

Step-Saver® Deck Mount Manual Reel or Power Wheel™ for Universal Track

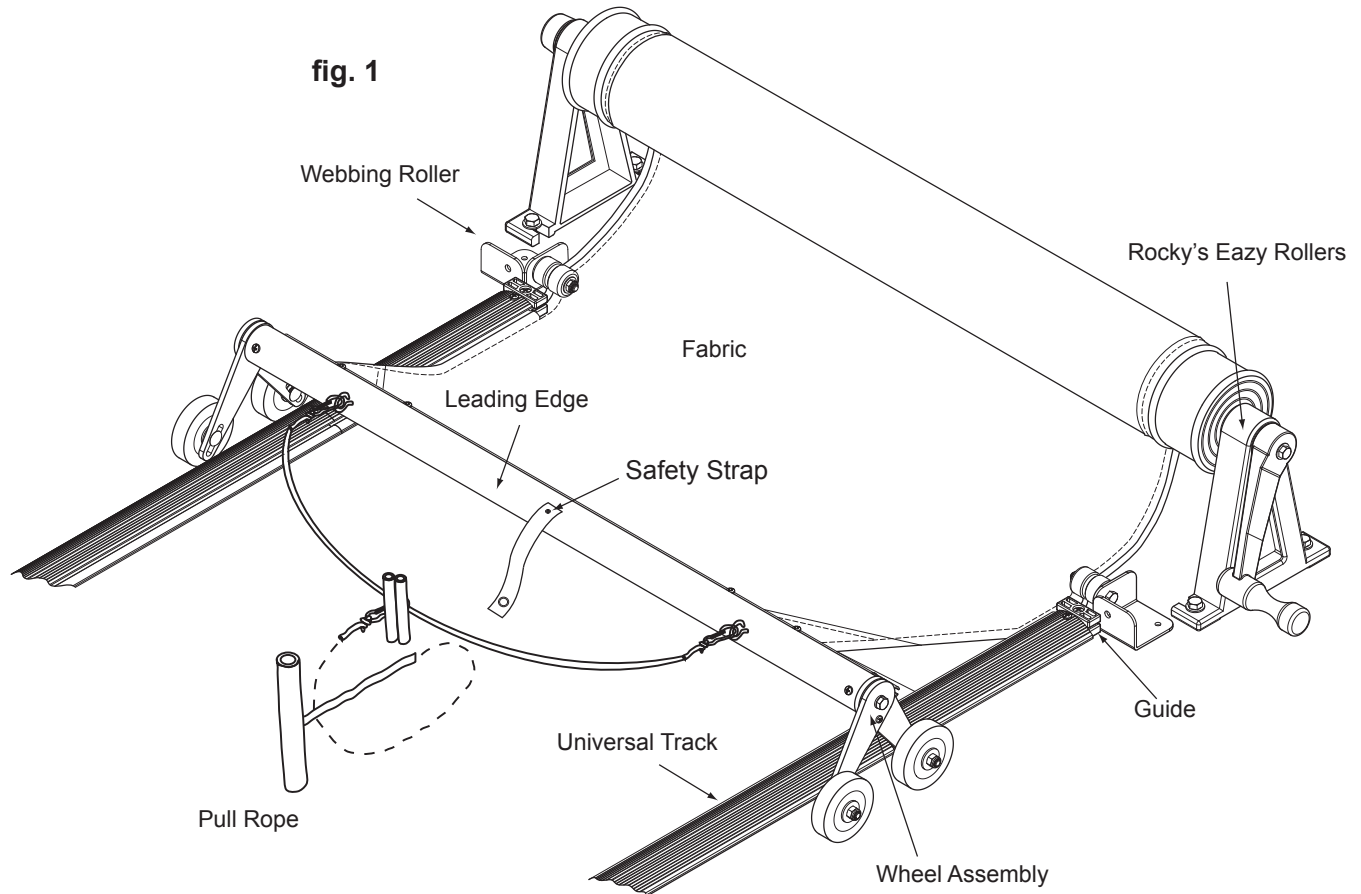
The Cover-Pools® Step-Saver is a manual pool cover mechanism. To close the cover, attach the pull rope to the front of the leading edge, and pull the cover closed. To open the cover, use the hand crank or the optional power wheel.

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1. Step-Saver® Deck Mount Pool Cover Mechanism

To uncover the pool, use the hand crank or optional power wheel. To cover the pool, attach the pull ropes to the front of the leading edge and pull it evenly to the opposite end.



2. Tools or Equipment

- 1/2" Wrench or Socket assembly
- Measuring Tape
- Countersink (Recommend 1/2" to 5/8")
- #3 & #2 Phillips Power Bit or Driver
- 9/64" Drill Bit
- 5/32" Drill Bit
- 11/64" Drill Bit
- 7/32" Drill Bit
- 1/4" Masonry Drill Bit
- 5/16" Drill Bit
- 5/8" Masonry Drill Bit
- Saw for Cutting Aluminum
- Level
- Drill
- File (Recommend 7/16" Wide x 9/64" Thick - Half-round)

