



NESPA
TILED SPAS

Production Booklet

for

**MARLA'S
SPA**

2800 Richter Ave. Suite C, Oroville, CA 95965 • **voice:** (530)534-9910
fax: (530)534-9915 • **email:** sales@tiledspas.com • **website:** www.tiledspas.com



RECOMMENDED MAINTENANCE

Please Note:

These are only recommended guidelines to care for a Nespa all tiled spa. Local codes may require additional procedures, therefore consult with a pool professional that is LA county Health Department certified for more information on local codes and requirements.

SPA SURFACE

Your spa tile is acid resistant and frost-proof. The Tile does not absorb germs or algae. Tile does not stain and is very easy to clean. Color does not fade or lose its luster. All grouts are epoxy based and are extremely durable. To remove scum line use soft nylon brush and small amounts of biodegradable soaps. Do not use abrasive brushes or chemicals.

MAINTENANCE

A. CHEMICALS:

- 1) It is important to maintain a chlorine residual of 2 PPM in the spa. That residual can be provided by chlorine or bromine.
- 2) It is recommended to use Bromine or dichlor (granular) forms of chlorine. If bromine Tabs are used we suggest floating or inline dispenser.
- 3) Never use acid to lower Ph in the tile spa.
- 4) Never use trichlor chlorine (1" or 3") tablets in the Nespa spas.
- 5) Never place tablets in skimmer basket.

B. DRAINING THE SPA:

- 1) It is recommended to drain the spa at least once every 2 months depending on bath load and water clarity.
- 2) The spa should be drained through valve exiting re-circulation pump in the spa equipment room or sump pump.
- 3) Note: Use caution to drain spa in the winter months or rainy season when water table is at its highest. It is possible for the spa to float due to hydraulic pressure from surrounding water table. We advise that you consult with your local spa specialist prior to draining the spa.

C. SPA EQUIPMENT:

- 1) Clean filter cartridge at least once every month, or when needed; i.e., if water clarity does not improve after several days.
- 2) Keep area free and clear from leaves and debris build-up.
- 3) Keep area free and clear from flooding.

D. SPA LIGHT:

- 1) Spa light has to be on GFCI circuit. It is controlled at spa side with ON/OFF.

E. TILE SERVICING:

- 1) Contact manufacture when servicing tile or grout. @ (530) 534-9910

PLAN APPROVAL DOCUMENTATION

DRAWING REVISION HISTORY

SHEET 1 - SD (Spa Detail)

- REV NOTE: 08-29 Squared steps
- REV NOTE: 09-19 Changed Main Drain
- REV NOTE: 09-23 Revised Cover Box
- REV NOTE: 10-20 Revised Steps and Skids
- REV NOTE: 10-20 Revised Spa size
- REV NOTE: 10-22 Revised Cover Box size
- REV NOTE: 11-03 Revised Seat Height
- REV NOTE: 11-14 Revised Skid Layout

SHEET 2 - Spa Vault

REV NOTE:

SHEET 3 - Tile Detail

REV NOTE:

SHEET 4 - Seat Detail

REV NOTE:

I approve the above drawings _____ Date: _____

Any changes to these plans from here forward shall be directed in writing to Nespa.

SPA FABRICATION AUTHORIZATION

Nespa's engineering and structural manufacturing departments may find it necessary to make slight adjustments (= 1") to your spa.

This may include the size of the spa (OD/ID), tile cuts, depths, jet location, bench steps etc. These adjustments must be made in the primary stages of building the spa. The adjustments are generally made to ad structural and aesthetic integrity to the vessel. IE: balance of supporting gussets (exterior) and less tile cuts/ symmetrical cuts, grout lines, etc. (interior)

Please initial next to the following number that describes your project needs.

- _____ 1. YES, I understand adjustments need to be made. Nespa will use their expertise to make these adjustments as needed. I give them the authority to make changes. I will receive final accurate drawings prior to receipt of spa or spa hole construction (if changes were made to the size)
- _____ 2. NO, No changes can be made even under 1". Dimensions are fixed. More tile cuts may be needed, Structural supports may be altered to accommodate.
- _____ 3. Nespa will need to contact us for any changes to spa dimensions prior to continued spa fabrication.

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DWG NAME

MARLA'S SPA

DWG TYPE

REV

SCALE

N/A

DATE

11/14/2008

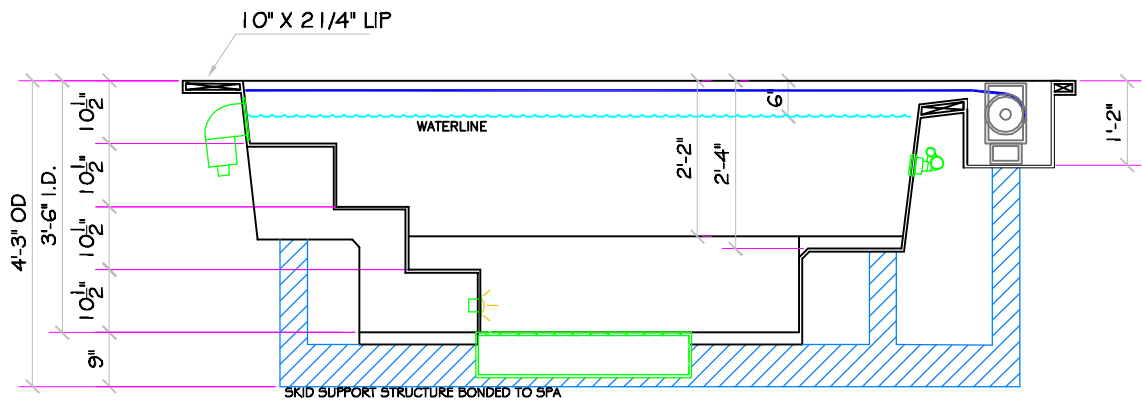
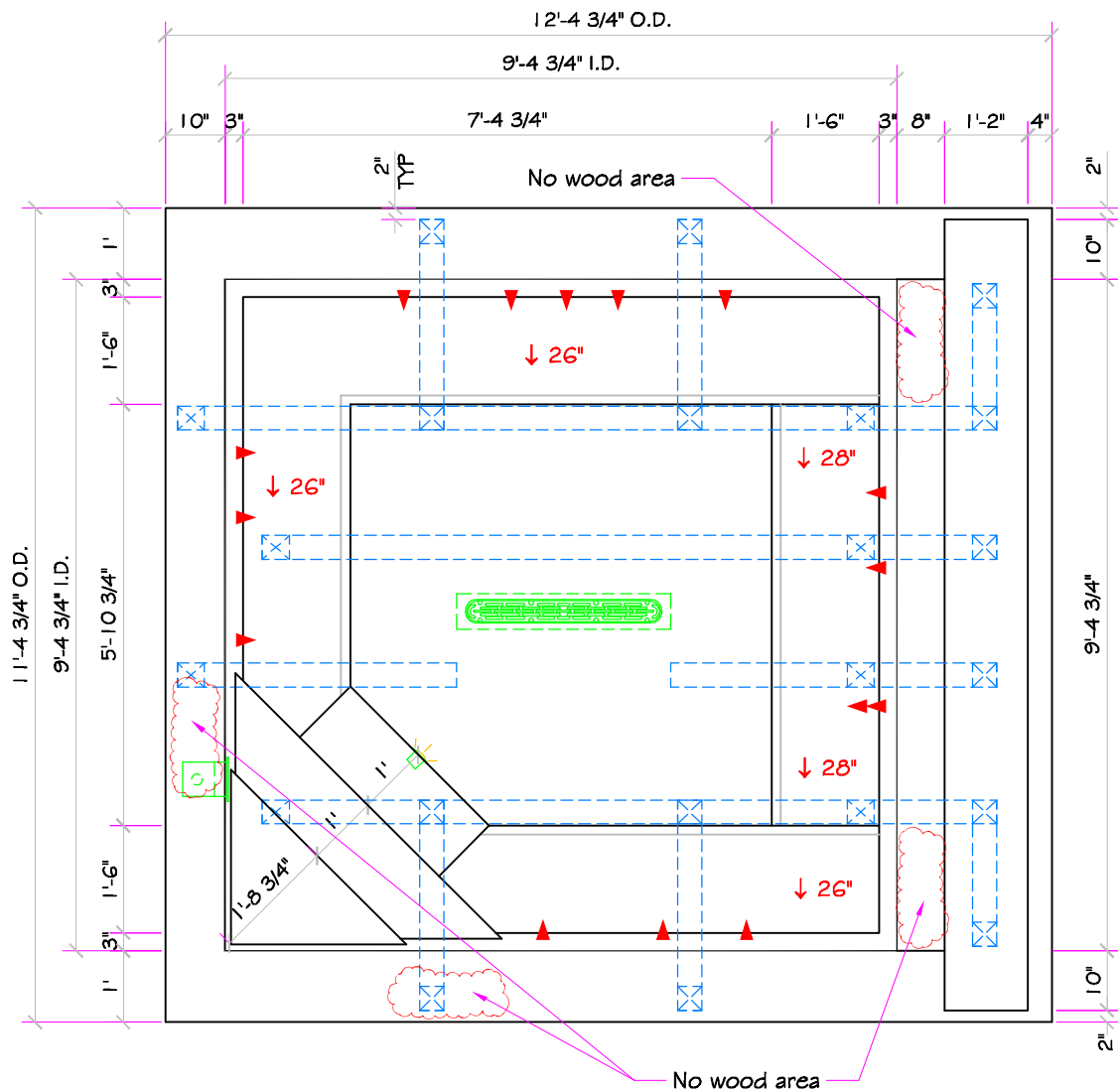
SHEET

Revision History

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SPECIFICATIONS	
DRY WEIGHT:	3500 LBS.
TOTAL WEIGHT:	17469 LBS.
WATER:	1675.5 GAL.
VOLUME:	224 Cu.Ft.
WEIGHT:	13969 LBS.
SURFACE AREA:	88 SQ. FT.
IAPMO#:	1138
FDA#:	2030305

SKID SUPPORT STRUCTURE BONDED TO SPA	
*SKIDS SUPPLIED BY NESPA	
LIGHT NICHE	
	LV LIGHT, 12 VOLT 50 WATT, U.L. APPROVED
SKIMMER	
	FRONT ACCESS SKIMMER, NSF APPROVED
MAIN DRAIN	
	AQUASTAR, 32" Channel Drain, Approved Max Flow Rate: Floor = 318GPM, Wall = 208GPM Meets Or Exceeds Current ASME/ANSI A112.19.8 2007 National Standards
EQUALIZER	
	4" EQUALIZER HydroAir #10-5784 w/ 10-5708 cover 5.0 SQ. IN. OPEN AREA Max Flow 31 GPM @ 2ftps COMPLIES W/ ANSI CODE ASME A112.19.8-07 UL APPROVED
SUCTION	
	5" HIGH FLOW SUCTIONS WATERWAY #840-3850 8.59 SQ. IN. OPEN AREA 208 GPM AT 1.5 FT/SEC COMPLIES W/ ANSI CODE A112.19 UL APPROVED
JET	
	HYDRO INLETS 1-1/2" WATER - 1-1/2" AIR HYDROAIR #10-5100 COMPLIES W/ ANSI CODE ASME A112.19.8-07 UL APPROVED
FILL	
	INLET FITTINGS 1-1/2" WALL TYPE W/ EYEBALL HYDROAIR #10-3500 COMPLIES W/ ANSI CODE ASME A112.19.8-07 UL APPROVED



ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

Jan 20, 2009 - 9:30am

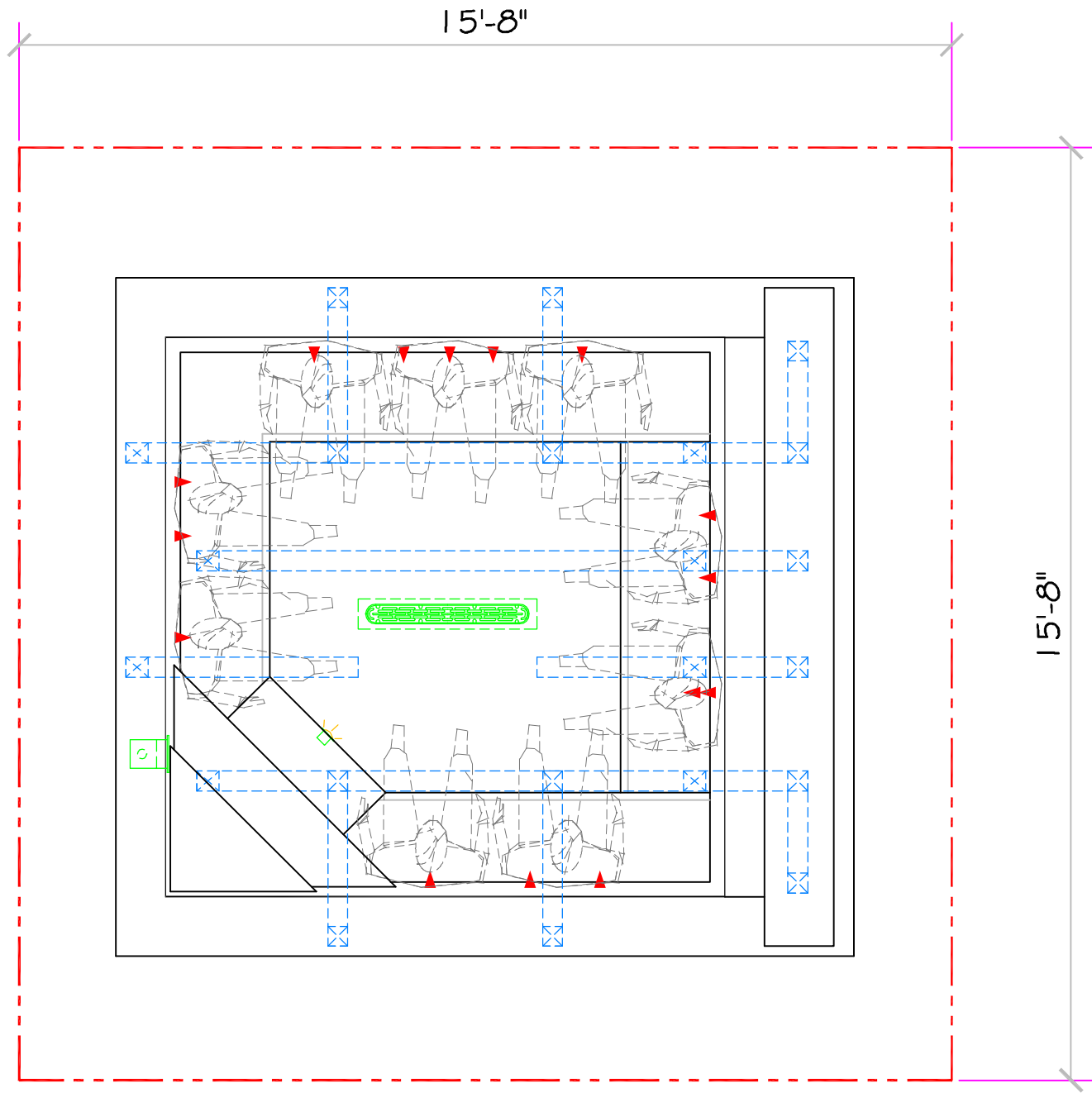
NESPA ENTERPRISES INC.
 2800 Richter Ave. Suite C Oroville, CA 95966
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DWG NAME	MARLA'S SPA	
SCALE	3/8" = 1'	DATE 11/14/2008

