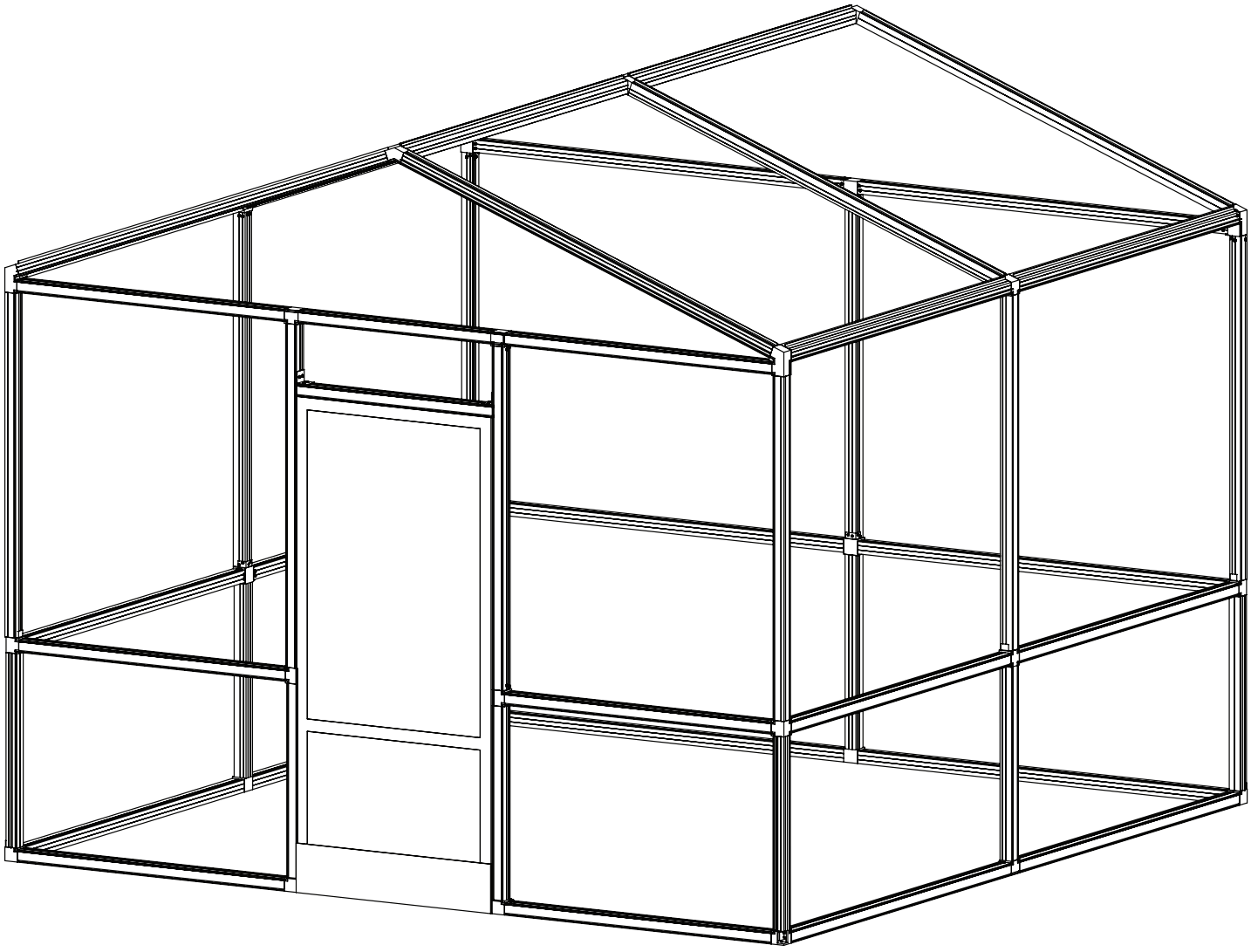
UNIVERSAL SCREEN AMERICA
26 N. Beach St. Suite C
Ormond Beach FL 32174

Assembly Instructions for
Universal Screen America Enclosure

Uniquely Engineered
Quick Release
Screen Enclosure Systems



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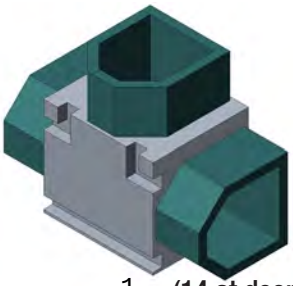
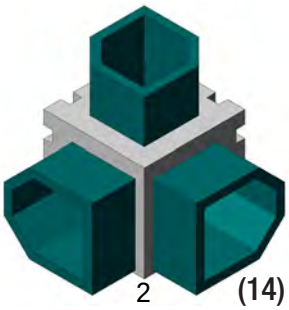
Assembly Instructions for Universal Screen America Enclosure

Fitting Part Number (qty of screws required to fasten)



1 (14 at door jam 18 otherwise)



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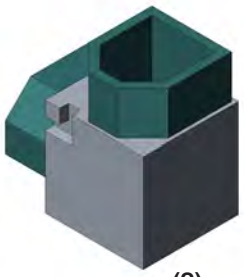
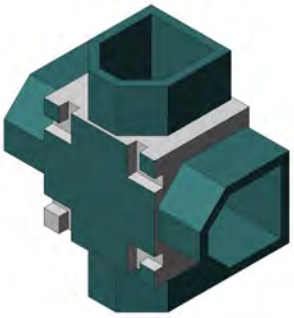


3 (8)

4 (24)



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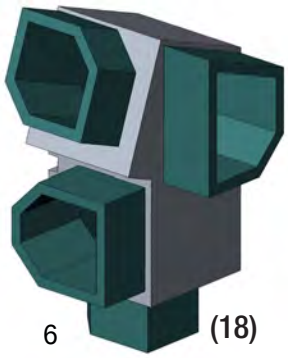

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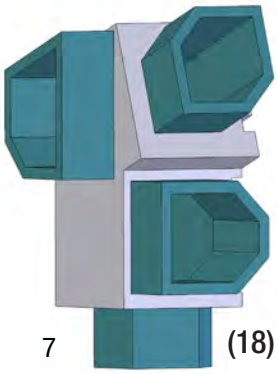

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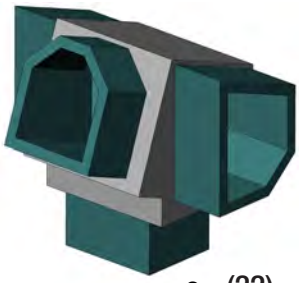

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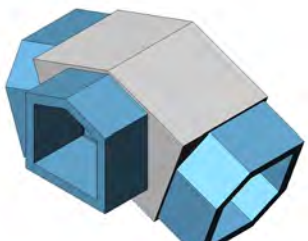


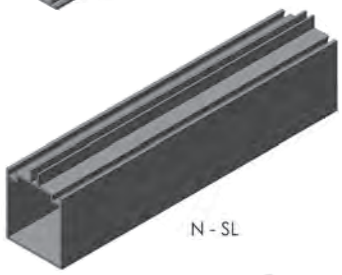
9 (14)

10 (24)