3. Track Parts

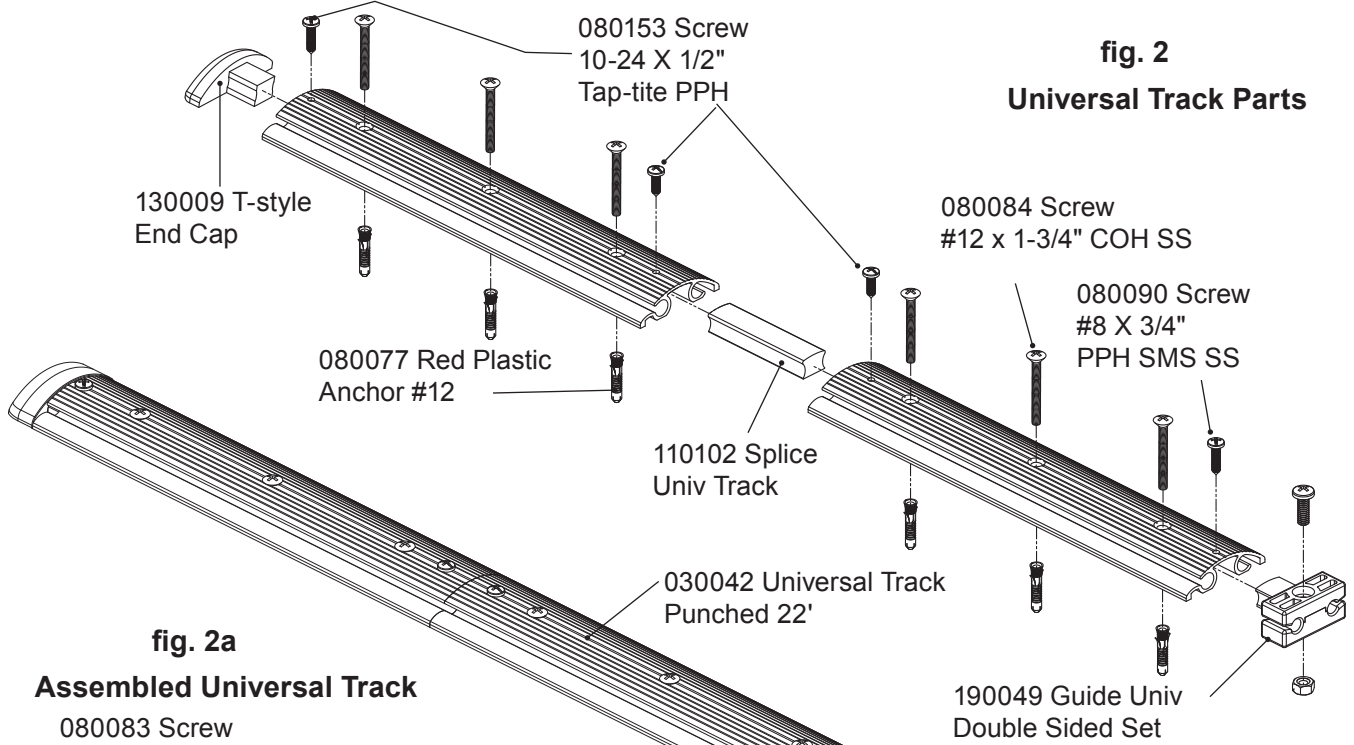


fig. 2

Universal Track Parts

fig. 2a

Assembled Universal Track

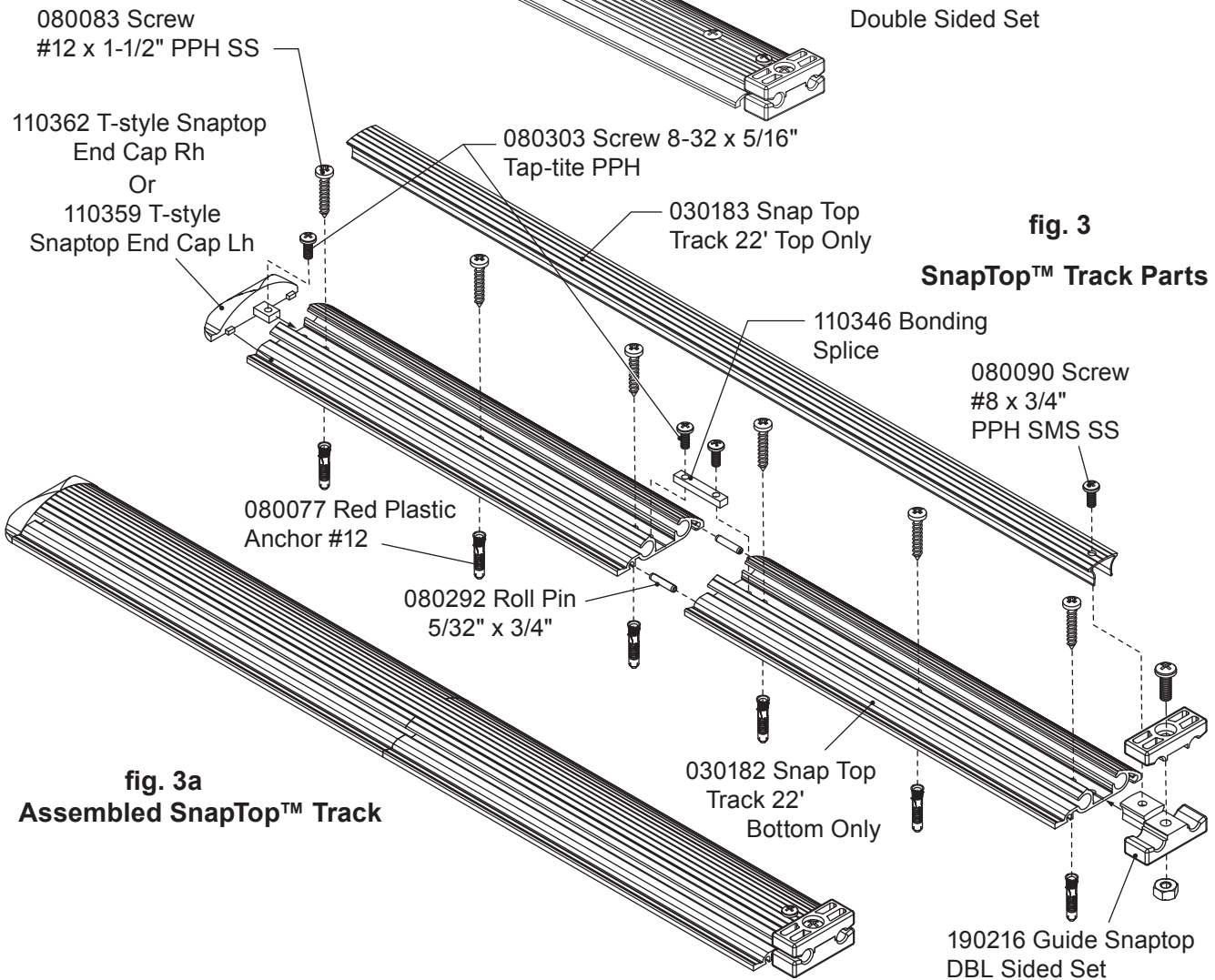


fig. 3

SnapTop™ Track Parts

fig. 3a

Assembled SnapTop™ Track

4. Layout the Track

4.1 Track layout. (fig. 4 & 5)

Check the specified "Track Space (T.S.)" as written on the shop order form or packing list.

The track space is the distance from the inside edge of the track to the inside edge of the track plus 1". (fig. 4)

4.1.1 Lay the tracks out at right angles to the mechanism with the track slots facing the pool.

4.1.2 Place the track ends 2' beyond the far end of the pool and 1' beyond the pool on the mechanism end.

4.1.3 Cut any excess track off squarely at the mechanism end.

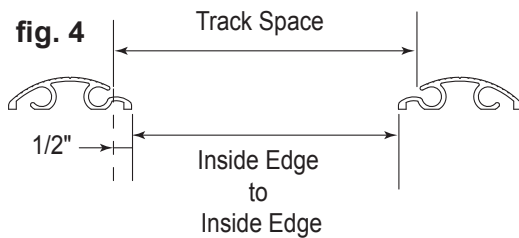
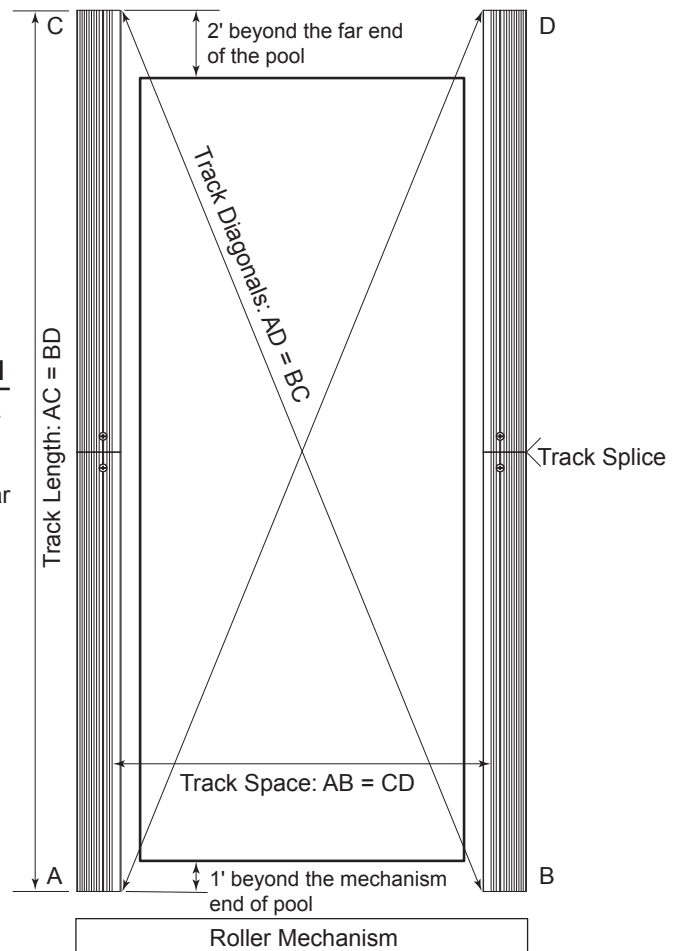


fig. 5

ATTENTION CRITICAL INSTRUCTION

1. Tracks must be equal length.
2. Tracks must be parallel.
3. Tracks must be squared.
4. Tracks must be perpendicular to the mechanism.



4.2 Squaring the track. (fig. 5)

Note: For SnapTop™ Track, use the track bottom sections for layout. Plan for all joints between the top and bottom pieces to be offset.

- 4.2.1 Measure the track space at both ends and the middle to ensure the tracks are parallel.
- 4.2.2 Measure the diagonal to ensure a perfectly squared track layout.
- 4.2.3 Mark the track position with a pencil at the ends and several places in between.
- 4.2.4 Hold the track in position and mark the hole positions with a pencil or 1/4" masonry drill bit.
- 4.2.5 Move the tracks and drill 1/4" holes 2" deep at the marked hole locations.
- 4.2.6 Blow or vacuum the dust out of the holes.
- 4.2.7 Insert red plastic anchors into the drilled holes and tap them into place.

5. Install the Universal Track

Note: *If using SnapTop™ track, skip to the next section for proper installation procedure.*

5.1 Cut the excess track. (fig. 6 & 6a)

- 5.1.1 De-burr all sharp edges from the tracks, especially the pool-side rope channel.
- 5.1.2 Use a file or countersink on all track ends to de-burr and bevel them.

5.2. Install the track splice. (fig. 7)

- 5.2.1 Use a track splice to join squarely cut track ends.
- 5.2.2 Make sure the tracks are held tightly together.
- 5.2.3 Drill a 5/32" hole through each track and into the splice.
- 5.2.4 Use #10 x 1/2" screws to fasten the splice and track together.

5.3 Install the track guides. (fig. 8)

The double sided guide consists of two halves that are installed at the mechanism end of the track.

- 5.3.1 Place both halves together and secure with the bolt and nut provided.
- 5.3.2 Insert the stem of the guide into the track. Make sure the bottom of the guide is parallel with the bottom of the track and tight against the track end.
- 5.3.3 Drill a 9/64" hole through the track and the guide.
- 5.3.4 Secure the guide in place with a #8 x 3/4" screw.

