
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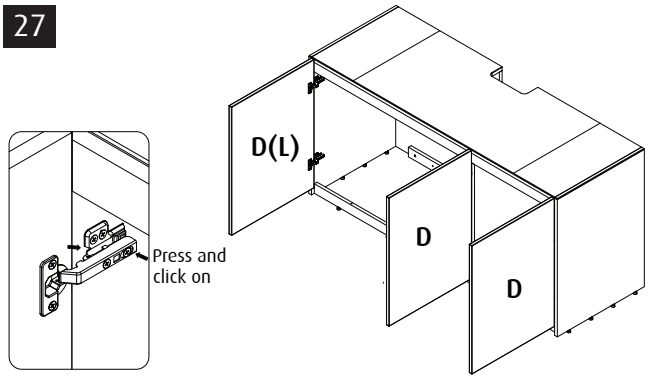
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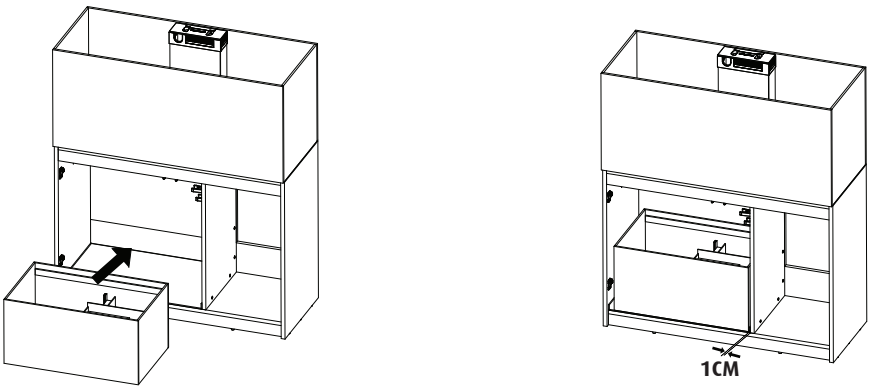
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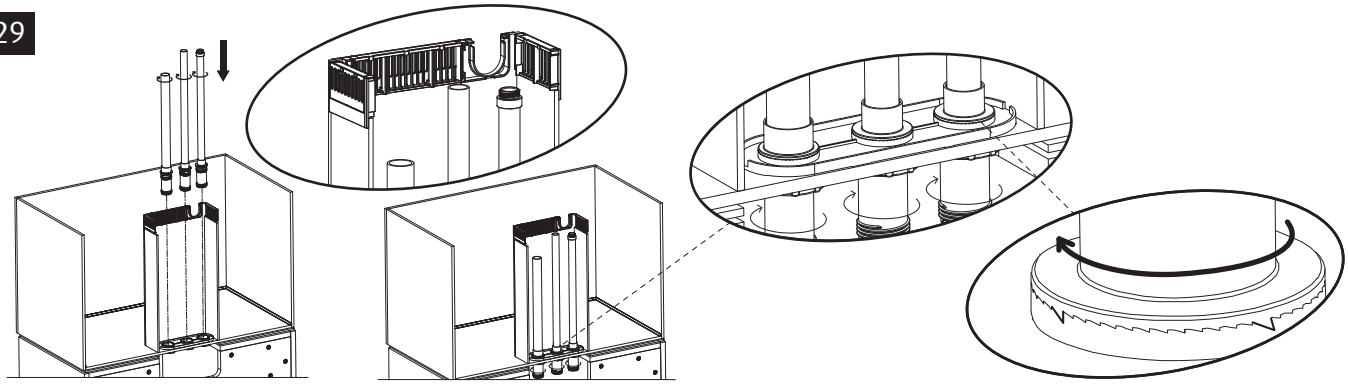