DWG TYPE	SD8
SHEET	PAGE 1 OF 4

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SCALE 3/8" = 1'

PLOT TIME Jan 20, 2009 - 9:30am

DWG NAME MARLA'S SPA

DWG TYPE Spa Vault

#1 - FIELD TILE: National Pool Tile RX3043 Sakura 6x6
 #2 - WATERLINE (optional): _____
 #3 - BENCH & STEP EDGES (optional): _____
 #4 - TILED LIP (optional): National Pool Tile RX3043 Sakura 6x6

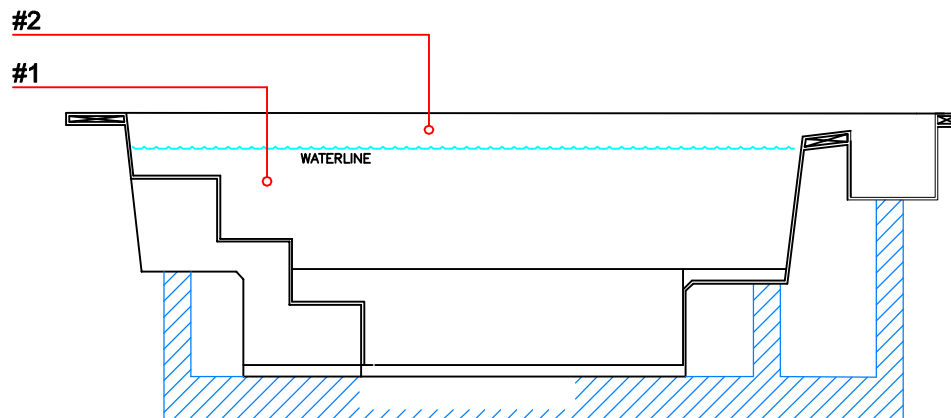
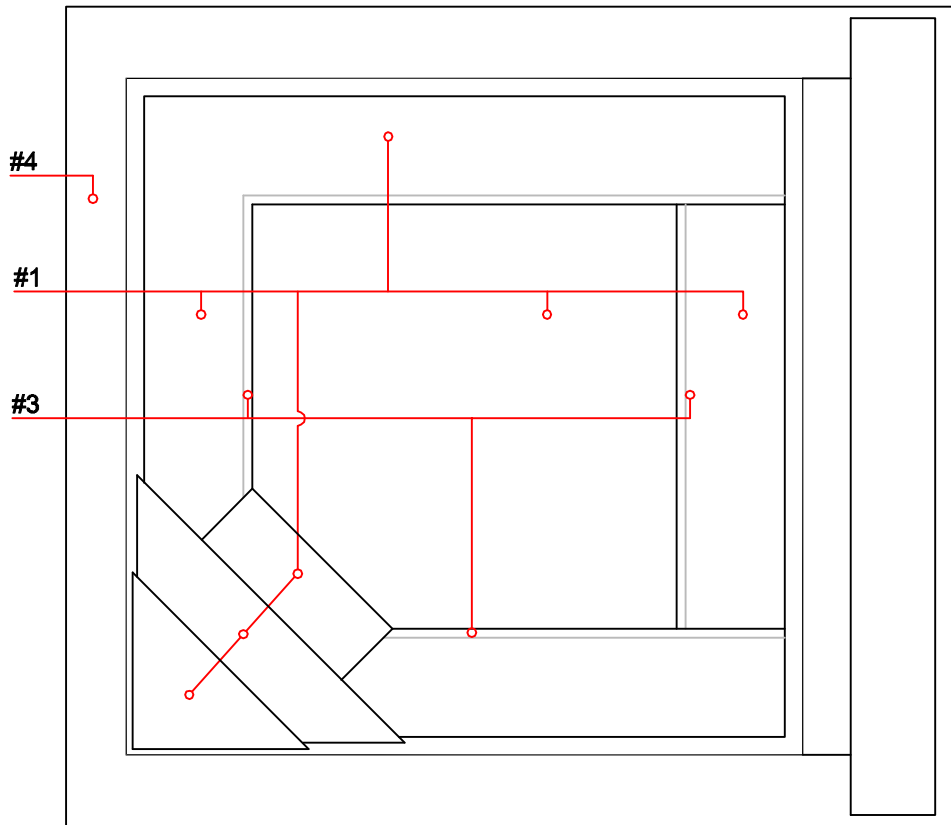
Date: _____

Approval: _____

#1 - GROUT: _____

#2 - GROUT: _____

#3 - GROUT: _____



ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

Jan 20, 2009 - 9:30am

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DWG NAME

MARLA'S SPA

DWG TYPE

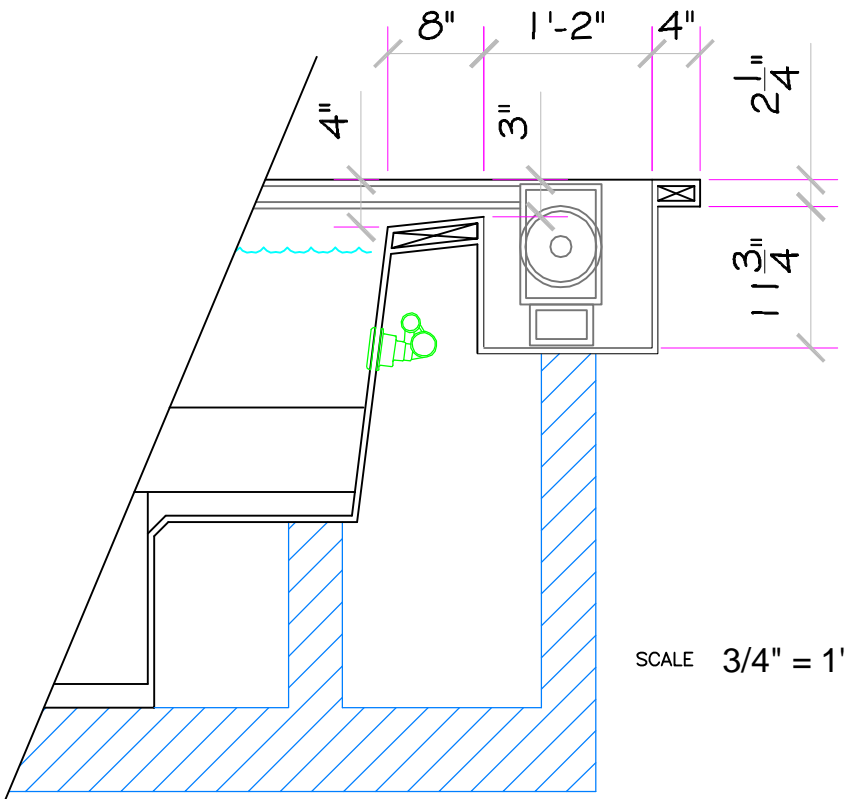
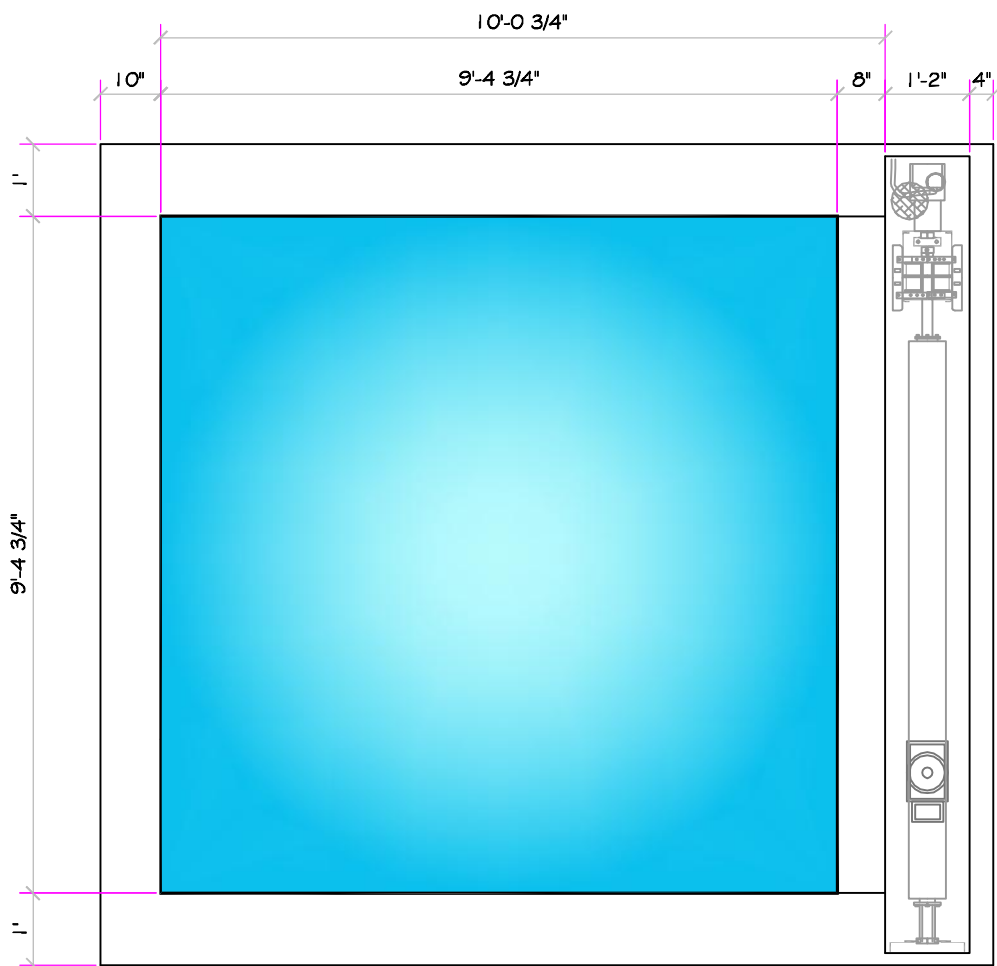
Tile

SCALE 3/8" = 1'

DATE 10/22/2008

SHEET PAGE 3 OF 4

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SCALE 3/4" = 1'

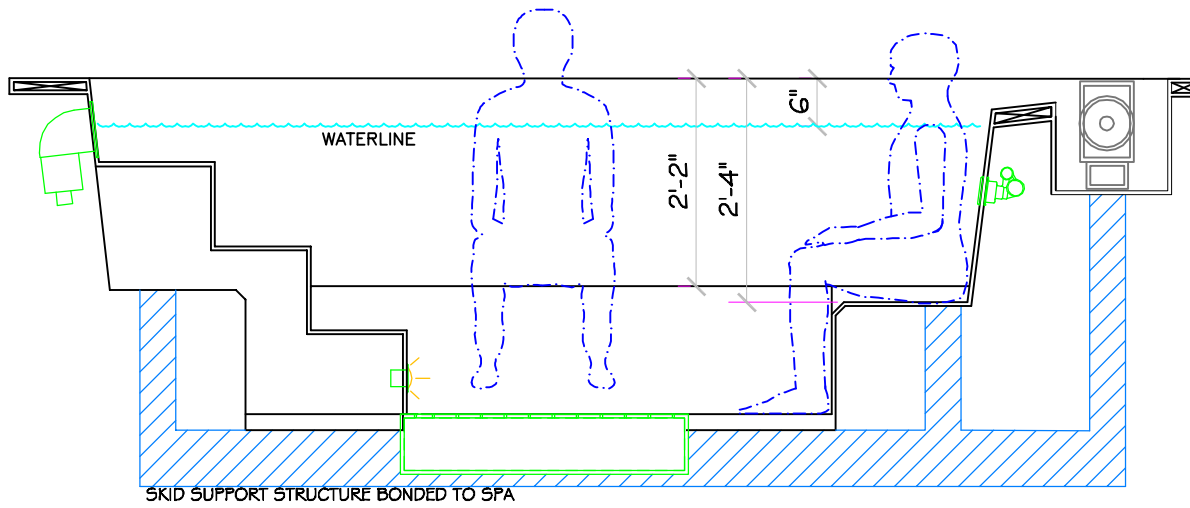
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PLOT TIME Jan 20, 2009 - 9:30am

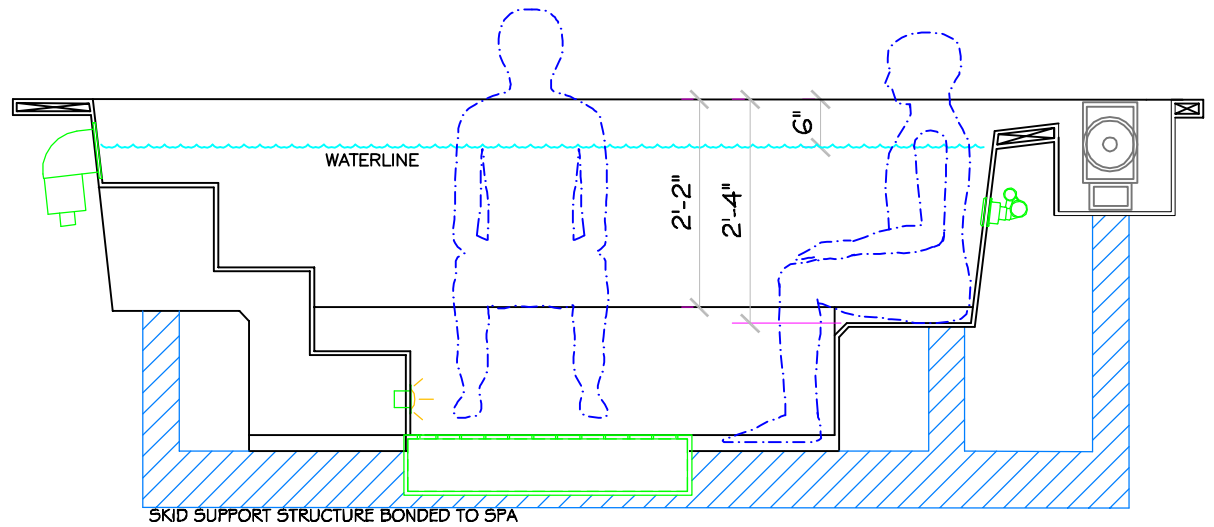
DWG NAME MARLA'S SPA

DWG TYPE Cover

5' -4" Person



5' -8" Person



SCALE 1/2" = 1'

PLOT TIME Jan 20, 2009 - 9:30am

DWG NAME MARLA'S SPA

DWG TYPE Seat Heights

STANDARD NESPA IN-GROUND INSTALLATION *INSTRUCTIONS* **SET-UP AND EXCAVATION**

Prerequisites: Before installing your Nespa spa. You may be required to acquire a permit from your local State, County, and City building dept and or Health department. (Commercial jobs need Health Dept. Approval). Your spa installation must comply with the most current codes. (**Uniform Swimming Pool, Spas & Hot Tub Code 2006 (USPC 2006)**).

