

SPA UNIT INSTALLATION

Drilled Under Track Installation Instructions

TOOLS NEEDED

- | | | | |
|---|----------------------------|------------------------------|---|
| 1. Cordless drill | 2. 12" Torpedo level | 3. Flat shovel | 4. Wrenches/sockets: 7/16", 1/2", 9/16" |
| 5. Hammerdrill | 6. 1/2" Round bastard file | 7. Box knife | 8. Phillips & Flat-head screwdriver |
| 9. Wire strippers with cutters | 10. Scissors | 11. Rubber mallet | 12. Saw (with aluminum blade) |
| 13. Extension cords | 14. Hammer | 15. 25' & 100' tape measures | 16. Hacksaw w/18 tooth blade |
| 17. Drill bits: 1/4", 5/32", 11/64", #2 & #3 Phillips, 1/4" x 4" & 6" masonry bit, 1/2" x 4" & 6" masonry bit, 5/16" nut driver, 7/16" socket driver, countersink | | | |

STEP 1: INSTALLING THE SPA SYSTEM

INSTRUCTIONS

Step 1.1 Attach the main tube to the mechanism end and opposite end castings with (4) 5/16"-18 x 0.75" bolts and lock washers, located in kit KA-0183 using a 1/2" wrench.

Step 1.2 Starting at the mechanism end, secure the mounting brackets to the recessed housing using the appropriate hardware.

- Wood housing use lag bolts for (in kit KA-0045)
- Concrete housing use screws/red anchors (in kit KA-0044)

Repeat the process on the opposite side.

Step 1.3 Set the unit into the recessed housing and align the center mark of the tube to the mark made on the front of the recessed housing.

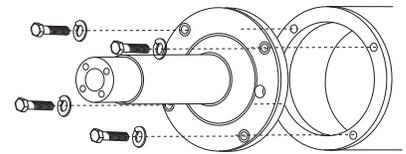
Step 1.4 Measure the distance between the two tracks and find the halfway point and mark it on the front of the recessed housing.

HINT: Usually the top of the mechanism brackets is level with the bottom of the track retainer. Use the rope angle to dictate how high to mount the mechanism and opposite end. The rope should come straight out of the track into the pulley assembly, while maintaining a slight downward angle. *This does not apply if using an APC, Inc. polymer box.*

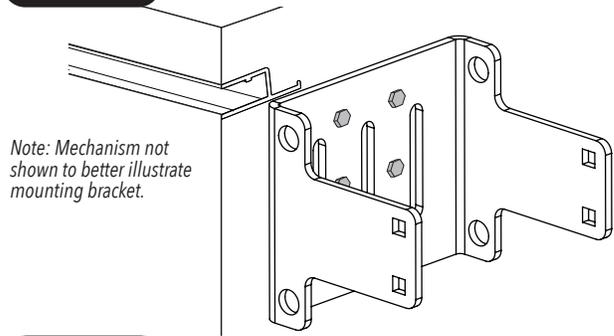
Step 1.5 Once the system is secured, make sure the unit is leveled and centered from front to back and left to right. Tighten all of the hardware on the mechanism with a 1/2" wrench. *If system is mounted in an APC, Inc. polymer box, make sure to secure all of the 3/8"-16 mounting bolts with a 9/16" socket and ratchet.*

Step 1.6 On wood and concrete box, and reusable form coping box, install two eyelets found in kit KA-0183 on the backside of the recessed housing at least 4' from each end of the track. Make sure the eyelets are in-line with the pulleys on the mechanism end and opposite end mounting brackets.