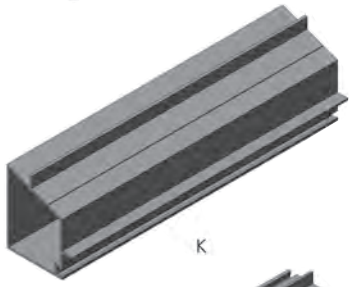
Extrusion Part Number

A-B-D-F-G-H-I-L-DD

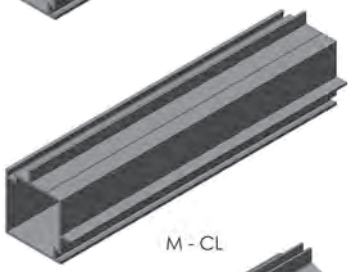
C - E



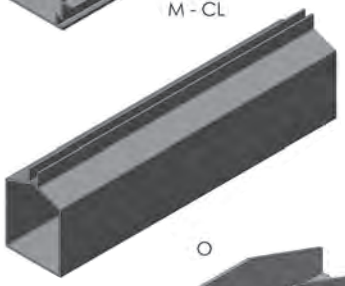
N - SL



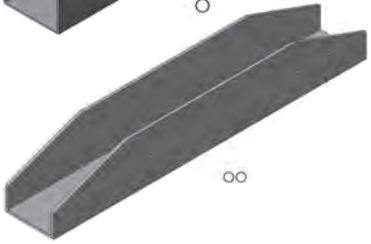
K



M - CL



O

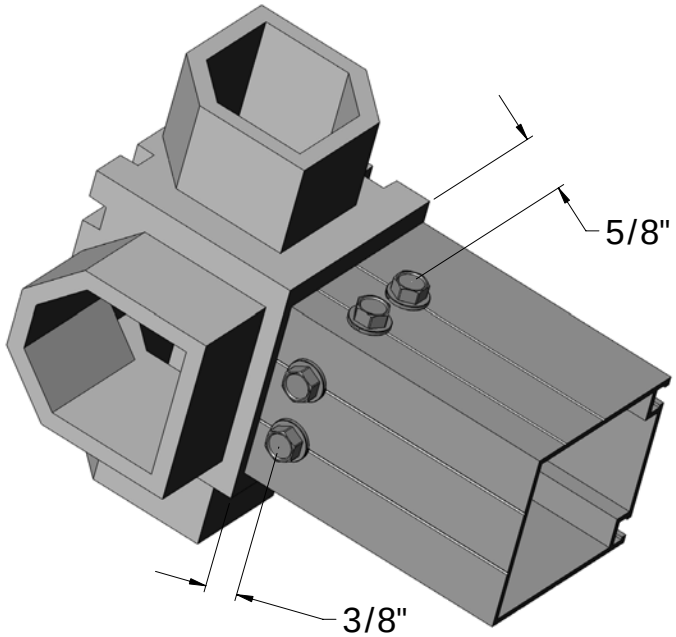


OO

General Notes:

1) All screws used on one side and opposite side (not shown) will be placed in the V-groove of the appropriate extrusion, approx. ⅜" from the fitting end, and driven through the extrusion & fitting to secure both. All screws set at 90° of first screws will be placed in the groove at approximately ⅝" from the fitting end and driven through the extrusion and fitting end to secure both.

2) Level surface is required for permanent mounting. If deck pitch is less than 1 ¾" over a 12' span, self-leveling U channel (S) is available. It may also be possible to apply shims to the fittings & extrusions of the base assembly to level this assembly. Contact Dealer for details.



Screws applied as shown & staggered on opposing sides where required. This allows for installation of screws with no interference
Fig 1

IMPORTANT: Before assembly, read the assembly manual and view DVD for safety and other information regarding this product.

CAUTION! Please comply with all safety warnings and instructions in this procedure. Changes or modifications to this product that are not expressly approved by the manufacturer will void all warranties.

Supplied Material List:
Attachment to wood deck: (40) 5" lag screws and (10) 3 1/2" lag screws
Attachment to concrete deck: (40) 5" large flange concrete screws and (10) 3 1/4" large flange concrete screws

(The following quantities provided are for both concrete or wood deck installation).
(600) #12 Self-Drilling Screws w/ 5/16" Hex Head, (18) Corner Keys, (24) QR Pins, (1) 500' Roll of Spline, (1) 36" Roll of Screen, (1) 60" Roll of Screen (1) 72" Roll of Screen, (1) Door w/ 8" Kick-plate, (2) Lift-Off Hinge (left or Right), (1) door kit (1) latch spacer, (3) ½" x ½" angle for door jam, (1) DVD assembly video, (1) Door Sweep.

Refer to packing list for extrusion and fitting identification and quantity.

Note: There will be excess screws, Corner Keys, Spline and screen when assembly is complete.

Important Information About Safety

Do Not Cut, Grind, Drill, Secure or Assemble Without The Appropriate Protective Eyewear, Gloves & Work Boots.
Two or more people are required for assembly of product. Comply with safety instructions provided with all tools.

Tools & Materials Required:

Radial Arm Saw: 3” cut radius w/ carbide tip blade
Rubber Mallet
Degree Finder
Dual Sided Post Level
Electric Drill ¼” w/ Hammer setting (Necessary when mounting to concrete floor only)
Hex Head Driver Set: Long (5” min) 5/16” and 7/16”.
Metal boring drill Bits: 1/8”, 3/16” and ¼” masonry drill bit (3/16” for concrete decks only)
Tape Measure 20’ minimum
Grease Pencil/Marker
(2) Ladder: 8’
Protective Eyewear, Gloves and Work Boots
Utility Knife
Chalk Line Snap Marker
Screw drivers flathead & Phillips
Cordless drill, 18 volt recommended
36” level, (48” level optional)
Carpenters square
Breaker bar/post hole diggers/stacks (for in the ground installation only)

Screw use is typical through the base assembly, staggered as shown in fig.1.
No screws used on the bottom or outside to assemble fittings and extrusions.

