

RODENT **VERSA-RACK**



ASSEMBLY INSTRUCTIONS

Congratulations on the purchase of your Vision Versa-Rack.

Please follow our instructions in the exact order shown as this will ensure a smooth assembly. Don't worry, we have created a step-by-step instructional video and our sales support team is available should you have questions or need assistance.

PRIOR TO ASSEMBLY

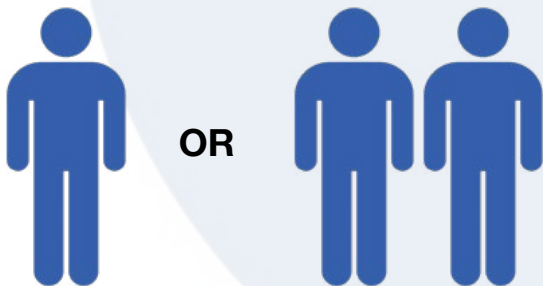
- Read all instructions thoroughly prior to starting the Rodent Versa-Rack assembly.
- Deviation from the carefully thought-after process may result in confusion or the need to start over.
- Do NOT use alternative assembly methods.
- Use the detailed packing list located in the box to inventory each part to ensure nothing is missing or damaged.
- Refer to the packing list and sales order for part quantities as they may differ from what is shown in this manual.
- Extra parts may be provided and will be indicated on your packing list.
- Gather all tools prior to assembly
- If you have problems with assembly or are missing parts, please call or email our sales support teams for assistance.

(920) 886-1220 Sales.Support@customcages.com <https://www.visionproducts.us/contact>

WARNING

Assembly

One person can assemble the Rodent Versa-Rack on their own. However, two people are recommended for additional safety and ease of assembly when building larger stacked racks.



TOOLS NEEDED

The following tools are not included with your Versa-Rack purchase.



Philips Screwdriver



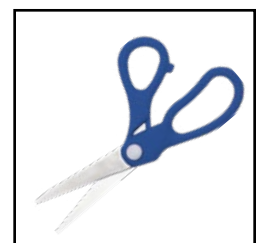
Pliers



Wrench



Rubber Mallet



Scissors

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RODENT VERA-RACK

Assembly Instructions

HARDWARE

- Use the detailed packing list located in the box to inventory each part to ensure nothing is missing or damaged.
- Refer to the packing list and sales order for part quantities as they may differ from what is shown in this manual.



Food Trays



ABS Shelves



Vertical Poles



Rack Shelf Spacers



Female Pole Ends



Rack Tightening Bolts



Rack Tightening Washers



Caster Set



Feet Set



Male Pole Connectors

OPTIONAL ACCESSORIES



Vision Tubs



Front Stop



Back Stop



Food Hopper



Food Tray Divider



Adjustable Side Guides



Divider Tray Screw
5/16" - 18



Divider Tray
Wing Nut 5/16 - 18

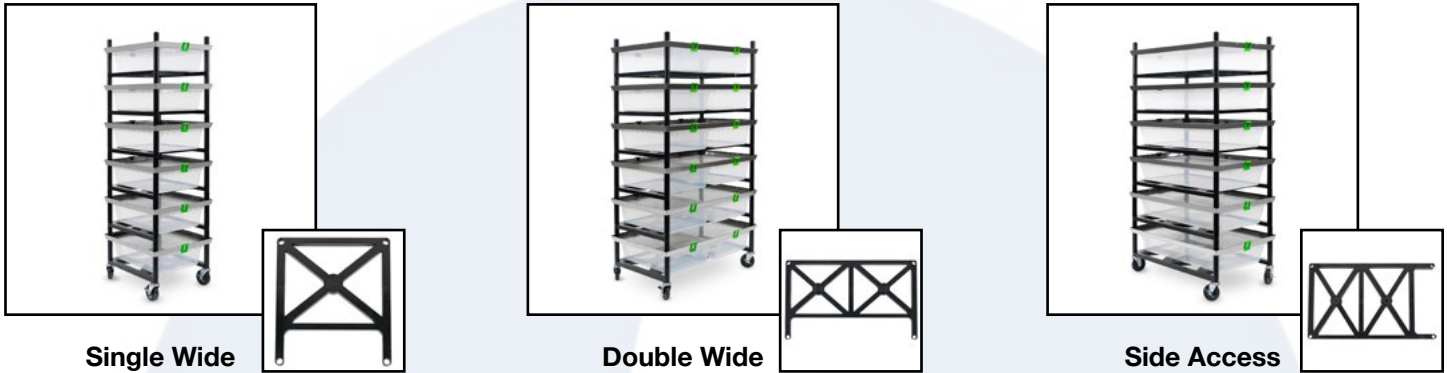


Water Bottle Holder

RACK OVERVIEW

This manual will go over how to assemble your Vision Rodent Versa-Rack step-by-step. While not every rack combination will be shown in this manual, each follows a similar build process that can be scaled up depending on the number of sections ordered. Please follow the steps in the exact order shown, as deviating from the carefully thought-out process may result in confusion or having to start over. *Please review all instructions prior to assembly.*

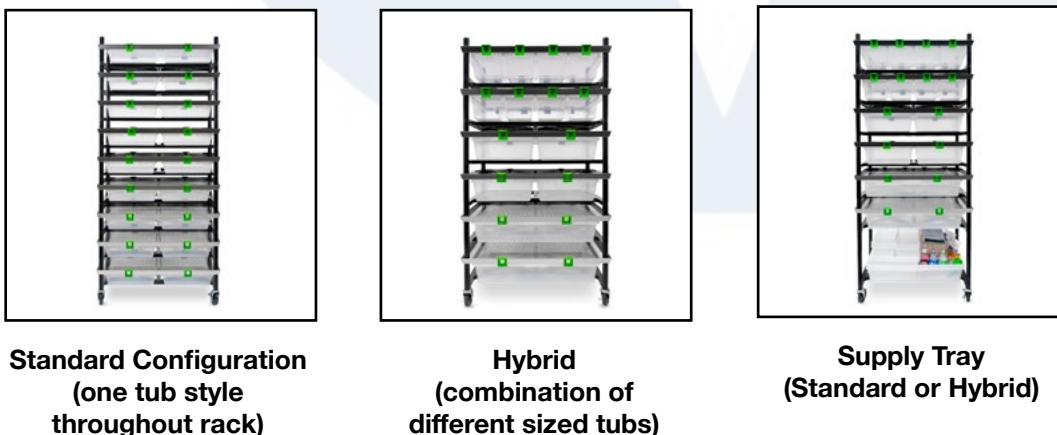
Your Vision Rodent Versa-Rack has been ordered in one of each of the options below.



The Vision Rodent Versa-Rack system is designed to stack multiple sections together.



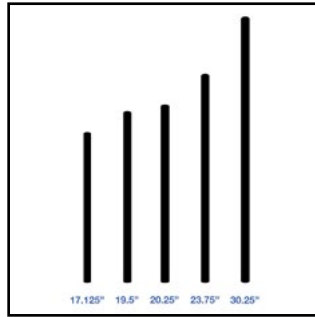
Your rack will either have one tub style, a combination of different tubs throughout the rack or a Supply Tray in the first section of the rack.



