FISH TRAP BUILD VIDEO

WATCH NOW

LEGEND THERMAL XT

MODEL 16849

SPECIFICATIONS

- Part Number: 116849
- Set Up Size: 91”L x 44”W x 73”H
- Packed Size: 44”L x 36”W x 24”H
- Weight: 62 lbs.
- Fishable Area: 16 sq.ft
- Instructions: 106974

CLAMOUTDOORS.COM

WARRANTY INFORMATION

STOP

Please contact customer service directly at the E-mail or phone number listed below for any quality issues. ***ONCE USED THIS PRODUCT CANNOT BE RETURNED TO STORE.***

*****Warranty cannot be honored without an original, dated receipt *****

***** REGISTER YOUR PURCHASE ONLINE AT CLAMOUTDOORS.COM *****

IMPORTANT-PLEASE READ:

This product is warranted to the original retail purchaser (from an authorized dealer) and is non-transferable. Clam Outdoors has a one-year ***manufacturer’s defect warranty*** from the date of original purchase. Warranty does not cover cracked or worn bases ***(if runner kits have not been installed as recommended)***, cracked windows, tent tears or cuts, or broken or bent hoops due to high wind weather conditions or unattended use. Defective parts will be replaced or repaired (at the manufacturer’s option) if found to be defective within one year from the date of original purchase. Warranty will be void if product has been subject to neglect, misuse, improper installation, misapplication, alteration, accident including but not limited to improper maintenance, or use of unauthorized parts or attachments. Please read the entire owner’s manual to ensure proper installation, use, storage and care of your Clam Shelter.

To submit a warranty claim request, please use one of the following methods:

- https://clamoutdoors.com/pages/warranty-form
- Email: customerservice@clamcorp.com

In your request, please include your full name, address, phone number, a copy of your receipt, a brief description of the problem, and pictures to clearly show the area(s) of concern. Our Warranty Department will review your request, and a Clam representative will contact you regarding your claim status. All returns must be shipped to us postage pre-prepaid.

LIMITATION OF LIABILITY

It is expressly understood that Clam Outdoors Inc., liability for its products, whether due to breach of warranty, negligence, strict liability, or otherwise, is limited to the repair of the product as stated above. Clam is not liable for any injury, loss, damage, or expense, whether direct or consequential, including but not limited to loss of use, income, profit, or damage to material arising in connection with the sale, installation, use of, inability to use, or the repair or replacement of Clam products. Clam reserves the right to make alterations or modifications in its products at any time, which in its opinion, may improve the performance and efficiency of the product. Clam shall not be obligated to make such alterations or modifications to products already in service

Clam contact information

Customer Service Hrs: 9am to 4pm, Monday – Friday Central Standard Time

Clam Outdoors
Attn: Customer Service
12135 Brockton Lane
Rogers, MN 55369
Phone: 763-231-4120

PARTS LIST

QTY.	PART NO.	DESCRIPTION
1	104112	BASE, LEGEND
3	106868	HOOP POLE, LEGEND XT
1	106867	EXTENSION HOOP POLE, LEGEND XT (GREEN ZIP TIE)
1	106956	TENT LEGEND THERMAL XT
1	102759	DELUXE SEAT
1	104115	SEAT RAIL
1	101074	REAR ADJSUTABLE SPREADER POLE
1	102814	U-CHANNEL
1	107352	SEAT COVER, BOTTOM
1	107351	SEAT COVER, BACK
1	101095	TOW ROPE, 3/8 DIA X 9 FT
1	106974	INSTRUCTIONS, LEGEND XT THERMAL
1	106871	INNERPACK, LEGEND XT (INCLUDES THE FOLLOWING)
6	101083	CAP TUBE SPACER
2	103833	MOUNTING BRACKET
2	104116	RAIL SUPPORT BRACKET
2	106746	CANOPY POLE PLATE
4	101613	PLASTIC SPACER
8	103770	SMALL RPSX COLLAR, 7/8" POLE
6	103836	STRAIGHT CANOPY SUPPORT POLE
2	101430	CAP TUBE
1	105816	SEAT ASSEMBLY
2	106866	EXTENSION SUPPORT POLE, LEGEND XT
2	106804	EXTENSION CLAMP
1	106872	KIT, HRDWR, LEGEND XT (INCLUDES THE FOLLOWING)
2	103835	WASHER, PLASTIC LARGE
5	103839	WASHER, PLASTIC SMALL
20	101148	SCREW, #6 X 0.38 PPH BZ
15	106284	NUT, 1/4-20, FLANGE, NYLOCK
2	106456	SCREW, 1/ 4-20 X 1.75, BTN, HEX DRIVE
7	106286	SCREW, 1/4-20 X 0.75, BTN, HEX DRIVE
5	106869	SCREW, 1/4-20 X 0.625, BTN, HEX DRIVE
7	106455	SCREW, 1/4-20 X 1.25, BTN, HEX DRIVE
5	101614	SCREW, 1/4-20 X 2.50 SER HXFLNG GR5 CZ
3	106510	SCREW, 1/4-20 x 1.812, BTN, HEX DRIVE
6	101082	NUT, 1/4-20 THIN NYLOCK YZ
1	106294	ALLEN WRENCH, 5/32 HEX DRIVE, L-SHAPE, 1/4 THREADS

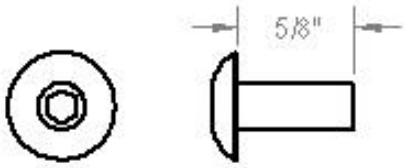


- **EXTRA FASTENERS INCLUDED WITH THE HARDWARE KIT #106872**
- **INSTALL ANY RUNNER KIT OPTIONS BEFORE ASSEMBLING SHELTER. REFER TO RUNNER KIT INSTRUCTIONS**
- **USING A DROP OF OIL ON ALL NUTS WILL EASE THE ASSEMBLY**