5.4 Install the end cap. (fig. 9)

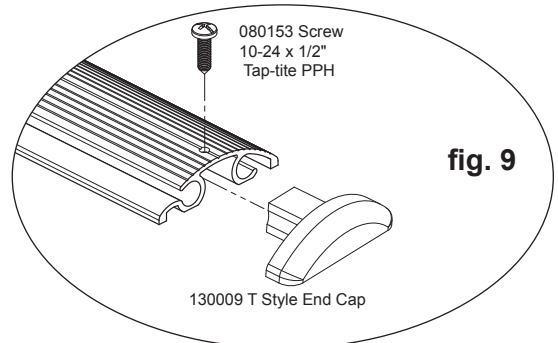
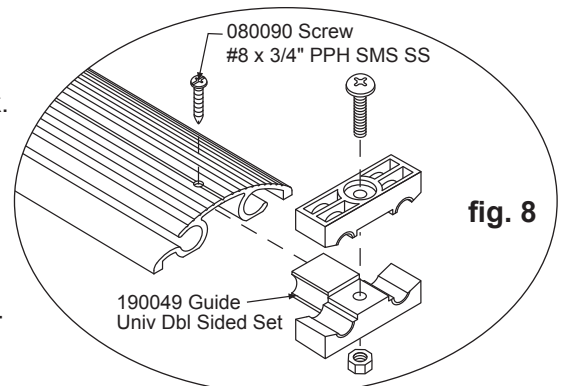
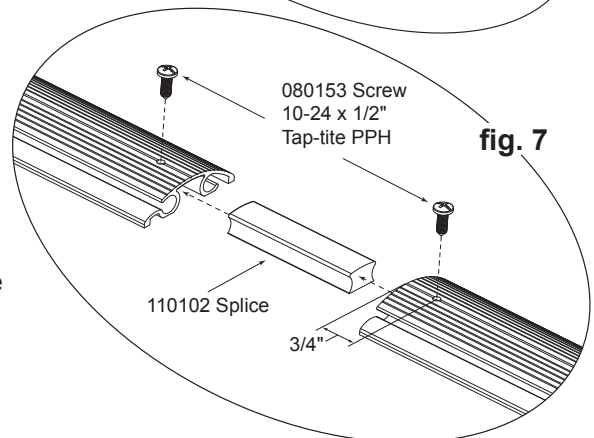
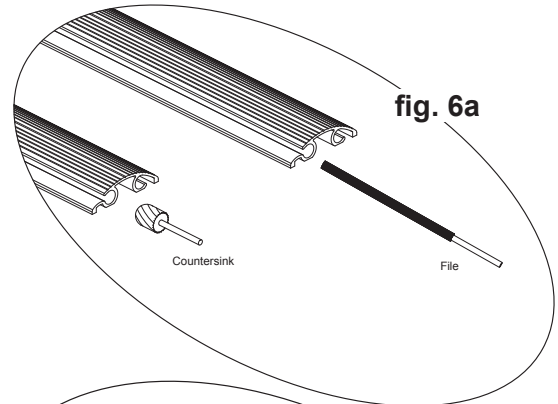
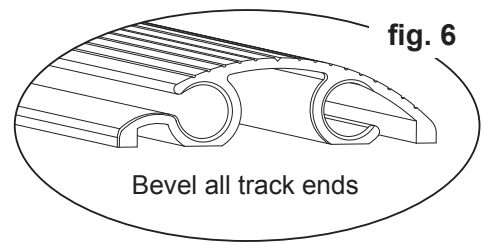
The end cap is installed on the far end of the track.

- 5.4.1 Make sure the bottom of the end cap is parallel with the bottom of the track and tight against the track end.
- 5.4.2 Drill a 9/64" hole through the track and end cap.
- 5.4.3 Secure the end cap in place with a #10-24 x 1/2" tap-tite screw.

5.5 Install the track. (fig. 3)

Install the tracks and secure them to the deck surface.

- 5.5.1 Place the tracks in their original position and secure with #12 x 1 3/4" screws.



6. Install the SnapTop™ Track.

Note: *If using Universal track, refer to previous section for proper installation procedure.*

6.1 Cut & de-burr the track. (fig. 10)

- 6.1.1 Use a file or countersink on all track ends to de-burr and bevel them, especially the pool-side rope channel.

6.2 Install the track bottom. (fig. 10a)

- 6.2.1 Replace the track bottom to its original position. Tap two 080292 ROLL PINS 5/32" x 3/4" into the slots in the track 3/8" deep (halfway). Press a second track bottom onto the roll pins. Attach the remaining track bottoms to each other in the same way.
- 6.2.2 Secure with two 080083 Screw #12 x 1-1/2" PPH SS.

6.3 Install the splice. (fig. 10a)

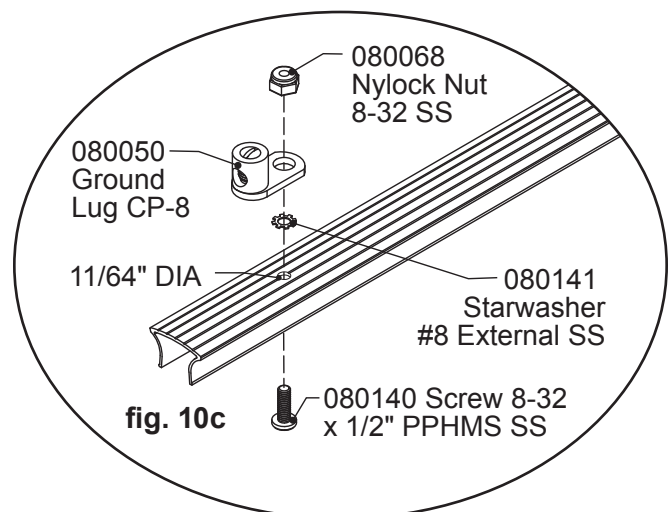
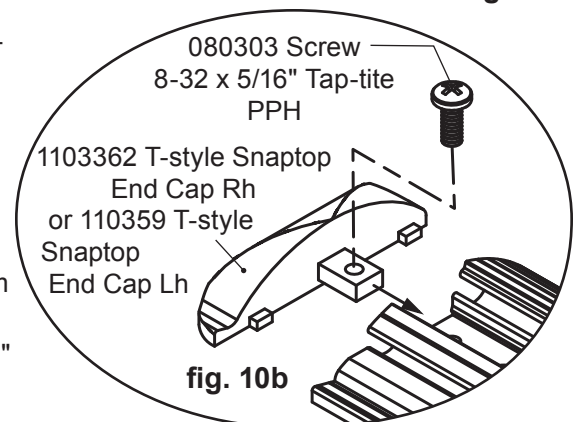
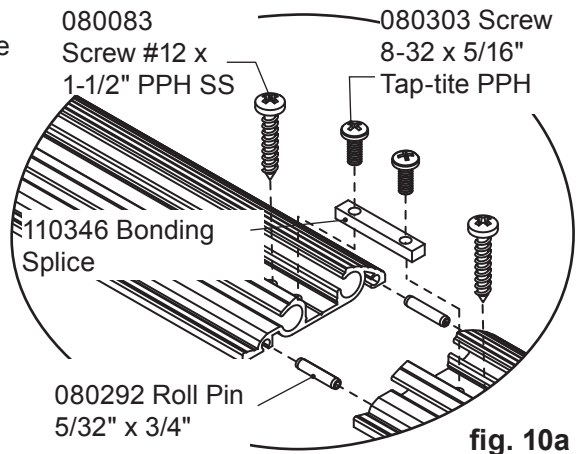
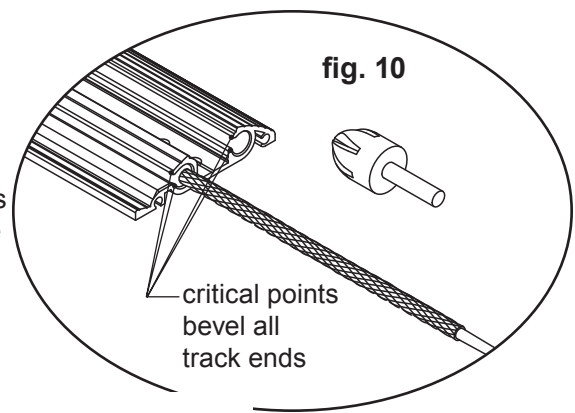
- 6.3.1 Install 110346 BONDING SPLICE at all track joints to ensure continuity of electrical bonding.
- 6.3.1.1 Using the bonding splice as a template, drill two 1/8" holes at the joints.
- 6.3.1.2 Attach bonding splice using two 080303 Screw 8-32 x 5/16" TAP-TITE PPH.

6.4 Install the end cap. (fig. 10b)

- 3.5.1 Slide 1103362 T-Style Snaptop End Cap RH or 110359 T-Style Snaptop End Cap LH into the bottom of the track until it is flush with the end of the track.
- 3.5.2 Drill a 1/8" hole through the end cap stem into the track bottom.
- 3.5.3 Secure with a 080303 Screw 8-32 x 5/16" TAP-TITE PPH.

6.5 Install the bonding lugs. (fig. 10c)

- 6.5.1 Drill an 11/64" hole through the track top at least 3/4" from the end.
- 6.5.2 Insert the screw from the inside to attach the starwasher and ground lug with the nylock nut.
- 6.5.3 Install the top into the track making sure the top and bottom joints are offset.