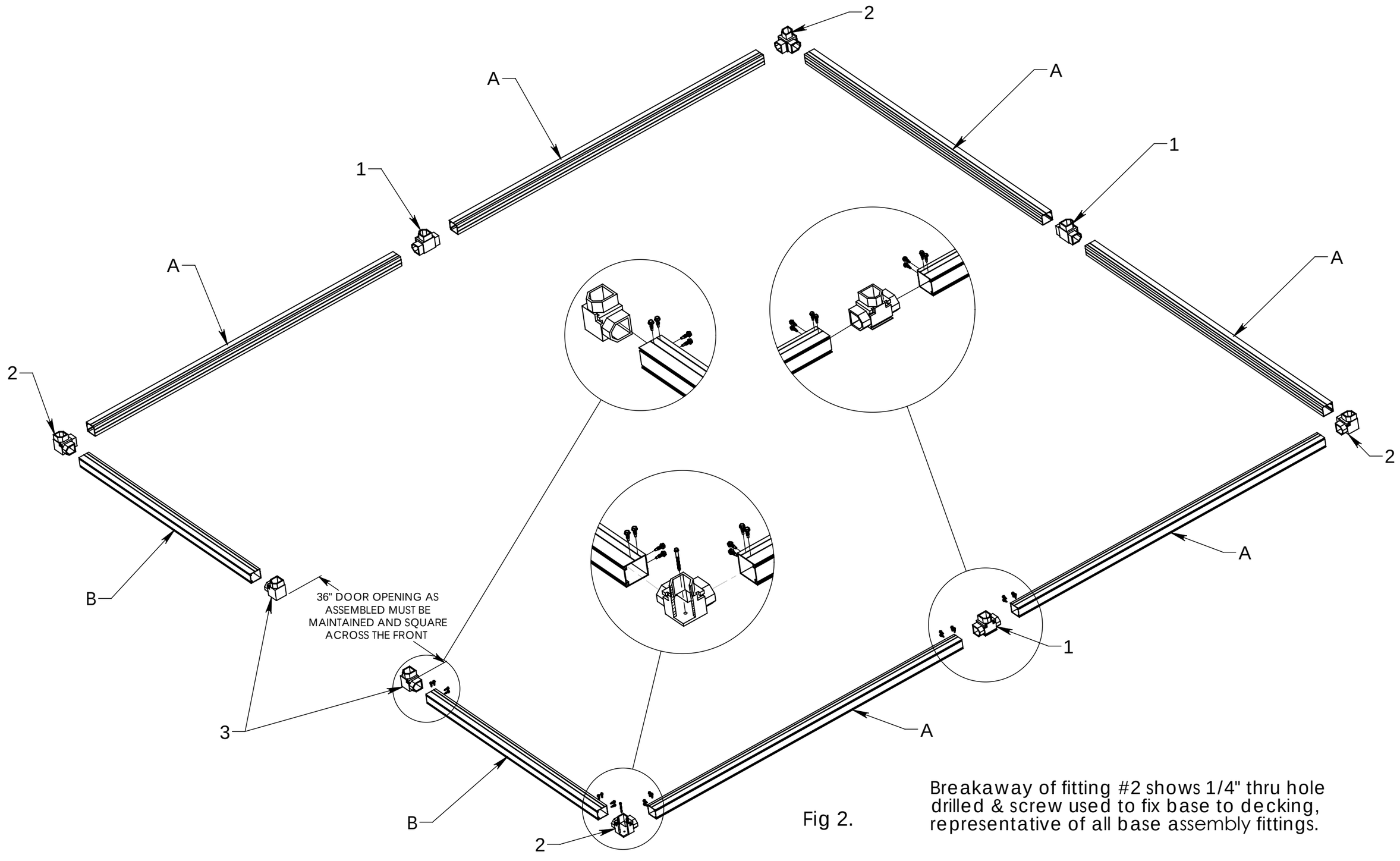


Fig 2.

Breakaway of fitting #2 shows 1/4" thru hole drilled & screw used to fix base to decking, representative of all base assembly fittings.

In ground installation.
Screw locations shown are representative of complete assembly.

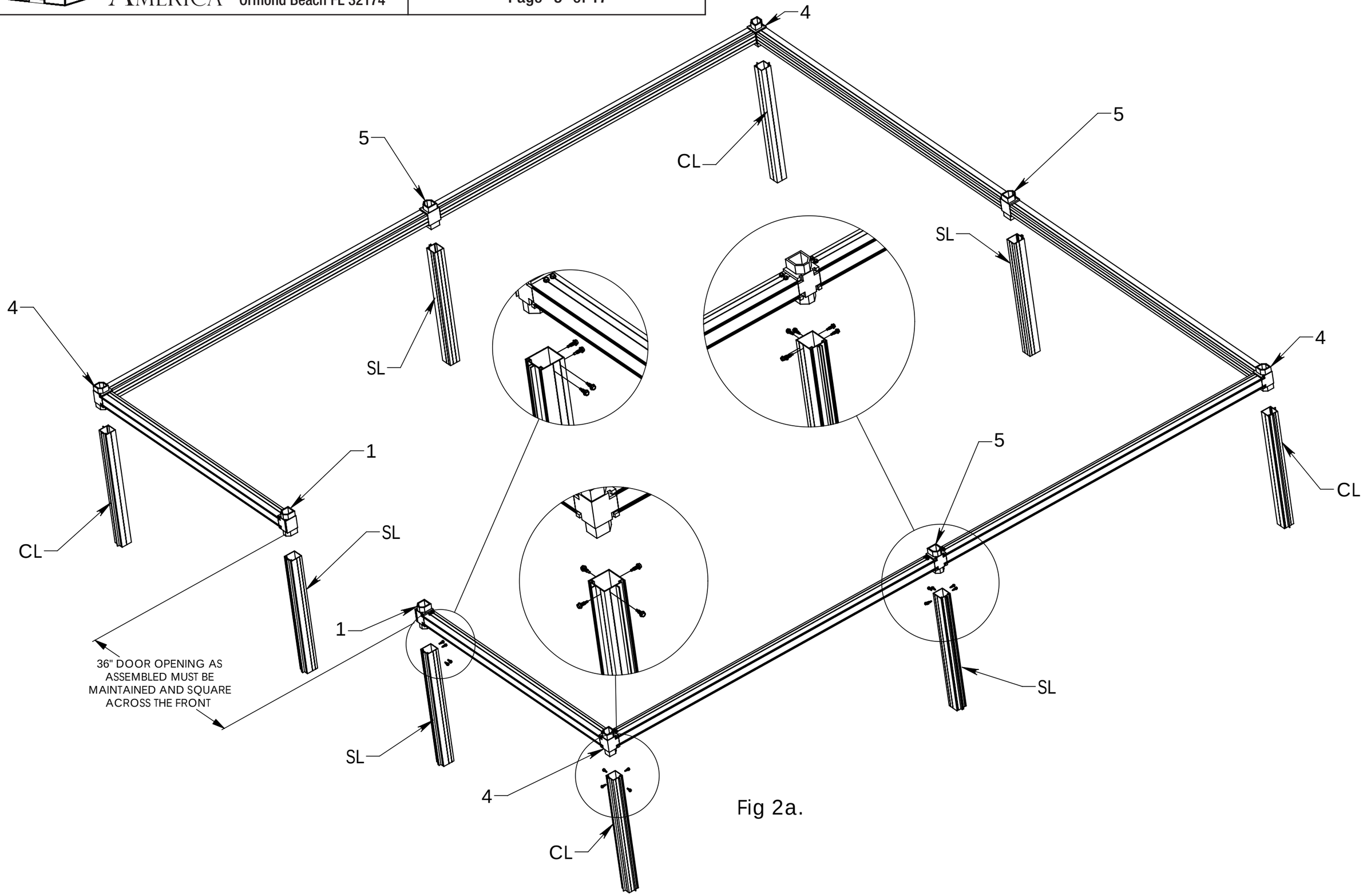


Fig 2a.

1.0 Base Assembly (*See Fig 2.)*

1.1 Install all fittings and extrusions from rear forward (Fig 2), make sure extrusions are installed securely over fittings with spline grooves facing outwards. Rubber mallet may be required to secure a tight fit between extrusion and fitting. NOTE: Fittings will not sit flush against extrusions because of tapered ends, (there is a 3 degree taper) insure the extrusions are installed square. Pre drill 1/8" diameter hole through extrusion and fitting at v-groove locations and secure each with required #12 screws staggered as shown in fig # 1. (Note:reference Page 1 for screw requirement of each fitting). Remember no screws will be installed in the v-grooves at the door jam.

1.2 Place assembled base on location. Base is now ready to attach to concrete or wood decks.

1.3 Concrete deck install for base

1.3.1 Base should be fully fastened together, level and square. Set in location

1.3.2 Measure diagonal from corner to corner. The measurement should be 203.5"

1.3.3 36" is required for the door opening, and it should be square across the front

1.3.4 On extrusion B measure 6" from each fitting and make a mark on v-groove closest to center of extrusion. Then measure 13" from each 6" mark.

1.3.5 On extrusion A measure 8" from each fitting and make a mark on v-groove closest to center of extrusion. Then measure 13" from each 8" mark.

1.3.6 Use 1/4" metal boring drill bit to pre-drill holes, prop up extrusions and fittings on wood blocks. To prevent damaging drill bit. Note: All fittings and extrusions receive ¼" pilot hole. Be sure to penetrate both sides of the extrusion.