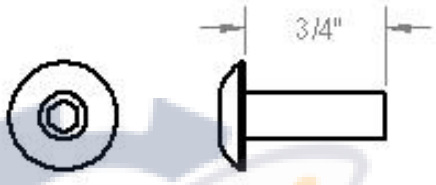
HARDWARE FASTENERS REFERENCE



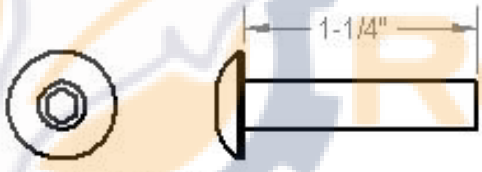
20X 101148



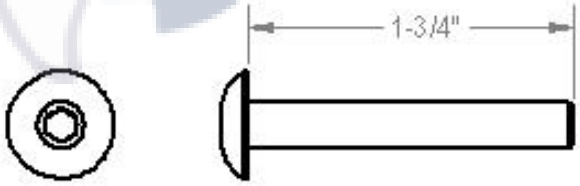
5X 106869



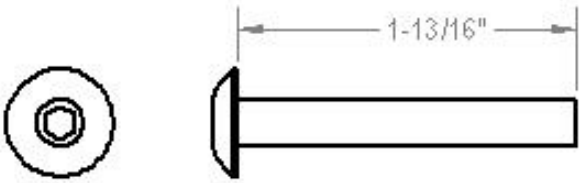
7X 106286



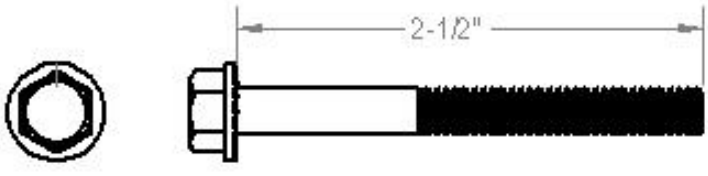
7X 106455



2X 106456



3X 106510



5X 101614



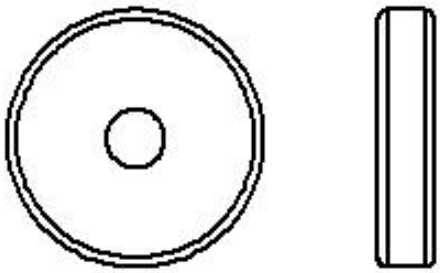
6X 101082



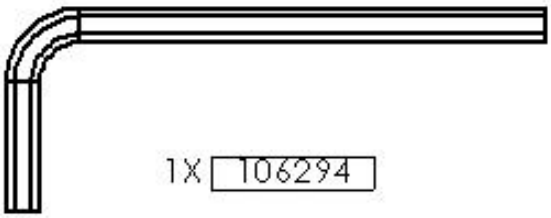
15X 106284



5X 103839



2X 103835



1X 106294

ReelSchematic

STEP 1 – SEAT ASSEMBLY

NOTE: Seat system is mainly pre-assembled on Legend XT-model shelters. The only steps needed to complete assembly is connecting the swivel to the seat.

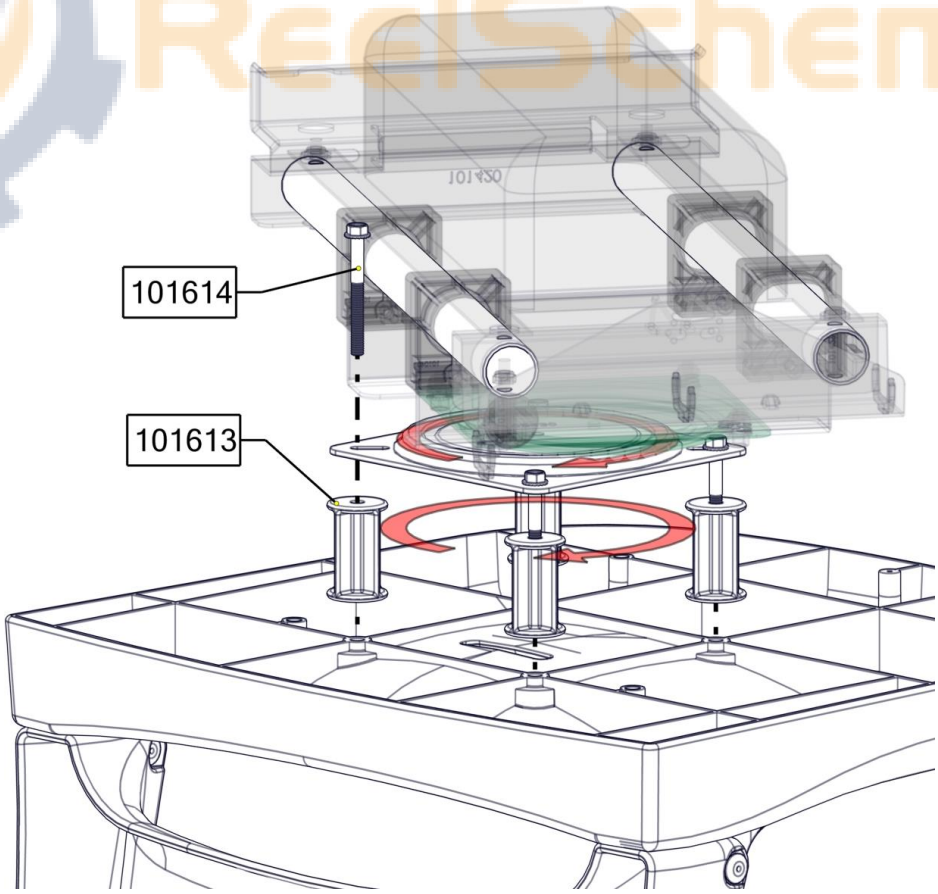
Parts Needed for Step 1

Part Number	Description	Quantity
102759	DELUXE SEAT	1
101613	PLASTIC SPACER	4
101614	SCREW, 1/4-20 X 2.50	4
N/A	SWIVEL ASSEMBLY	1

A. Flip the Deluxe Seat #102759 upside down and rotate the Swivel Assembly so the slotted holes are accessable and will align with holes in the seat.

B. Insert #101614 bolt through Plastic Spacer #101613 and hand tighten. Repeart process for all four spacers.

C. Complete assembly by securely tightening all bolts. **DO NOT OVERTIGHTEN HARDWARE.**



STEP 2 – EXTENSION HOOP POLE

NOTE: The Extension Hoop Pole #106867 is identified with a green zip tie. This pole is also shorter in length than the other hoop poles included with the shelter.

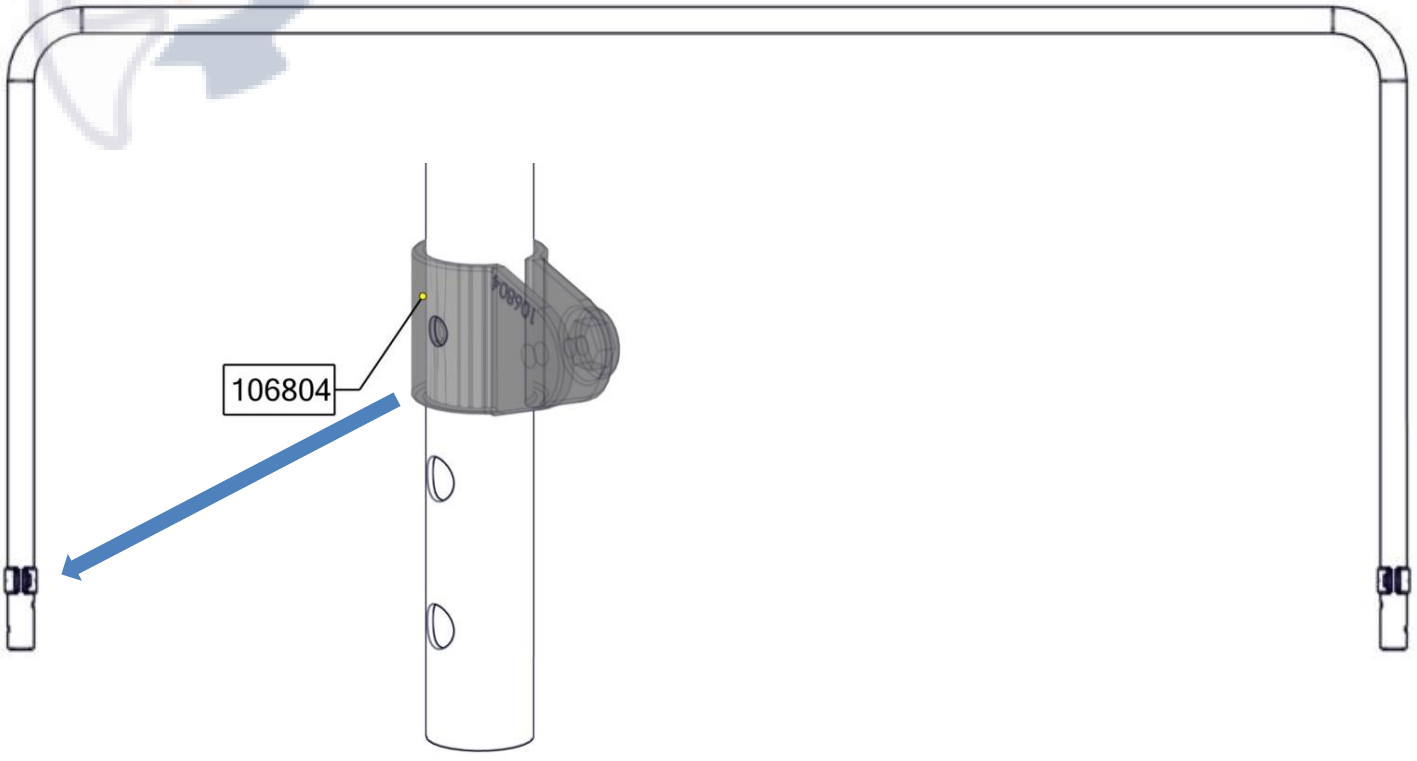
Parts Needed for Step 2

Part Number	Description	Quantity
106804	EXTENSION CLAMP	2
106866	EXTENSION SUPPORT POLE	2
106867	EXTENSION HOOP POLE (Green Zip Tie)	1
106868	HOOP POLE	1
103770	SMALL RPSX COLLAR	4