Spa drawings: Request from Nespa a current spa specific construction detail, plan and section, spa plumbing detail.

Delivery Access: Clearly determine the method of getting the spa to jobsite and into the hole. This may require the use of a crane, forklift, hoist, backhoe and/or manpower etc.

- 1) The following instructions are general guidelines and may not apply to your specific jobsite conditions. When excavating for your spa remember to provide for plumbing and light connection clearances. In order to determine how to excavate for your spa or swim spa, measure spas outside dimension (O.D.) and add minimum 3" to all sides. This 3" clearance is to accommodate jet and suction plumbing. This 3" clearance can change or be reduced upon request. Note: skimmer location, this area may have to be larger than 3", if commercial 22".
- 2) **Freeze Climates-** If the spa is placed into a vault (typical of freeze climates) a standard 18" or more of clearance minimum from spa perimeter should be provided. This dead air space is for possible future access to spa plumbing in case of a freeze. Area drain is mandatory. **Ask your local installer** for his experienced opinion. Do not hesitate to call us because we want to be sure that your installation progresses as smoothly as possible. If you have questions call us. (888) 479-4677.
- 2) **Hole depth** is determined by spa's outside height dimension. This height may vary depending if spa has skids or no skids. The spa lip may be finished or non-finished. How is the perimeter deck elevation transitioning to the spa? Focus on the finish surrounding deck elevations, thickness of the finish material on spa upper horizontal lip, equal to lip or under the spa lip. This material can be tile, stone, concrete or brick.
- 3) **Preplumb** the spa before it goes into the hole. If there are needs for electrical, bonding or control conduits run them as well before dropping in hole. Connect bond wire to niche would be best.
- 4) **Spa should sit on level 3 ½" thick reinforced concrete pad. Sweep debris off pad prior to dropping in hole.**
- 5) **Install spa** into the hole on top of concrete pad. Use the Eye bolts provided for crane, forklift etc. rigging. Do not hold onto pipes. Use caution with suction and jet plumbing when lowering into hole. **DO NOT STRESS FITTINGS!** Fill Spa with water and check for leaks prior to backfill.

- 6) **Check site reference** points for proper spa positioning (i.e., squaring to house, garage, etc.).
- 7) **Shim to level spa.** Shim with non-compression able material. Re square to house, or ref. point.
- 8) **Dry pack** with cement the gaps that have been created when shimming spa level.
- 9) **Connect pipes to tees** if spa is preplumb. Installers properly support your new plumbing from stressing spas preplumb fittings. After electrical conduit and bond wire is connected to light niche, water test spa before back filling with sand.
NOTE: All Nespa products are water tested prior to leaving factory.

ELECTRICAL:

- 1) All electrical connections to spa or equipment should comply with the most recent national electrical code (NEC), state and local codes.
- 2) Connect electrical conduit to light niche. This work should be done or reviewed by a licensed electrician.
- 3) To install spa light you will need to include inside the PVC conduit to the light niche a solid #8 coated copper wire. (If you are use brass conduit, internal bond wire is not required.) This bond wire should be pulled with the light cord at the same time. This bond wire needs to be attached to the internal bonding lug of the light niche. An approved encapsulate should be applied to bond wire connection in niche.
- 4) An external #8 copper wire shall be connected to the external bonding lug on the rear of the light niche. This copper wire can then be used for additional bonding requirements (i.e., handrails or any other metallic object within 5' of the spa.

PLUMBING:

- 1) **When plumbing a Nespa it is important to properly size the plumbing. We highly recommend that you follow the pump manufacturer's pipe sizing requirements and Uniform Swimming Pool, Spas & Hot Tub Code 2006 (USPC 2006). This code book is available at www.IAPMO.org or (909) 472 4100.**
- 2) The jet air venturi should be a Hartford loop design adjacent to spa shell and air entry point can be located next to spa or remotely at equipment.
- 3) Fill spa with water and test the system for leaks PRIOR to backfilling with sand.

SAND BACK FILL:

- 1) **With water in spa, back-fill around spa perimeter with dry plaster sand and wet wash with hydraulic attachment to hose. Let set for one hour and hydraulic dry again. Be sure water level in spa is at the highest level. Any questions please call us. (888) 479-4677.**
- 2) **If spa is free standing on elevated deck or a structure, it is important to fill spa with water and load area prior to installing coping or perimeter decking. If spa is installed in a vault situation a area drain is needed.**

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IN-GROUND

INSTALLATION

ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

SCALE: 1/2" = 1'-0"

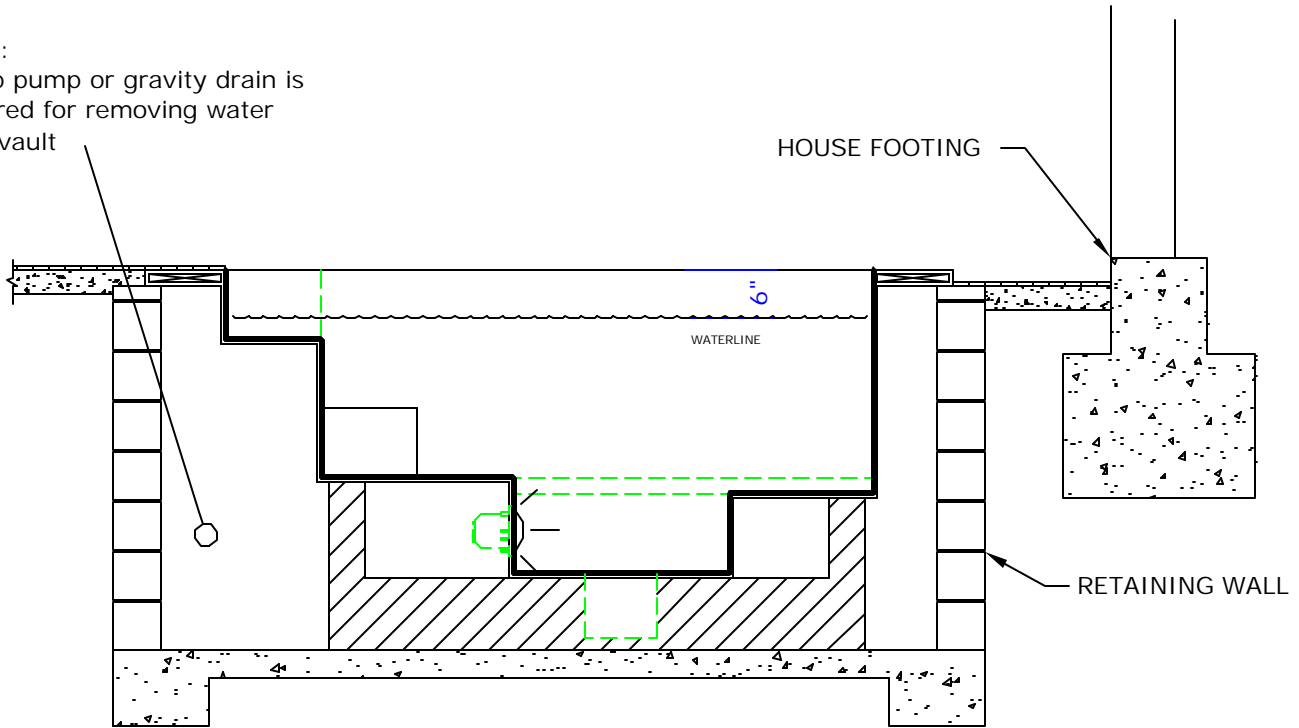
DATE: 3/27/02

JOB : STANDARD INSTALL

DW #: SI-1, SI-2

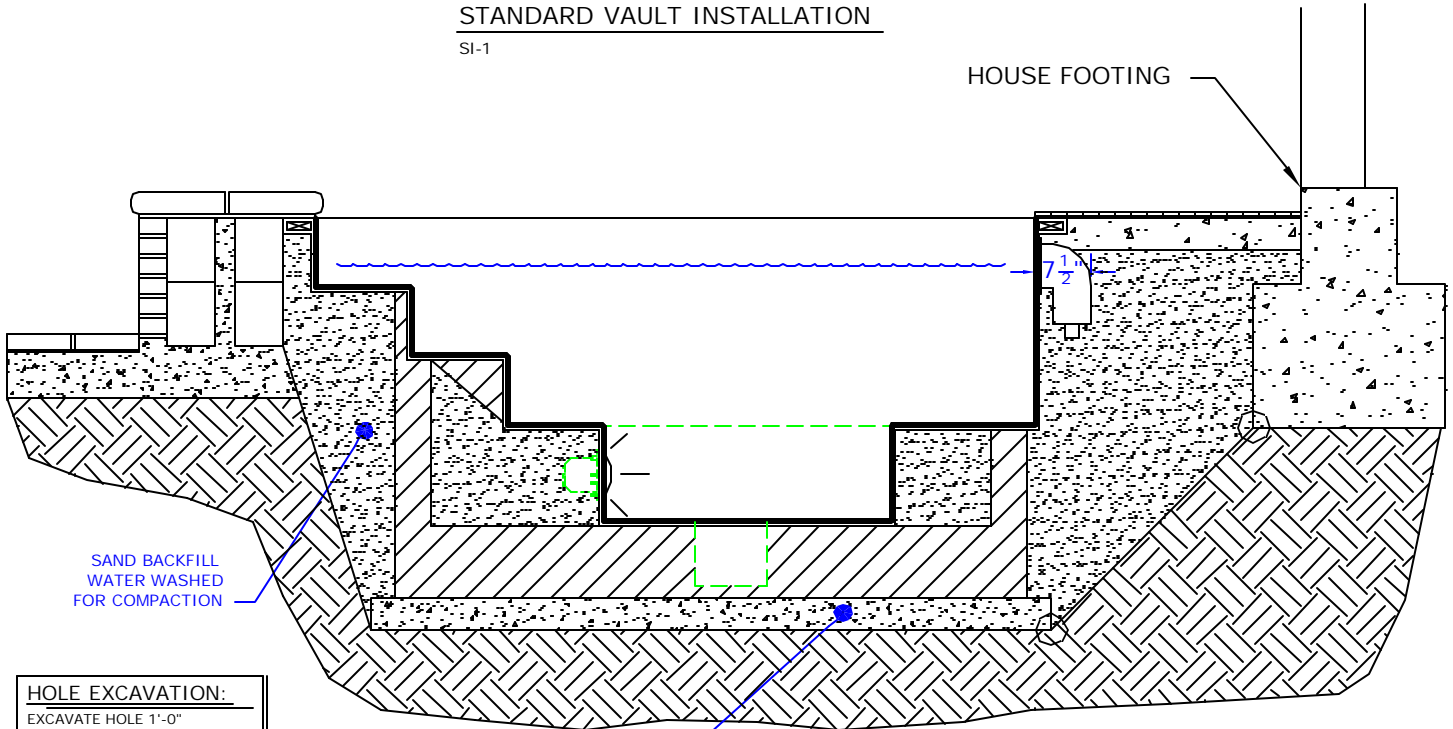
NOTE:

Sump pump or gravity drain is required for removing water from vault



STANDARD VAULT INSTALLATION

SI-1



SAND BACKFILL
WATER WASHED
FOR COMPACTION

HOLE EXCAVATION:

EXCAVATE HOLE 1'-0"
LARGER THAN THE OUTSIDE
DIAMETER (OD) OF SPA

4" CONCRETE SLAB
REINFORCED WITH
#10 MESH

STANDARD INGROUND INSTALLATION

SI-2

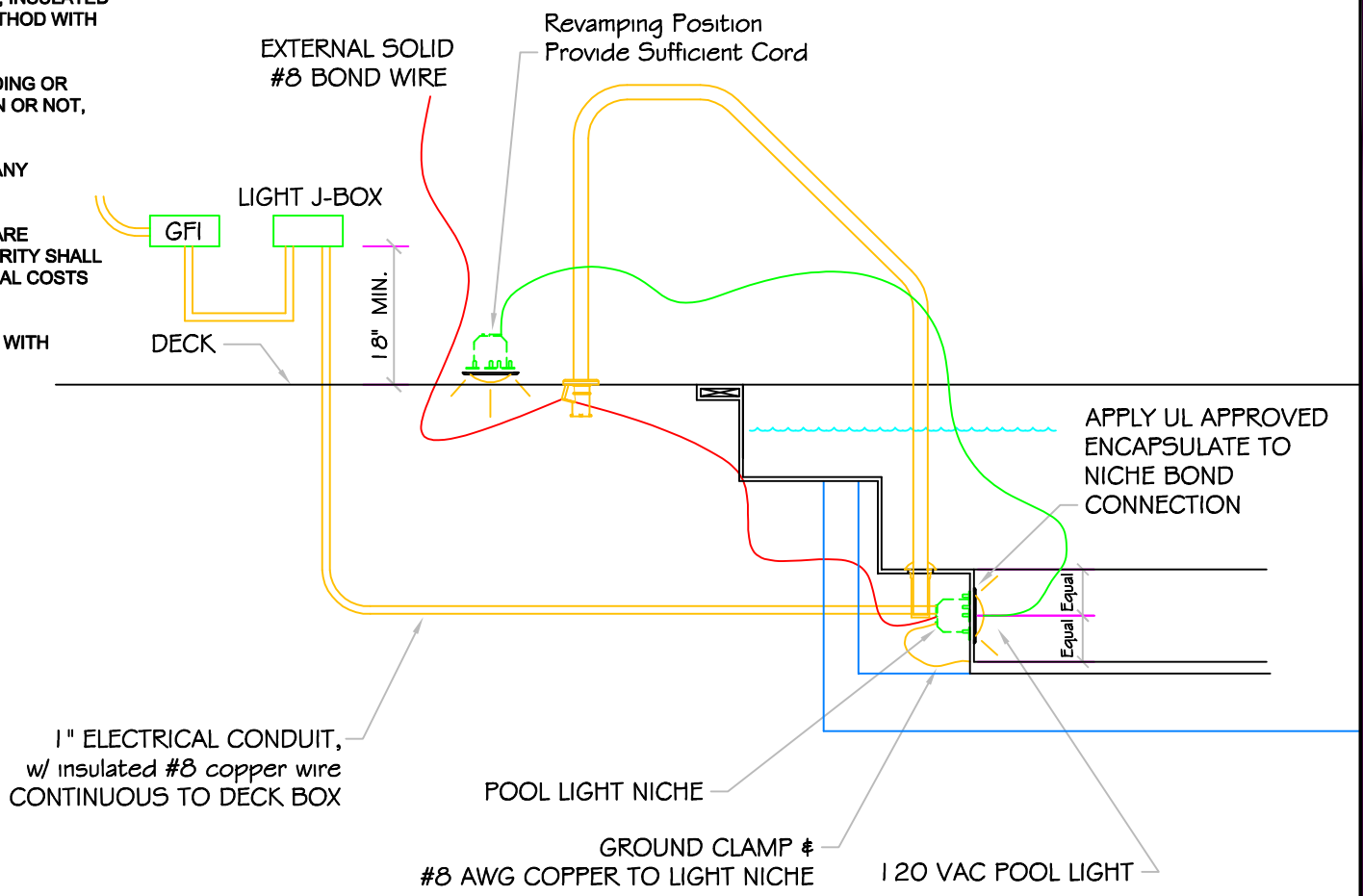
NOTE:

Footing can not surcharge spa.
Slope from bottom of slab to
nearest corner of house footing
must not exceed 1" = 1".