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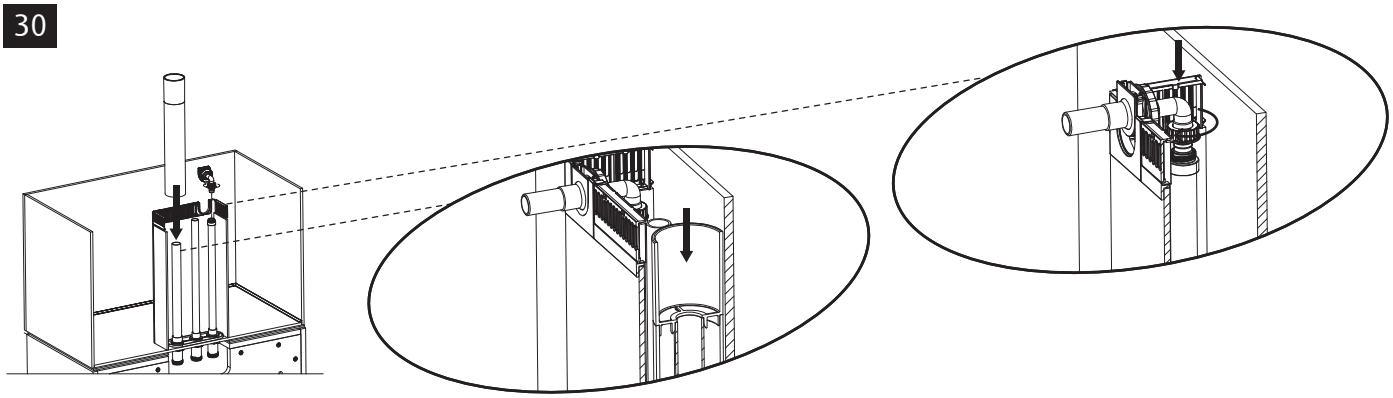
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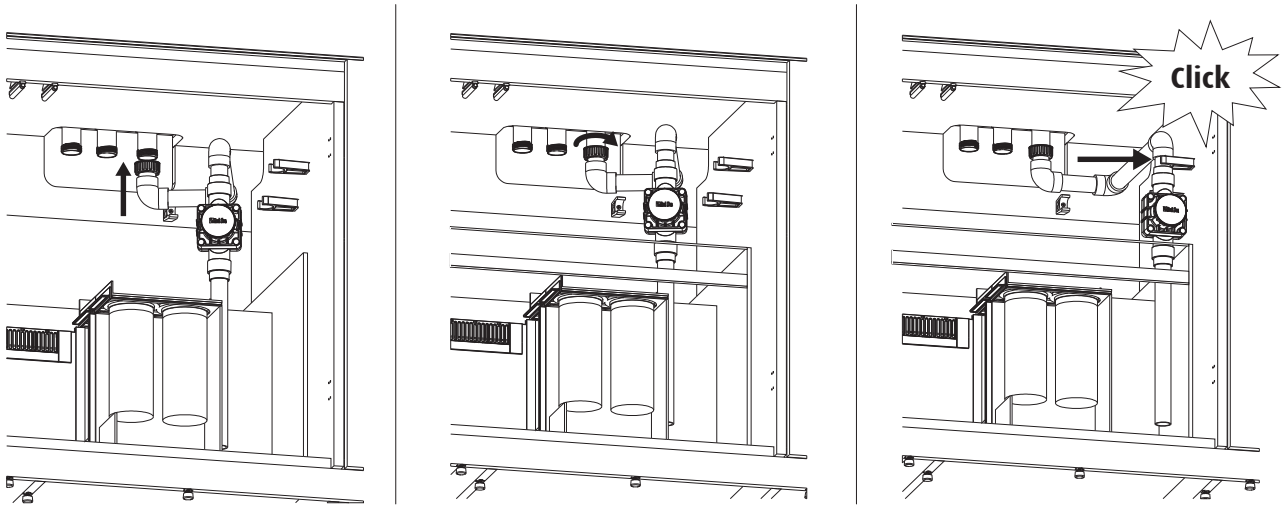
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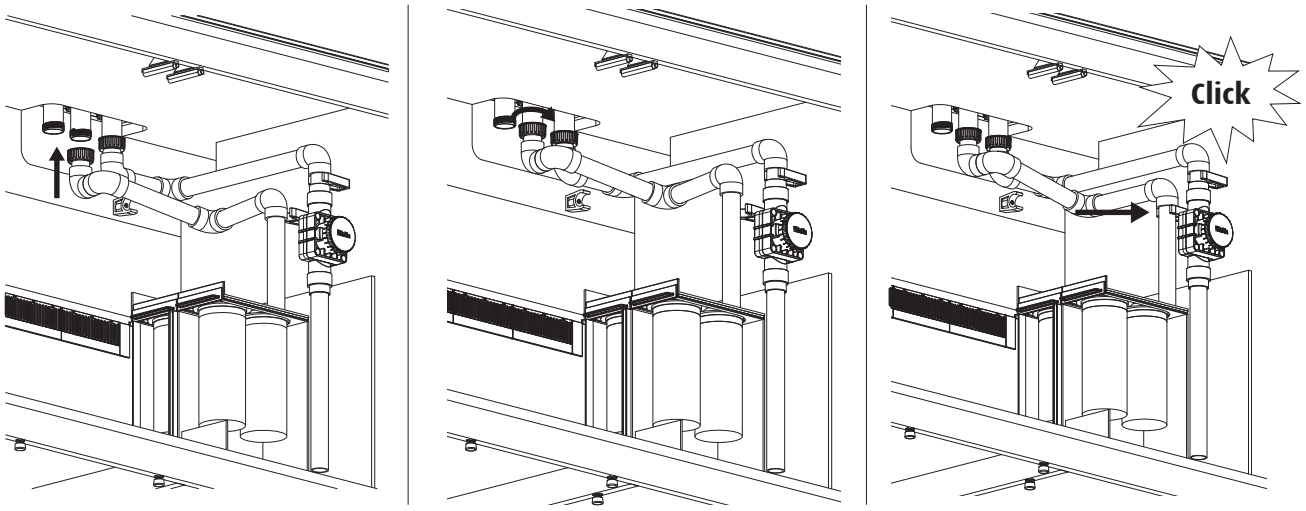