1.3.7 Install 3/16" masonry bit in hammer drill. Drill into concrete approximately 4" deep. Install 3 1/4" large flange concrete screws into fittings. Install 5" large flange concrete screws through extrusions continue to check level and square.

1.3.8 Concrete deck should be level, if not shimming is a possibility or, Base Extrusion S may be required (not included), call dealer for details.

1.4 Wood deck attachment

1.4.1 Base should be fully fastened together, level and square. Set in location

1.4.2 Measure diagonal from corner to corner. The measurement should be 203.5"

1.4.3 36" wide is required for the door opening, and it should be square across the front

1.4.4 On extrusion B measure 6" from each fitting and make a mark on v-groove closest to center of extrusion. Then measure 13" from each 6" mark.

1.4.5 On extrusion A measure 8" from each fitting and make a mark on v-groove closest to center of extrusion. Then measure 13" from each 8" mark.

1.4.6 Use 1/4" metal boring drill bit to pre-drill holes on marks and in center of base fittings. Do not penetrate too far into wood deck. Note: All fittings and extrusions receive ¼" pilot hole.

1.4.7 continue to check level and square

1.4.8 Using 3.1/2" lags, screw fittings to deck Use 5" lag to secure base extrusions to deck

1.4.9 If wood deck is not level, one option is to shim the base or, Base Extrusion S may be required (not included), call factory or dealer for details.

1.5 In ground installation (see fig 2a) (Please review instructional DVD)

1.5.1 Lay out extrusions A&B. A for sides, B for door opening. Lay out fittings #4&#5, and #1 for in ground installation only. #4('s) for each corner, #5('s) for each side, and #1('s) for door opening.

1.5.2 Insert fitting #1 into extrusion B. Make sure spline channel is facing outwards and fitting can accept other extrusion from the bottom.

1.5.3 Insert fitting #4 into extrusion A.

1.5.4 Insert fitting #5 into extrusion A. When completed, base extrusion should be about 1' off the ground.

1.5.5 Level and square extrusions and fittings, then mark connections 3/8" and 5/8" for screw placement (Fig # 1). Using 1/8" drill bit, pre-drill hole for self-drilling screw. Drill one hole at a time then install screw. Be sure fitting is square and level. Drill remaining marks, and install screws for fittings and extrusions.

1.5.6 Repeat procedure for remaining connections.

1.5.7 Base is now fully assembled, and all connections are marked, drilled and screwed. Lay out base legs, CL for corner legs and SL for side wall legs. Install CL extrusions on fitting(s) #4 and SL extrusions on fitting(s) #1('s) & 5('s). Make marks in v-grooves for screw placement. Remember to stagger 3/8 & 5/8" in order not to interfere with other screws (Fig # 1) Drill and screw all sides.

1.5.8 Once all legs are secure, install screws on the bottom side of extrusions A&B.

1.5.9 Now that the base is completed, set the base frame in yard location. Check that the door opening is 36" wide and pound stakes in the ground next to each leg.

1.5.10 Remove base from area. Dig holes approximately 24"s deep at staked locations.

1.5.11 Place base back in original location inserting legs in freshly dug holes.

1.5.12 Measure 203.5" from each diagonal corner to make sure base is square.

1.5.13 Check that the door opening is 36" wide, level and square.

1.5.14 Level base using stakes or blocks of wood as spacers.

1.5.15 Once base is level & square, pour about 60 lbs. of concrete into each hole. Use a breaker bar to dry pack concrete tightly. Leave about 3" of space from concrete to ground level. This will enable you to fill in with dirt so grass will grow back. Continue checking level and square. Repeat for all holes.

1.5.16 Add water to holes, allowing 24-36 hours to cure depending on concrete type. Fill in holes with remaining dirt .

1.5.17 Gaps can be filled under base with excess dirt, pavers, patio stones, or similar building materials.

1.6 Self-leveling u-channel for concrete or wood decks (Please review instructional DVD)

(Note: U-channel will not work if slope is greater than 1 ¾")

1.6.1 You may need to cut U-channel to fit base.

1.6.2 Set U-channel on location. Measure 3" from each end and make mark on the center line. Starting at the 3" mark, measure and mark every 12"

1.6.3 Using ¼" metal boring drill bit, drill holes in u-channel not to penetrate too far into wood deck. Note: If installing on concrete surface, place a piece of wood under extrusion or fitting so drill bit will not dull against the concrete. Screw 3 1/2" lags through u-channel into wood deck. If installing on concrete, pre-drill holes using 3/16" masonry bit, and drill approximately 4" into concrete deck. Then install 3 1/4" large flange concrete screws.

1.6.4 Once fastened to deck, insert the unattached base into the U-channel. On the top side of the extrusion, mark, drill and screw extrusions to the fittings. (Note: If base is already assembled, base screws may need to be removed to fit in U-channel).

1.6.5 Level the base in the U-channel and hold in place. Using self-drilling screws, drill through U-channel into extrusion to secure in place.

1.6.6 Screws should be about 12" apart. Make sure 2 screws are installed at each fitting, pre drilling will be required.

1.6.7 Repeat this process on both sides of base extrusion in U-channel.

Screw use is typical through the chair rail assembly, staggered as shown in fig. 1.