POOL BONDING REQUIREMENTS:

1. THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE COMMON BONDING GRID.
 - A. ALL THE METALLIC PARTS OF THE POOL STRUCTURE INCLUDING COPING STONES, DECK, PERMANENT PLAY STRUCTURES, PERMANENT EXERCISE STRUCTURES.
 - B. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE
 - C. METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM, INCLUDING PUMPS, FILTERS, AND HEATERS.
 - D. METAL PARTS ASSOCIATED WITH POOL COVERS
 - E. METAL SHEATHED CABLES AND RACEWAYS, METAL PIPING AND ALL FIXED METAL PARTS WITHIN 5 FEET HORIZONTALLY OF INSIDE WALLS OF POOL AND WITHIN 12 FEET ABOVE MAXIMUM WATER LEVEL OF POOL.
 - F. METAL PARTS ASSOCIATED WITH OBSERVATION STANDS, TOWERS, PLATFORMS, AND DIVING STRUCTURES.
2. BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID COPPER, INSULATED E.C. SHALL COORDINATE APPROVED CONNECTOR TYPE AND METHOD WITH LOCAL ELECTRICAL AND/ OR POOL INSPECTOR.
3. SPECIFIC MANUFACTURER'S INSTRUCTIONS REGARDING BONDING OR GROUNDING OF POOL EQUIPMENT, WHETHER INDICATED HEREIN OR NOT, SHALL BE STRICTLY FOLLOWED.
4. THE COMMON BONDING GRID SHALL NOT BE CONNECTED TO ANY ELECTRICAL DISTRIBUTION EQUIPMENT.
5. ANY PARTS IN ADDITION TO THOSE DESCRIBED HEREIN THAT ARE INDICATED BY POOL CONTRACTOR OR LOCAL INSPECTION AUTHORITY SHALL BE BONDED TO THE COMMON BONDING GRID WITH NO ADDITIONAL COSTS INCURRED BY THE OWNER.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH GENERAL CONTRACTOR.

LIGHT DETAIL



ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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SIZE A	DWG NAME DETAILS	DWG TYPE Detail
SCALE 1/2" = 1'	DATE 7/24/2008	SHEET PAGE 1 OF 1

NESPA ENTERPRISES, Inc. LIMITED WARRANTY

This LIMITED WARRANTY covering NESPA products is extended to the ORIGINAL PURCHASER-USER BY NESPA ENTERPRISES Inc.(NESPA), 2800 Richter Ave. Unit C California 95966.

NESPA products are thoroughly inspected and tested prior to factory shipment. NESPA warrants to the ORIGINAL PURCHASER-USER that NESPA Spas and Swim Spas will be free of defect in workmanship, accessories and parts, provided said accessories and parts were manufactured by NESPA. NESPA, under this LIMITED WARRANTY, warrants only that its Spas and Swim Spas shall be structurally sound, shall retain their shape, and shall retain water for the warranty period. NESPA warrants the adhesion of tile to fiberglass for a period of three (3) years and structural soundness for ten (10) years. NESPA warrants epoxy grout adhesion for a period of three years. If any such defects appear and are reported within the warranty period, NESPA shall repair or replace such defective parts without charge if an inspection proves the claim.

The provisions of the LIMITED WARRANTY shall not apply to tile cracked, split, chipped or damaged after the product has left the factory, nor damage to tile caused by freezing nor to damage, defect, malfunction or failure to conform with the above warranty provisions where the damage, defect, malfunction or failure to conform was caused during shipment or by distributor or by unreasonable use by ORIGINAL PURCHASER-USER including improper water balance and improper sand pack or support.

This LIMITED WARRANTY shall not apply to any plumbing, equipment, or installation of spas and Swim Spas and shall not apply to any alterations made to or upon NESPA products except alterations made by NESPA employees or NESPA authorized representatives.

This LIMITED WARRANTY is expressly in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for use and all other obligations or liabilities on NESPA'S part, and NESPA neither assumes nor authorizes any other person to assume for NESPA any other liability in connection with the sale of this NESPA product. This LIMITED WARRANTY shall not apply to this NESPA product or any part thereof which has been subject to accident, negligence, alteration, abuse or misuse. NESPA makes no warranty whatsoever with respect to accessories or parts not manufactured by NESPA.

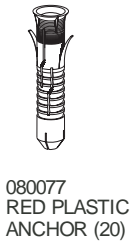
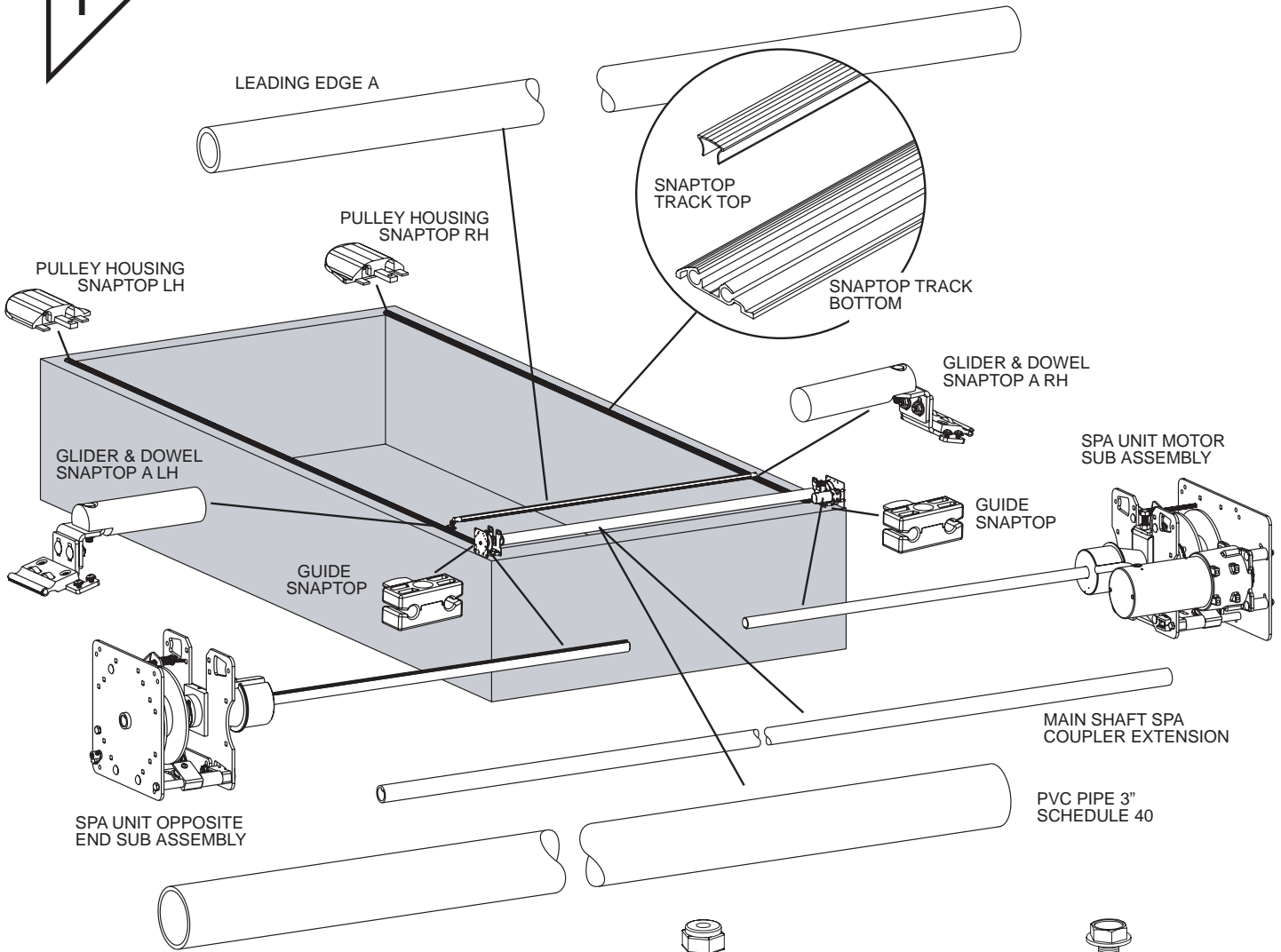
The term "ORIGINAL PURCHASER-USER" as used in this LIMITED WARRANTY shall be deemed to mean that person for whom the NESPA product is originally installed.

The LIMITED WARRANTY provided herein and the obligations and liabilities of NESPA hereunder are exclusive and are in lieu of, and buyer and original PURCHASE-USER hereby waive all other remedies, warranties, guarantees or liabilities, expressed or implied, arising by law or otherwise (including without limitation and obligations of NESPA with respect to fitness, merchantability, and consequential damages) or whether or not occasioned by NESPA'S negligence.

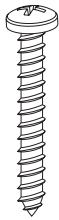
This LIMITED WARRANTY shall not be extended, altered or varied except by a written instrument signed by NESPA and original PURCHASER-USER.

Installation Instructions
Autosave™ Spa Cover and SnapTop™ Track

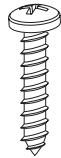
1 SnapTop™ Track and Spa Cover Parts



080077
RED PLASTIC
ANCHOR (20)



080083
SCREW
#12 X 1 1/2 (20)



080308
SCREW
#12 X 1 (8)



080090
SCREW
#8 X 3/4 (3)



080081
SCREW
#10 X 1/2 (7)



080257
BOLT 1/4-20
3/8 (2)



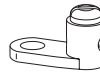
080140
SCREW
8-32 X 1/2 (1)



080068
NYLOCK NUT
8-32 (1)



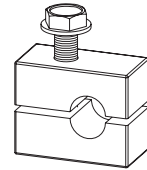
080141
STAR WASHER
#8 EXTERNAL (1)



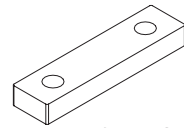
080050
GROUND LUG CP-8 (1)



190225
ROPE STOP
KIT (1)



190036
WEBBING STOP
BLOCK KIT (1)



BONDING
SPLICE

2

Track Installation

CRITICAL INSTRUCTION

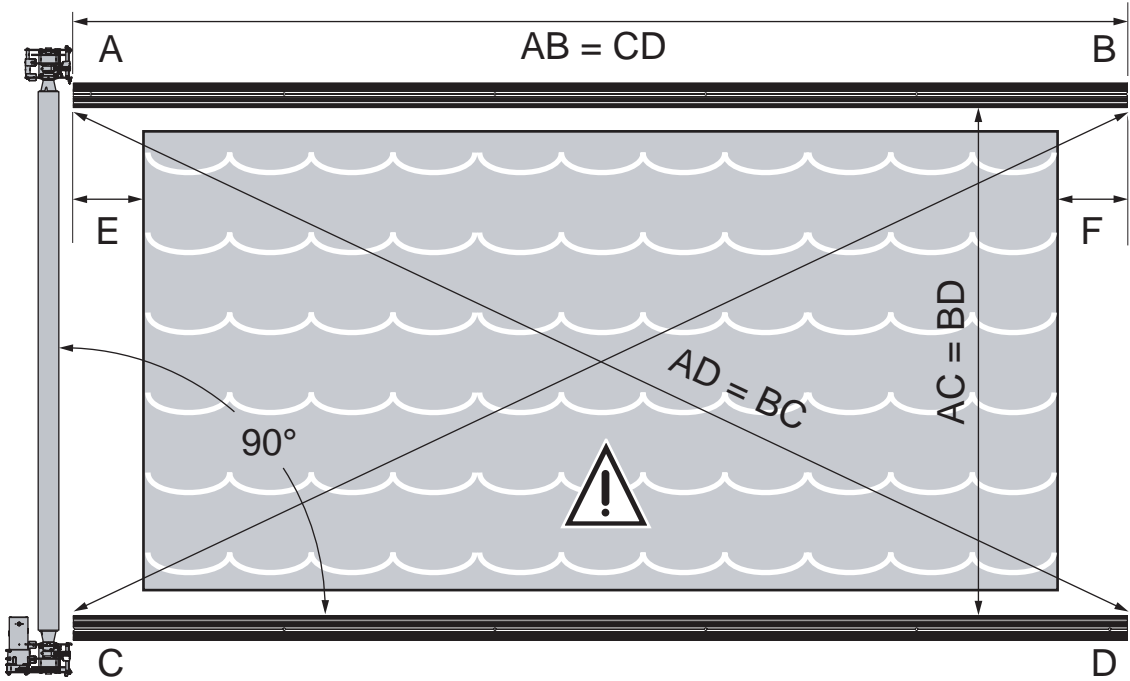


fig. 1

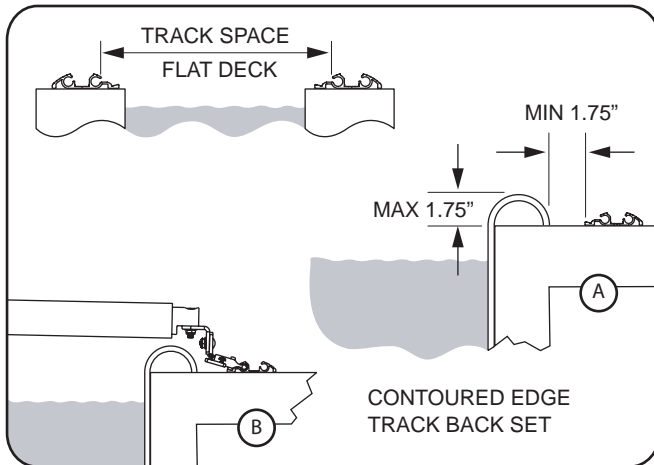
2. Lay Out & Install SnapTop™ Track

2.1. Track Layout

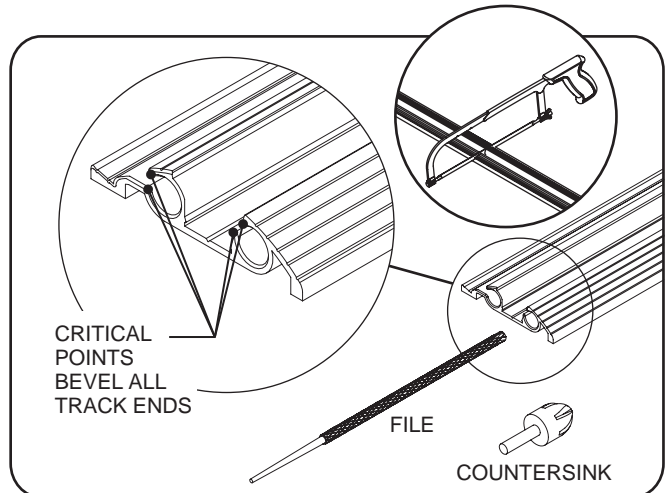
Lay out track according to the specifications shown above. (fig. 1)