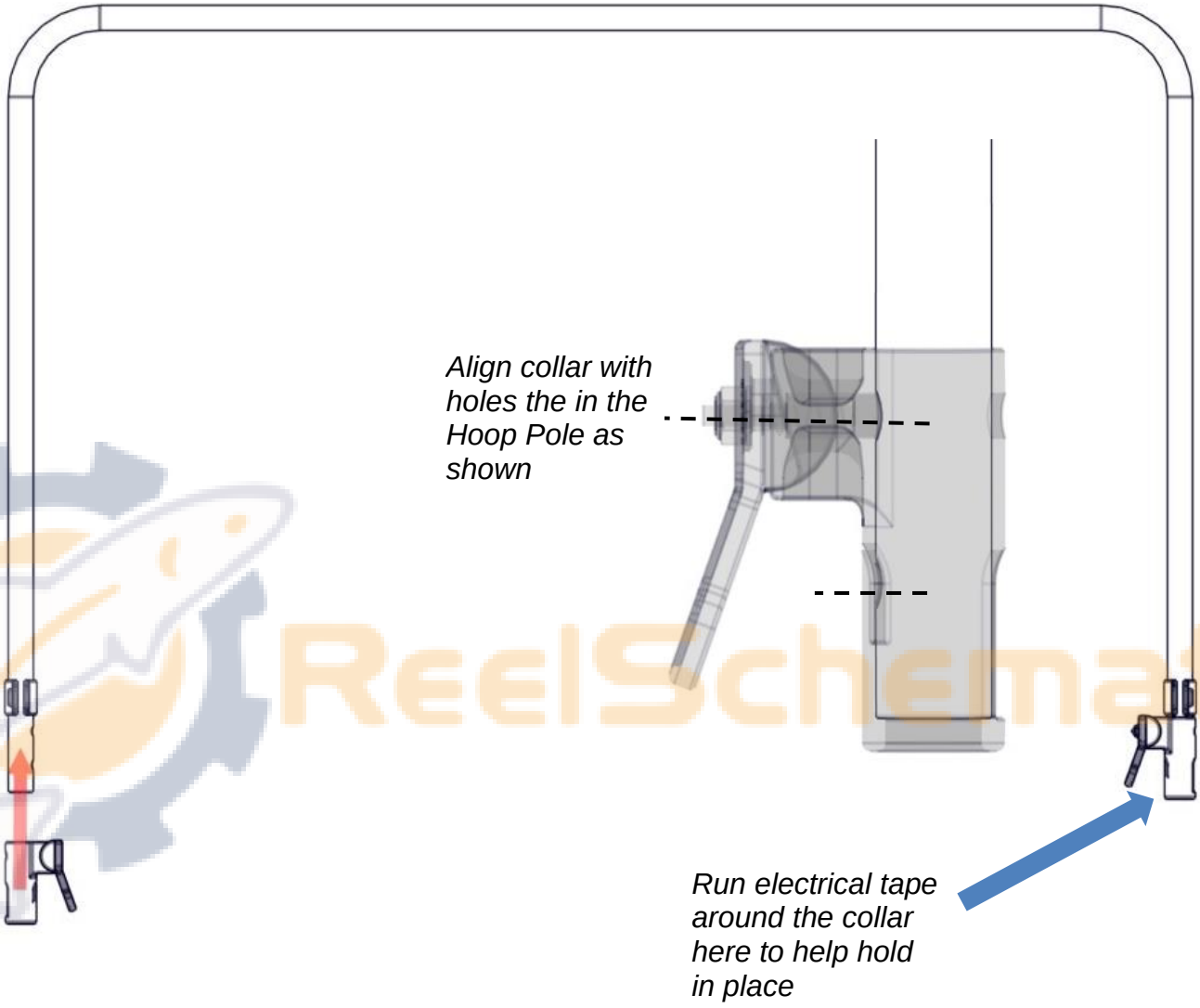
DO NOT CUT ANY OF YOUR POLES

A. Remove included hardware from the Extension Clamps #106804.

B. Clip Extension Clamp around the Hoop Pole #106868 (no green zip tie) with the molded coupling situated towards the inside. Slide the clamp into place and snap into the respective hole on the Hoop Pole. Repeat this process on other side.



C. Install RPSX Collar #103770 onto both sides of Hoop Pole #106868.

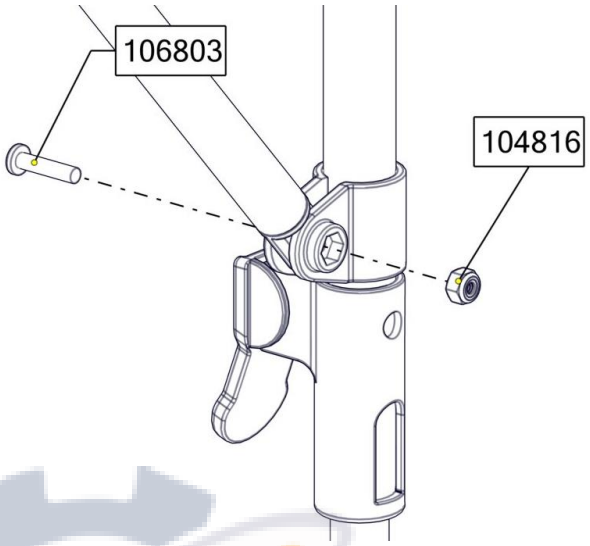


ReelSchematic

TIP: Twist the lever on the RPSX Collars 90 degrees to allow for easier installation onto Hoop Pole.