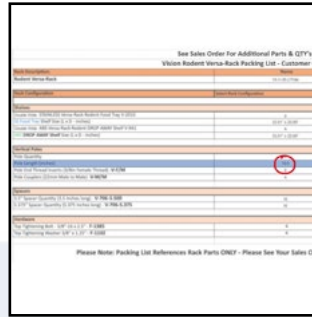
Step 1: INSERT POLES INTO FIRST SHELF



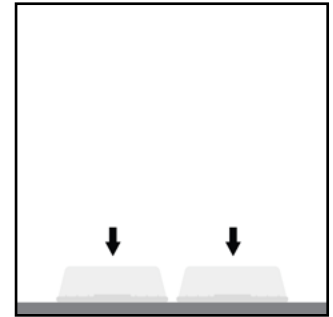
Decide which tub size will be on the bottom shelf of your rack, and check your packing list for the corresponding pole lengths.



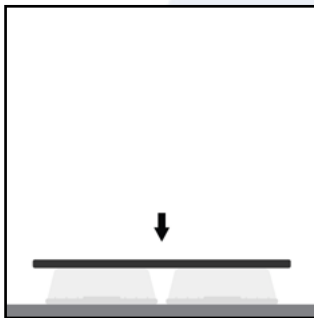
Vertical poles will be one of four length variations.
Shallow: 20.25"
1X: 19.5"
2X: 30.25"
3X: 23.75"
Supply Tray: 17.125"



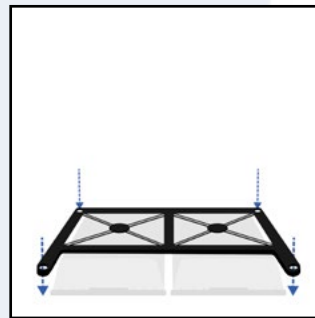
Check the lengths of the poles against the rack type purchased on the spec sheet.



Place two tubs face down on the floor.



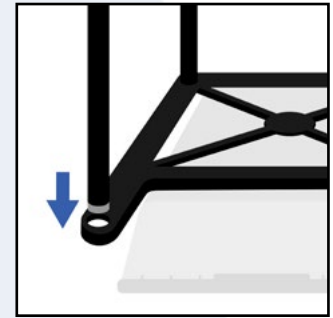
Place ABS Rack Shelf on top of the tub(s).



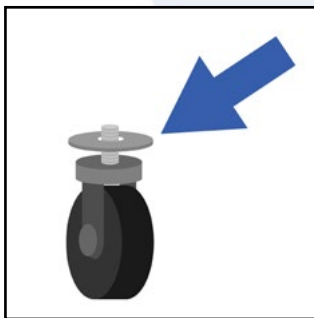
Ensure all 4 holes in the ABS shelf are clear and the tubs underneath are not blocking the holes before proceeding.



Attach Female Pole End to the bottom of each pole. (X4)

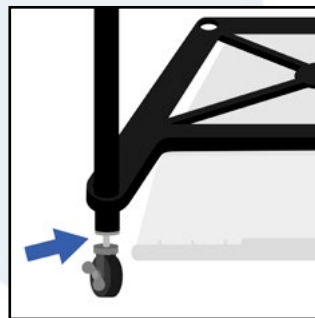


Slide a pole with female pole end facing down into each of the 4 holes in the Rack Shelf

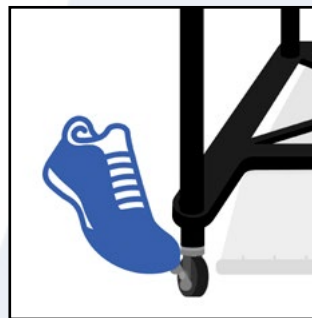


If using the **90lb-rated** casters on your rack, place the washer (included with your rack) onto each caster stud before threading into the pole.(x4)

Skip to the next diagram for all other casters & feet.



Pull up each pole slightly and screw casters or feet into the female pole end of each pole. (X4)



Two locking casters will be provided with each caster set. Ensure location of installation is on an accessible part of the rack.

Once completed, remove tubs from under rack.

Step 2: FIRST SECTION

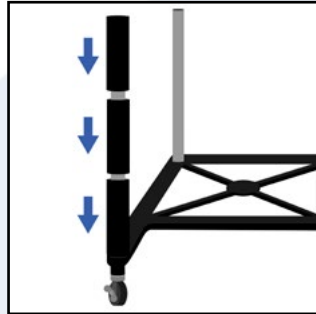
The set up of the first section in your Rodent Versa-Rack is dependent upon the type of access, the size of tub being used, or if the first section will be used as a Supply Shelf. Steps 2A, B & C consider all these factors.

Step 2A: SUPPLY SHELF

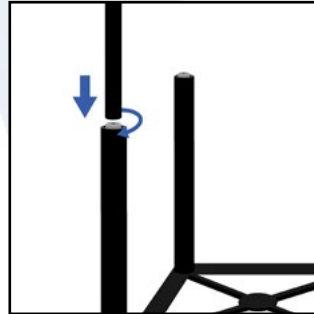
If you will not use the first section as a supply shelf, please proceed to **Step 2B**.



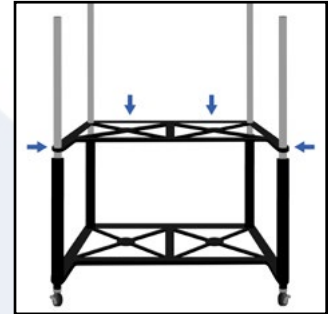
Connect male pole connector ends to the top of each of the 4 poles.



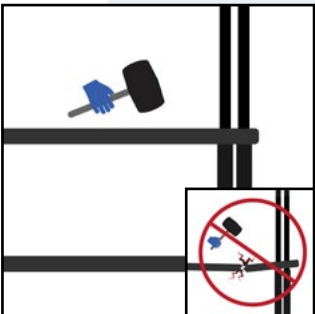
Place three 5.375" Spacers on each pole. **(total of 12 spacers)**



Screw vertical poles on to each of the male pole connector ends. (x4)

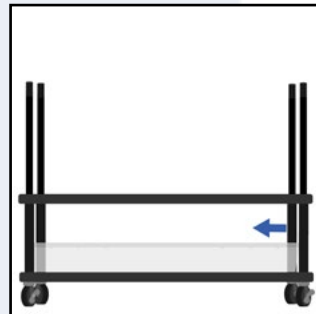


Slide an ABS shelf onto each of the 4 poles and rest it on the spacers.



If you have trouble sliding the shelf onto the poles a **light** tap with a rubber mallet or your hands may be used.

Do not use excessive force as this may damage the shelf.



It is recommended to place a tub onto the Supply Tray to hold bedding and other supplies. (sold separately)

Recommended Tub Sizes
Single Wide: V-35
Double Wide: V-75
Side Access: V-70

Move on to **Steps 2B - Step 3** to complete the first section of tubs and food trays on the rack.