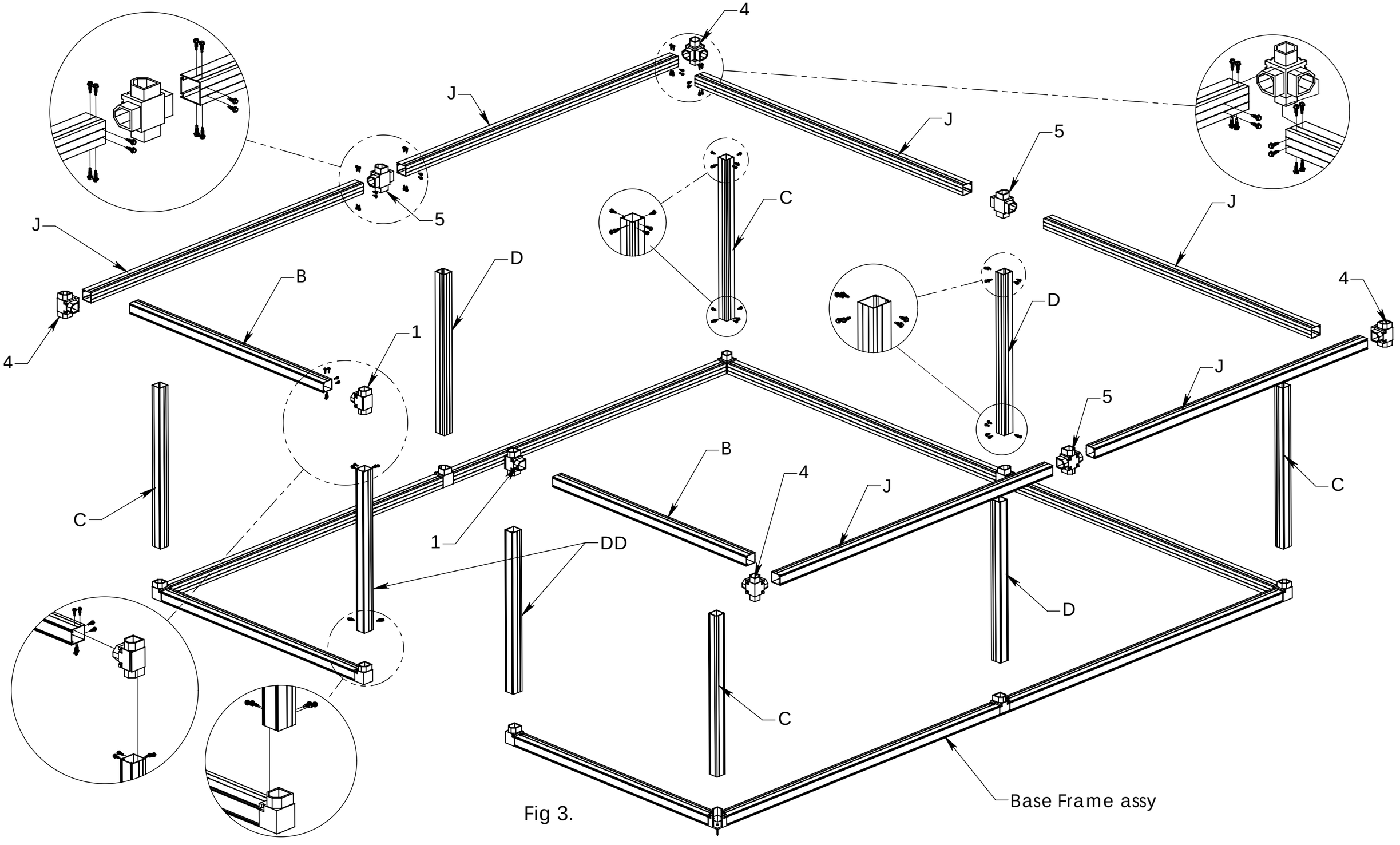


Fig 3.

2.0 Chair Rail Assembly (See fig 3)

2.1 Lay out extrusions C, D & DD. Ensure all spline grooves are facing outwards.

2.2 Chair Rail Assembly installation

2.2.1 Concrete or wood deck installation: The C extrusions go into the corner fittings #2. The D extrusions go into the side of fittings #1. The DD extrusions go into fittings #3 at the doorway.

2.2.2 In ground installation: The C extrusions go into the corner fittings #4. The D extrusions go into the side of fittings #5. The DD extrusions go into fittings #1 at the doorway.

2.3 Now level extrusions with dual sided post level and make marks in v-grooves for screw placement. Marks should be 3/8" on one side, and 5/8" on the other (Fig # 1).

2.4 Pre-drill and install one screw at a time. Continue checking extrusion is plum. Proceed to drill and install remaining screws in each fitting. Repeat process for remaining extrusions and fittings.

2.5 Do not install screws in the door jam.

2.6 Lay out fittings #1, #4, & #5. Fitting(s) #1 inserts into DD('s). Fitting(s) #4 inserts into C('s). Fitting(s) #5 inserts into D('s).

2.6 Layout extrusions B and J. Install extrusion(s) B into fitting(s) #1. Install extrusion(s) J into fitting(s) #4. Install extrusions J into fitting #5

2.7 Check level and plum.

2.8 Mark for screw locations. Make sure screws are staggered, not to interfere with each other.

2.9 Pre-drill and install self-drilling screws.

2.10 Check level and square.

2.11 Ensure doorway is level and plum, maintaining 36" opening.

Screw use is typical through the top rail assembly, (except extrusion K) staggered as shown in fig.1.

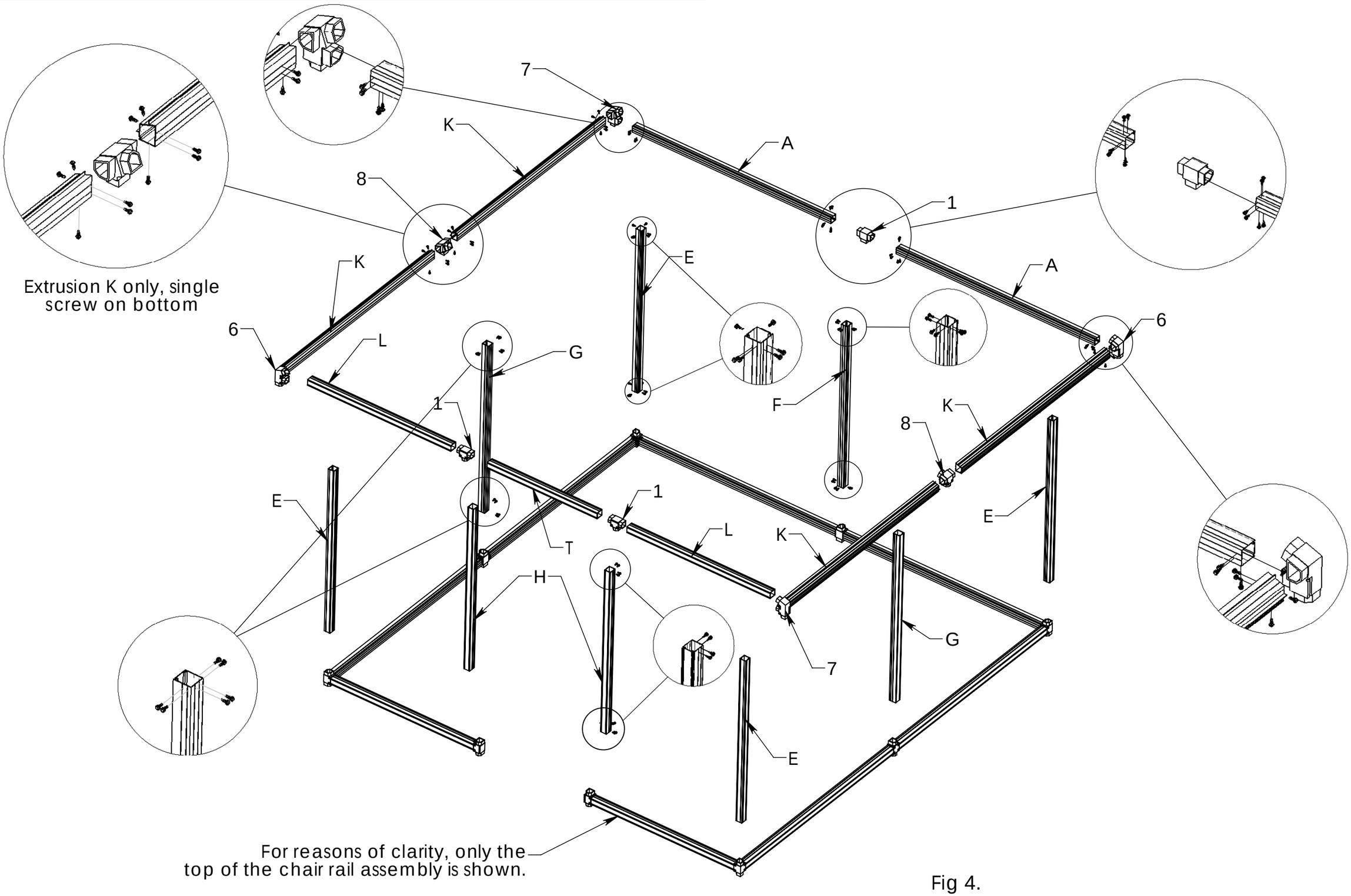


Fig 4.

3.0 Chair Rail Assembly (See fig 4)

3.1 Lay out extrusions H, E, G & F. Install extrusion(s) H into fitting(s) #1 at doorway Install extrusion(s) E into fitting(s) #4 at corners. Install extrusion(s) G on each sidewall on fitting(s) #5. Install extrusion F on back wall, on fitting #5

3.2 Level extrusions with dual sided post level and make marks in v-grooves for screw placement. Marks should be 3/8" on one side, and 5/8" on the other.

3.3 Pre-drill and install one screw at a time. Continue checking that extrusion is plum. Proceed to drill and install remaining screws.