D. Attach Extension Support Poles #106866 with the notch of the pole facing inward. Use hardware provided with the Extension Clamps to secure. ***NOTE: Do not overtighten as this pole needs to move freely.***

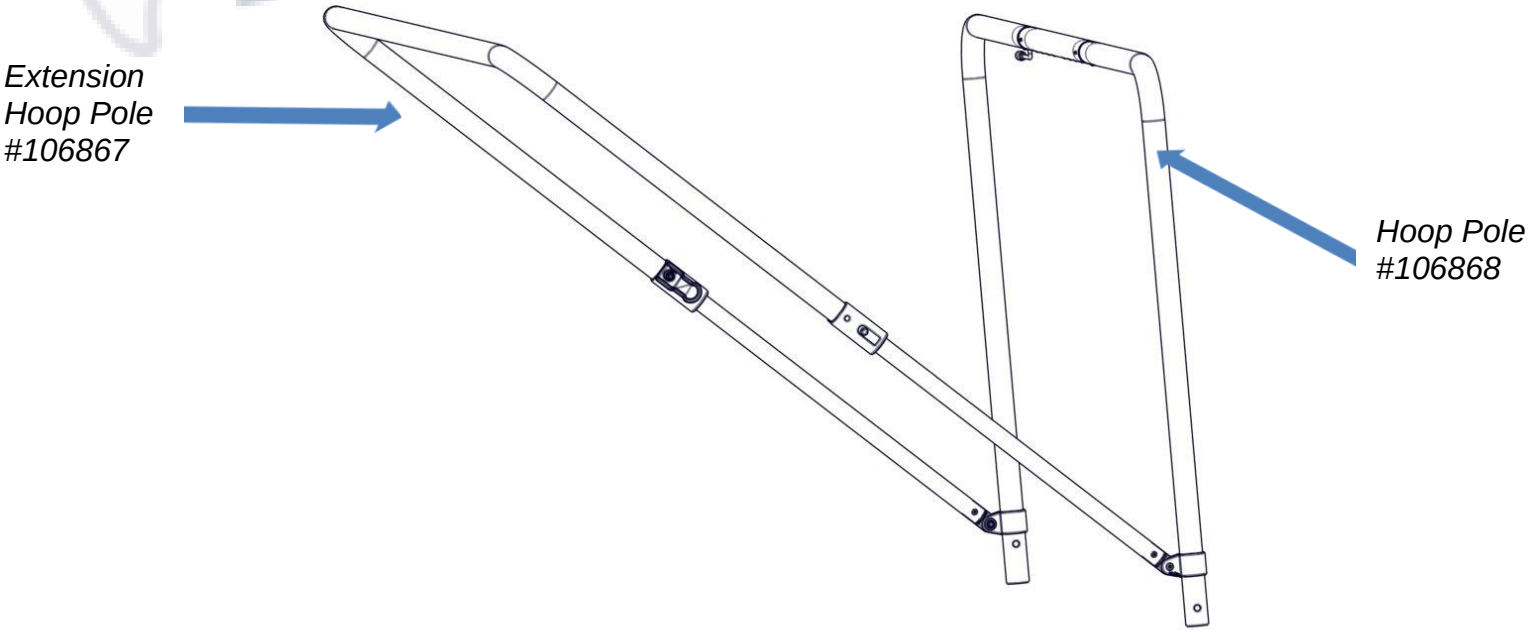




Extension Support Pole

E. Clip green zip tie and install RPSX Collars #103770 onto Extension Hoop Pole #106867.

F. Install Extension Hoop Pole onto Extension Support Poles (shown below).



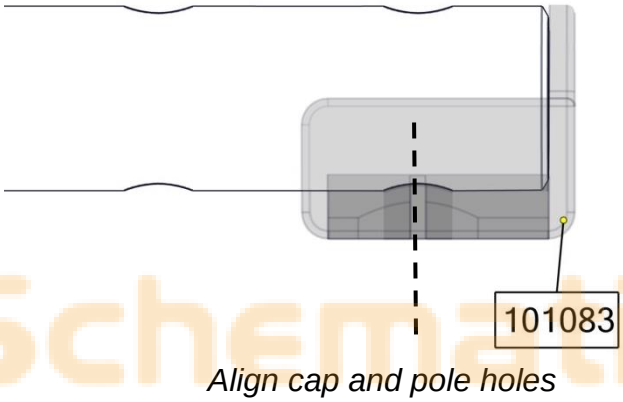
STEP 3 – CANOPY POLES

Parts Needed for Step 3

Part Number	Description	Quantity
103836	STRAIGHT CANOPY SUPPORT POLE	6
101083	CAP TUBE SPACER	6
106746	CANOPY POLE PLATE	2
106455	SCREW, 1/4-20 X 1.25	6
106510	SCREW, 1/4-20 x 1.812	2
101082	1/4-20 NYLOCK NUT	6
103839	PLASTIC WASHER	4

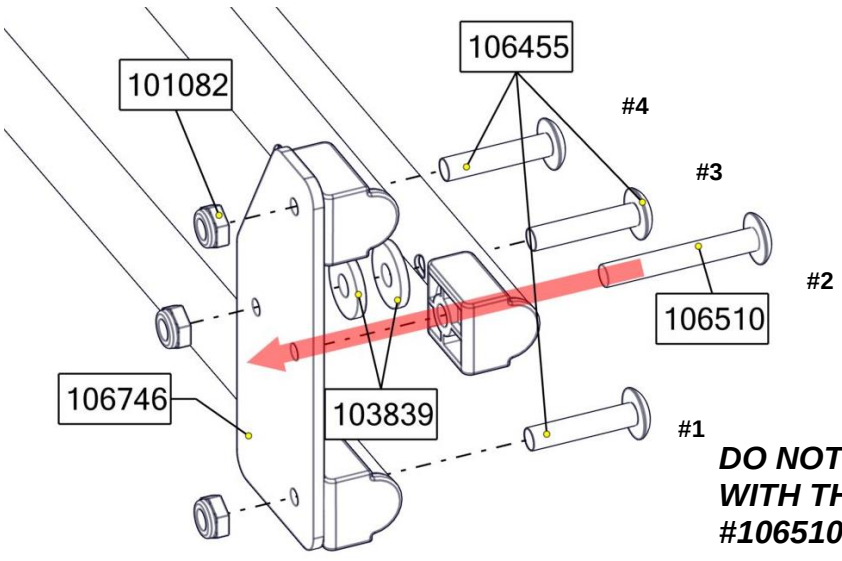
A. Insert Cap Tube Spacers #101083 into the ends of the Canopy Support Poles #103836.





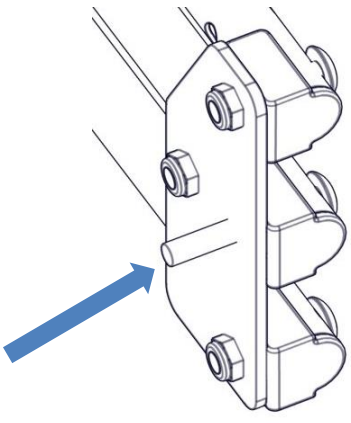
B. Align the Canopy Pole Plate #106746 so that one plate has the stamped part number facing inward and the other facing outward.

C. Starting with the back Canopy Support Pole **(location #1 in photo below)**, connect pole to the plate using one #106455 bolt and #101082 nut. For the second pole, use the longer #106456 bolt through the lower hole on the pole **(#2)**. For the upper hole **(#3)**, stack two #103839 plastic washers and run bolt through. Lastly, secure the final pole **(#4)** in the front location of the plate.

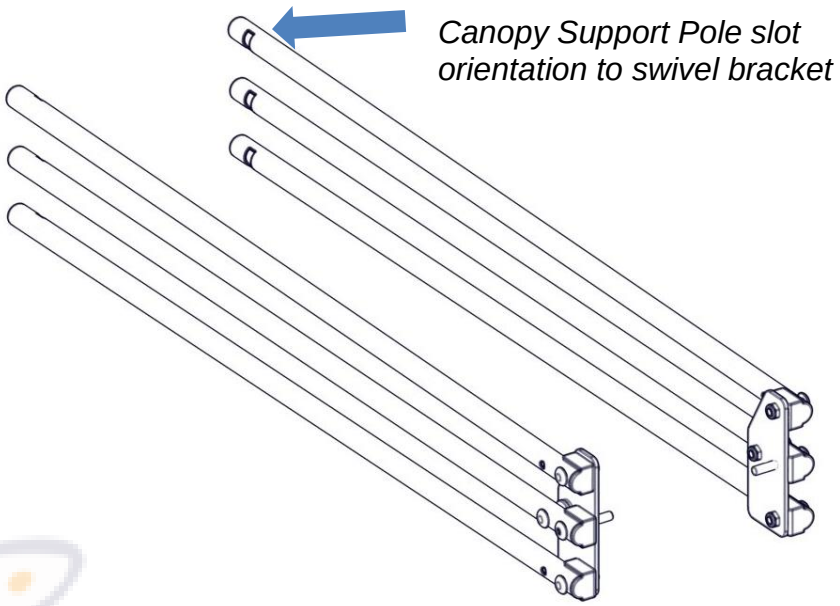


POLES SHOULD MOVE EASILY, DO NOT OVERTIGHTEN

DO NOT USE NUT WITH THE LONGER #106510 BOLT



D. Repeat process for other canopy pole assembly. Ensure that all Canopy Support Poles #103836 have slots facing inward (see figure below).