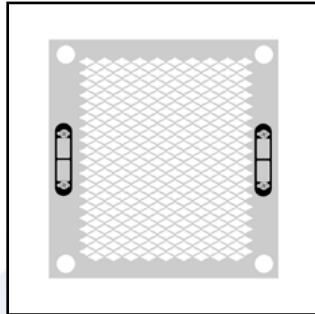
Step 2B: ADJUSTABLE SIDE GUIDES (Optional)

If Adjustable Side Guides are not used, proceed to **Step 2B**.

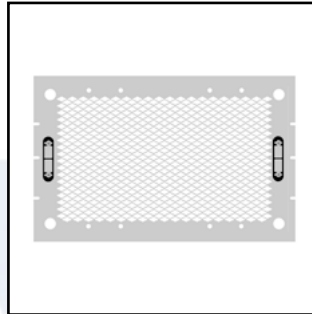
Complete **Step 2A** prior to rack assembly.



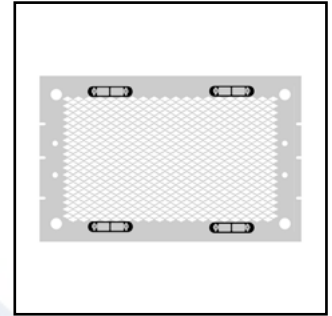
Place flat side of guides against bottom of the food tray.



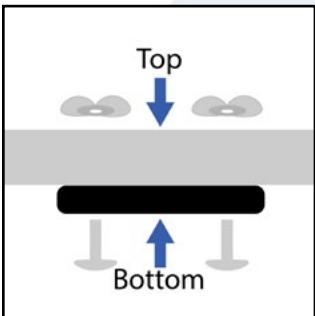
Single Wide Racks: Line up guides with the holes on each side of the shelf. (x2)



Double Wide Racks: Line up guides with the holes on the short ends of the shelf. (x2)



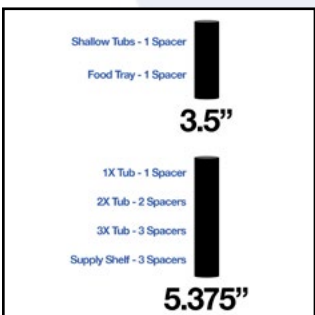
Side Access Racks: Line up guides with the holes on the long ends of the shelf. (x4)



Place screws through the guide on the bottom of tray, and through the food tray. Attach wing nut to each screw inside food tray.

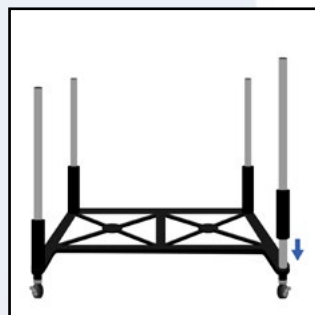
Do not over tighten

Step 2C: PLACE SPACERS FOR TUB HEIGHT AND FIRST FOOD TRAY



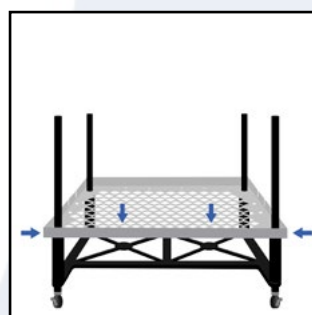
One or more spacers will be used depending on the size(s) of tubs used in your rack.

(tub sizes and spacer quantities listed in graphic above)



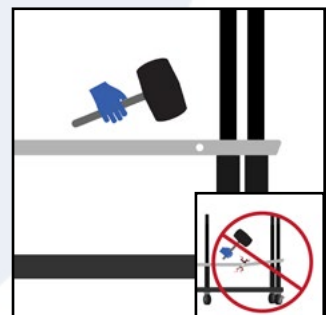
Place Spacers for tub height used in first section on each of the 4 poles.

Spacers should rest on the ABS shelf.



Slide a Food Tray onto the 4 poles.

Tray should rest on the spacers below.



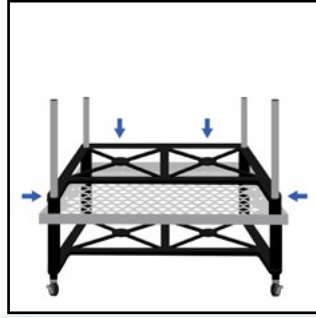
If you have trouble sliding the tray onto the poles a **light** tap with a rubber mallet or your hands may be used.

Do not use excessive force as this may damage the shelf.

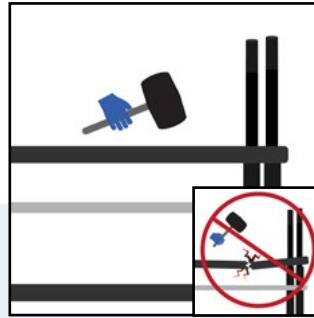
Step 3: PLACE SPACERS FOR FOOD TRAY AND REPEAT



Slip a 3.5" spacer onto each of the 4 poles, each resting on the food tray.

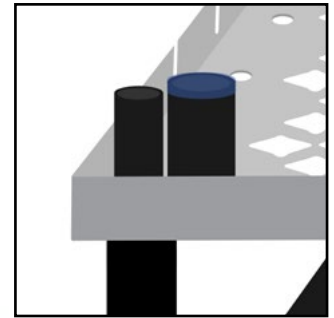


Slide an ABS shelf onto each of the 4 poles and rest it on the spacers.



If you have trouble sliding the shelf onto the poles a *light* tap with a rubber mallet or your hands may be used.

Do not use excessive force as this may damage the shelf.



The section is complete when a spacer on top of the Food Shelf is taller than the remaining pole.

Repeat Steps 2 & 3:

UNTIL YOU REACH THE TOP OF YOUR SECTION



If using multiple sections in your rack, proceed to...

Step 4: STACK MULTIPLE SECTIONS TOGETHER



If only one section is used in your rack skip to...

Step 5: TIGHTENING THE RACK

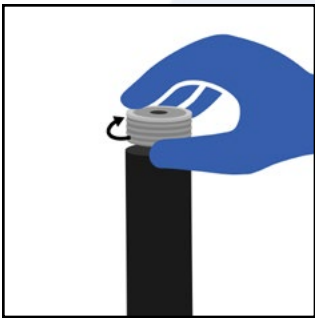
Step 4: STACK MULTIPLE SECTIONS TOGETHER

Multiple sections of the same tub type or different tub types can be stacked on top of each other in the same rack.

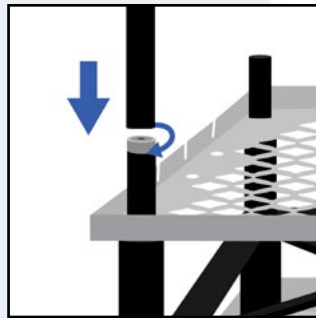
SAME SECTION TYPE



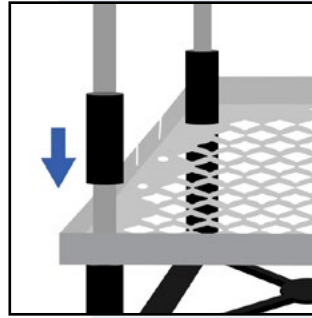
DIFFERENT SECTION TYPE



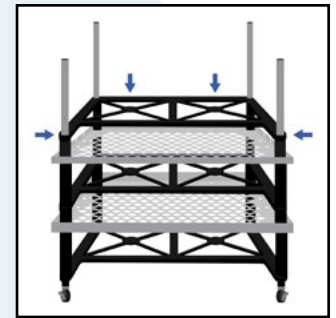
Connect male pole connector ends to the top of each of the 4 poles.