6.6 Install the track guides. (fig 10d)

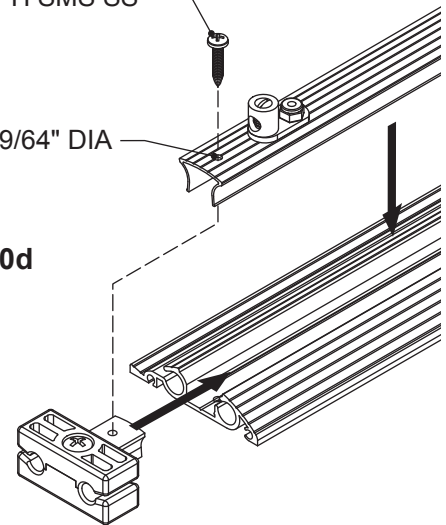
Note: *The track top must be in place before the guide can be installed.*

- 6.6.3 Place both halves of the rope guide together and secure them with the bolt and nut provided.
- 6.6.4 Insert the stem of the guide into the end of track flush against the track end.
- 6.6.5 Drill a 9/64" hole completely through the track and the guide assembly stem.
- 6.6.6 Secure with a 080090 Screw #8 x 3/4" PPH SMS SS.

080090 Screw #8
x 3/4" PPH SMS SS

9/64" DIA

fig. 10d



7. Install Fabric & Leading Edge

7.1 Install the fabric to the leading edge. (fig. 11)

- 7.1.1 Unroll the fabric at the mechanism end of the pool with the Cover-Pools labels facing up. The labels must be visible when the pool is covered.
- 7.1.2 On one side of the pool, insert the cover webbing through the guide and about 1' into the track.
- 7.1.3 On the opposite side, pull the corner of the fabric tight and slide the leading edge onto the front of the fabric.
- 7.1.4 Leave the Teflon gore outside of the leading edge channel and slide the leading edge across the front of the fabric to the opposite side.
- 7.1.5 Set the fabric in about 3" on both ends of the leading edge.
- 7.1.6 Evenly compress any extra fabric into leading edge channel.
- 7.1.7 Insert the opposite edge of the cover webbing through the guide and about 1' into the track.
- 7.1.8 Pin through the pre-drilled holes on both ends of leading edge into the fabric using pinning screws.

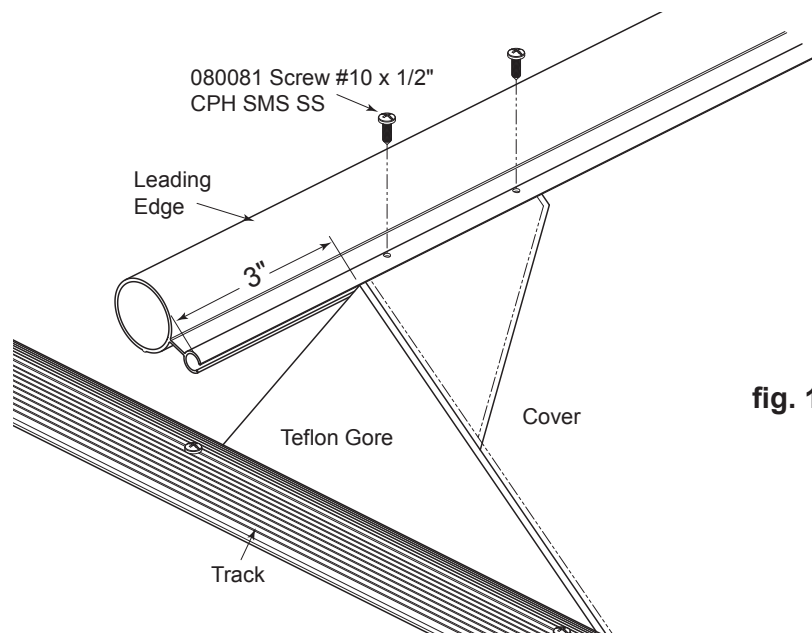


fig. 11

7.2 Install the wheel assembly. (fig. 12 & 13)

The wheel assembly is installed and attached to the leading edge.

- 7.2.1 Insert the wheel assembly plug into the leading edge. (fig. 12)
- 7.2.2 Drill a 5/32" hole through the leading edge into the plug at the 10 & 2 o'clock positions. (fig. 13)
- 7.2.3 Pin the plug to the leading edge with #10 x 1/2" screws through the drilled holes.
- 7.2.4 Loosen the wheel plug bolt to adjust the leading edge height.
- 7.2.5 Set the bottom of the leading edge approximately 2" above the track.
- 7.2.6 Tighten the wheel plug bolt until it is snug.
- 7.2.7 Drill a 7/32" hole through the two wheel arms; **do not drill into the plastic wheel hub.**
- 7.2.8 Pin the wheel arms together with a #12 x 1-1/2" Screw (080083) through the drilled holes and into the wheel hub.

fig. 12

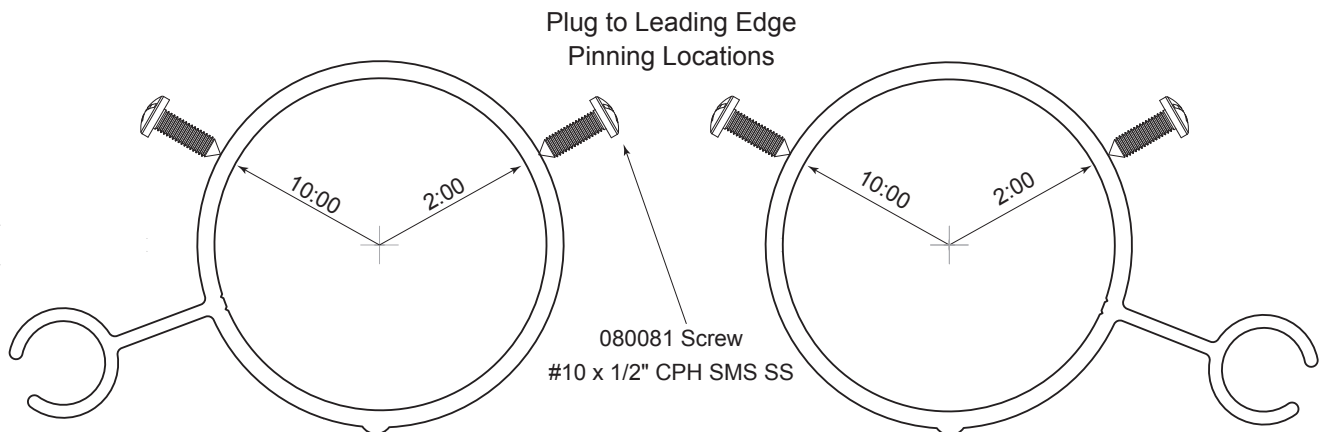
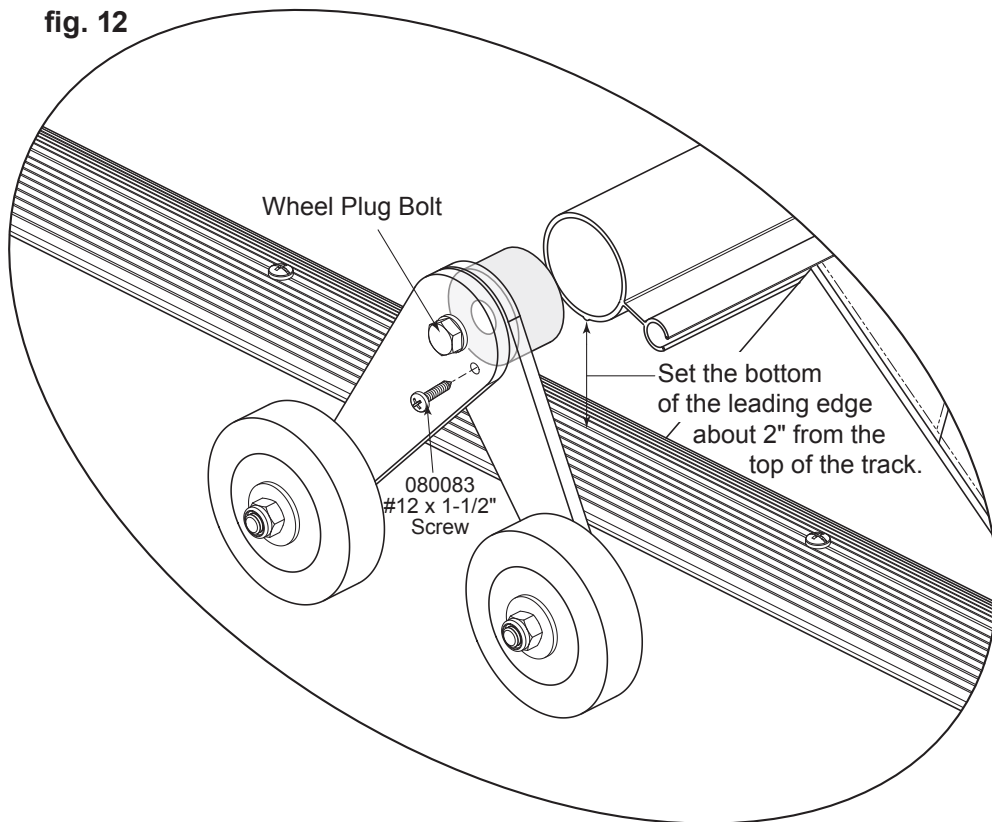
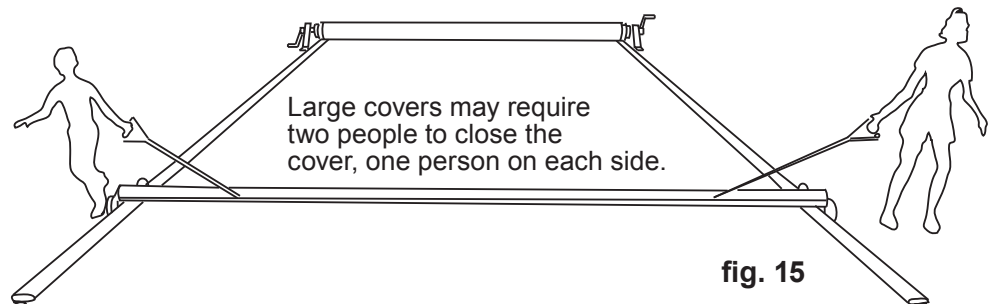
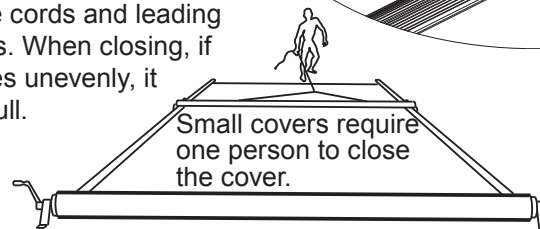
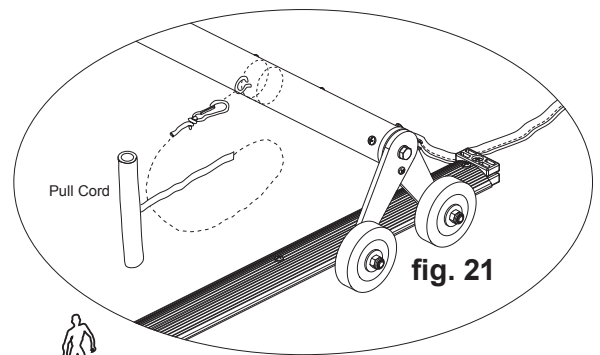