STEP 4 – SEAT RAIL

Parts Needed for Step 4

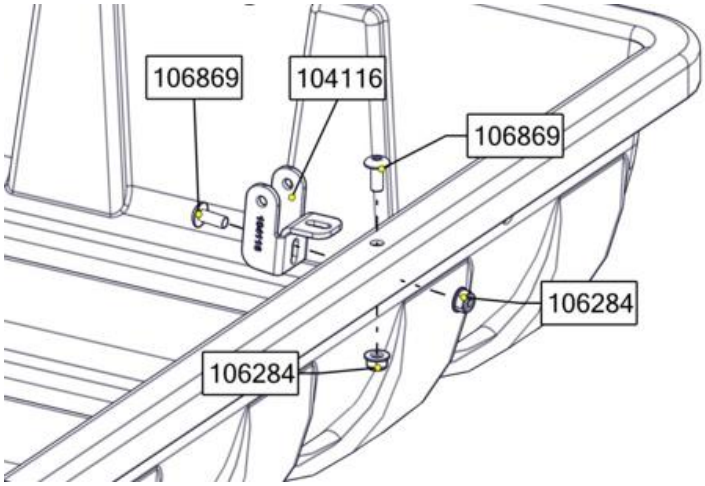
Part Number	Description	Quantity
104116	RAIL SUPPORT BRACKET	2
104115	SEAT RAIL	1
101430	CAP TUBE	2
106869	SCREW, 1/4-20 X 0.625	4
106456	SCREW, 1/ 4-20 X 1.75	2
106284	NUT, 1/4-20, NYLOCK	6

A. Line up Rail Support Bracket #104116 with predrilled hole on lip of sled.

B. Insert #106869 bolt through the top hole and line up bracket so it's straight.

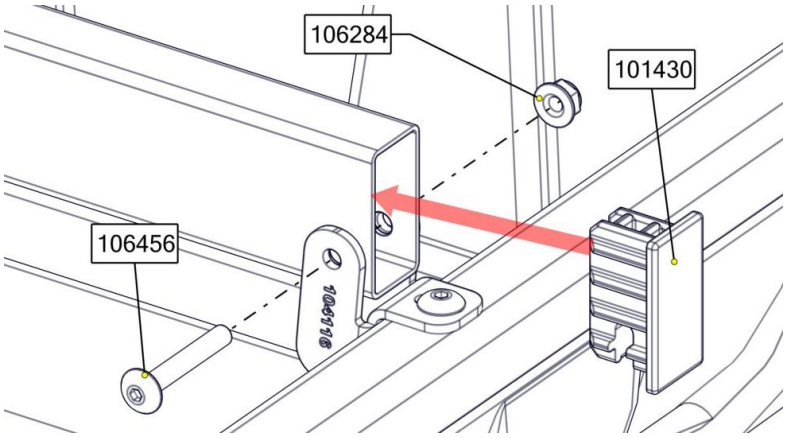
C. Once bracket is straight, insert #106869 bolt into bottom hole and secure bolts with #106284 nuts.

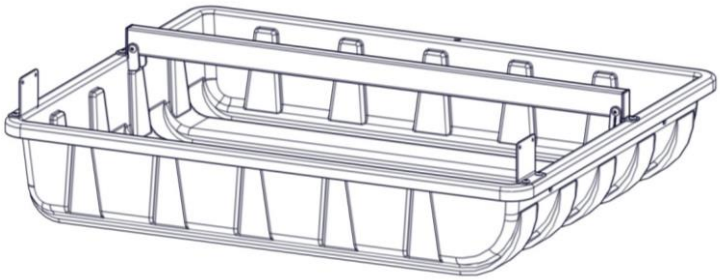
D. Repeat process on opposite end of sled.



E. Install Cap Tubes #101430 into the ends of the Seat Rail #104115.

F. Connect the Seat Rail to the brackets using one #106456 bolt and #106284 nut on either end.
NOTE: Head of bolt needs to face the front of the shelter.





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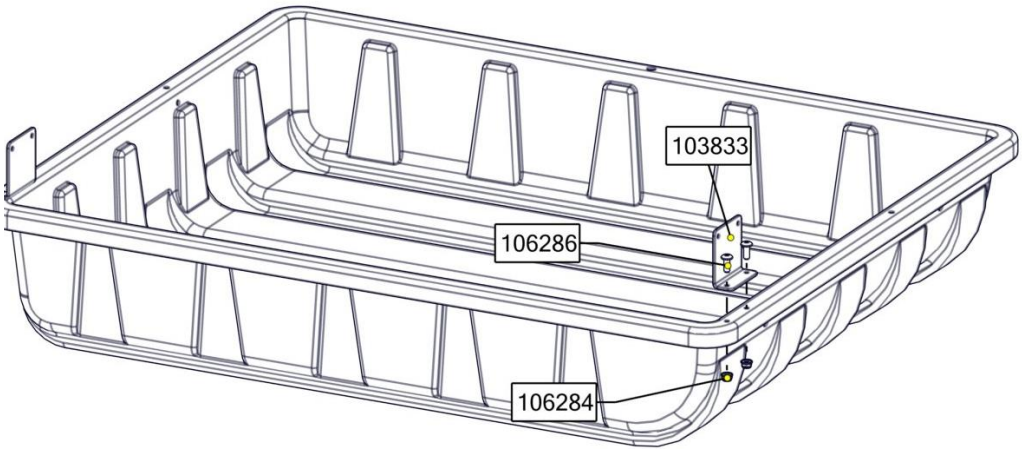
STEP 5 – MOUNTING BRACKETS

Parts Needed for Step 5

Part Number	Description	Quantity
103833	MOUNTING BRACKET	2
106286	SCREW, 1/4-20 X 0.75	4
106284	NUT, 1/4-20, NYLOCK	6