E = 6" minimum

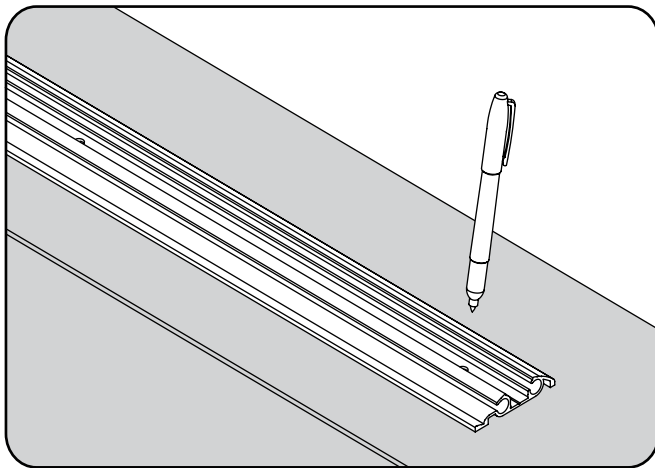
F = 6" minimum



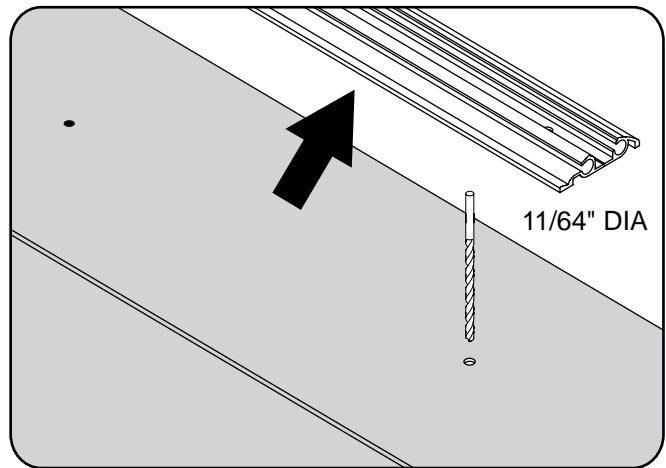
Note: For spas with contours that rise up to 1¾" above the deck, the track must be set back a minimum of 1¾". (A) For contours greater than 1¾", attach a glider to the track and set the track back so as to provide ½" clearance between the contour feature and the glider. (B)



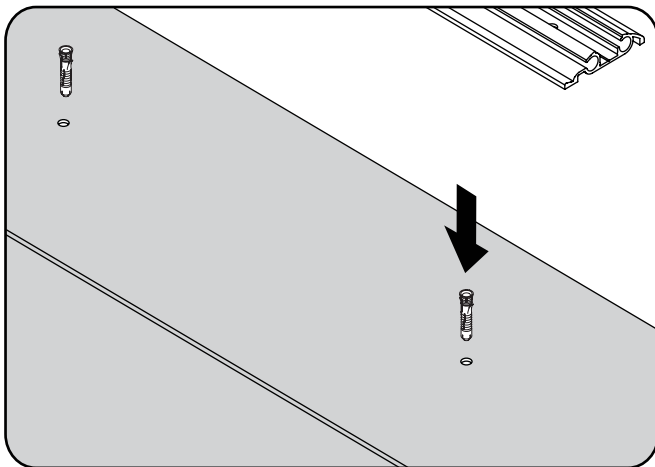
2.2 Cut excess track off squarely at the mechanism end. De-burr all sharp edges from the tracks, especially the pool side of the rope channel. Use a file or countersink on all track ends to de-burr and bevel them.



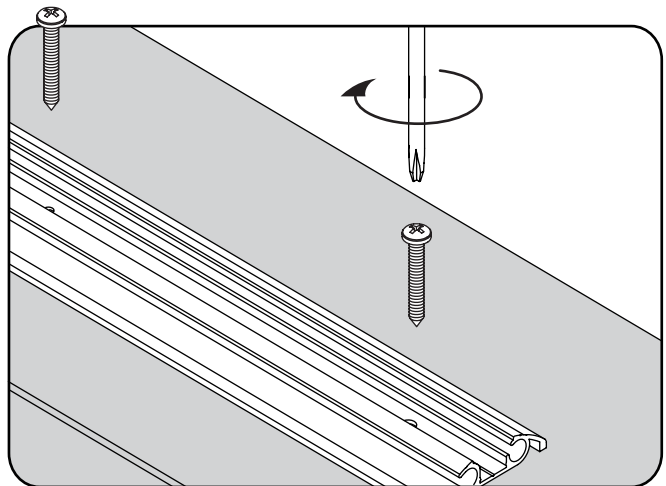
2.3 Position SnapTop track bottom and mark the hole alignment.



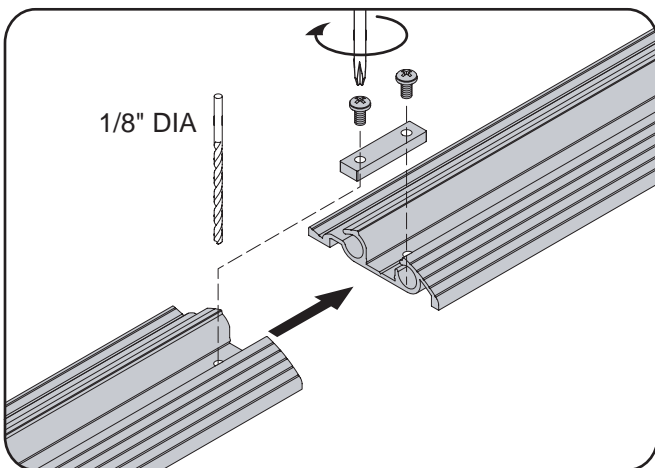
2.4 Remove the track and drill 1 1/64" holes where the marks are located.



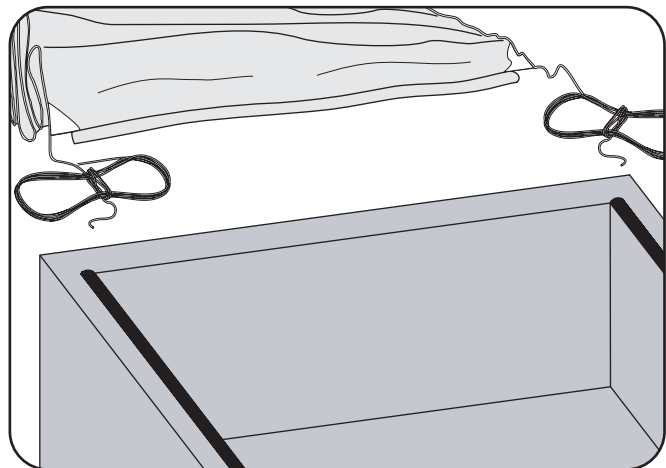
2.5 Insert red plastic anchors into drilled holes.



2.6 Replace the track and screw track securely to the deck with 080083 #12 x 1 1/2 screws.

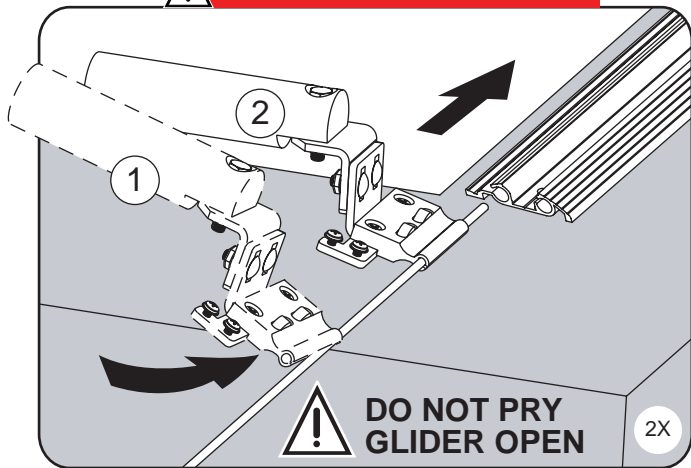


2.7 All track joints require bonding splices. Use the splice as a template to mark hole locations as in 2.3 above. Drill 1/8" diameter holes and secure the splice using two 080303 #8-32 X 5/16 Tap-Tite screws.

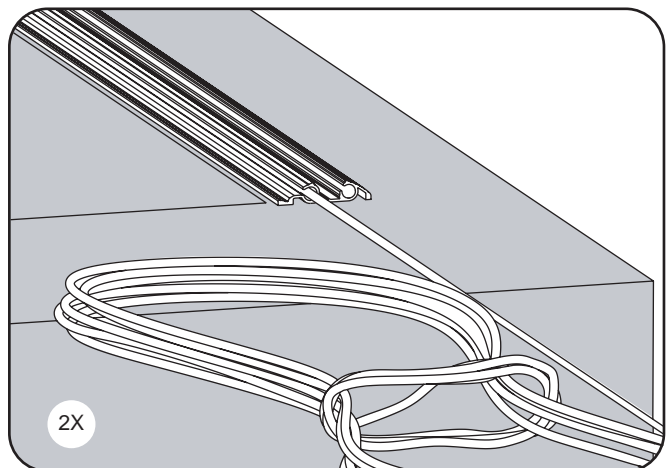


2.8 Lay out the fabric behind the spa at the mechanism end with the front top of the cover facing the pool. **Note: The top surface of the cover is smoother than the bottom surface. The long end of the ropes are at the front.**

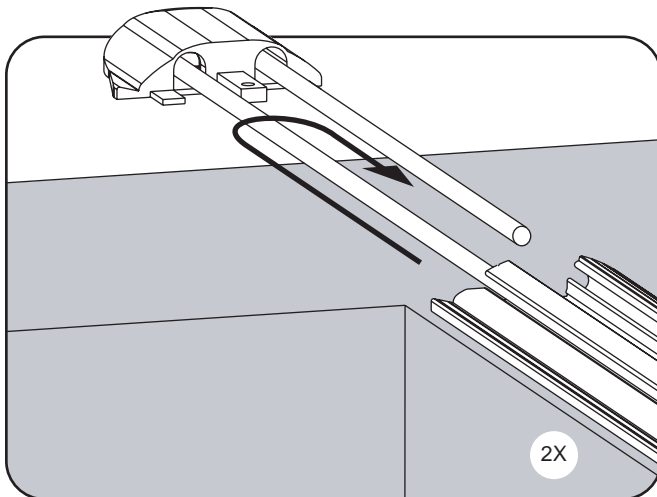
CRITICAL INSTRUCTION



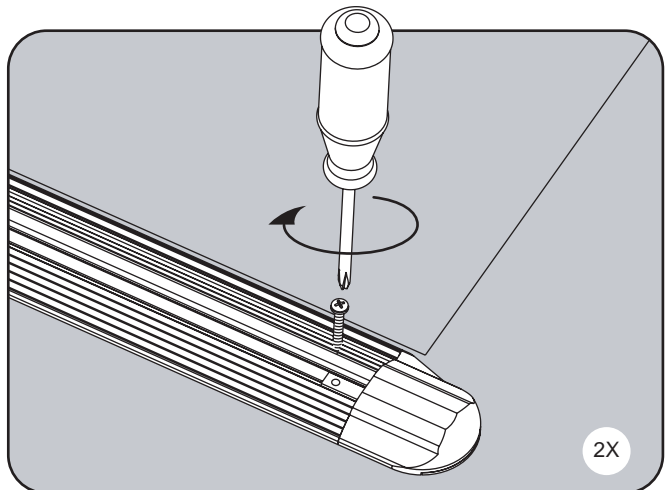
2.9 Attach the gliders to the ropes and slide the gliders into the tracks and leave them for for later use.



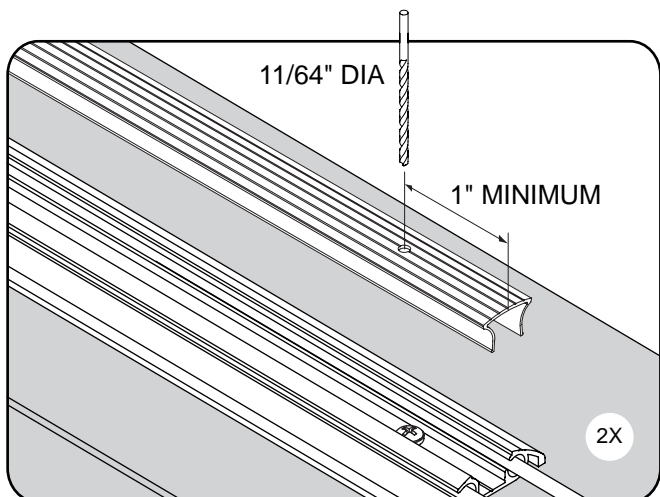
2.10 Continue to thread the rope through the inside track channel on each side of the spa. Leave the fabric back out of the way.



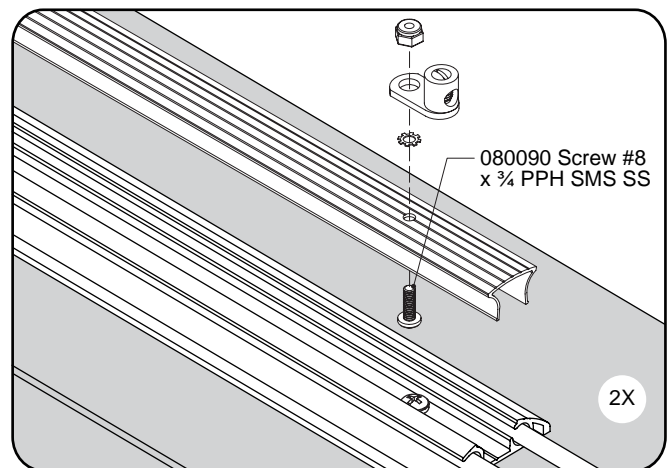
2.11 At the opposite end, run the ropes through each pulley assembly and back through the outside track channel. Run the rope back and beyond the mechanism end.