fig. 13

7.3 Attach the pull cords. (fig. 14 & 15)

The pull cords are attached to the leading edge and used to cover the pool.

- 7.3.1 **Two-person operation:** attach the pull cord clips to the eyelets on the leading edge.
- 7.3.2 **One-person operation:** attach the pull cord clips to the eyelets on the leading edge and attach the third pull cord clip to the ropes just below handles.
- 7.3.3 To cover the pool, pull the cords and leading edge evenly on both sides. When closing, if the leading edge advances unevenly, it will bind and be hard to pull.



7.4 Install the webbing roller. (fig. 16)

The webbing rollers are installed at the mechanism end on both sides of the pool.

- 7.4.1 Set the webbing roller bracket on the deck squarely against the guide.
- 7.4.2 Line up the groove in the webbing roller with the guide and webbing.
- 7.4.3 The outside edge of the roller bracket sits about 1 $\frac{3}{4}$ " away from the outside edge of the track.
- 7.4.4 Hold the roller bracket in position and mark the hole locations with a pencil or 1/4" masonry drill.
- 7.4.5 Move the roller and drill the marked hole locations 2" deep with 1/4" masonry drill.
- 7.4.6 Blow the dust out of the holes.
- 7.4.7 Insert red plastic anchors into the drilled holes and tap them into place.
- 7.4.8 Place the webbing roller back in position and secure it with #12 x 1 $\frac{3}{4}$ " screws.

7.5 Install the Rocky's Eazy Rollers. (fig. 16)

- 7.5.1 Set the Rocky's Eazy Rollers A-frame $3\frac{1}{2}$ " from the end of the track and approximately $1\frac{3}{4}$ " from the outside edge of the track.
- 7.5.2 The tube must be inserted into the hub.
- 7.5.3 Use the instructions in the Rocky's Eazy Rollers kit to assemble the tube and roller.
- 7.5.4 Be sure to level and center the mechanism.

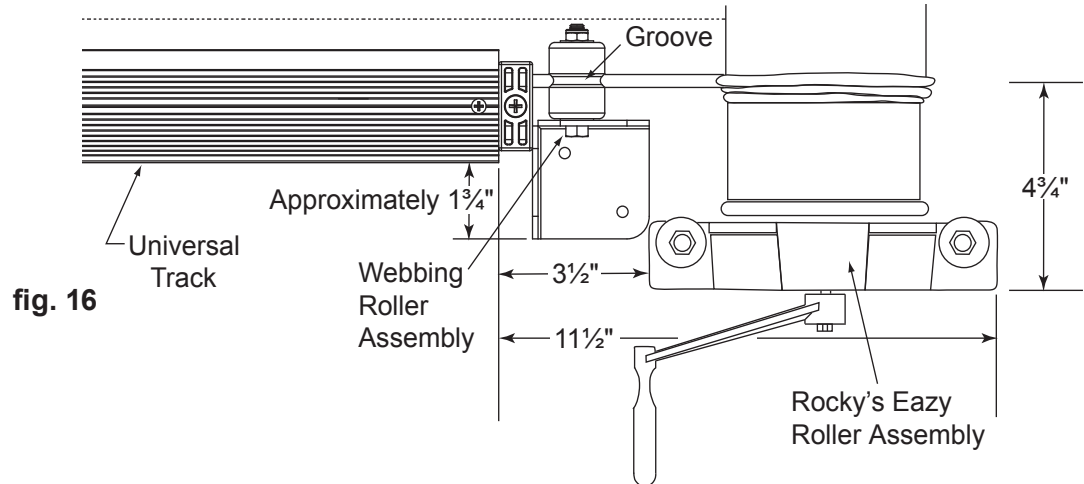


fig. 16

7.4 Attach the fabric to the roller tube. (fig. 17)

- 7.4.1 Pull the fabric under the tube in a straight line from the guide and webbing roller.
- 7.4.2 Pin with #10 x $\frac{1}{2}$ " screws.
 - 7.4.2.1 First, pin the webbing to the pre-drilled holes on both ends of the roller tube.
 - 7.4.2.2 Leave $\frac{1}{2}$ " of slack in the fabric and pin the fabric to the next pre-drilled hole.
 - 7.4.2.3 Continue pinning the fabric (except the center) to the roller tube at each pre-drilled hole.
 - 7.4.2.4 Find the center of the fabric and pin it to the roller tube.
- 7.4.3 As the fabric is rolled onto the roller tube, fold the extra fabric toward the center.