Screw 4 vertical poles on to each of the male pole connector ends.



Slip a 3.5" spacer onto each of the 4 poles, each resting on the food tray.



Slide an ABS shelf onto each of the 4 poles and rest it on the spacers.

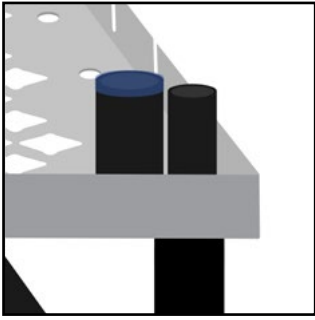
Repeat Steps 2 & 4:

FOR AS MANY RACK SECTIONS AS YOU ORDERED

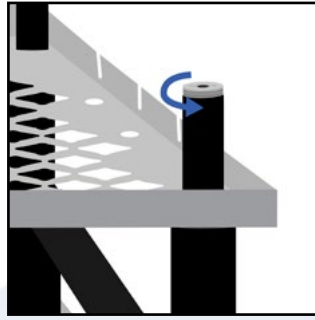
Use corresponding spacers for the tub height for that section.

Step 5: TIGHTENING THE RACK

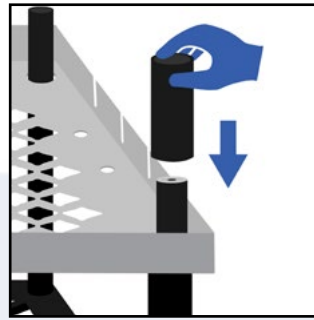
If installing the **Gravity Fed Water System** skip this step and, proceed to **Step 6**.



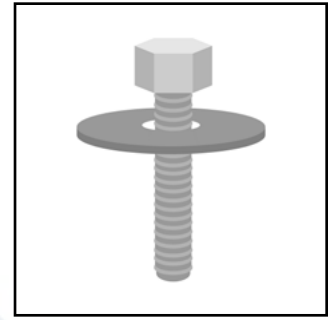
The rack is near completion when the spacers on top of the food tray are taller than the remaining pole length.



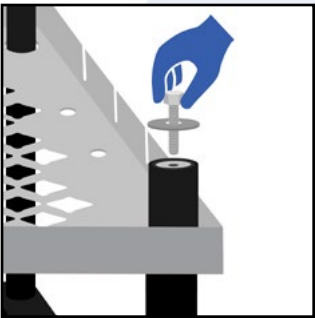
Once you reach the top of the last section in the rack, attach a female connector end to each of the 4 poles.



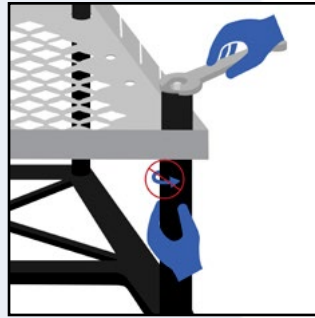
Place 3.5" spacer over pole end.



Place a rack tightening bolt through a rack tightening washer. (x4)

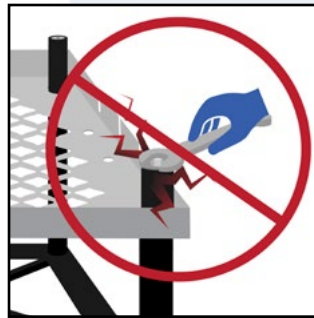


Align the bolt with the hole in the female pole end and hand tighten on all 4 poles.



A wrench is not provided but can be used for additional tightening.

Tighten the bolts until the spacers on the shelf below are hard to turn.



Avoid over-tightening as it may damage the threading.

Move on to **Steps 6 - 10** if you will be using optional accessories.

If not, fill your rack with Tubs.



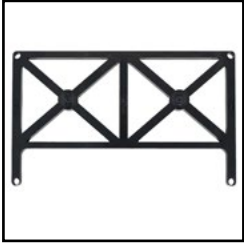
Vision Tubs



Step 6: GRAVITY FED WATER SYSTEM

The following is the Standard Configuration for the Drip Watering System, but other configurations are possible. Additional parts may need to be purchased if setting up your water system other than what is shown. The following are best practices to help provide a smooth installation.

PARTS FOR Step 6



ABS Shelf



Stainless Steel Water Valve



Brass Water Valve



Water Valve Clip



5 Gallon Water Container



Quick Connect Bulkhead & Tube Fitting



3/16 Flexible Tubing



Barbed in-line Shutoff Valve



Barbed Coupling



Barbed "L" Connector



Barbed "T" Connector



Barbed In-Line Screen Connector



Water Tub Shelf Metal Bushing

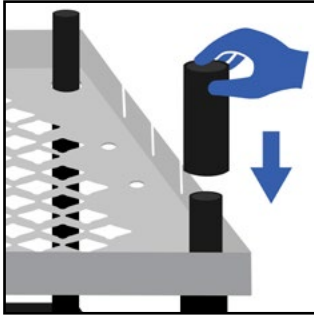


Rack Tightening Bolts

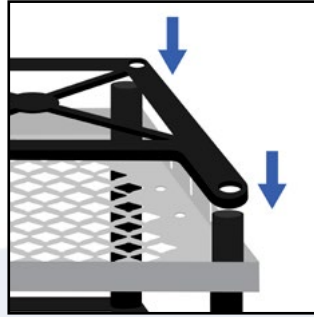


Rack Tightening Washers

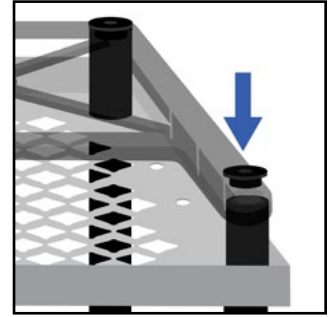
Step 6: GRAVITY FED WATER SYSTEM CONTINUED



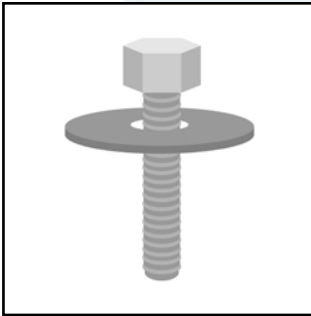
Place 3.5" spacer over pole ends. (x4)



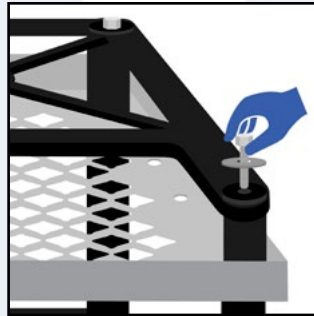
Place ABS Shelf on top of spacers.