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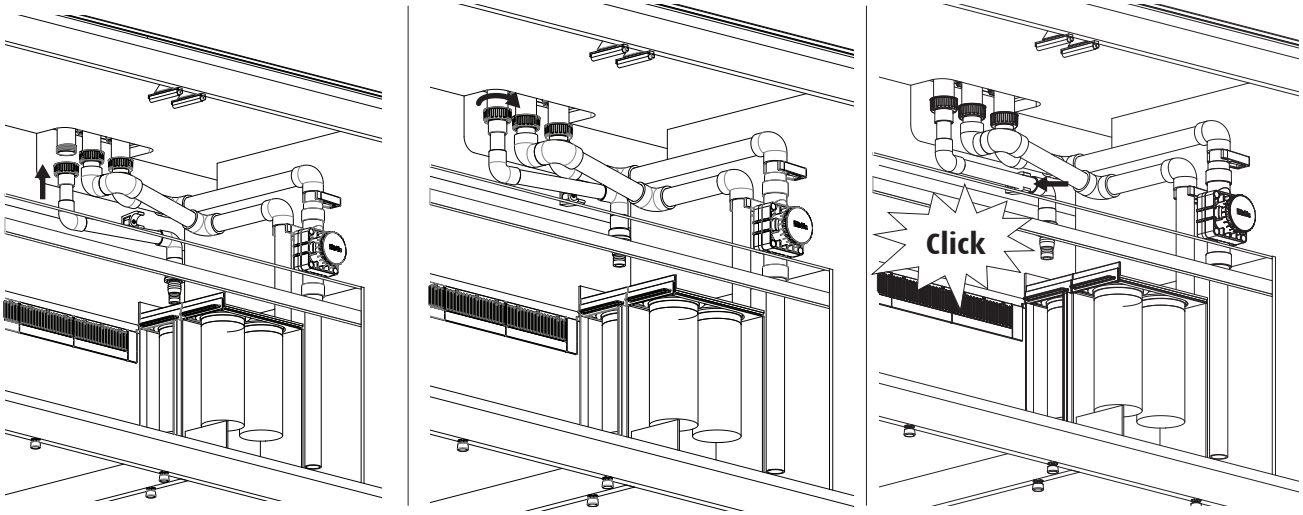
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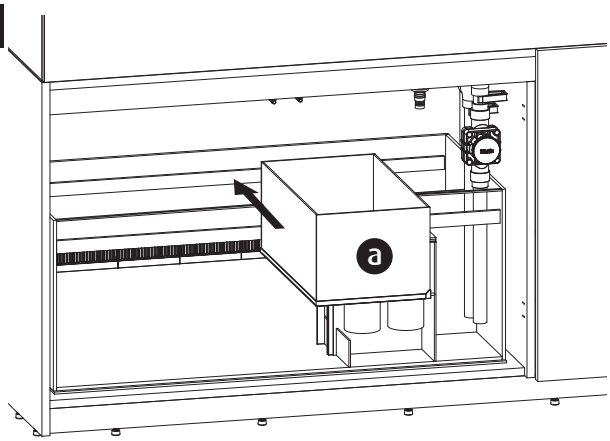
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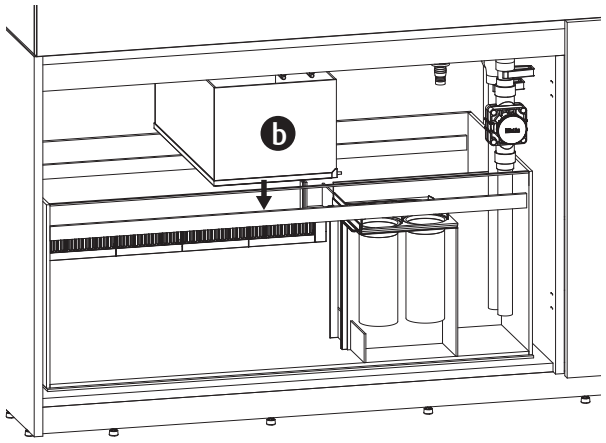