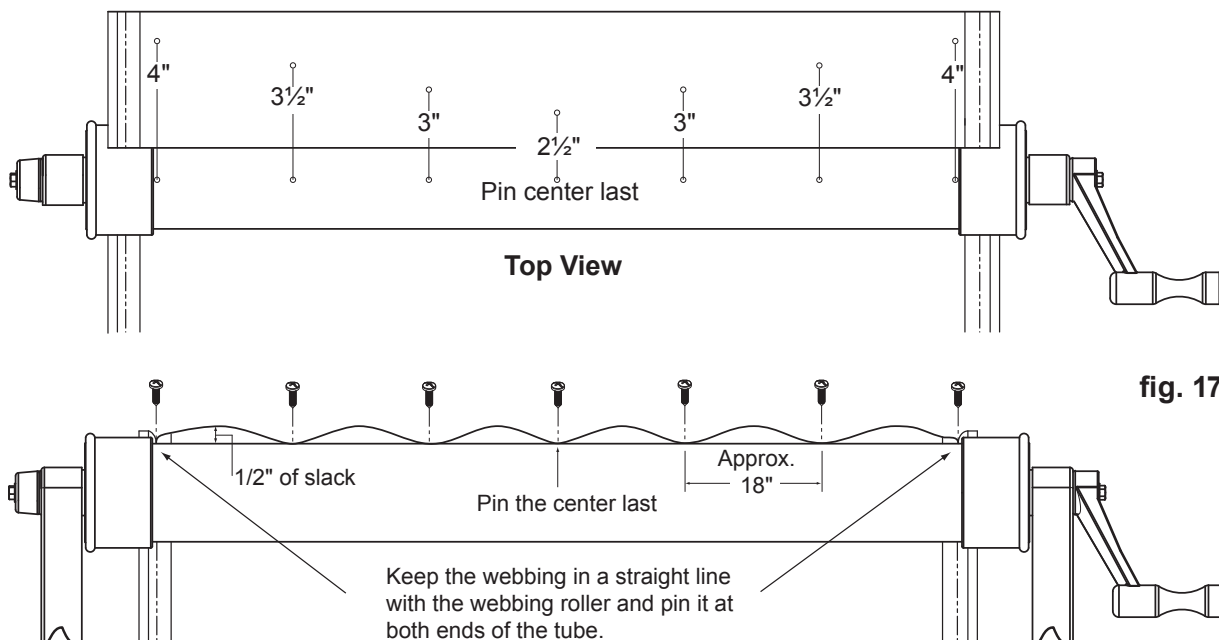


fig. 17

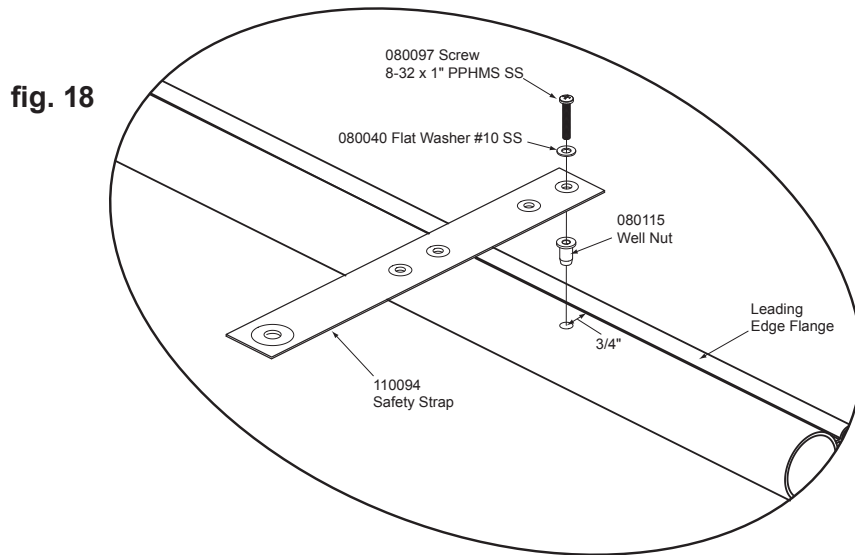
8. Safety Requirements for A.S.T.M. Compliance

Safety Strap: (A.S.T.M. COMPLIANCE INSTRUCTION)

The safety strap is used to prevent a force from creating an opening between the leading edge and the deck.

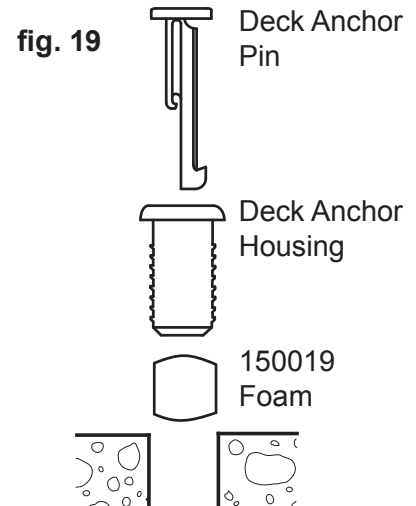
8.1 Install safety strap.

- 8.1.1 Use the pull cord and cover the pool. (fig. 18)
- 8.1.2 Locate the center of the leading edge and drill a 5/16" hole 3/4" above the leading edge flange.
- 8.1.3 Insert the rubber well nut into the drilled hole.
- 8.1.4 Insert a washer and screw 8-32 x 1" through one of the four small grommets in the safety strap and screw into the well nut. DO NOT TIGHTEN AT THIS TIME.
- 8.1.5 Pull the end of the strap up onto the deck and adjust the strap length.
 - 8.1.5.1 The large grommet must rest flush on the deck and hold the leading edge tightly in place when secured with the deck anchor.
 - 8.1.5.2 Adjust the safety strap length by choosing the proper small grommet.
 - 8.1.5.3 With large grommet resting flush on deck, mark the deck anchor location through the grommet hole.



8.2 Install the deck anchor. (fig. 19)

- 8.2.1 Drill a 5/8" hole through deck at the marked location.
- 8.2.2 Push a 1" x 3/4" diameter piece of expansion foam into the drilled hole a minimum of 2" deep.
- 8.2.3 Push the housing into the hole and lightly tap it into place (NO GLUE REQUIRED).
- 8.2.4 Place the pin through the large grommet in the strap and push it into the deck anchor housing.
- 8.2.6 Tighten the screw in the well nut until the strap is secure.
- 8.2.7 Refer to the Owners Manual for anchor pin removal instructions.



Roller Opening Barricade: (A.S.T.M. COMPLIANCE INSTRUCTION)

The aluminum angle is used to reduce the opening between the roller and the deck to prevent children from crawling through the closed cover.

Remove the aluminum angle before the cover is opened and install the aluminum angle whenever the cover is closed. Some systems may leave the angle in place when the cover is open.

8.3 Install the roller opening barricade. (fig. 20 & 21)

- 8.3.1 Cover the pool using the pull cords.
- 8.3.2 Place the 2" x 3" aluminum angle so the 2" side is flush on the deck and 3" side faces the pool.
- 8.3.3 Align the aluminum angle parallel with the roller tube.
- 8.3.4 Adjust the aluminum angle forward or backward so the top edge is a maximum of 4" away from the outer edge of the tube. (fig. 21)
- 8.3.5 Holding the aluminum angle in position, mark the hole locations on the deck with a pencil or 1/4" masonry drill.
- 8.3.6 Remove the aluminum angle and install the deck anchors following the Deck Anchor Installation instructions.
- 9.3.7 File the top corners of the aluminum angle to de-burr and remove sharp edges and corners.
- 8.3.8 Place the aluminum angle over the installed anchor housings and insert anchor pins to secure it.
- 8.3.9 Refer to the Owner's Manual for anchor pin removal instructions.

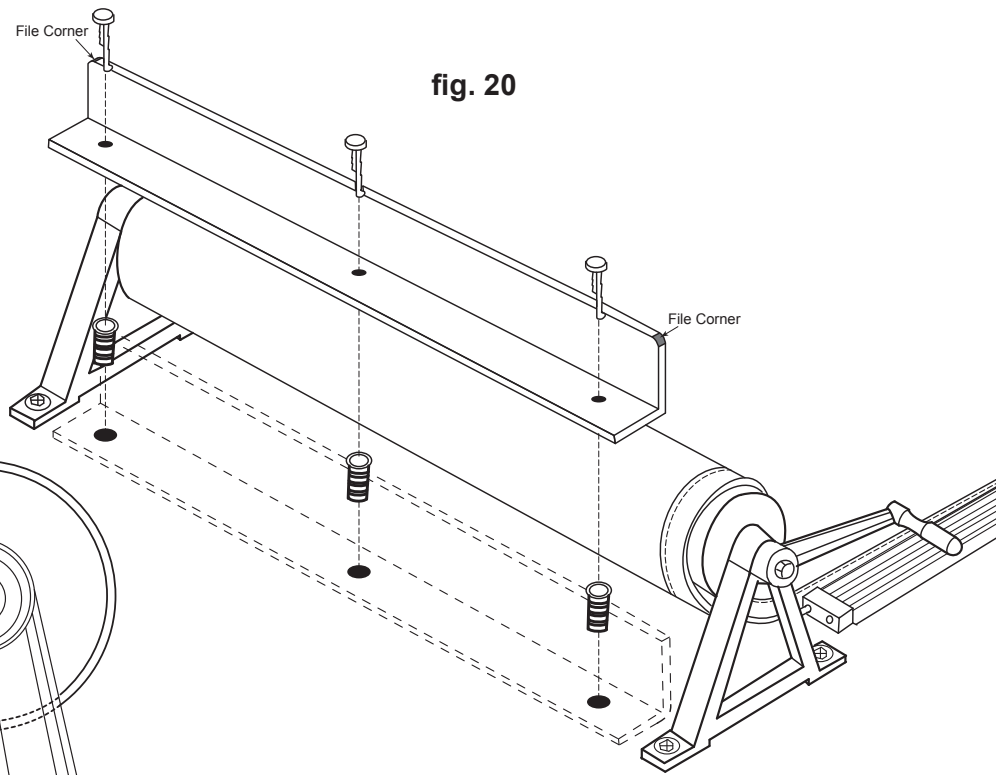


fig. 20

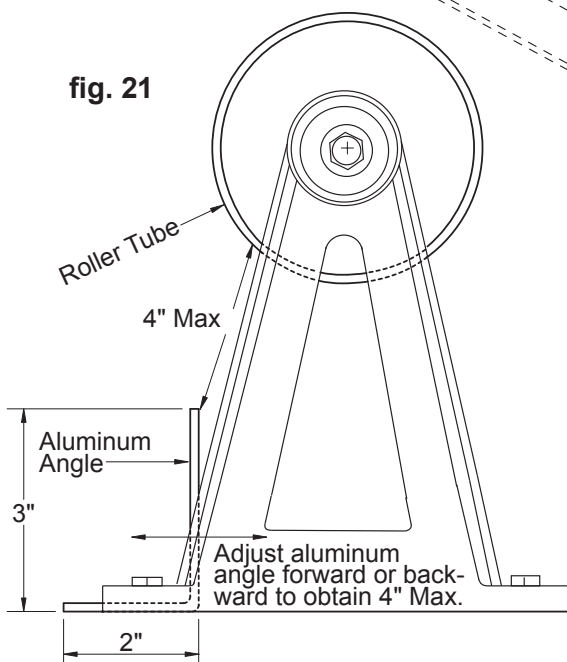


fig. 21

9. Optional Power Wheel

The optional power wheel replaces the crank handle on the Rocky's Eazy Roller. The power wheel makes opening large pool covers easier.