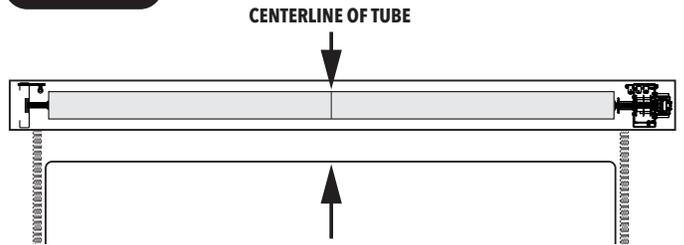
Step 1.1



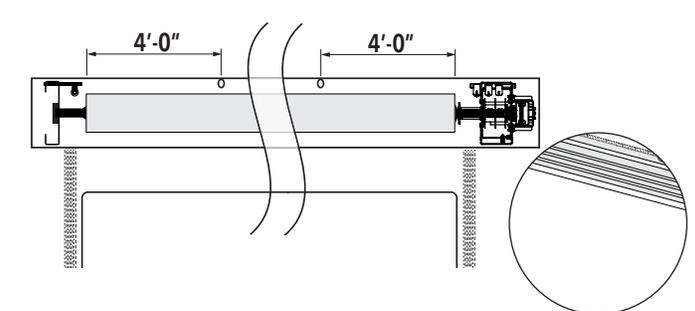
Step 1.2



Step 1.4



Step 1.6



STEP 2: INSTALLING TRACK INTO RETAINER

INSTRUCTIONS

Step 2.1 Lay the tracks parallel to the pool on top of the coping down both sides with the pulley housings, found in kit KA-0155 (for standard track), or in kit KA-0342 (for 3 channel track), at the opposite end from the recessed housing. Take a piece of track with the pulley housing attached and line it up with the pulley spacers, found in kit KA-0155 (for standard track), or in kit KA-0342 (for 3 channel track), at the end of the retainer (there is a left and right pulley spacer so make sure you install them into the retainer correctly). Take the next piece of track on the same side and butt it up against the previous track. Insert the correct pulley spacer into the retainer as far back as it can go.

Step 2.2 Once track is laid out on the deck correctly, allow 7/8" of track to hang into the housing and make a mark to cut with a hacksaw or circular saw.

HINT: Do not cut the track where the splices meet. It is best to keep the manufactured cuts at the splice.

Step 2.3 File and countersink all ends of the track for both sides to make sure there are no sharp edges to rub on the rope or webbing.

Step 2.4 Insert the track splice, located in kit KA-0155 (for standard track) or insert splice and locating pins in kit KA-0342 (for 3 channel track), and secure tracks together.

HINT: For strongest connection, offset the track splice and the corresponding retainer splice approximately 3".

Step 2.5 Lay cover to the left side of the system and carefully remove the wrap. To unroll cover properly, be sure label is facing the pool water.

NOTE: Make sure the matte side (smooth side) of the cover is facing upward showing the warning label.

Step 2.6 Carefully unwind the ropes making sure they do not get tangled.

IMPORTANT: DO NOT CUT ROPES AT THIS TIME.

Step 2.7 With a 3' leader, snap the rope into the front channel (large) of the track and pull the rope down to the end pulley. Feed the rope around the end pulley, down the back channel of the track, while maintaining a 3' leader. Repeat for the other side.

HINT: Insert the guide in kit KA-0115 (standard track), or in kit KA-0342 (3 channel track), to help keep the rope in the track channel.

Step 2.8 Carefully place the track into the retainer, making sure the track and splice stay in place. Push the track all the way against the pulley spacer.

HINT: Tie the rope in a knot at the end of the track to keep the tracks from coming apart.

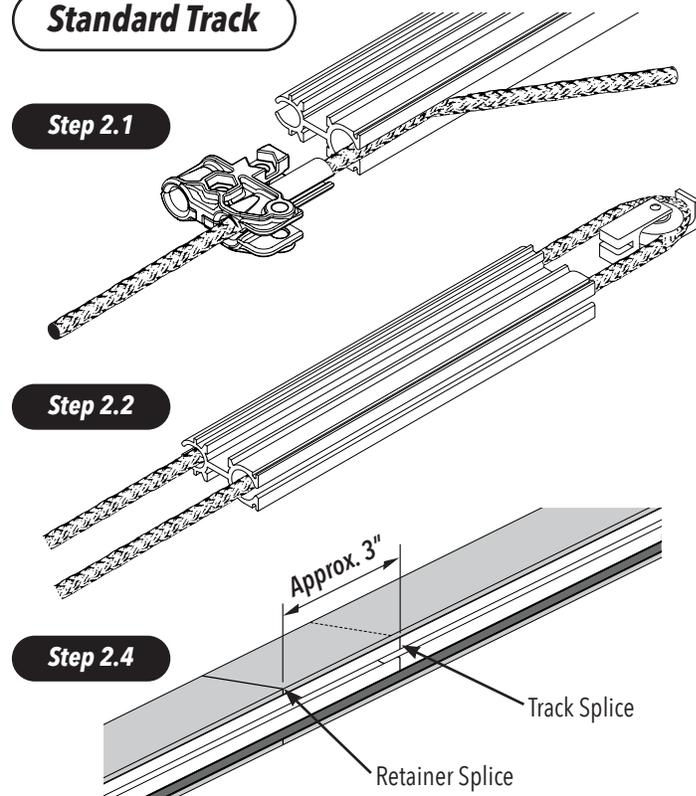
Step 2.9 Starting at the pulley end of the track, insert the wedges under the track. Use a rubber mallet to ensure the wedge is fully seated. Trim the last piece to fit at the guide end of the track.