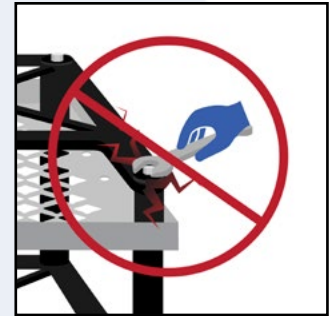
Seat the metal bushing into spacers.(x4)



Place a rack tightening bolt through a rack tightening washer. (x4)

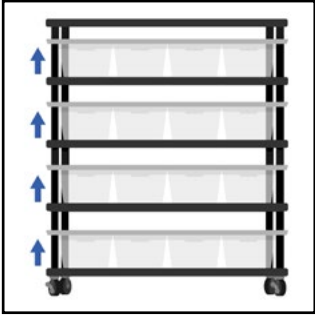


Align the bolt with the hole in the metal bushing and hand tighten on all 4 poles.

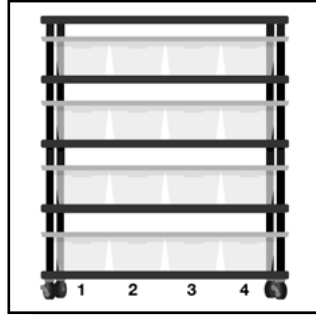


Avoid over-tightening as it may damage the threading.

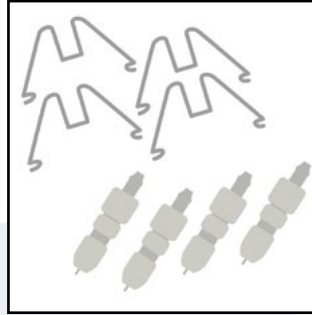
Step 6A: BEST PRACTICES FOR WATER NOZZLES



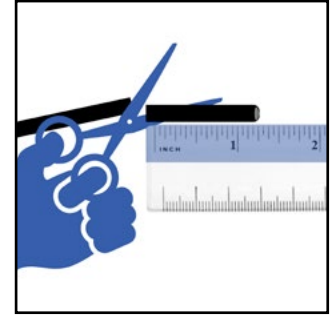
It's best to work row-by-row from the bottom of the rack to the top.



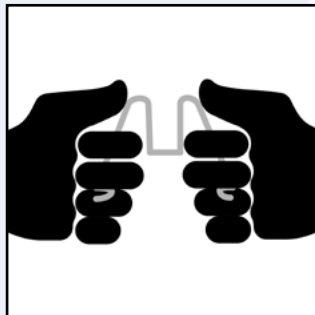
Count the number of tubs in the first row.



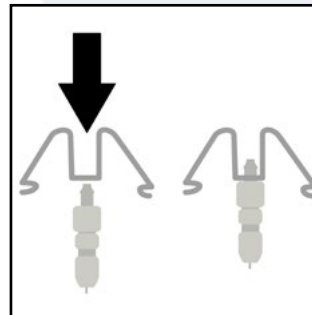
Gather the same number of water valves and drinking valve clips.



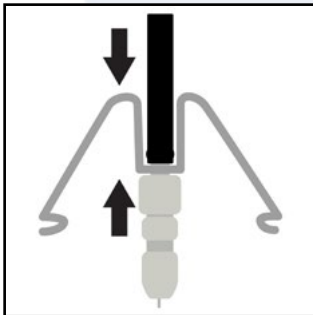
Cut Tubing to 1.25" and attach to for each Water Valve.



Bend out Drinking Valve Clips to provide a tighter fit when attaching to Food Tray.

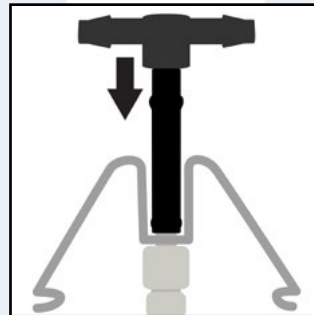


Place Drinking Valve Clip on top of Drinking Valve, Barb up.

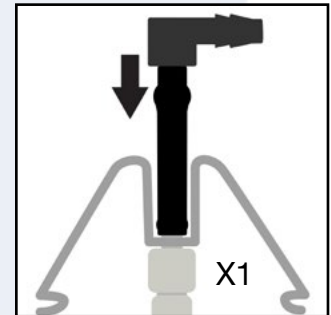


Attach 1.25" tubing to barb of Drinking Valve, ensuring tight fit.

Repeat for each of the Drinking Valves on that level.



Attach a Barbed "T" Connector to **all but ONE** of the valves on that level.



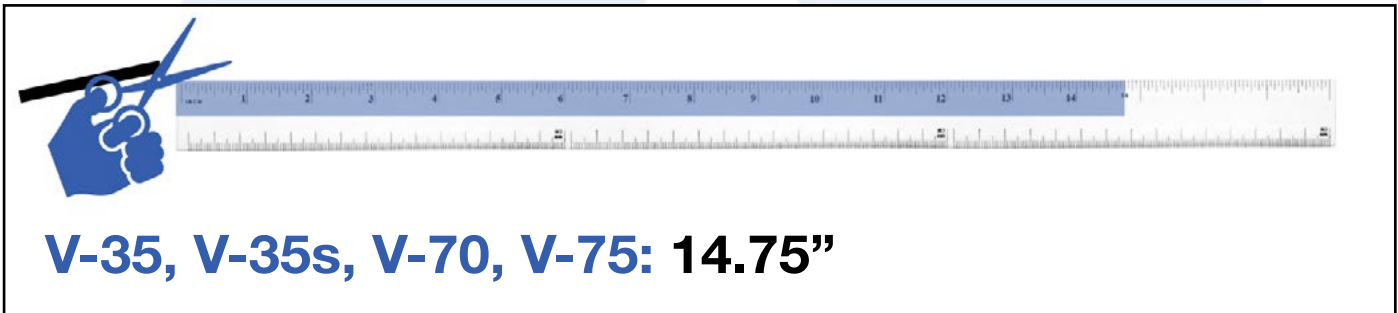
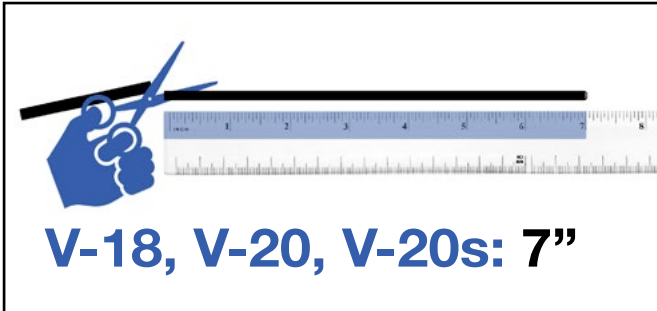
Attach a Barbed "L" Connector to the last water valve on the level, ensuring a tight fit.