3.4 Repeat process for remaining extrusions and fittings.

3.5 Lay out fittings #1, #6, #7, and #8. (Note: fitting #6 is left handed orientation, and fitting #7 is right handed orientation).

3.6 Insert fittings at top of wall. Insert fitting(s) #1 into extrusion H. Insert fitting(s) #6 or #7 into extrusion E, depending upon their location. Insert fitting #8 into extrusion(s) G, Insert fitting #1.into extrusion F.

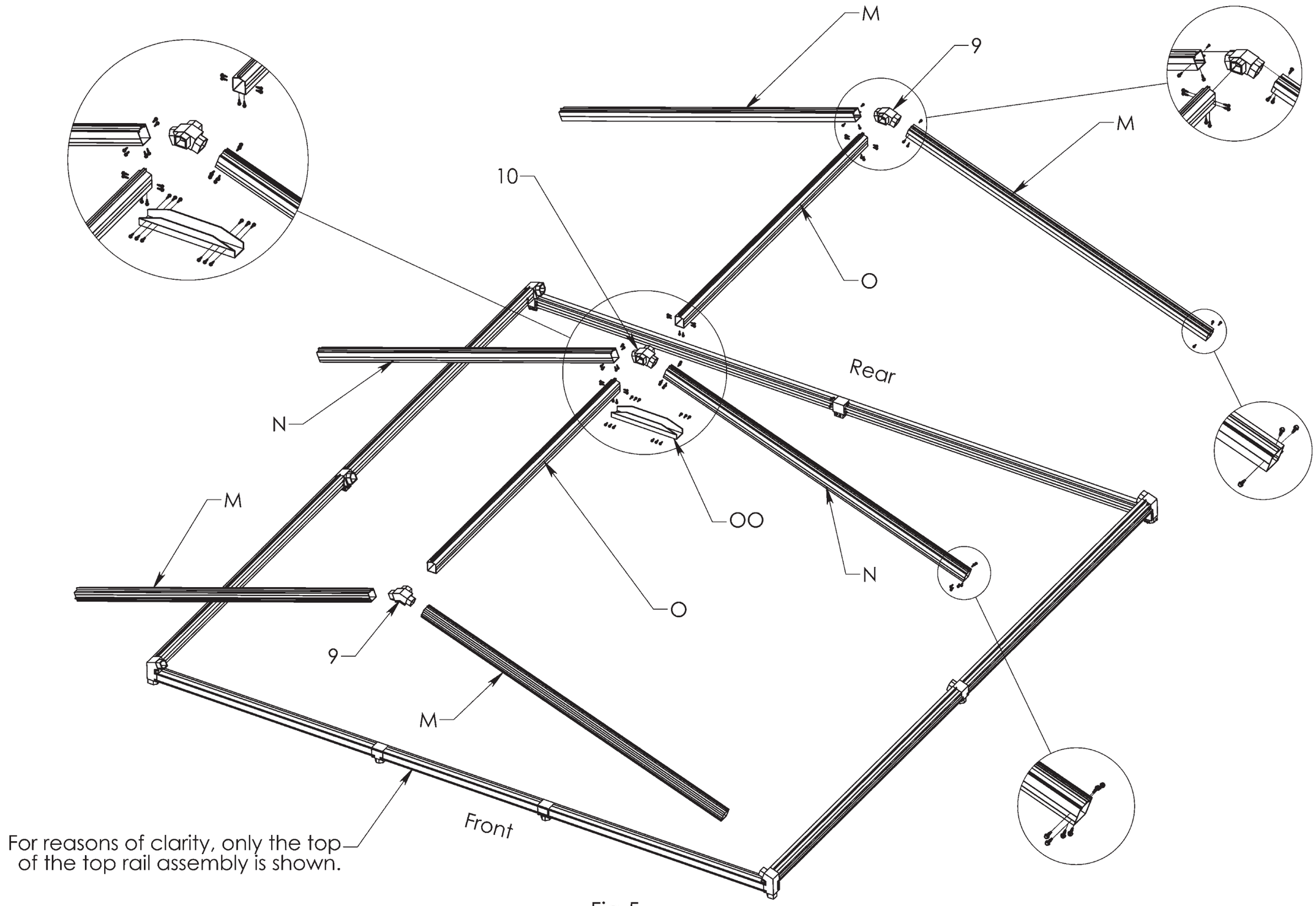
3.7 Layout extrusions T, L , A, & K. Insert extrusions into top of wall fittings. Insert extrusion T into fitting #1 at doorway. Insert extrusion(s) L into fittings #1 on each side of doorway. Insert extrusion(s) K into fitting(s) #8 on sidewalls. Insert extrusion(s) A into fitting #1 at back wall.

3.8 level extrusions with dual sided post level and make marks in v-grooves for screw placement. Marks should be 3/8" on one side, and 5/8" on the other.

3.9 Pre-drill and install one screw at a time. Continue checking extrusions are plum. Proceed to drill and install remaining screws.

3.10 Repeat process for remaining extrusions and fittings. (Note: Do not install screws in door jam or at top of extrusions L and A at fittings #6 & #7).

Screw use is typical through the roof beam assembly, (except extrusion O) staggered as shown in fig.1. (Rear rail not shown for clarity).



For reasons of clarity, only the top of the top rail assembly is shown.

Fig 5.

4.0 Final Assembly with Roof Beam (See fig 6)

4.1 Some of the roof assembly can be pre fabricated on the ground before installing

4.2 layout extrusions M & N, and fittings #9 and #10. The roof construction consists of 3 sets of roof beams. Extrusions M, and fittings #9 are for the front and back walls of the roof. Assembly of extrusions N and fitting #10 is the center beam of the roof.

4.3 Insert fitting(s) #9 into extrusion(s) M. Ensure spline groove is facing outward. Make marks, drill and install one screw on each side of the fitting. (Note: no more screws will be installed at this time).

4.4 Insert fitting #10 into extrusion(s) N. Make marks, drill and install one screw on each side of the fitting. (Note: no more screws will be installed at this time).

4.5 Install front roof beams in fittings # 6&7. Install one screw at each fitting. No screws required on bottom of extrusion(s) M at fittings 6 &7.

4.6 Install middle roof beam into fitting(s) # 8 .Install one screw at each fitting.

4.7 Install back roof beam into fittings #6 & 7. Install one screw at each fitting. No screws required on bottom of extrusion M at fittings 6 &7.

4.8 Check roof beam degree with degree finder. Note: This should range from 18-20 degrees. All roof beams should match.

4.9 Install extrusion(s) O into fitting(s) #9 and #10. Set level on extrusion O, ensure it is level before installing screws in fitting #10.

4.10 Check level and degree again. Now install remaining screws for fitting #10.

4.11 Set collar tie 00 under fitting #10 and on extrusions N. Use degree finder on collar tie to find level at zero degrees. Install 6 self-drilling screws on each side of the collar tie, for a total of 12 screws.

4.12 Go back and install screws in all roof connections in proper locations. Make sure same degree is maintained, and extrusion O is level.