Standard Track

Step 2.1

Step 2.2

Step 2.4

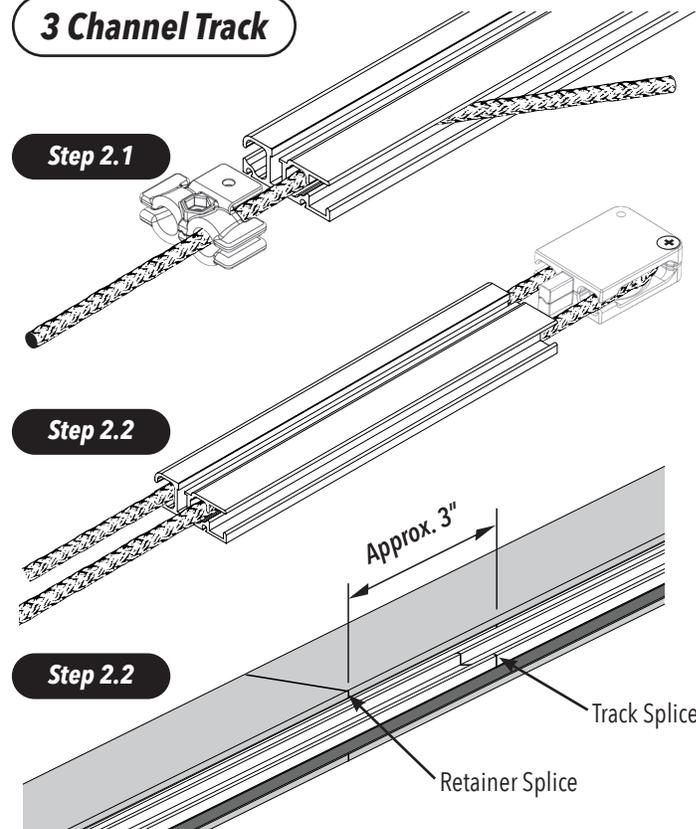


3 Channel Track

Step 2.1

Step 2.2

Step 2.2



STEP 3: COVER INSTALLATION

INSTRUCTIONS

Step 3.1 Insert the lead edge dowels into each end of the lead edge. Pre-drill a hole through the lead edge and use a 1/2" screw to secure the dowels to the lead edge.

Step 3.2 Starting at the opposite end, insert the front of the cover into the track about 6" by gently pulling on the rope.

Step 3.3 Attach the proper glider bracket to the glider using the supplied hardware in the glider.

NOTE: Do not over-tighten the glider bracket to the glider as it may break. Glider bracket must be able to pivot.

Step 3.4 Starting on the motor side, slide the front edge of the cover into the lead edge channel. Hold the cover taut and slide the lead edge until it reaches the glider bracket. Insert the glider bracket into one of the slots of the lead edge dowel.

Step 3.5 Adjust the cover corner in the lead edge and secure with a 1/2" screw, found in kit KA-0183, 1" in from the edge.

Step 3.6 With the lead edge screwed in place, pull the cover slack starting at the opposite end and work towards the motor side, distributing the slack even throughout the length of the lead edge.

Step 3.7 Adjust the cover corner in the lead edge and secure it with a 1/2" screw, found in kit KA-0183, 1" in from the edge.

Step 3.8 Install the remaining glider bracket into the lead edge dowel, in the same slot as the opposite side. Attach the glider bracket to the glider using the supplied hardware in the glider.