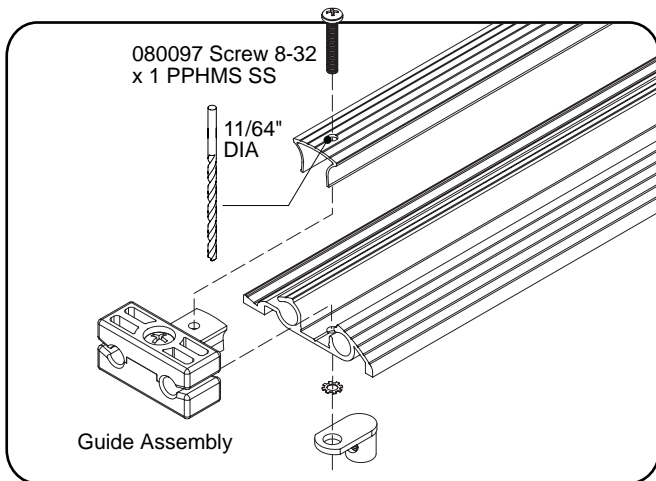
2.12 Slide the pulley into place on each side and secure using 080090 #8 x 3/4 screws. **Tip: Pull the ropes at the mechanism end to pull the assembly tight against the tracks.**



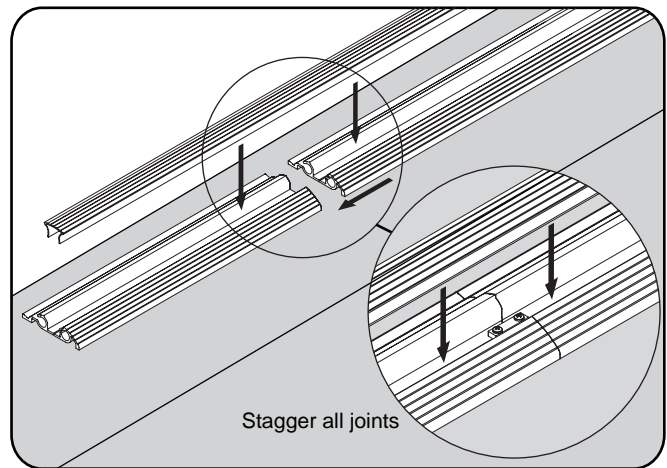
2.13 Drill 11/64" diameter holes on each motor end of the SnapTop track top.



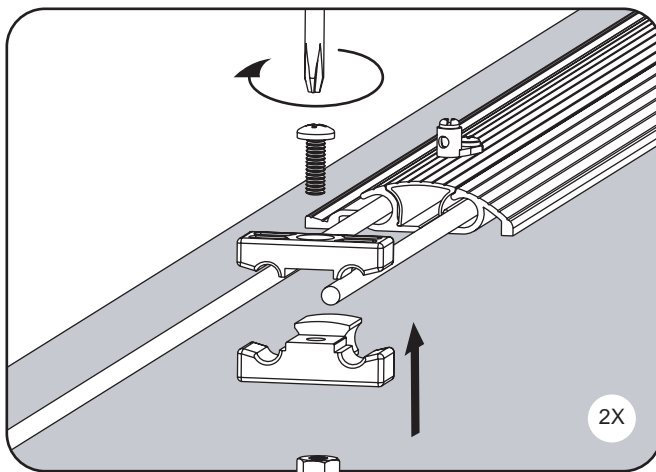
2.14 Fasten grounding lug to SnapTop track top using a 080090 #8 x 3/4 screw and connect a #8 solid copper wire from the bonding lug to the pool-bonding grid.



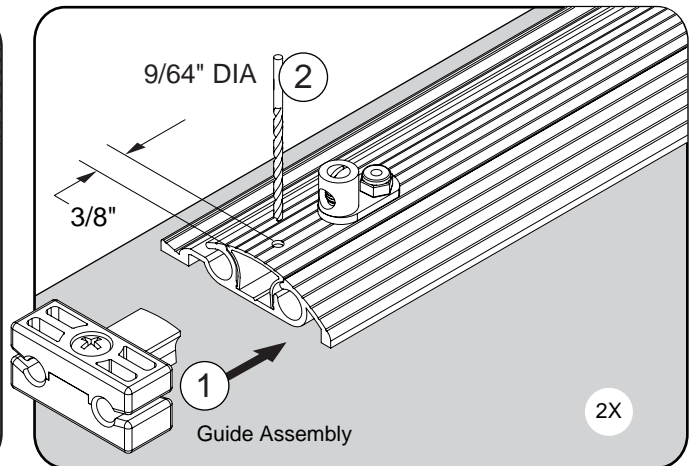
Optional Mounting Location: In locations utilizing a recessed mechanism box, the bonding lug may be installed on the underside of the track through the guide assembly as shown.



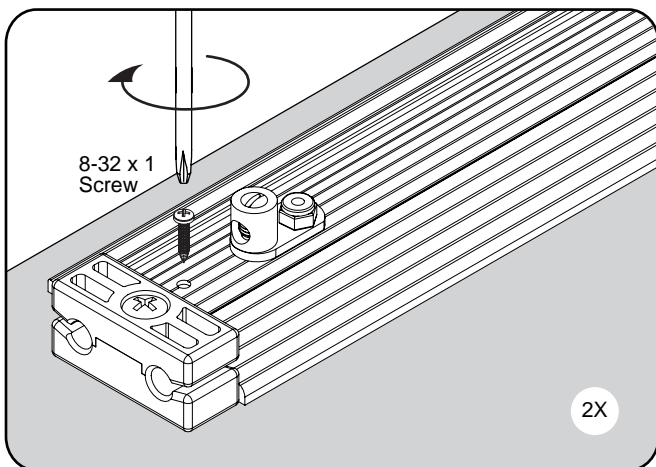
2.15 Install the SnapTop top by pressing down until it snaps into place. Be sure to stagger all joints of the track and the top.



2.16 Assemble guide assemblies over the rope with the stems toward the track.



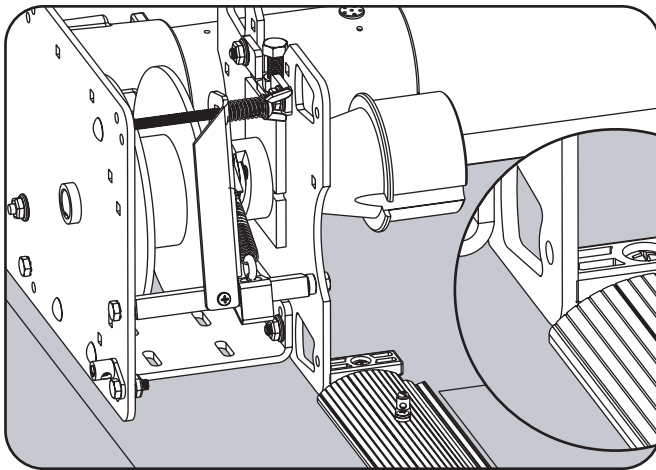
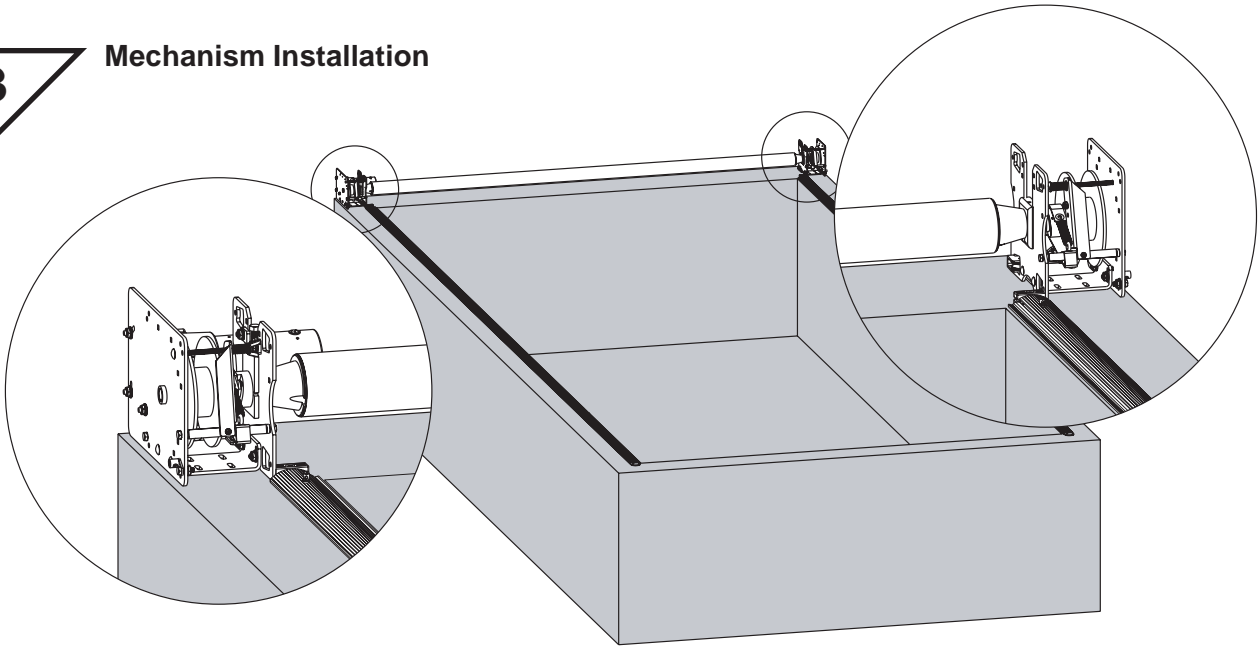
2.17 Insert the guide assembly into the SnapTop track. Drill a 9/64" diameter hole 3/8" back from the junction through the SnapTop track top and into the stem of the guide assembly. **Note: Ropes removed for clarity.**



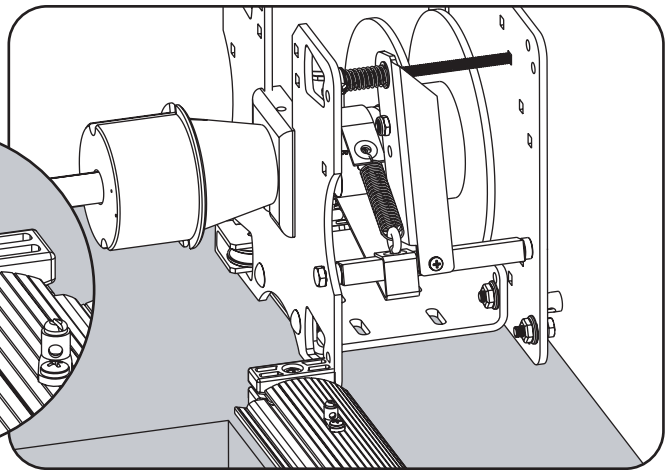
2.18 Secure the guide assembly using a 080090 Screw #8 x 3/4 PPH SMS SS.

Note:

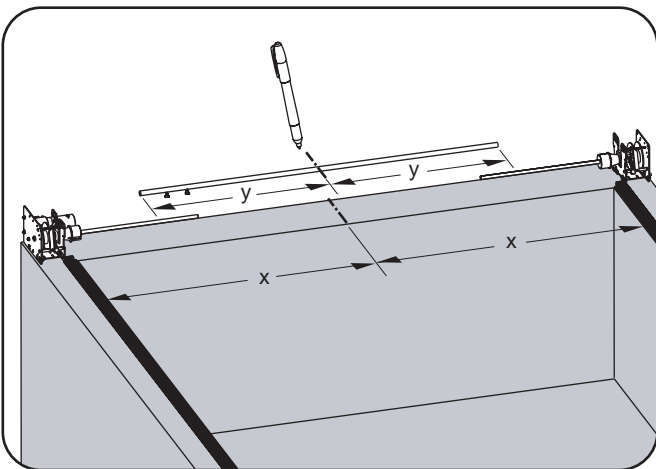
For clarity, the ropes and fabric have been removed from the illustrations in the next section.

3**Mechanism Installation**

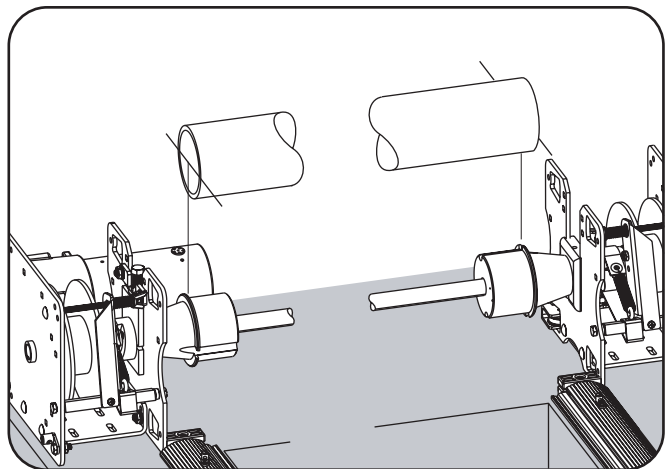
3.1 Set motor assembly in place with the inside mounting plate flush with guide assembly and butted up against the track.



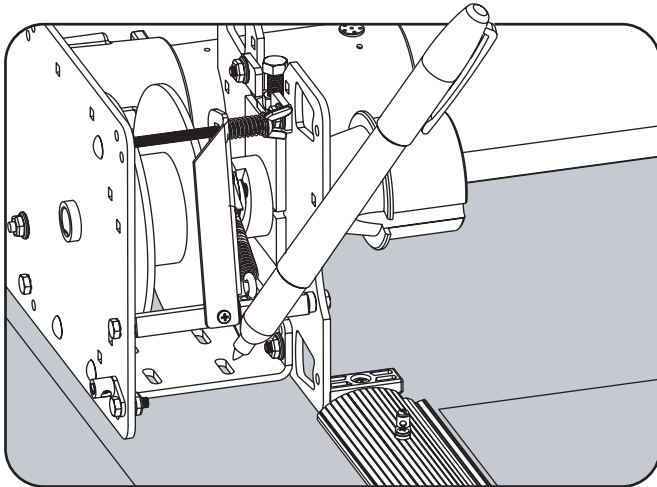
3.2 Set opposite end assembly in place with the inside mounting plate flush with guide assembly and butted up against the track.



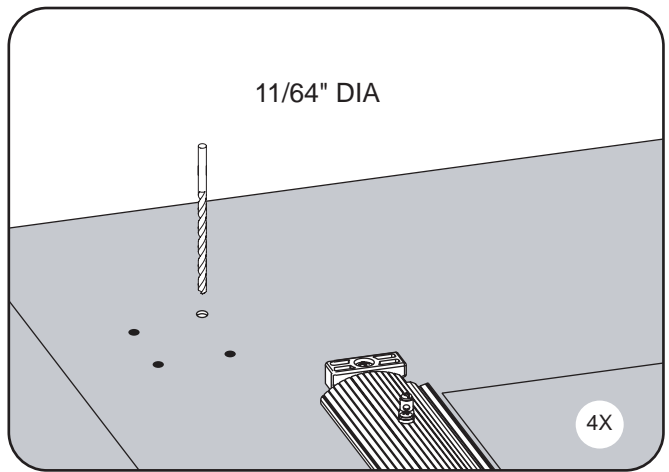
3.3 Mark the center of the extension coupler and mark the center line between the motor assembly and the opposite end assembly.