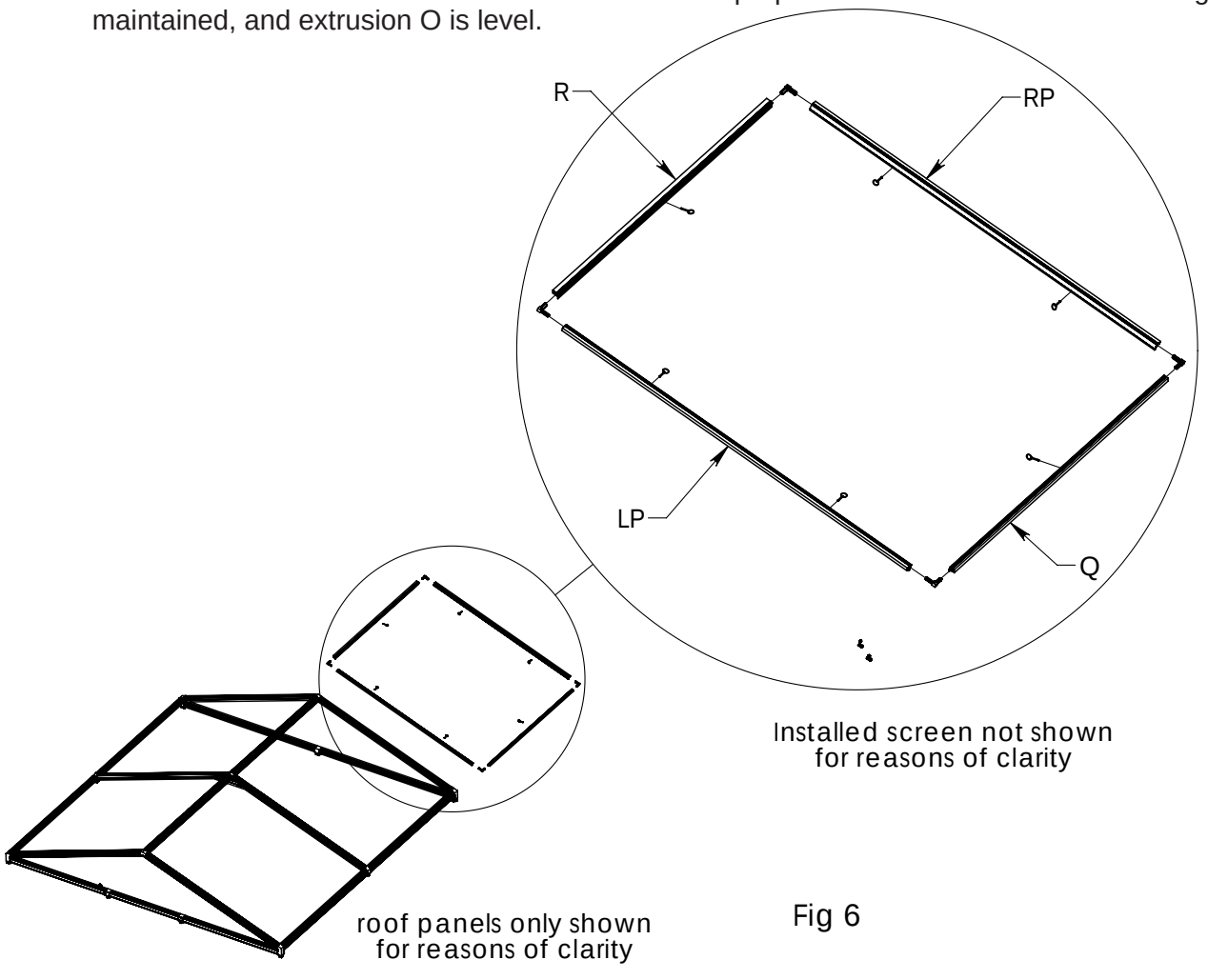


Fig 6

5.0 Quick Release Roof Panel Installation (see fig 6). Please review instructional DVD.

5.1 Set extrusion LP on left side of roof panel with degree cut end at peak of roof.

5.2 Mark extrusion LP at roof line where extrusion LP would be flush. Now take off ¼" from your original mark this will be the mark you will cut.

5.3 Cut LP

5.4 Place extrusion LP back in roof. It should be able to slide freely back and forth.

5.5 Repeat same measuring and cutting procedure for extrusion RP and check in place. While LP & RP are still in place, measure the distance between the 2 extrusions at the top and bottom. (Note: these measurements will vary about ½").

5.6 Use the top measurement to cut extrusion R at top of roof panel. The bottom measurement will be used for cutting extrusion Q, at the bottom of the roof panel.

5.7 Set extrusions Q and R in place with LP & RP in the roof to check for proper fit.

5.8 Remove pieces and assemble on the ground.

5.9 Place roof corner keys in extrusion Q. Gently use rubber mallet to insert. Attach extrusion Q with corner keys into extrusions LP & RP.

5.10 Insert corner keys at other end of extrusions LP & RP.

5.11 Install extrusion R in-between extrusions LP & RP.

5.12 Set roof panel in place, making sure it fits. Note: More cutting may need to be done to adjust proper fit. Panel should interlock with extrusion ribs on the roof.

5.13 The 3 remaining roof panels should be measured, cut, fitted and assembled in the same manner. (Note: measurements may differ between each panel). Each panel must be measured individually. If roof panels on opposite sides of the peak tend to push one another up, adjusting the length of LP and RP is required.

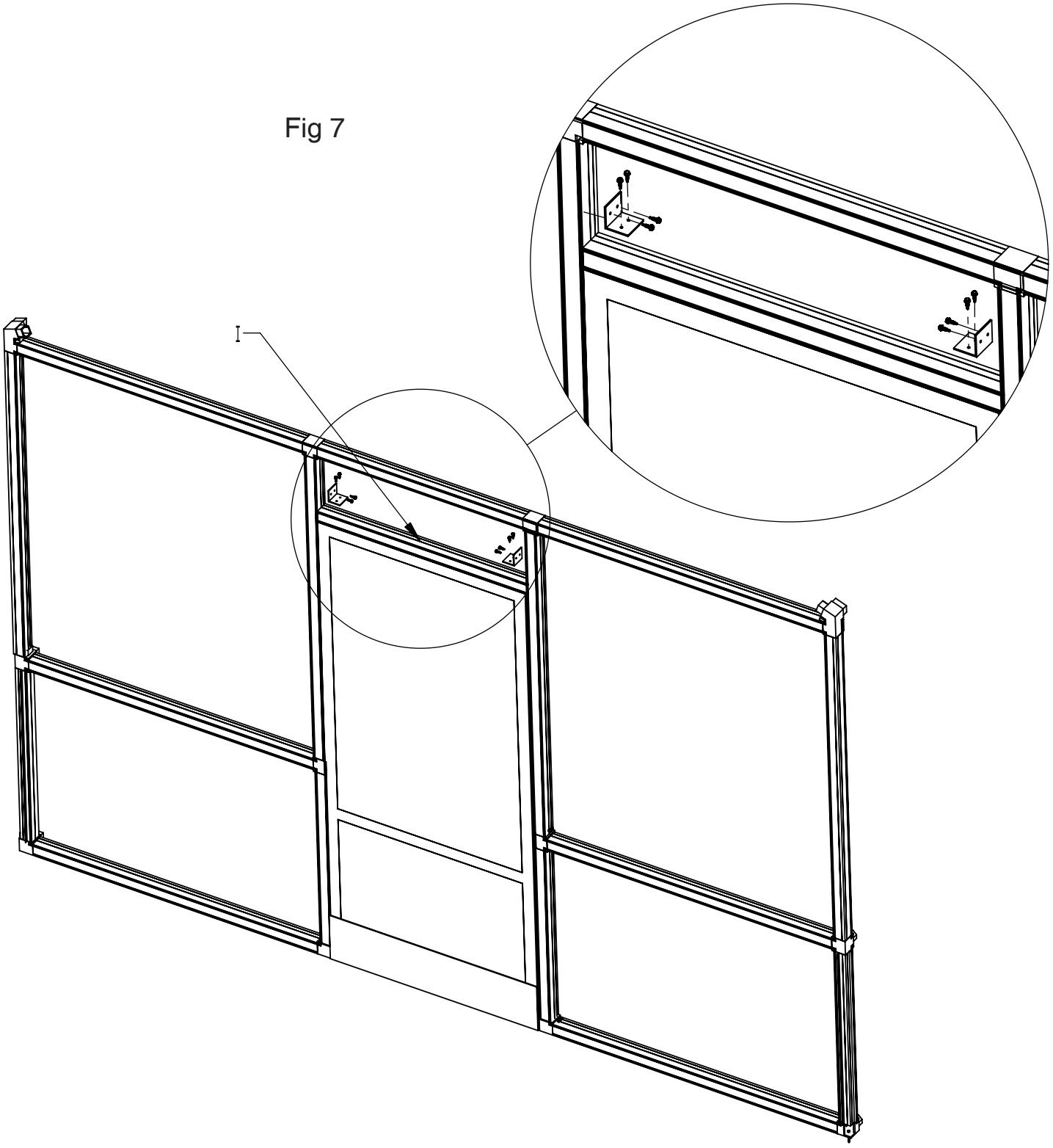
5.14 To install grenade pins, measure 18" from top and measure 18" from bottom of LP & RP. Mark in v-groove. Using 3/16" metal boring drill bit, drill at marks. Be sure to drill holes at a downward angle. (Note: This will keep pins in a more secure position).