Step 6A: BEST PRACTICES FOR WATER NOZZLES CONTINUED

Measure and cut tubing between drinking valves.

The amount of tubing needed between drinking valves will vary based on the type of tub used on that level.

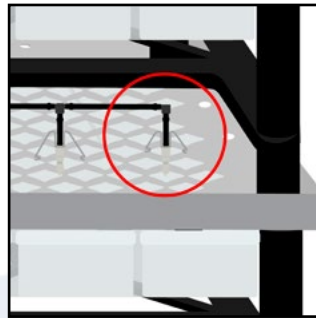
Below are the recommended lengths to cut the tubing based on tub size.



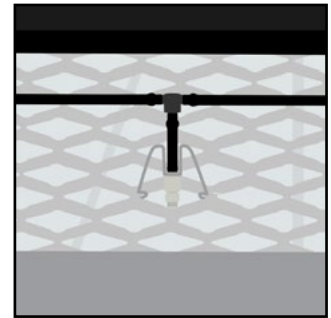
Step 6A: BEST PRACTICES FOR WATER NOZZLES CONTINUED



Attach Drinking Valves to newly cut tubing.



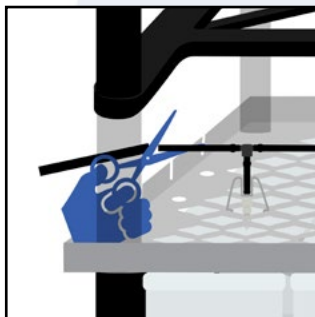
Attach the Drinking Valve with the "L" Connector on the opposite end of the row, from side of the future main water line.



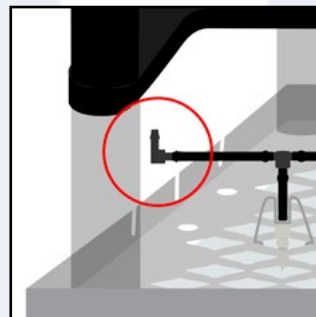
Place Drinking Valves into the preferred location in the Food Tray.

Repeat for each row, leaving an open end on each row on one side of rack.

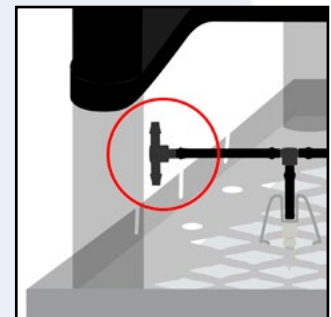
Step 6B: CONNECTING TO THE WATER SOURCE



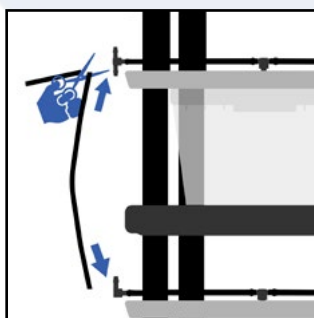
Connect one end of tubing to first "T" Connector in the current row. Measure a piece of tubing from the first "T" Connector to the End Plate and cut.



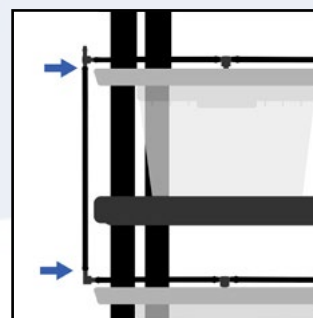
Bottom Row: Attach a Barbed "L" Connector to the end of the tubing.



Row 2 & Above: Attach a Barbed "T" Connector to the end of the tubing.



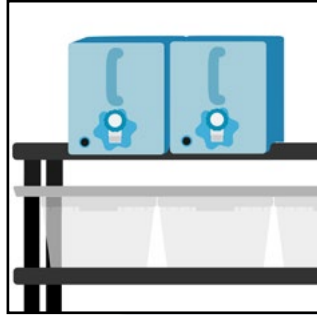
Measure a piece of tubing from the bottom row to the next row and cut.



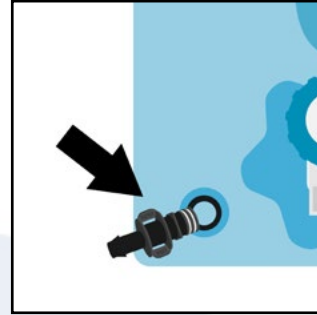
Attach the two rows together.

Repeat Steps 6A & 6B until you reach the top of the rack.

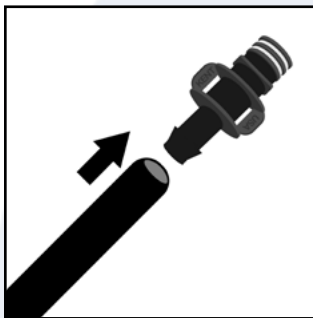
Step 6B: CONNECTING TO THE WATER SOURCE(S) CONTINUED



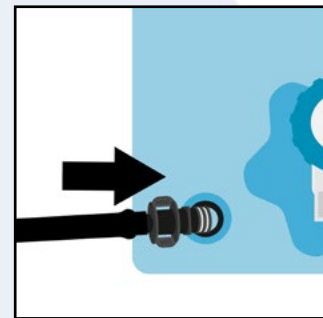
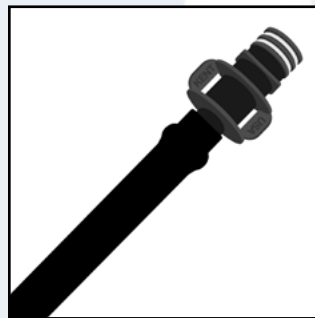
When connecting one or more water containers, be sure they are in place before continuing.



Remove Tube Fitting End of the Quick Connect Bulkhead found in the Water Container.



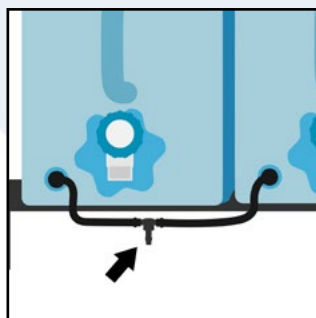
Cut a small piece of tubing (approximately 6") and attach it to the tube fitting end of the Quick Connect Bulkhead.



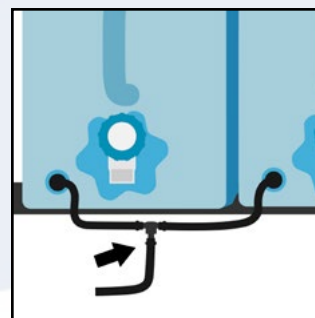
Replace the Tube Fitting End back into the Quick Connect Bulkhead.

CONNECTING TWO WATER CONTAINERS

If using 2 Water Containers follow the previous steps for both Water Containers.

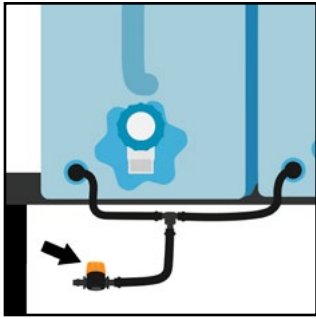


Use a "T" connector to connect the loose tubing from both Water Containers.