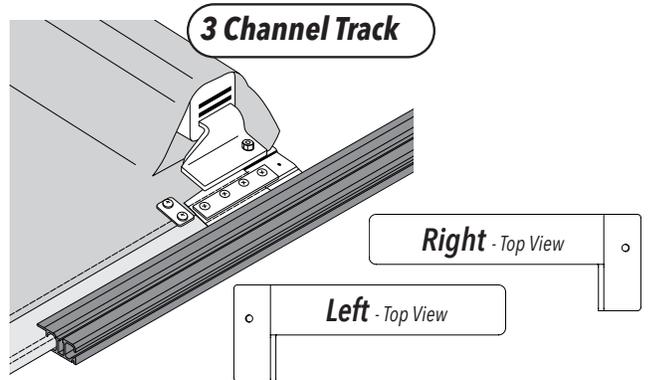
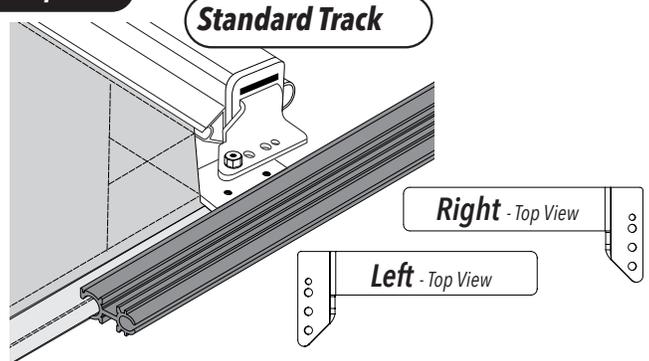
HINT: If your system is setup for a key switch, install the open magnet, found in kit KA-0184, into the front of the webbing on the motor side. Pull the white strip off of the magnet and insert into the webbing. The magnets will travel approximately 1" past the sensor before the cover stops. Take this into consideration when installing the magnets.

Step 3.9 Insert the glider into the track about 6" while gently pulling the rope.

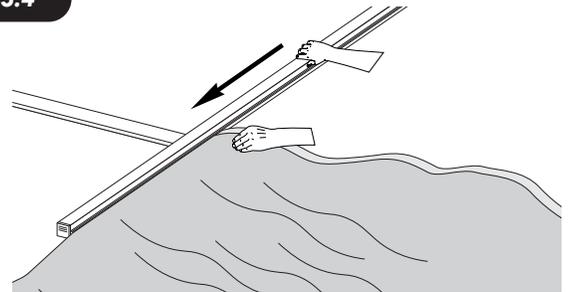
Step 3.10 With both corners of the cover in the track, install the guides, found in kit KA-0155 (for standard track), or in kit KA-0342 (for 3 channel track), and pre-drill the holes using a 1/4" drill bit.

Step 3.11 Fasten the guides, found in kit KA-0155 (for standard track), or in kit KA-0342 (for 3 channel track), to each track with the supplied hardware.

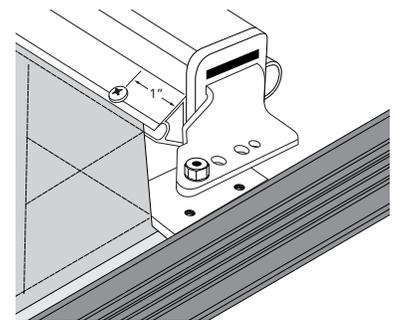
Step 3.3



Step 3.4



Step 3.5



INSTRUCTIONS (CONTINUED)

Step 3.10 Drill through the retainer and track with a 1/4" drill bit. Fasten the track to the retainer with the supplied hardware, found in kit KA-0155 (for standard track), or in kit KA-0342 (for 3 channel track).

NOTE: If the concrete stops were used with the retainer and reusable forms, drill through the hole provided in the tab of the concrete stop. This will allow you to secure the track with the hardware provided in KA-0155 (for standard track), or in kit KA-0342 (for 3 channel track).