A. Place Mounting Bracket #103833 with the ‘L’ facing outwards as shown below.

B. Insert #106286 bolts and secure to base using #106284 nuts.



STEP 6 – INSTALLING POLES ON SHELTER

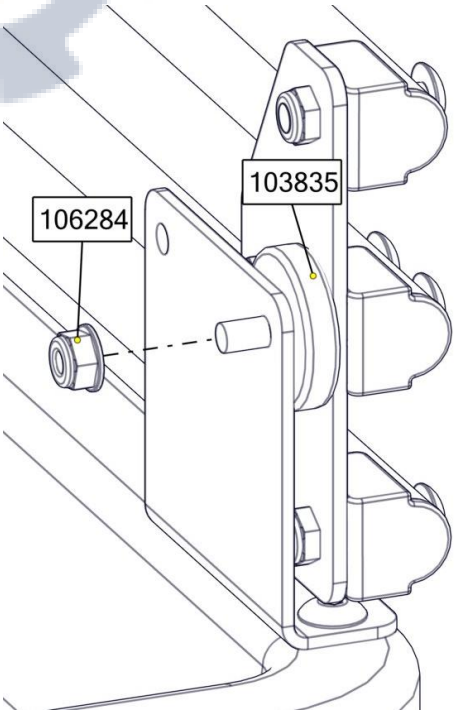
Parts Needed for Step 6

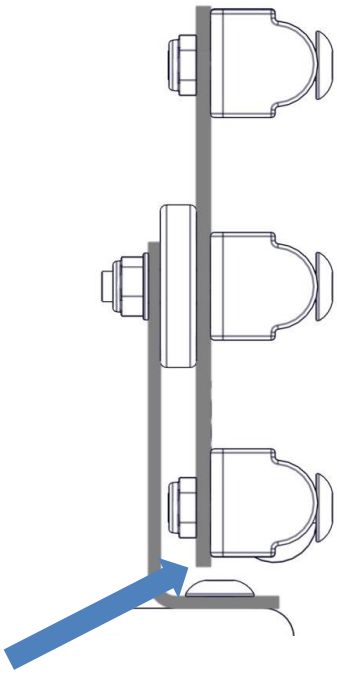
Part Number	Description	Quantity
106868	HOOP POLE	2
N/A	EXTENSION HOOP POLE ASSEMBLY (From Step 2)	1
N/A	CANOPY POLE ASSEMBLY (From Step 3)	2
103770	SMALL RPSX COLLAR	2
101074	ADJUSTABLE SPREADER POLE	1
103835	LARGE PLASTIC WASHER	2
106284	NUT, 1/4-20, NYLOCK	2

A. Put the Large Plastic Washer #103835 onto the longer bolt from the Canopy Pole Assembly built in Step 3.

B. Install the Canopy Pole Assembly onto the FRONT predrilled hole of the Mounting Bracket #103833 and secure with #106284 nut (see next page for example).

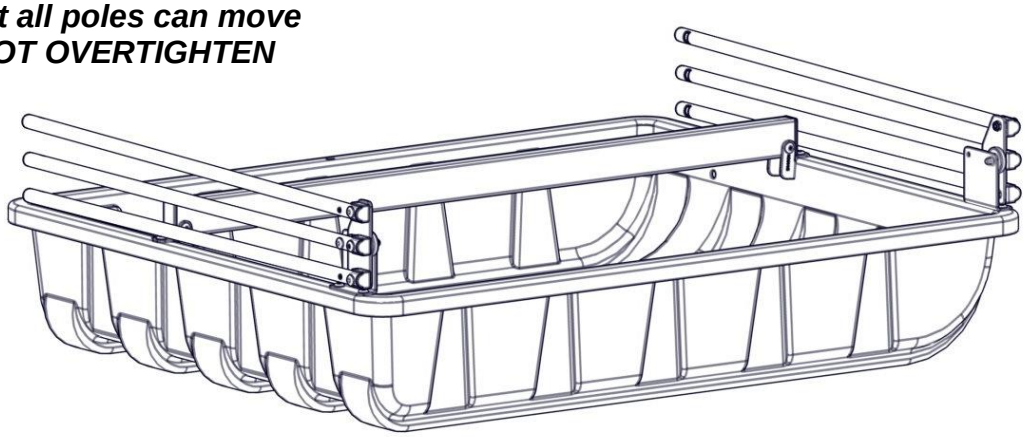
C. Repeat process for other Canopy Pole Assembly.





Need to have space between bracket and nuts

Verify that all poles can move easily – DO NOT OVERTIGHTEN



D. Put RPSX Collars #103770 onto the remaining Hoop Poles #106868.

E. Install one Hoop Pole onto the BACK pair of support poles.

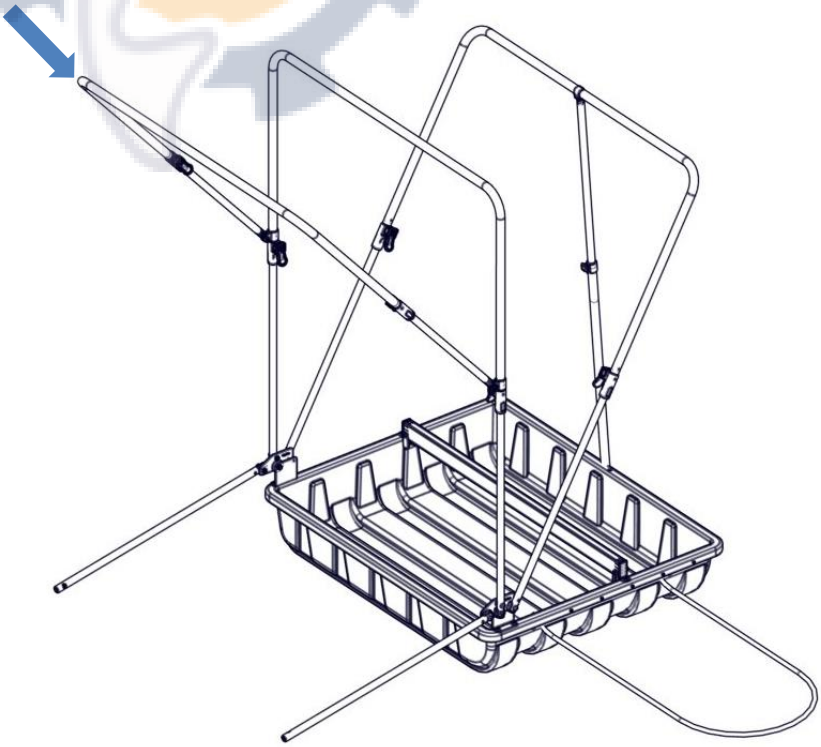
F. Next, install the Extension Hoop Pole Assembly from Step 2 to the next set of support poles.

G. Clip the rear spreader pole to the frame of the shelter.

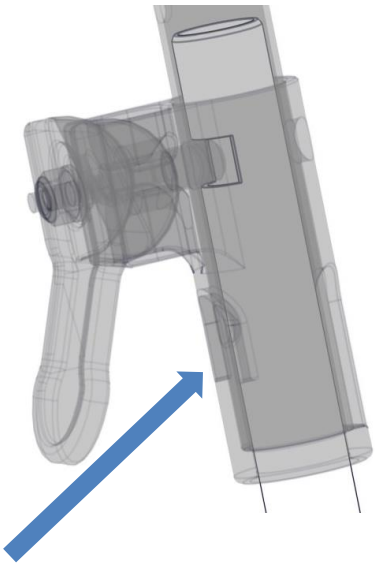
NOTE: DO NOT INSTALL BOTTOM HOOP (PORCH) POLE. THIS WILL BE DONE DURING THE TENT INSTALLATION STEP.

ReelSchematic

Extension Hoop Pole



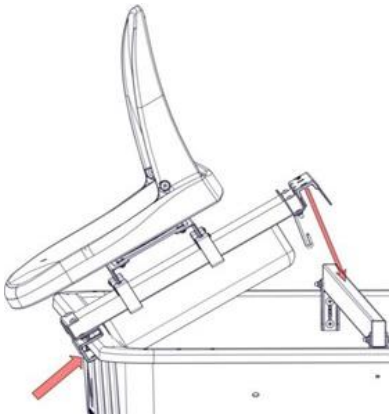
Slide Hoop Poles over Canopy Poles and lock with RPSX Collars

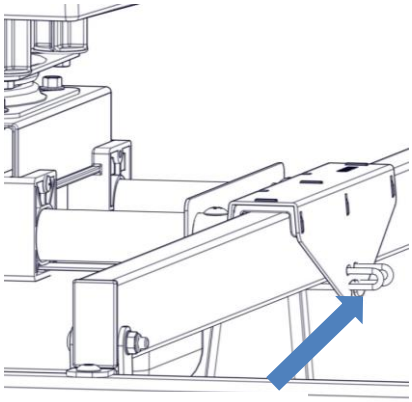


TIP: Run electrical tape around collar to help prevent the tab from twisting or slipping

STEP 7 – PUTTING SEAT INTO SHELTER

A. Put seat assembly into shelter. Connect the front retaining bracket around the lip of the tub first, then the rear bracket. The rear retaining bracket has the spring latch.