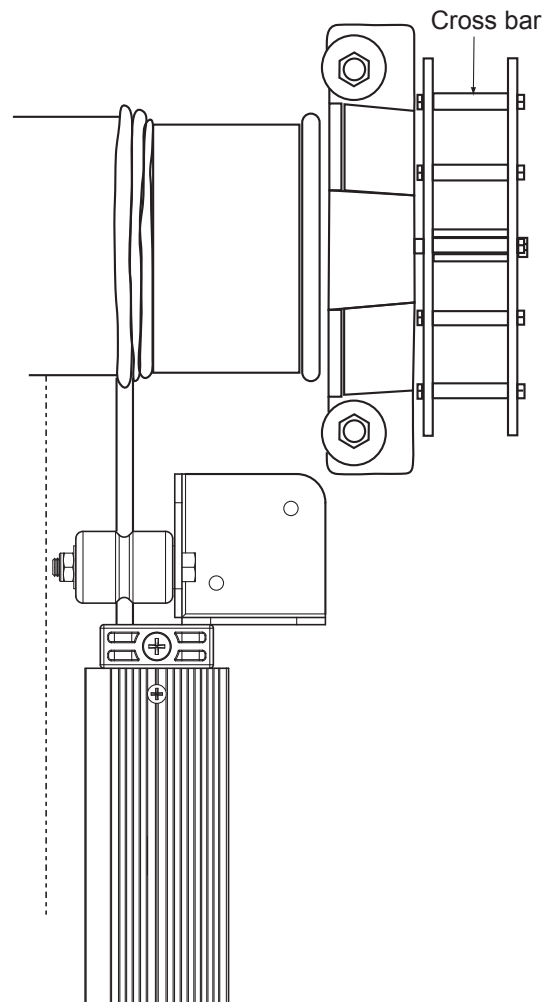
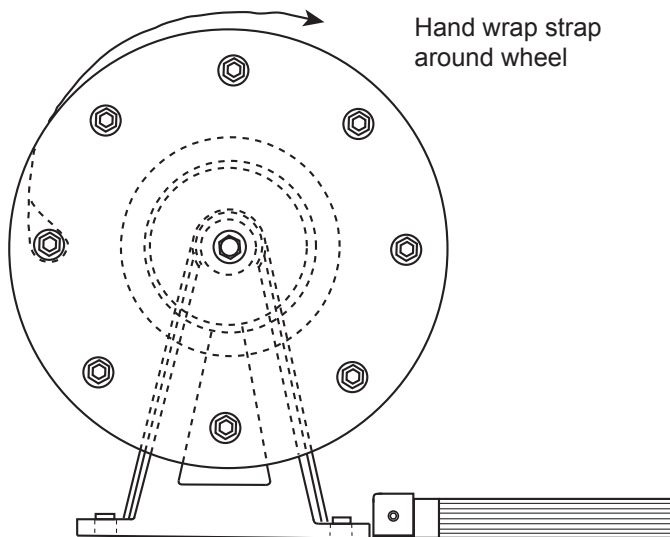
9.1 Replace the handle with the power wheel.

- 9.1.1 Remove the bolt from the handle end of the Rocky's Eazy Roller and slide the handle off.
- 9.1.2 Install the power wheel to the end of the Rocky's Eazy Roller mechanism and secure it with the bolt.

9.2 Install the pull strap to the power wheel. (fig. 22)

- 9.2.1 Remove one cross bar from the wheel. Insert the bar into the loop of the strap and reinstall the cross bar into the wheel.
- 9.2.2 The pull strap feeds from the top of the power wheel.
- 9.2.3 Hand wrap the strap around the power wheel. Be careful not to twist the strap.
- 9.2.4 Leave enough of the strap extended to thread through the rib cover and into the handle.

fig. 22



9.3 Install the end rib. (fig. 23)

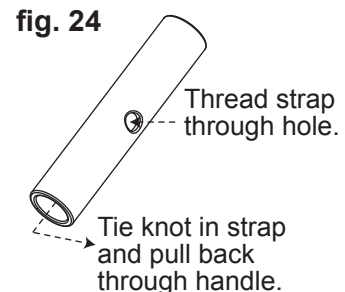
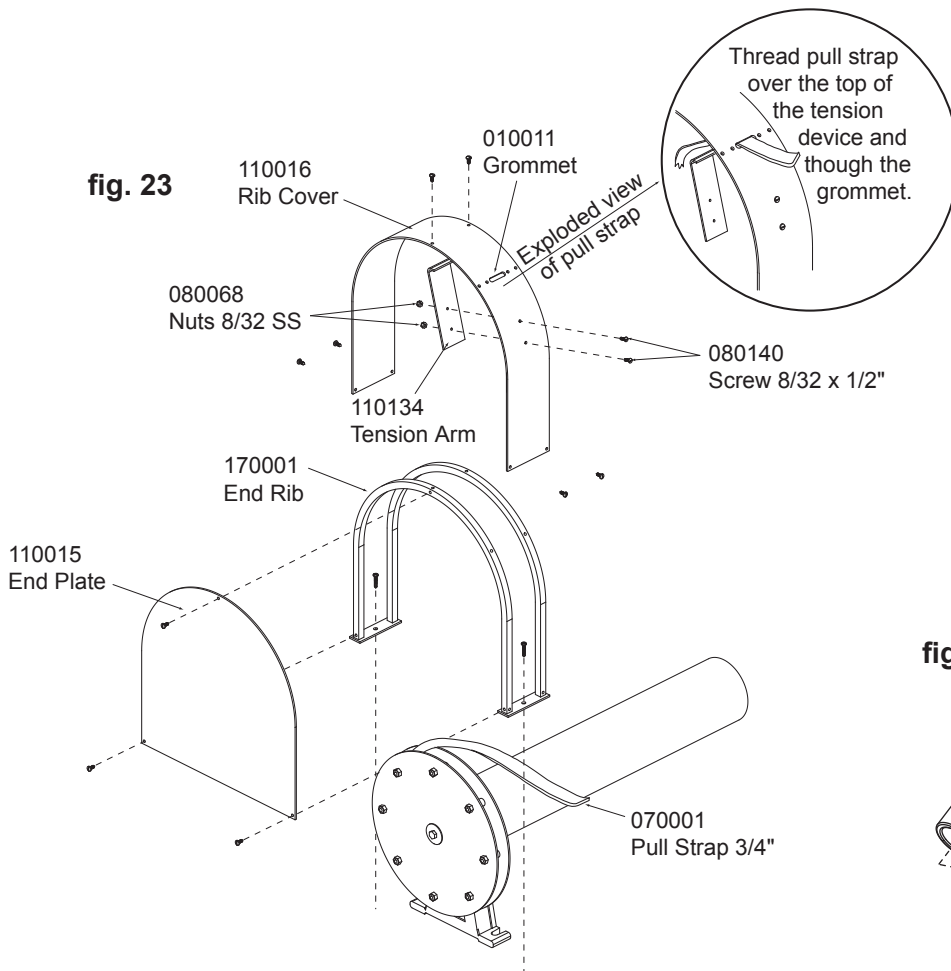
- 9.3.1 Center the rib over the power wheel.
- 9.3.2 Holding the rib in position, mark the hole locations with a pencil or 1/4" masonry drill.
- 9.3.3 Remove the rib and drill 1/4" holes 2" deep with a masonry drill at the marked hole locations.
- 9.3.4 Blow the dust out of the holes.
- 9.3.5 Insert red plastic anchors into the drilled holes and tap them into place.
- 9.3.6 Place the rib back into position and secure it with #12 x 1 3/4" screws.

9.4 Install the rib cover to the end rib. (fig. 23)

- 9.4.1 Place the rib cover over the rib facing the grommet toward the track.
- 9.4.2 Secure the rib cover to the rib with #10 x 1/2" screws.