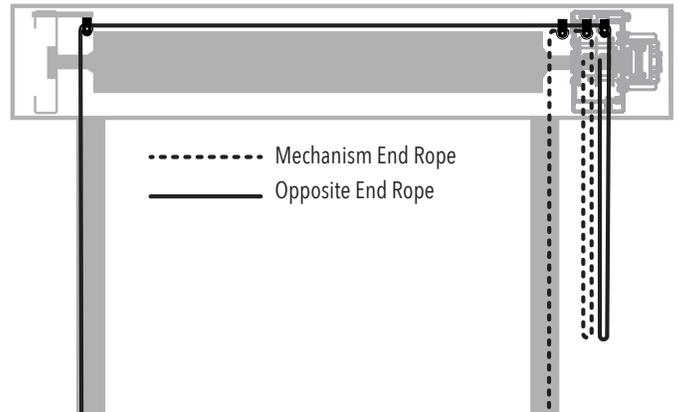
Step 3.11 Feed the opposite side rope through the opposite end pulley across the back of the box through the eyelets and through all 3 pulleys on the mechanism end and leave the extra length of rope lying on the deck.

Step 3.12 Feed the motor side rope through the first 2 pulleys on the mechanism end and leave the extra length of rope lying on the deck.

Step 3.13 Adjust the lead edge until it is parallel to the waters edge by gently pulling on the appropriate ropes. When satisfied with the position, cut the ropes evenly at 6' to 8' from the front edge of the recessed housing.

Step 3.14 Tie knots at each end of the rope and insert the knot into the appropriate side of the rope reel. Use the controller to operate the system in the "close" direction to help guide the excess rope onto the rope reel evenly. **CAUTION: Keep hands clear so they do not get wrapped up in the rope reel.**

Step 3.12



Step 3.13



INSTRUCTIONS (CONTINUED)

Step 3.15 Continue to close the cover until the lead edge reaches the end of the pool. The cover should feed into the track smoothly and evenly. If the cover catches at the guide, or if one side of the lead edge stops, release the controller and evaluate.

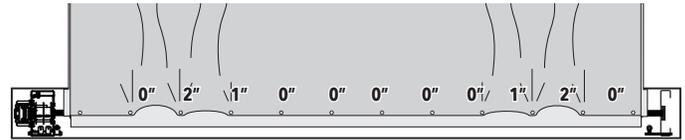
Step 3.16 Attach the cover to the tube, allowing the slack as shown, provided with 1/2" screws located in kit KA-0183 into the holes pre-drilled every 18". **Make sure to align the edge of the webbing with the edge of the tube. It is important that the sections with 0" of slack be taut.**

Step 3.17 Use the controller to open the cover enough to take up the extra length of cover loosely around the tube. Cuff the edges of cover at each end. **If system is setup for a key switch, go ahead and install the close magnet, found in kit KA-0184 in the tail end of the webbing on the motor side. Carefully cut a slit in the webbing 6" behind the guide. Pull the white strip off of the magnet and insert into the webbing. The magnets will travel approximately 1" past the sensor before the cover stops. Take this into consideration when installing the magnets.**

Step 3.18 Run the cover 3 to 4 times open and close to make sure the magnets are set properly (if applicable) and the cover is running square to the pool. If not, follow the diagrams to adjust the cover.

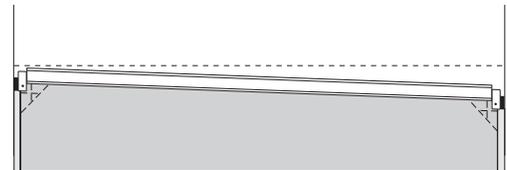
Step 3.16

Slack Distribution

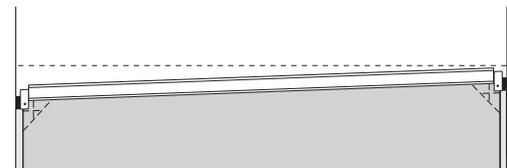


Step 3.18

If the cover opens crookedly, adjust the rope that corresponds to the side that is closest to the lid.



The **RIGHT** side rope needs to be adjusted. Take all rope off the rope reel. **SHORTEN** the rope for this side by adjusting the location of the knot that is inserted into the rope reel approximately the same distance that the cover is crooked. Place rope back onto the reel and close cover.