USE LATCH TO SECURE SEAT

STEP 8 – TENT INSTALLATION

FOR AN ALTERNATIVE OPTION FOR INSTALLING THE TENT, PLEASE REFER TO THE SETUP VIDEO INSTRUCTIONS FOUND THROUGH THE QR CODE ON PAGE 1 OF THIS MANUAL

Parts Needed for Step 8

Part Number	Description	Quantity
106956	TENT LEGEND THERMAL XT	1
102814	U-CHANNEL	1
101148	SCREW, #6 X 0.38	20

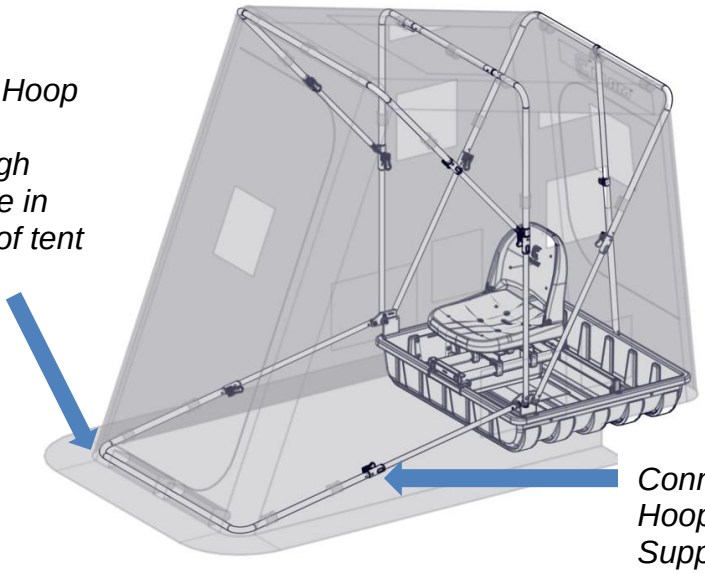
TIPS FOR INSTALLING TENT

- For best results, set tent in a warm environment.
- Use of a cordless drill is advised for installing U-channel screws.
- Before installing tent, place a heavy weight in the center of the base to ensure proper tent installation.
- Do not leave spreader poles attached while installing tent. Only use them for placing tent over the shelter's frame during the assembly process.

A. Drape the tent over the Hoop Poles. Attach the tent to the poles on the inside with the Velcro straps.

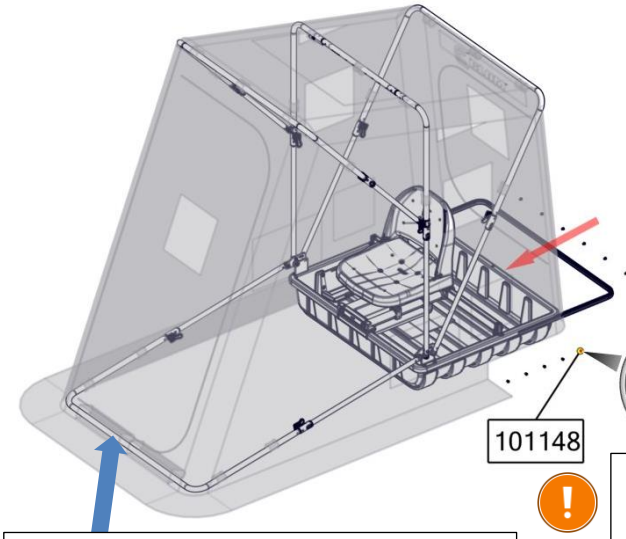
B. Slide the remaining front Hoop Pole through the sleeve in the front of the tent.

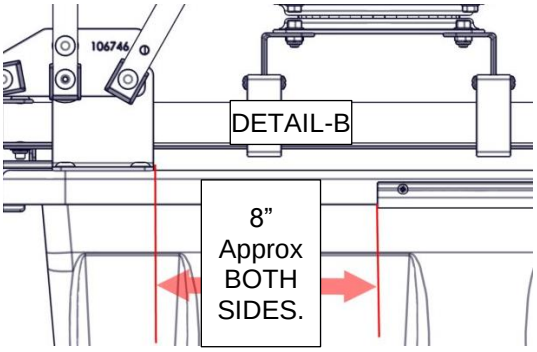
Slide Hoop Pole through sleeve in front of tent

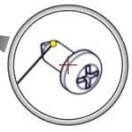


Connect Hoop to Support Pole

Soaking the U-Channel Molding #102814 in hot water will make it much more pliable and easier to wrap around shelter.

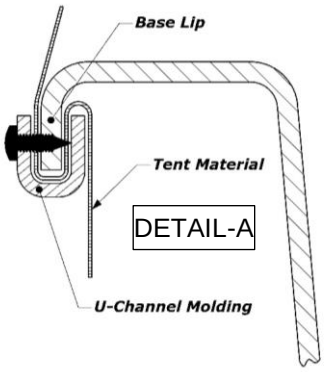






REMOVE HOOP SUPPORTS WHILE INSTALLING CHANNEL

THE FRONT HOOP POLE SHOULD TOUCH THE FLOOR WHEN THE TENT IS SET CORRECTLY WITH SOME SLACK IN THE FRONT PART OF THE TENT



C. After connecting the Velcro tent loops to the frame, pull tent material over the back of the base and temporarily attach using clamps.

D. Walk around the shelter to verify the tent is fitted to the frame properly and adjust as needed before continuing.

E. To properly set the tent, pull down on the rear corners of the tent to adjust the front hoop pole position. When set correctly, the front hoop pole should touch the floor and the tent material should have some slack. Once satisfied with how the tent is sitting, re-clamp rear corners to maintain proper position of the tent.

F. Before installing U-Channel, PN 102814, place in hot water for a minimum of two minutes or until molding is pliable.

G. Find rear midpoint of the shelter and center of U-Channel. Press the middle of the molding over tent material and base lip (see Detail “A”). Insert one #6 phillips screw into the center of the U-Channel molding. Next, press the molding in around the base and cut 8” from the rear of the pole mounting bracket (see Detail “B”).

H. Install remaining screws through U-Channel until it is fully secured to the base and is holding the tent tight to the tub.

TIPS FOR USE

Folding and transporting your Clam Ice Fishing shelter is easy:

▪Unsnap the spreader poles and lay them in the bottom of the base.

▪Push the Rapid Pole Slide push buttons and retract each hoop, starting with the rear hoop and working towards the front. Rotate all retracted hoops to the resting position. Tuck the tent into the base and between the hoops so that no material is left hanging on the ground for transport.

▪Use of a travel cover to help prolong the life of the unit is recommended (travel cover not included).

▪We recommend the optional Runner Kit be mounted to the base of your shelter
NOTE: Pulling behind an ATV or snowmobile may result in premature wear of the base.

▪In windy conditions it is advised to secure your shelter to the ice using Clam's Ice Anchor Kit (PN 108064) and Ice Anchor Installation Tool (PN 108348).

Make sure your ice shelter is completely dried out after each use. Store your shelter in a cool, dry place. Keep away from rodents.