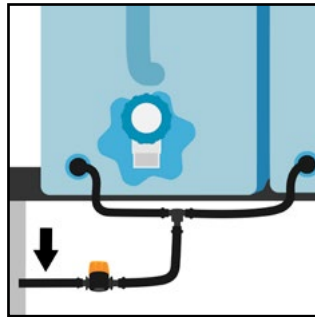


Cut and Connect a short piece of Tubing and connect to "T" Connector.

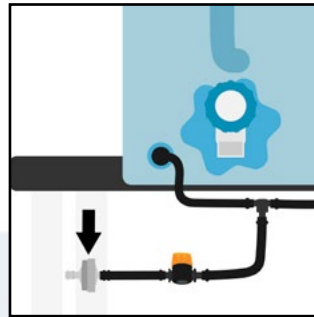
Step 6B: CONNECTING TO THE WATER SOURCE(S) CONTINUED



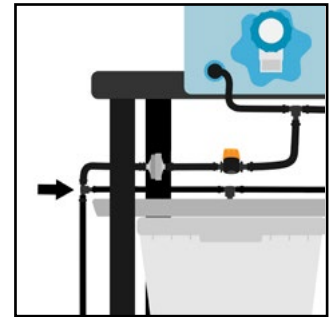
Attach an In-line Shutoff Valve to the loose Tubing.



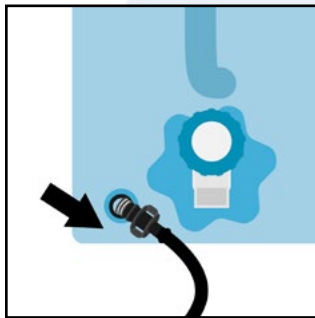
Connect another short piece of tubing to the other end of the In-line Shutoff Valve.



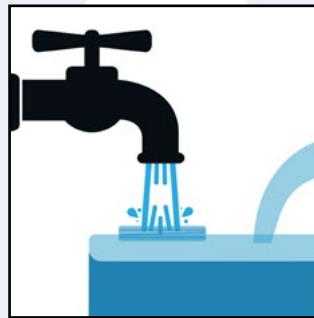
Attach a Barbed In-line Screen Filter to the loose Tubing (*It may take a little more force to attach*).



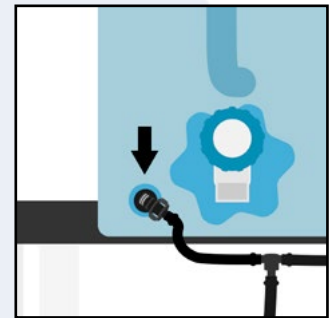
Cut and Connect a short piece of Tubing and connect open end of the Barbed Screen Filter to "T" Connector located on the top row of the rack.



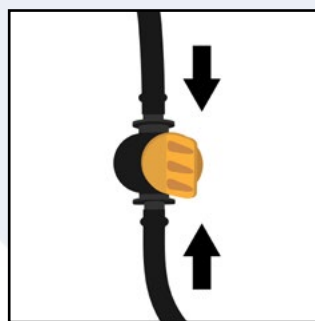
Disconnect the water containers from the rack using the Quick Connect Bulkhead.



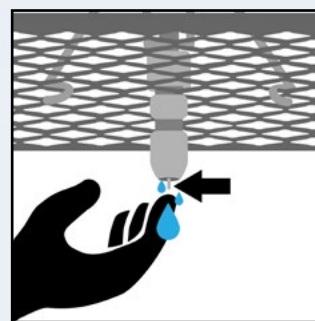
Fill Water Containers with water and place back on Water Container Holder.



Reattach Water Containers to the system with the Quick Connect Bulkhead.



Turn In-line Shutoff Valve to the "Open" position.



Press on the stem of a water valve to ensure water is flowing through the system.

Steps 7 - 10: OPTIONAL ACCESSORIES



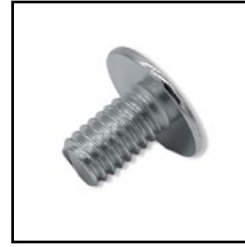
Front Stop



Back Stop



Food Tray Divider



Divider Tray Screw



Divider Tray



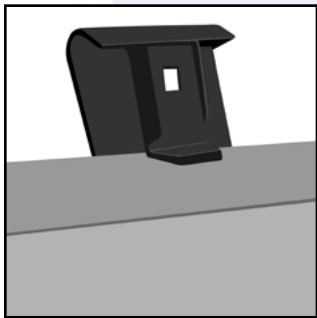
Food Hopper



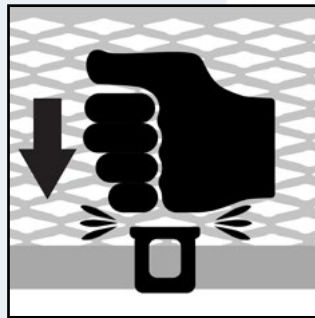
Water Bottle Holder

Step 7: ATTACHING & REMOVING BACK STOPS

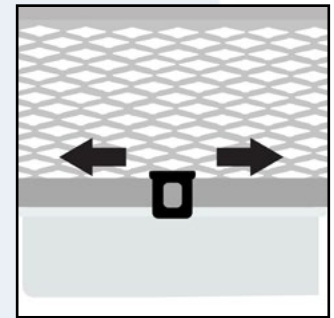
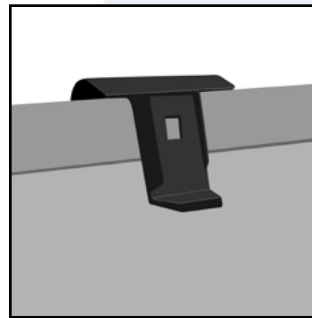
Designate the "Front" & "Back" of the rack before proceeding.



Clip the Black Backstop onto the back of the Food Tray, ensuring the back of the clip is catching on the inner lip of the food tray.



A slight bump with your fist will help snap it in place.



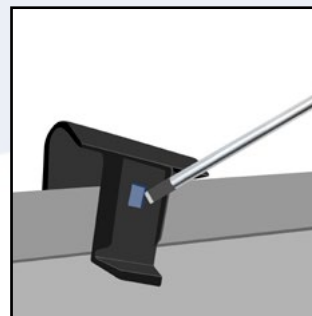
Align the Black Backstop to the center of each tub by sliding it left or right along the Food Tray.

Repeat for each tub on each level.

To **REMOVE** Back Stops from the Food Tray, try either of the following methods...

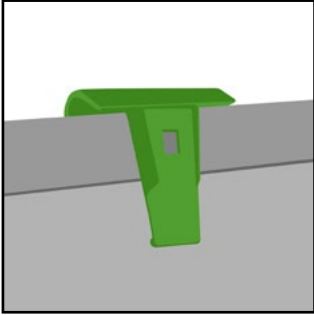


OR

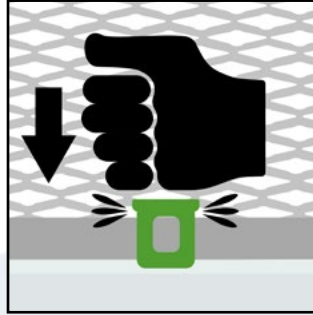


To remove the backstop from the Food Tray, use either your fingers or a flathead screwdriver to lift up on the inside of the Back Stop and wiggle it off the Food Tray and at an angle.