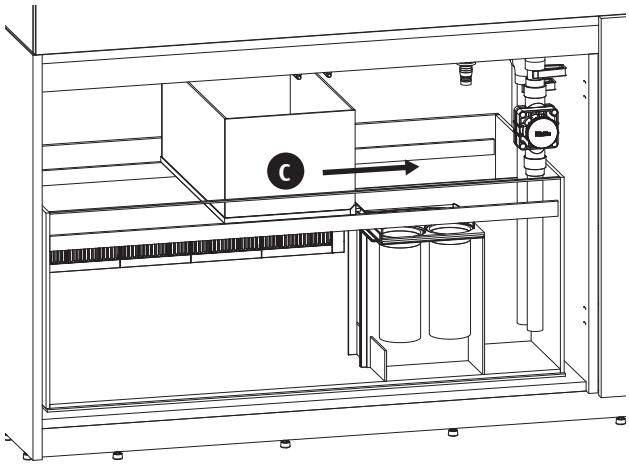
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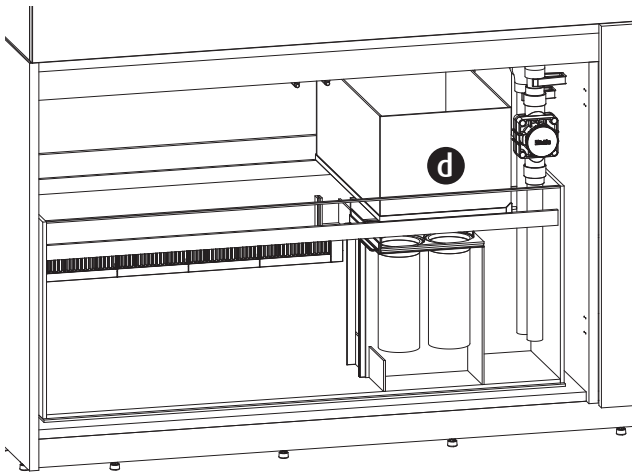