9.5 Thread the strap and attach the pull handle. (fig. 23 & 24)

- 9.5.1 Thread the strap over the top of the tension device and through the grommet in the rib cover.
 - 9.5.1.1 Thread the strap through the small hole in the handle and out one side.
 - 9.5.1.2 Slide the handle down the strap so the handle almost touches the rib cover.
 - 9.5.1.3 Tie a knot in the strap. Cut off the excess strap and pull the knot into the handle.
 - 9.5.1.4 Pull the strap with the handle to uncover the pool.
- 9.5.2 When pool is uncovered, store the strap in the strap bag by the power wheel for safety.
- 9.5.3 When covering the pool, lay the strap down the side of the pool flatly on the deck and the strap will roll up onto the power wheel as the pool is covered.



10. Optional Bonding

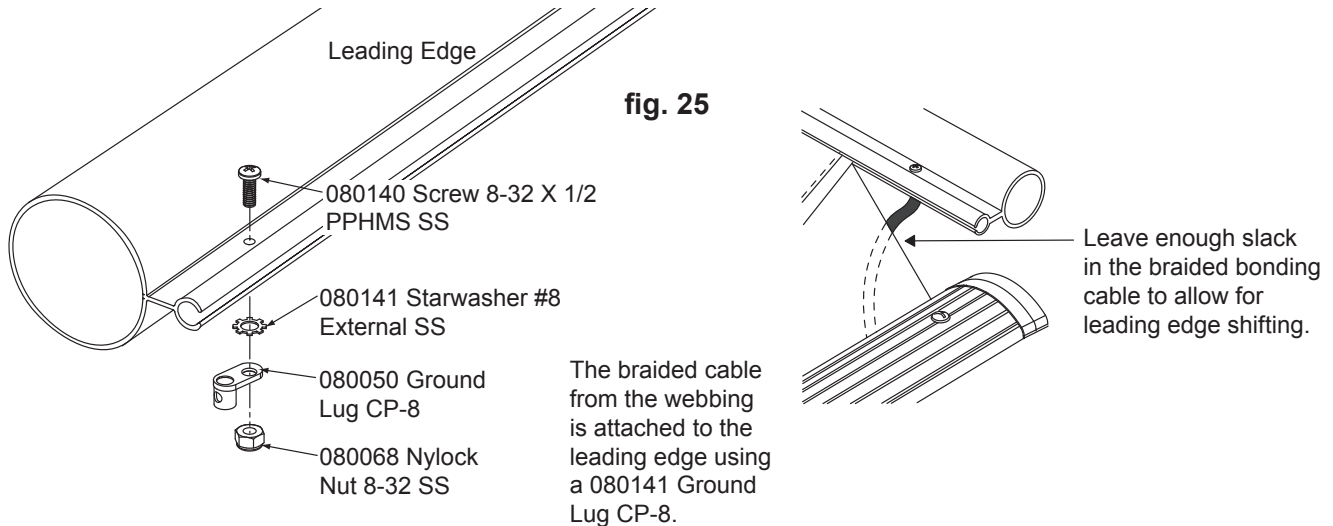
The National Electric Code requires all metal parts around a swimming pool to be bonded. Check the local code in your area to see if bonding is required.

Bonding is achieved by connecting a #8 gauge solid copper wire from the pool-bonding grid to the pool cover mechanism.

10.1 Connect the bonding lug to the leading edge. (fig. 25)

10.1.1 Connect the braided cable from the cover webbing to the bonding lug on the leading edge.

10.1.2 Leave enough slack in the bonding cable to allow for leading edge shifting.

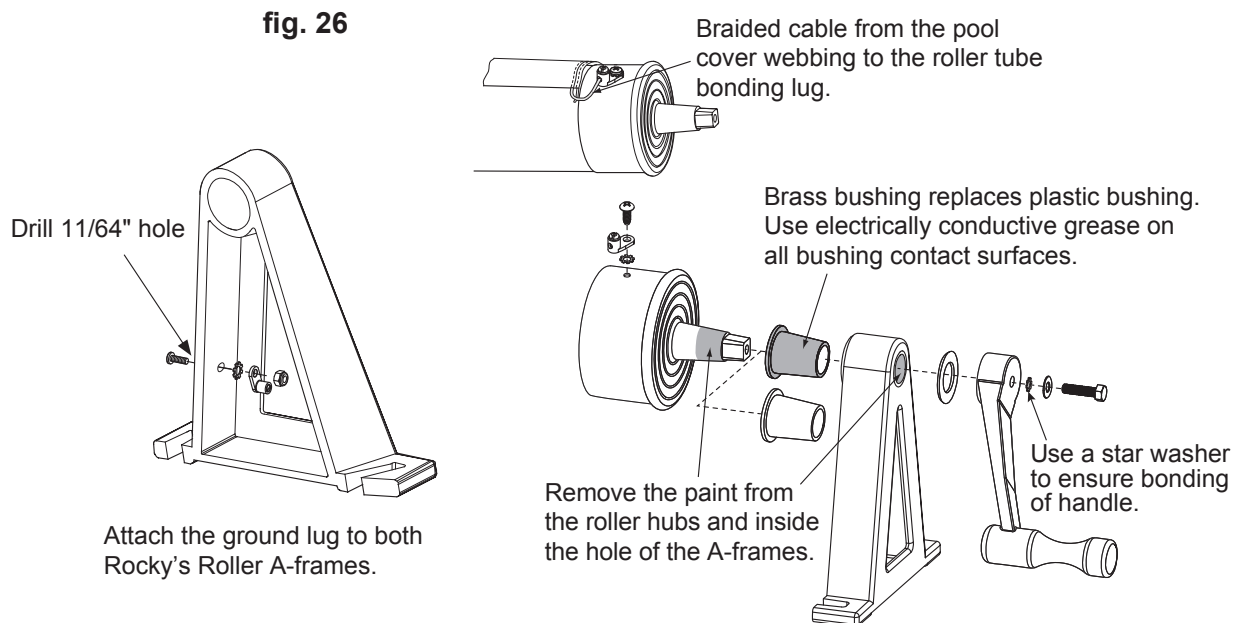


10.2 Connect the bonding lug to the A-frames. (fig. 26)

10.2.1 Connect #8 solid copper wires from the pool-bonding grid to the ground lugs on the A-frames.

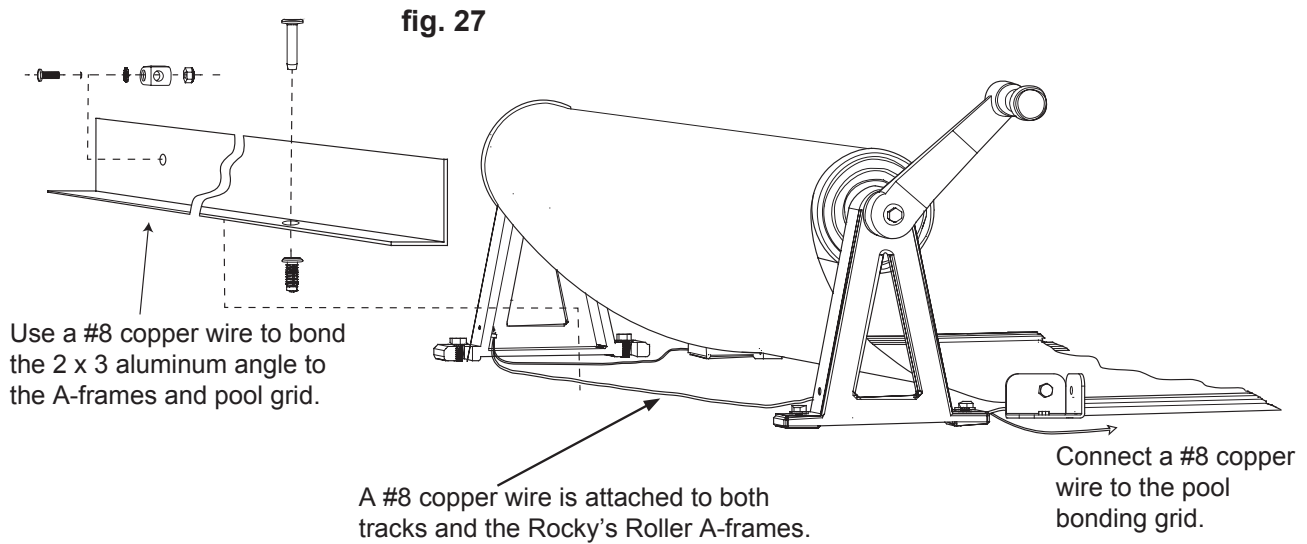
10.3 Replace the plastic bushing with the brass bushing. (fig. 26)

10.3.1 On the roller handle side, remove the paint from roller hubs and inside the hole of the A-frames for bushing conductivity.



10.4 Connect the bonding lug to the aluminum angle. (fig. 27)

- 10.4.1 Connect a #8 solid copper wire from pool-bonding grid to the ground lug on the aluminum angle.



10.5 Connect the bonding lug to the track. (fig. 28)

- 10.5.1 Drill an 11/64" hole 3" from mechanism end of track.
- 10.5.2 Attach the bonding lug to the underside of the track.
- 10.5.3 Connect a #8 solid copper wire from the pool-bonding grid to the bonding lug on the track.