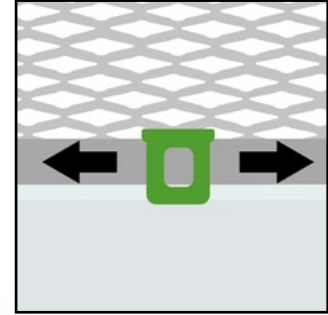
Step 8: ATTACHING FRONT STOPS



Clip the Green Front stop onto the front of the Food Tray, ensuring the back of the clip is catching on the inner lip of the food tray.

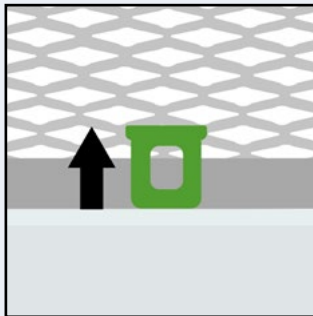


A slight bump with your fist will help snap it in place.

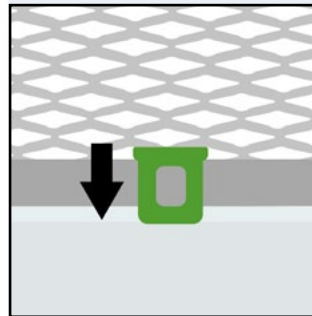


Align the green Front Stop to the center of each tub by sliding it left or right along the Food Tray.

Repeat for each tub on each level.



Front Clips are designed to snap in an upper position in order to remove tubs from the shelf.



Front Clips are designed to snap in down position to hold the tubs in place.

Step 9: FOOD TRAY DIVIDER PARTS



Divider Tray
Screw



Food Tray
Divider



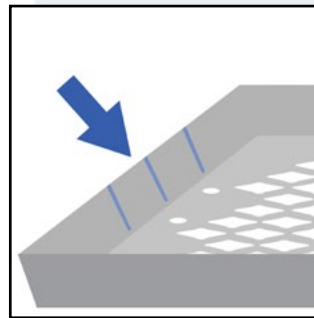
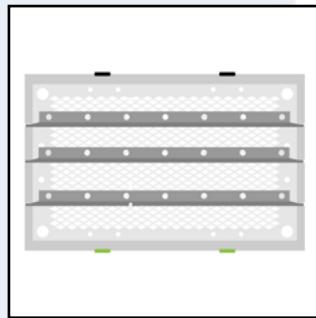
Divider Tray
Wing Nut

Step 9: ASSEMBLING FOOD TRAY DIVIDERS

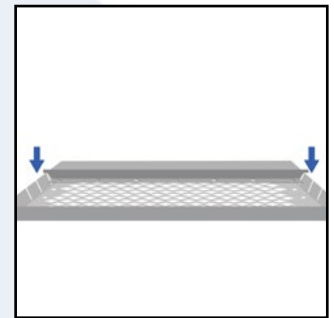
Hint: Remove tubs on given row to gain access to the underside of the Food Tray.



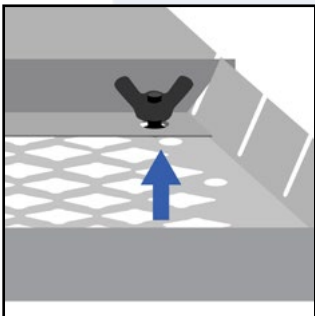
The “L” Shaped Food Dividers can be placed in three different positions in the Six slots on each end of the Food Tray, facing either forward or backward.



Start by sliding one end of the divider into the preferred slot on side of the Food Tray.

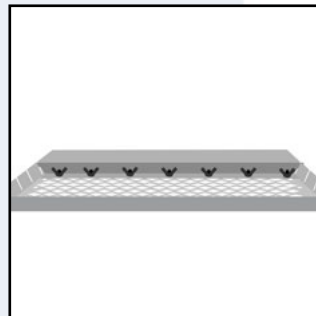


Slide the other side of the divider into the same slot on the opposite end of the Tray.



Slide the Divider Tray Screw up through the bottom of the Food Tray and through the Divider hole.

Attach the Divider Tray Wing Nut on top of the Food Tray to Secure the Divider in place.

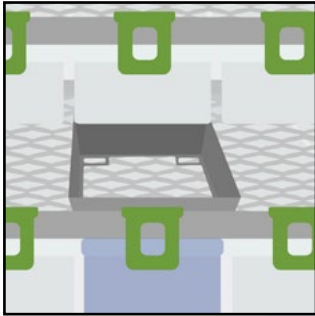


Continue adding screws and wing nuts to the remaining holes or, as many as desired.

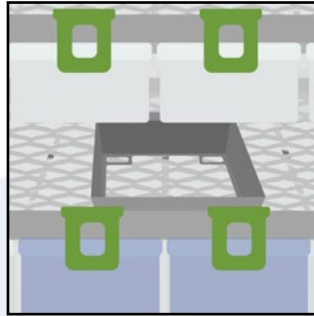
Repeat these steps until desired amount of divider trays are in place.

Step 10: FOOD HOPPER PLACEMENT

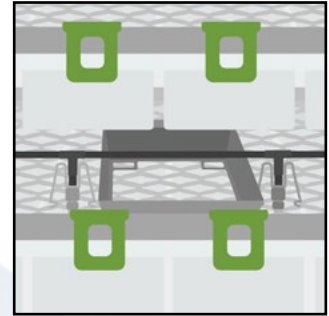
Food Hoppers may be positioned to your liking. The following are recommendations to provide easy use.



Food Hopper may be set above each tub.

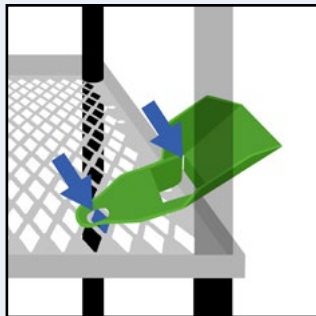


Or between two tubs to accommodate both.



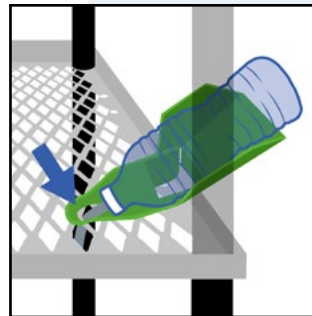
Food hoppers will slide under water nozzle tubing if both are used on the same side.

Step 11: WATER BOTTLE HOLDER



Slide Slot on Water Bottle Holder onto the edge of the Food Tray.

Line up nozzle opening with a Goldilocks hole in the food tray.



With the water bottle facing downward, rest it in the Water Bottle Holder with the nozzle directed down, through the food tray, and into the tub.

Thank you for choosing

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