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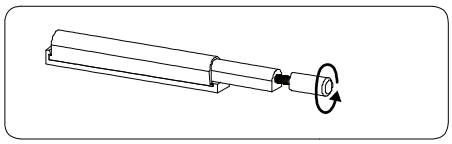




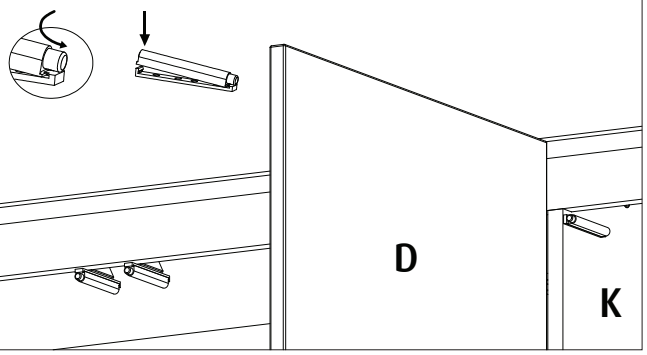




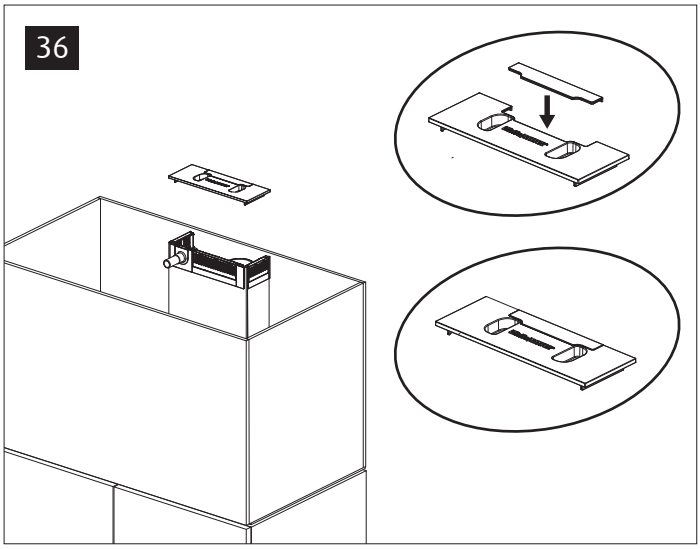
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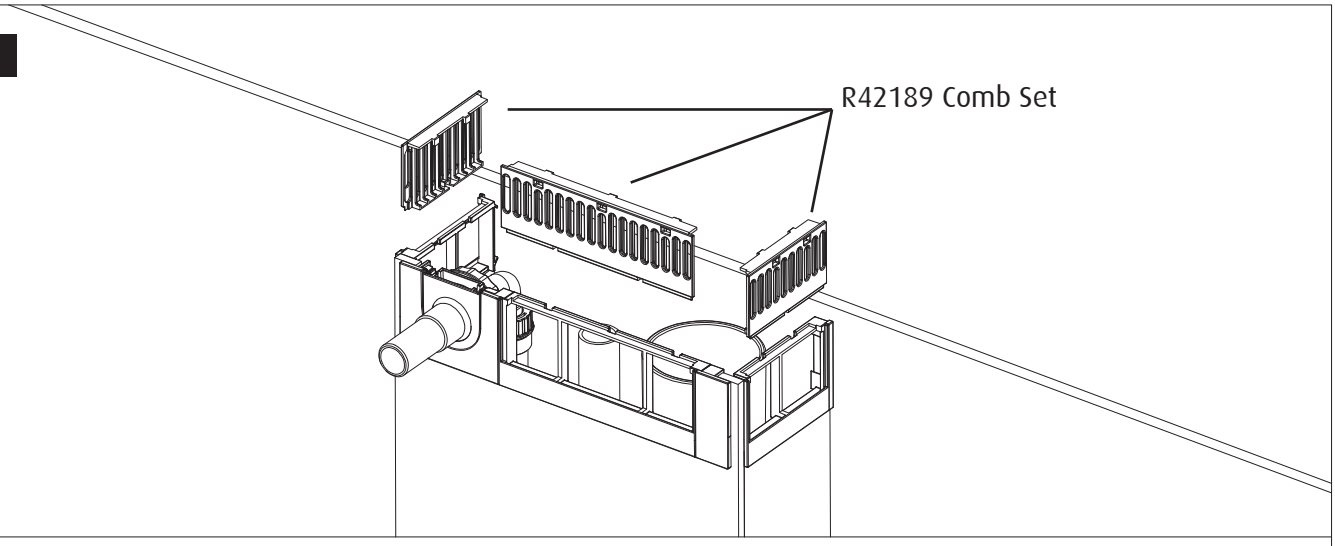