5.15 Find the center of extrusions R and Q and place a mark on flat part of extrusion. Again, drill at a downward angle.

5.16 Use the same procedure to install grenade pins for remaining panels.

5.17 Before removing quick release roof panels for the season or harsh weather conditions, be sure they are ***properly marked*** to return to the same location. ***(Note: Each roof panel must be placed back in its original location for proper fit.)***

Fig 7



6.0 Door Installation (See fig 7) (MUST WATCH DVD FOR CLARIFICATION)

6.1 Determine which way door will open (inside or out). Check building code requirements and install door jamb extrusion accordingly.

6.2 Depending on hinge set, door may open right or left. Measure 12" from top and bottom of door and mark.

6.3 Attach hinges on proper side of door at marked locations, hinge plate will be flush with door. Set other half of hinge in place, then set door in opening approximately ¾" from ground, and 3/8" gap on both sides of the door and Install screws.

6.4 Check the door swings freely open without interference

6.5 Install door header, extrusion I, 3/8" from top of door

6.6 Install door jam on inside of door Depending on the swing. Hold door jam next to opening and mark. Cut to fit.

6.7 Using self tapping screws, install door jam flush to door making sure door is flush to the outside.

6.8 On inside of door measure from the bottom to 56" for door latch spacer. (Note: Check latch height requirement with local building codes when enclosure is used to enclose water).

6.9 Install latch spacer on door frame with screws provided.

6.10 Install door latch on spacer.

6.11 Hold door handle in place on the door to make sure handle will latch shut properly. Mark placement for screw holes. Pre-drill marks with 1/8" metal boring drill bit.

6.12 Mark the center between the 2 holes. Using ¼" metal boring bit, drill out predrilled holes and center mark, making sure to penetrate through both sides of the door. Install door handle in holes drilled. Use door kit directions for assembly.

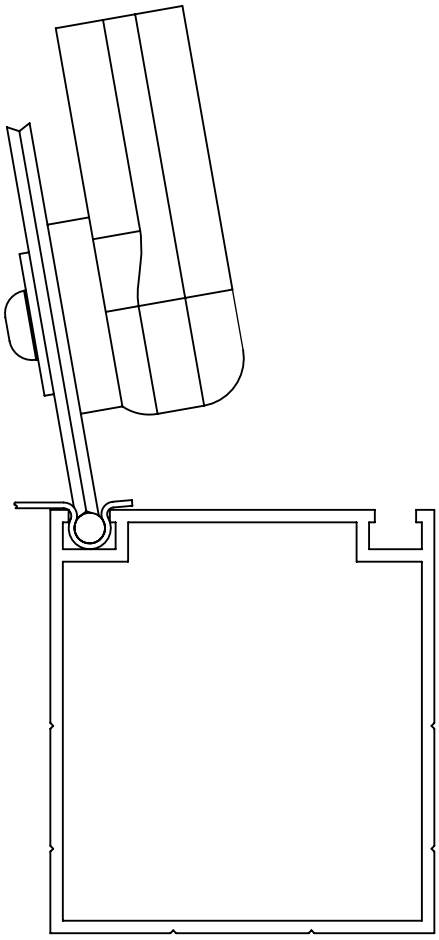
6.13 Install screw in bottom of door handle, predrilled with 1/8" drill bit. Do not penetrate through other side of door. Use screwdriver to install screw.

6.14 Line up door pump on middle of door and screw to door frame. With the door in the closed position, screw door pump to the door.

6.15 Check door to make sure it opens and shuts. The adjustment screw on door pump may need to be adjusted for proper door closing.

6.16 Install door sweep flush with ground on outside of door using self drilling screws

7.0 Screening the Enclosure



7.1 36” screen is provided for screening panels below the chair rail and upper triangular wall panels. 60” screen is provided to screen panels above the chair rail to top of roof line. 72” screen is provided to screen roof panels. Approx 500 ft of spline is provided as well as a screening tool.

7.2 Use 36” screen for panels below chair rail.

7.3 Measure and cut screen panel for location. (Note: From spline groove to spline groove, add one inch on each side for your cut measurement).

7.4 Place cut panel of screen in location allowing one inch of overhang. Using spline tool, insert spline into groove with screen behind it.

7.5 Insert spline below fitting groove, minimum of 1-2”. Now roll spline and screen in groove down until reaching bottom fitting and cut spline. Check that excess screen is close to even in length. Insert spline back at top of fitting, and roll across the top, keeping the screen even.

7.6 Come down other side, go around the fitting, pulling tight against the screen. Continue screening until you reach the bottom. Cut the spline. Start at the other end, pulling tight across the bottom. Now panel is screened, trim excess screen with utility knife. Continue this procedure for remaining panels below chair rail.

7.7 Use 60” screen for wall panels above chair rail to roof line. Measure opening and cut screen. Remember to add one inch extra on each side.

7.8 Insert spline into groove and screen downwards, cut spline. Now screen across the top of the panel, down the side, cut spline. Go back to the other end and screen across the bottom. Continue pulling excess screen tight. Trim excess screen.

7.9 Measure for triangle panel at roof line. Use 36” screen, be sure to add 12” to your measurement. Set middle of screen at roof peek, hold square and insert spline on either side of fitting. Now that the screen is tacked in place, start at bottom corner and roll in a straight line across the bottom to other end. Maintain even overhang of excess screen. Go back to roof peak, and roll down one end of the triangle pulling screen at an upward angle. Repeat on other side of triangle panel. If a bubble occurs, pull the spline out of the groove, pull the screen tight and re-insert spline.

7.10 72” screen is for roof panels.

7.11 Measure and cut screen panel for the roof. Place screen in proper orientation. Start on left or right side, and screen to bottom of panel. Now screen across the top of panel and continue down the other side, pulling tight as you go. Now screen across the bottom pulling tight. ***Roof panels must be completely installed and screened in place.***

7.12 Repeat this process for remaining roof panels. Note: when screening last roof panel, you will need to trim excess screen as you go. If you do not follow this procedure, you will need to remove the roof panel and set on ground to trim excess screen.