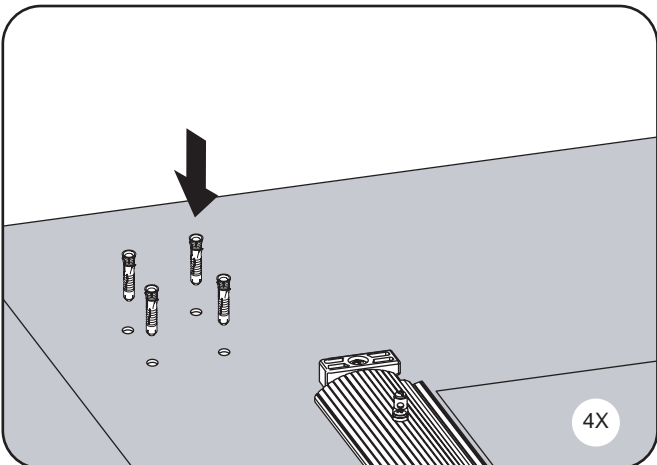
3.4 Measure the distance between the end cap shoulders and confirm that the PVC tube is the same length. Do not install the PVC tube at this stage.



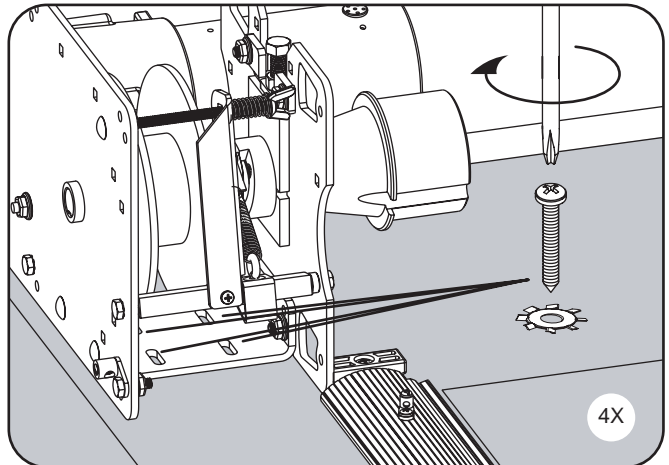
3.5 Mark the four motor assembly mounting hole locations using the motor bracket as a template. Assure that the unit is square to the track.



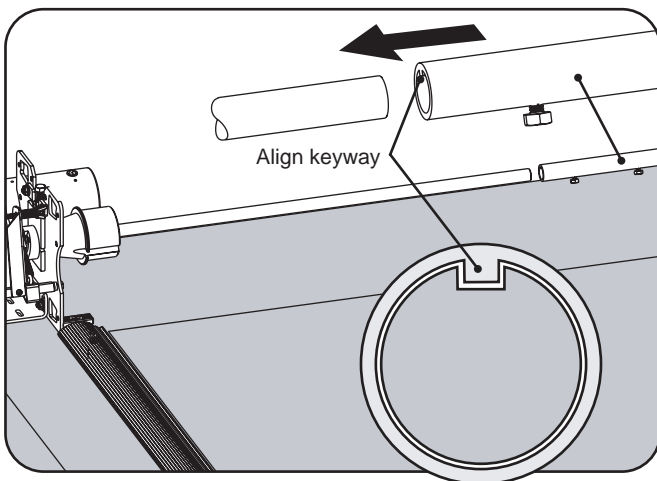
3.6 Remove the motor assembly and drill 11/64" diameter holes where the marks are located.



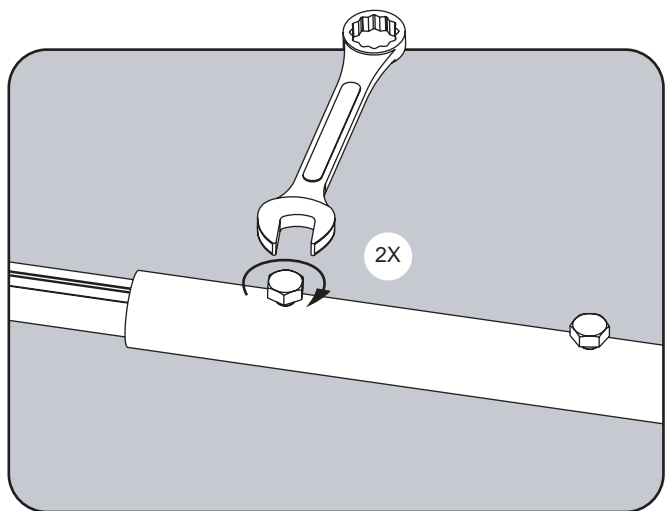
3.7 Insert red plastic anchors into the drilled holes.



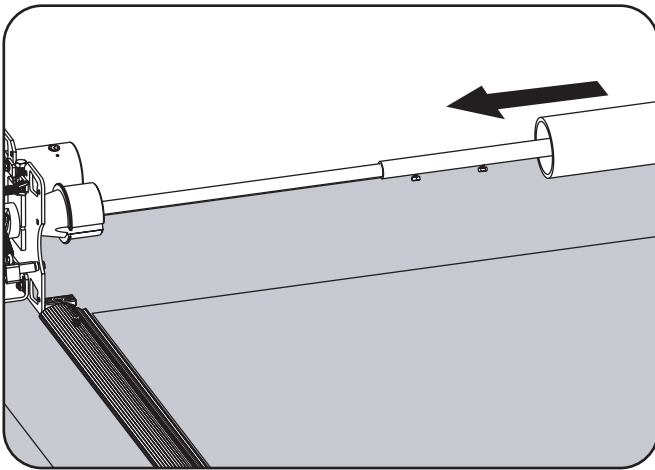
3.8 Replace the motor assembly and screw the assembly securely to the deck with 080083 screws with external star washers.



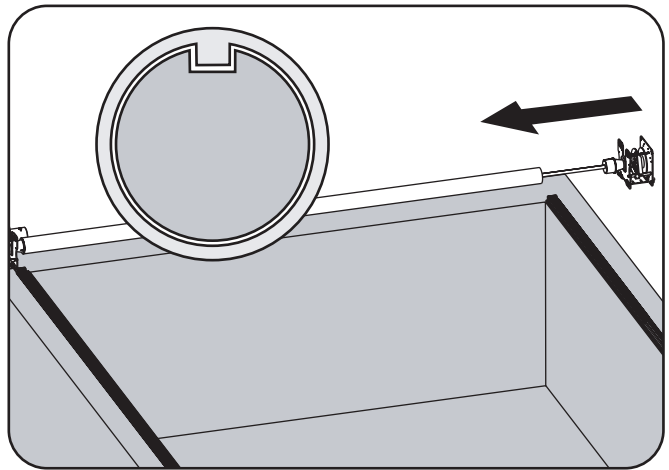
3.9 Align the key on the coupler with the keyway on the motor shaft and slide the coupler onto the motor shaft until the centerline of the coupler lines up with the centerline drawn on the deck in step 3.3.



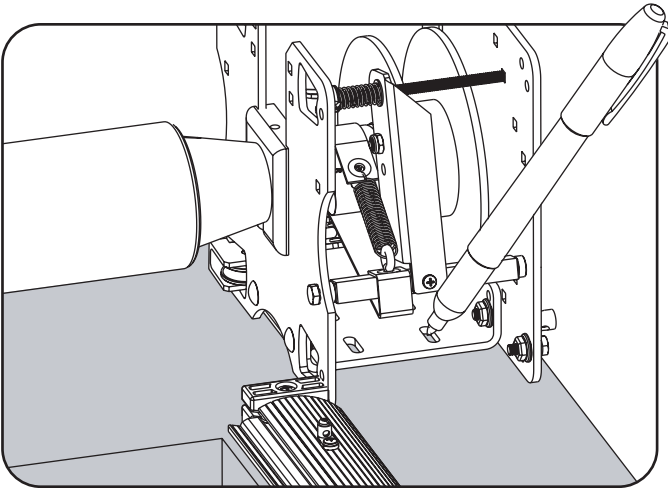
3.10 Tighten the set screws to prevent the coupler from sliding.



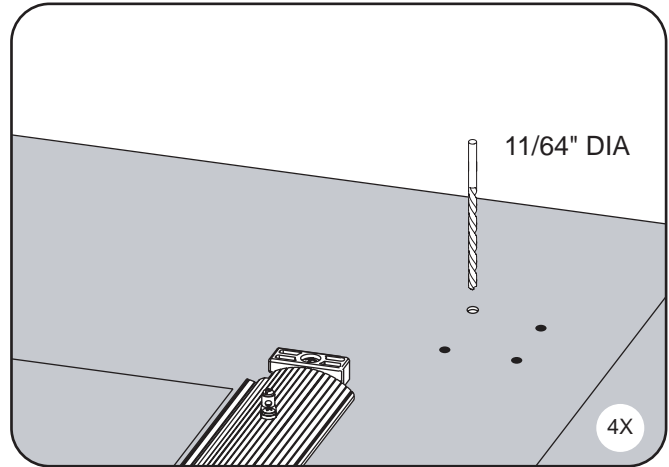
3.11 Slide the PVC over the coupler and the motor end assembly shaft until it butts up against the end cap shoulder.



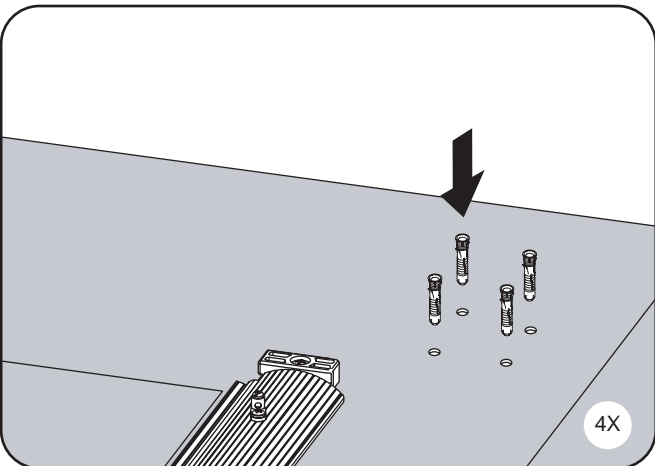
3.12 Slide the opposite end assembly shaft into the coupler and inside the PVC tube making sure to align the key and keyway.



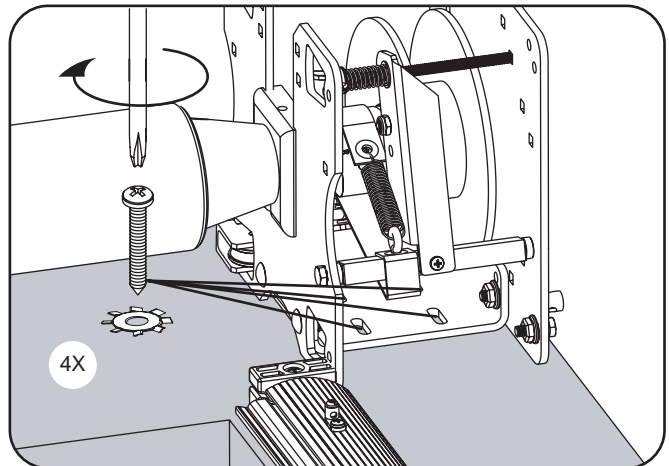
3.13 Mark the four opposite end assembly mounting hole locations using the assembly mounting bracket as a template. Assure that the assembly is square to the track.



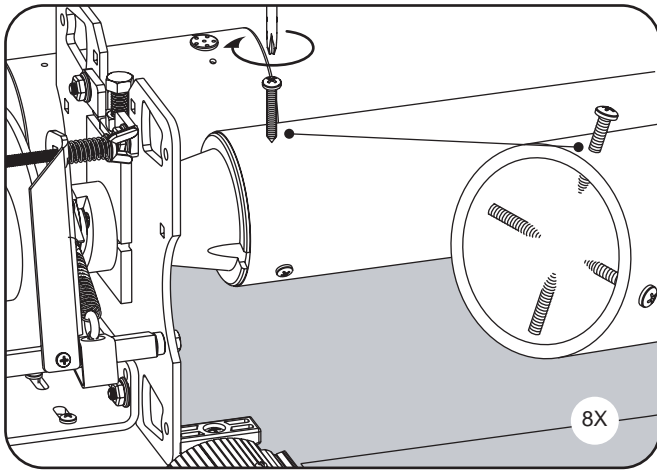
3.14 Remove the opposite end assembly and drill 11/64" diameter holes where the marks are located.



3.15 Insert red plastic anchors into the drilled holes.



3.16 Replace the opposite end assembly and screw the assembly securely to the deck with 080083 #12 x 1½ screws with external star washers.



3.17 Secure the tube to both end caps with four 080308 screws equally spaced around the endcaps.

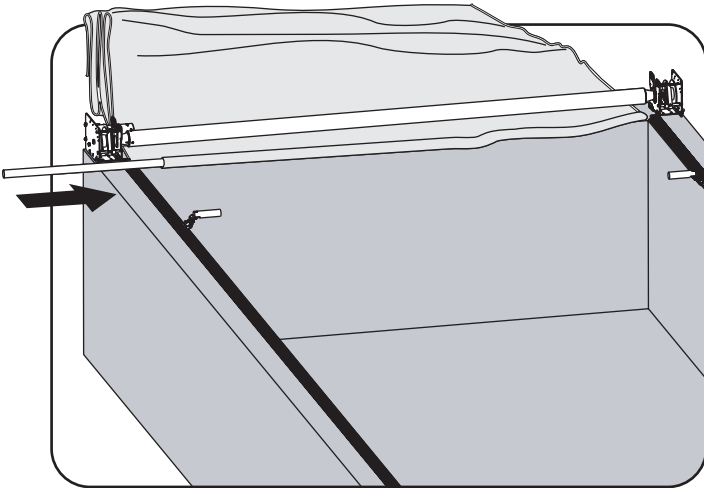
4 Install Fabric

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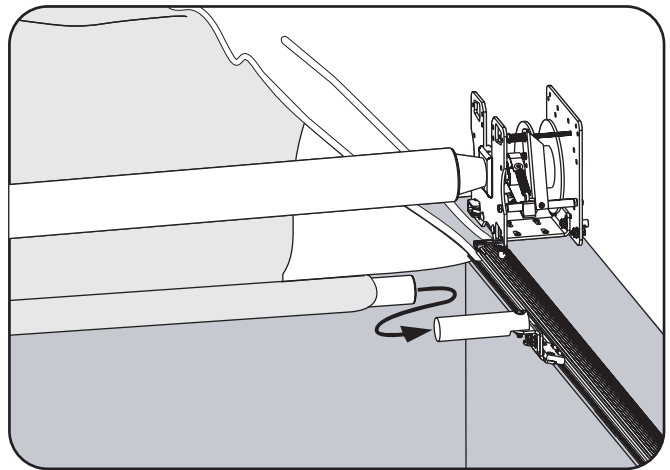
DO NOT cut the ropes until:

- 1) the cover is in the fully uncovered position,
- 2) the ropes are pulled completely through the tracks,
- 3) the ropes are pulled tight to remove all slack,
- 4) the ropes are routed through all pulleys.