Q: What is the proper way to set up and take down my Fish Trap?

Set-Up:

- Face the seats. Grab the floor hoop pole and pull on it until you feel and hear the RPSX collar pins engaging in the fully open position. Grab the next hoop and do the same until all the hoops are fully open. When finished, you should be inside the shelter.
- Install the roof spreaders, then front spreader, and finally the rear spreader. (Spreader count varies with shelter style/configuration – some smaller shelters use only a rear spreader).

Take-Down:

- Remove all spreaders - snug the tension knobs after compacting so they don't vibrate out during transit.
- From inside the shelter, start with the rear wall hoop. Compress both collars and retract hoop, then the same with next inward hoop, etc. Continue until all upright hoops are collapsed.
- Step out of the shelter, disengage the porch hoop collars and swing the porch hoop onto the previously retracted hoops. Make sure the tent does not catch on the mount brackets while collapsing the porch hoop.
- Go around the shelter and tuck the tent material in between the rested hoops the best you can to keep the tent material from dragging during transit – a travel cover works great to help hold everything together.

***Note: Make sure tent material is clear of the canopy brackets to minimize rubbing or possible tearing.

SAFETY INSTRUCTIONS



Please fully understand and follow all safety instructions as outlined. Failure to do so could result in severe injury or death.

▪DO NOT USE OPEN FLAME HEATERS IN YOUR ICE SHELTER. INJURY OR DEATH MAY RESULT FROM FIRE IF TENT FABRIC IS EXPOSED TO OPEN FLAME. THE TENT IS NOT FIREPROOF, BUT THE FABRIC IS TREATED WITH A FIRE RETARDANT THAT MEETS CPAI-84 SPECIFICATIONS. APPLICATION OF ANY FOREIGN SUBSTANCE MAY RENDER THE FLAME RETARDANT PROPERTIES INEFFECTIVE. TENT FABRIC WILL MELT WHEN CONTACT IS MADE WITH HOT SURFACES (I.E., HEATERS).

▪DEATH FROM ASPHYXIATION MAY RESULT FROM USE OF OXYGEN DEPLETING HEATERS. OPEN ALL VENTS FOR FRESH AIR VENTILATION.

▪NEVER LEAVE SHELTER UNATTENDED WHEN SET UP.

▪DUE TO THE INCREASE IN TRAFFIC (SNOWMOBILES, AUTOS, ETC.) ON AREA LAKES, ICE FISHING CAN BE HAZARDOUS AT NIGHT. IF YOU CHOOSE TO FISH AT NIGHT OR IN POOR VISIBILITY CONDITIONS, BE SURE TO TAKE PRECAUTIONS WITH LIGHTS OR REFLECTORS TO SHOW DRIVERS YOUR WHEREABOUTS. NIGHTTIME: EXTERIOR REFLECTORS MUST BE VISIBLE TO REDUCE RISK OF COLLISIONS.

FREQUENTLY ASK QUESTIONS

Fish Trap FAQ's

Q: Should I install a runner kit/hyfax to the base of my shelter?
A: The warranty on our shelters does not cover cracked or worn bases if a runner kit has not been installed. Additionally, bases will wear much quicker without a runner kit installed.

Q: The zipper on my shelter freezes up and/or sticks. Is there anything I can use to help prevent this from happening?
A: There are lubricants available that can work well, including various silicone sprays, ChapStick and other zipper lubricant sticks and brushes.

Q: The sliding seat poles, frame poles, or spreader poles of my shelter are sticking. Is there anything to put on these poles to help them slide better?
A: Silicone spray lubricants can help prevent poles from sticking. When poles slide against each other sometimes burrs are created. If this happens separate the affected poles and use a fine file or sandpaper to deburr the pole(s) and then apply a thin coat of lubricant before rejoining the poles.

Q: Do you have a replacement tent, base, poles, quick connects or other parts for my Fish Trap?
A: Retailers typically don't carry replacement parts, but we have replacement parts available for purchase direct at www.clamoutdoors.com. We are limited on parts for older model shelters.

Q: The poles to my Fish Trap have bent out of place. Should I try to bend them back?
A: It might be possible to bend the poles back into their proper place. If your bent pole is not creased lay it on a flat surface and bend it back into shape. Replacement poles can be ordered online from our website if needed.

Q: Should I put screws through the U-channel molding and tent of my shelter?
A: Putting screws through the U-channel will help to securely fasten the tent of your shelter to the base. This is a necessary step for proper installation and failure to do so will void the warranty.

Q: I am trying to attach the U-channel molding to my shelter, but am having difficulty getting it started, as it seems too stiff and will not stay attached to the edge of the sled. What can be done to help?
A: It is difficult to attach the U-channel in cold conditions. Assembly of the shelter should be done indoors with the U-channel warmed in a bucket of hot water for several minutes so it's more pliable.

Q: I can see pinholes of light through the fabric of my tent. Is my shelter waterproof and will my fish house leak?
A: Pinholes may be seen along seams or where the tent fabric is bonded to the thermal material on an insulated shelter. In either case, this has no effect on the function of the fabric or performance of the unit. While the fabric of the tent is water resistant it is not waterproof, so some water from rain or melting snow may come through your tent. A waterproofing spray such as Kiwi Camp Dry can be applied to the tent fabric to make the shelter more water repellent.

Q: There are cracks on the inside finish of the fabric of my shelter. Is this normal? Can anything be done to fix this?
A: It is normal for some of the dark colored coating to come off the inside of the tent, particularity on a non-thermal tent. Over time, as you set up and take down the shelter, the dark coating can begin to flake off, especially along the folds in the fabric when the shelter is collapsed. This does not affect the function of the fabric. If you feel that too much light is now entering your shelter in the places where some of the coating has come off, you may wish to apply a new layer of rubberized coating. A thin layer of Loctite Color Guard (black), found online or at home improvement stores, works well.

Q: Would it be best to completely dry out my shelter after every time it gets used?
A: It is recommended your tent be dried out completely after each use. If it is not dried out, moisture may cause some damage to the shelter. This is especially important if the shelter is being stored for a long period of time.

Q: What will help keep mice or rodents from eating the tent of my Fish Trap?
A: We recommend keeping your tent in a sealed plastic tote with laundry dryer sheets or moth balls. If the shelter is stored in a barn or shed, take the tent off and store it in a more rodent-free environment.

Q: How do I wash the tent of my ice fishing shelter?
A: We recommend using a mild bleach and water solution (1 part bleach to 10 parts water), or a mild soap detergent and water solution to help get rid of mildew and odor in your tent. Be sure to dry the tent thoroughly. We do not recommend using a washing machine to clean the tent as it may cause damage.

Q: Will using a heater help to eliminate or reduce water vapor and condensation in my shelter?
A: No. A byproduct of burning propane is water. A bigger heater will produce more water vapor. Also, the colder the temperature outside the more condensation there will be inside the unit.

Q: Are patch kits available and how do I apply them to my shelter?
A: Yes, patch kits are available for purchase on our website. When applying a patch, it works best to spray adhesive (we recommend using 3M #77 or 3M #90 spray adhesive) on to both surfaces - the part of the tent where the patch is going to be applied and the patch itself. Wait until the adhesive begins to dry and becomes tacky, then place the patch on the tent. Make sure to apply the patch evenly and smoothly since wrinkles or uneven areas will be very difficult to correct once the two surfaces with the adhesive come into contact with each other.

Q : Do you ship outside of the United States?
A:We can ship to Canada, but note that all prices on our website are listed in US dollars. Canadian orders will include the cost of the item plus shipping, taxes & duties.