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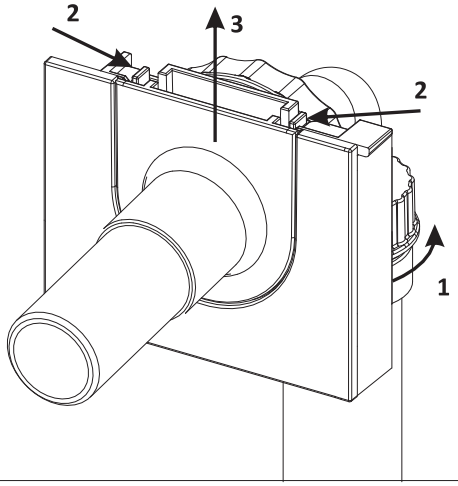


MAINTENANCE

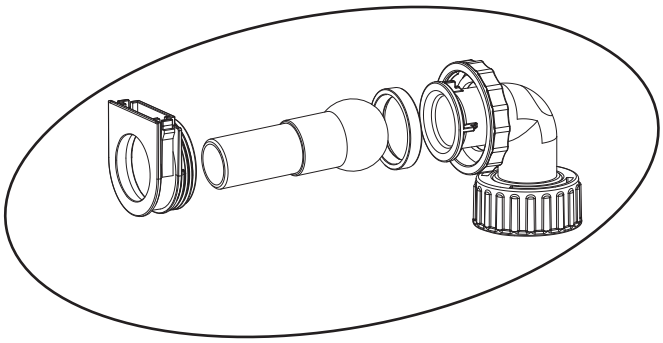
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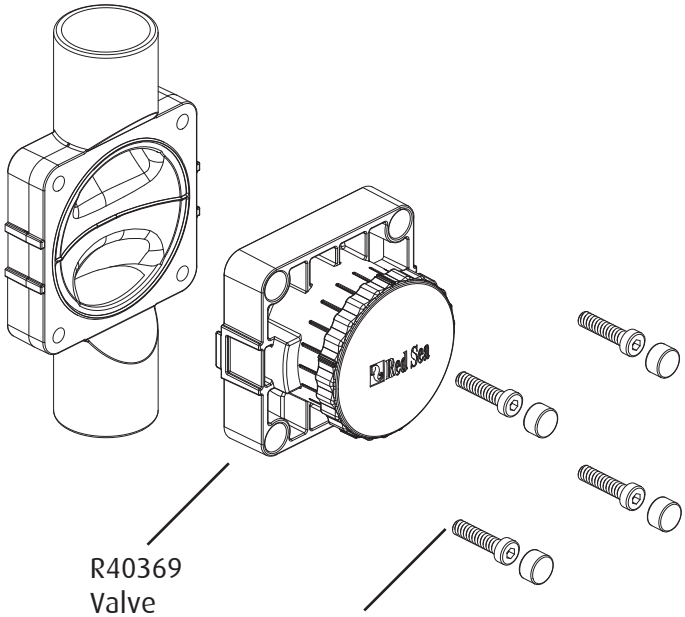
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R42319 Outlet Assembly



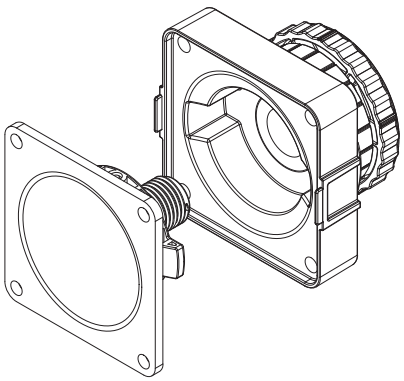
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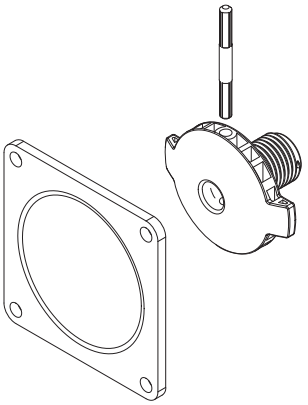
R40369
Valve

R40371
Screw Set

2



3



R40370
Diaphragm

#6636_REEFER DLX 525 V3 Cabinet & Aquarium Manual_v18a

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