The **LEFT** side rope need to be adjusted. Take all rope off the rope reel. **SHORTEN** the rope for this side by adjusting the location of the knot that is inserted into the rope reel approximately the same distance that the cover is crooked. Place rope back onto the reel and close cover.

STEP 4: INSTALLING LID BRACKETS

INSTRUCTIONS

Step 4.1 Space the lid trays or custom lids across the back of the housing starting on the opposite side.

Step 4.2 Mark on the inside of the housing where the lids will be straddling the lid bracket arms.

Step 4.3 Locate your lid bracket bases and install on the back of the housing. The thickness of the lid tray or custom lid determines how high to mount the lid bracket base. Depending on what bracket is being used you might need to use a 3/8" or 1/2" masonry bit for the wedge anchors. Use the lid bracket base as a template and mark the back of the box to hammer drill your holes.

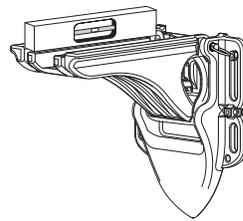
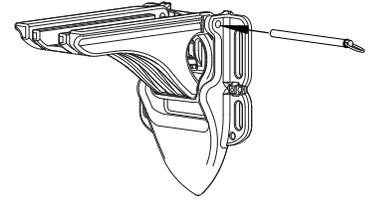
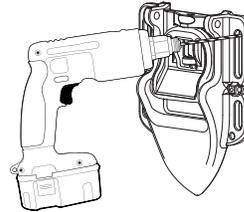
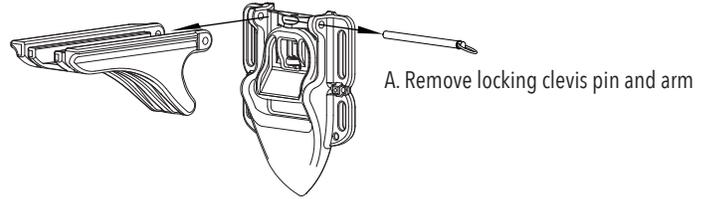
Step 4.4 Tap in the supplied wedge anchors and install the lid bracket base and tighten down the bolts so the lid bracket base can not slide down.

Step 4.5 Once all of the lid brackets are secure, install the lid trays or custom lid and level each bracket accordingly.

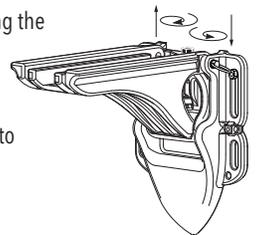
NOTE: Assemble Atlas Lid Brackets using the instructions on the right.

NOTE: Make sure to put the cover pump on top of the cover when it is in the closed position and not being used.

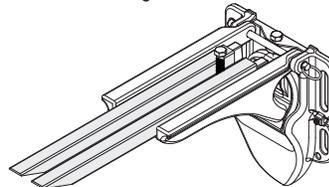
Atlas Bracket Installation



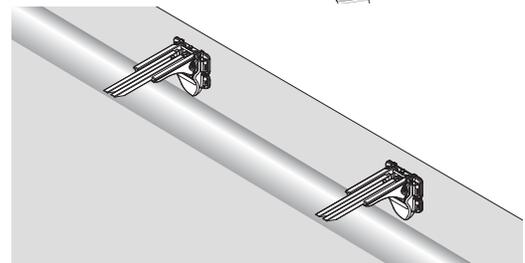
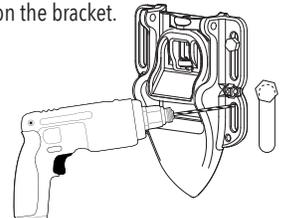
D. Level bracket by turning the adjustment bolt. Rotate clockwise to raise the arm, rotate counter-clockwise to lower the arm.



E. If equipped with an extension arm, set appropriate length and install and tighten the bolt.



HINT: To ensure the bracket won't slide down if the upper wedges become loose over time, insert wedges in the upper-most part of the bottom set of slots on the bracket.



TECHNICAL SUPPORT

If you have any questions about these installation procedures, please contact Technical Support (800) 878-5789 Monday through Friday, 8 am - 5 pm EST.

Automatic Pool Covers, Inc.

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