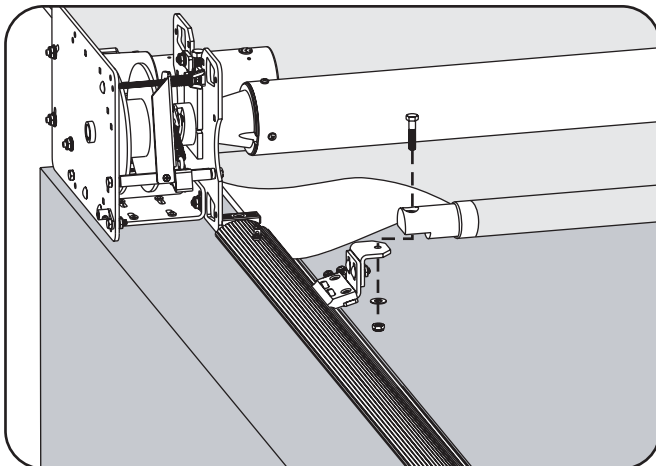
TIP: Tape, lash, or melt all cut rope ends to prevent fraying.



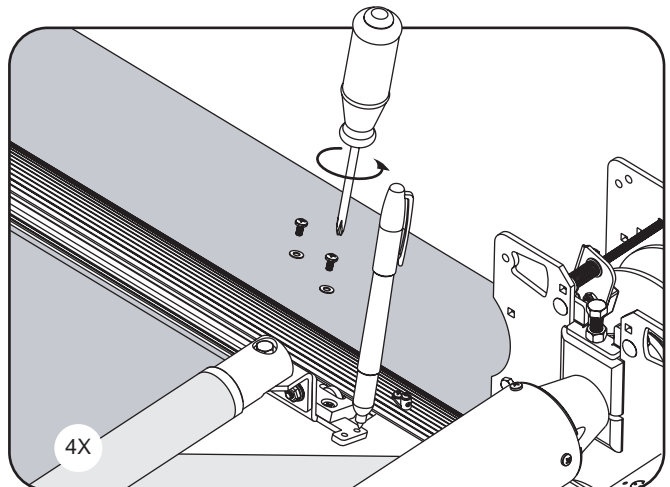
4.1 Advance the fabric to the tracks and slide the leading edge tube through the fabric leading edge pocket.



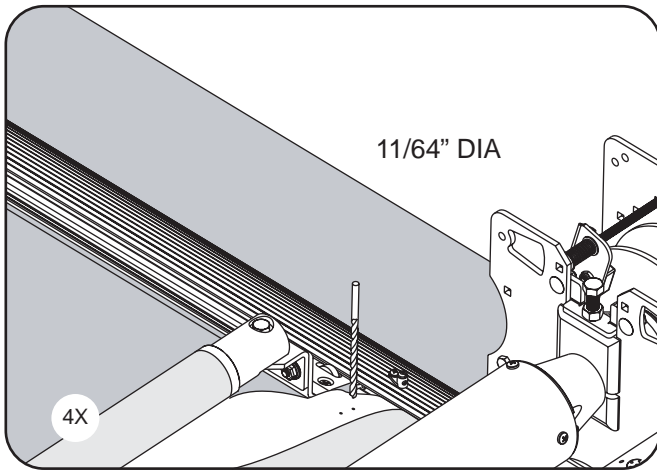
4.2 Slide the leading edge onto the glider.



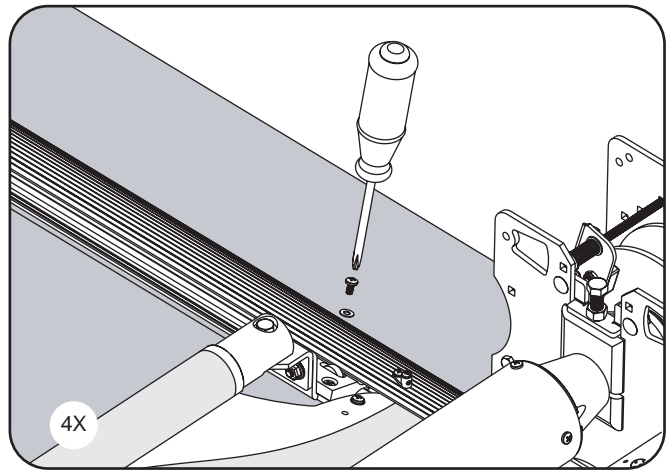
4.3 At the other side, remove the bolt from the dowel and re-attach the dowel to the glider with the fabric. Do not overtighten; this joint is intended to swivel slightly.



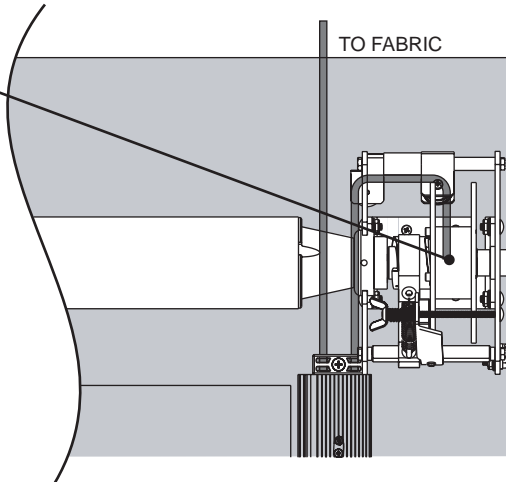
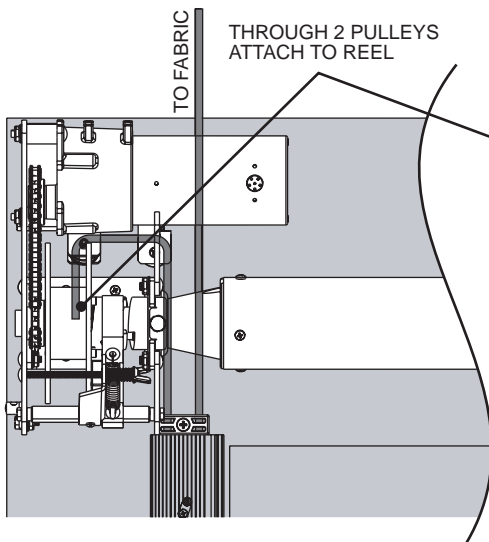
4.4 Remove the fabric attachment screws and washers from the glider. Place the fabric under the glider and mark drill hole locations using the glider as a template.



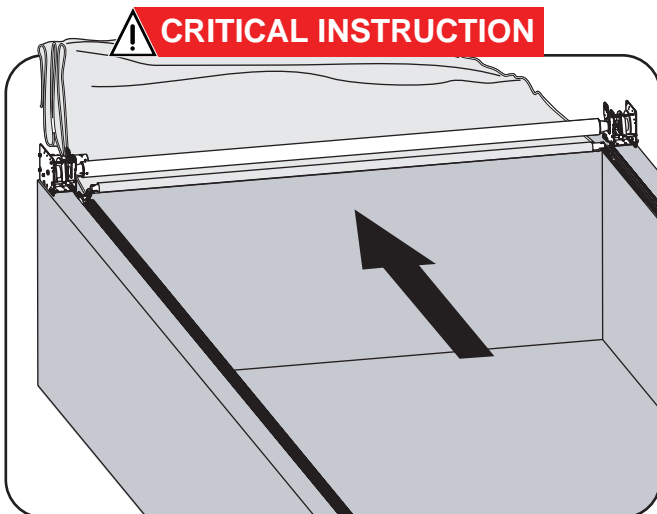
4.5 Drill 11/64" diameter holes in the fabric where marked.



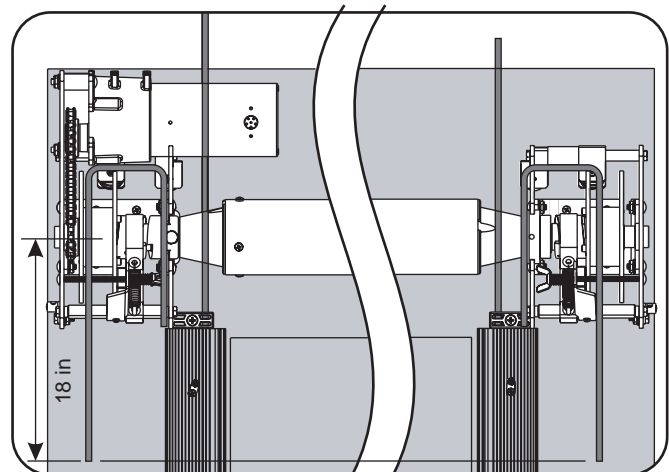
4.6 Attach the fabric to the glider with the screws and washers from step 4.4.



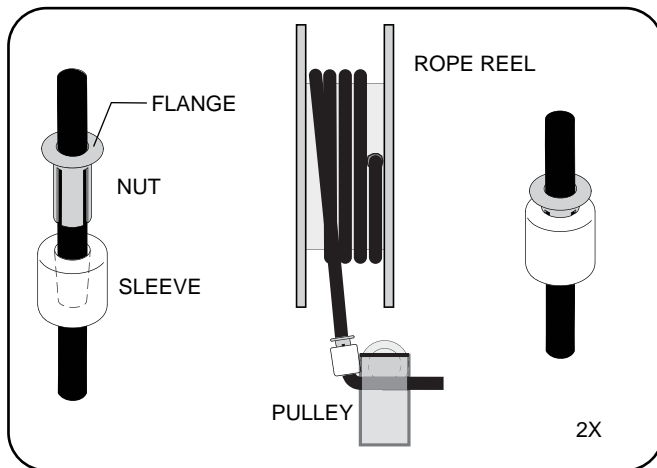
4.7 Thread the rope through the pulleys as shown. (Fabric removed from illustration for clarity.)



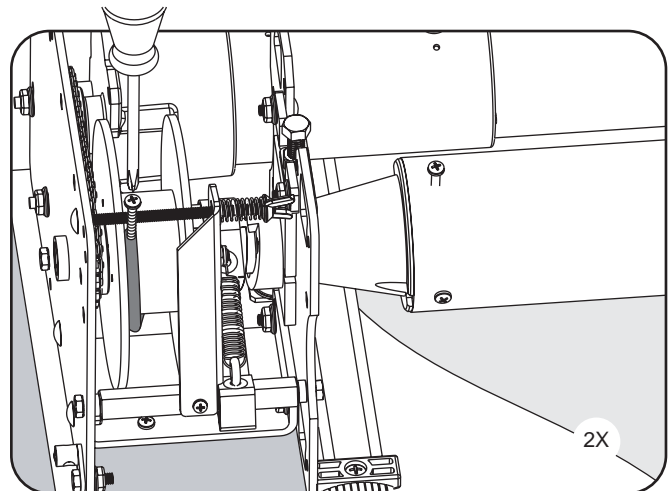
4.8 Pull the cover to the fully uncovered position and make certain that the leading edge is parallel to the PVC tube. **DO NOT cut the ropes unless the cover is in the fully uncovered position.**



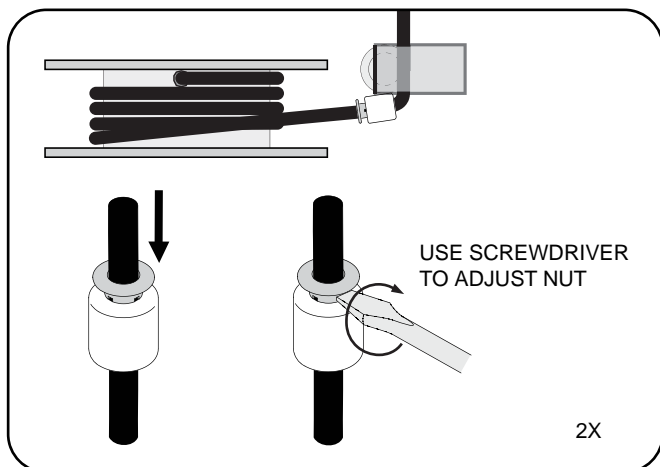
4.9 Pull the ropes 18" beyond the center of the rope reels and cut off excess rope.



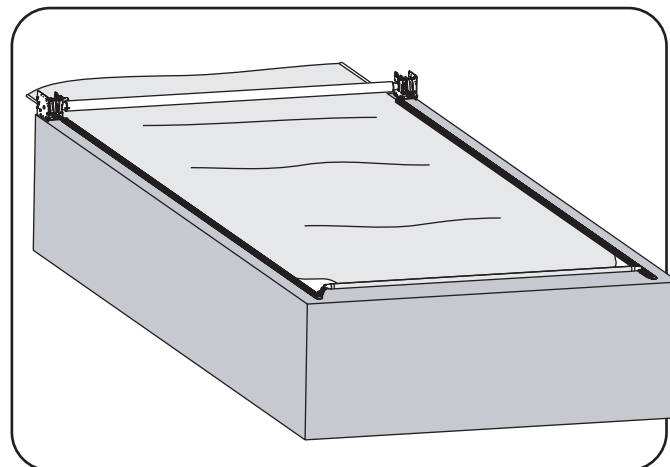
4.10 Thread the rope stops onto the ends of the ropes as shown. Orient the flange toward the rope reel and the sleeve toward the pulley. Do not assemble the rope stops until later.



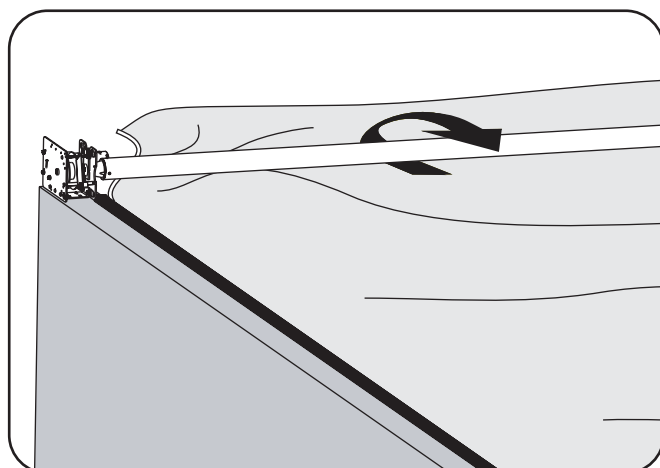
4.11 Route the rope underneath the rope reel and attach the rope to the outside edge of the rope reel using a 080090 #8 x 3/4 screw. Turn the rope reel until rope wraps the reel 3 or 4 times.



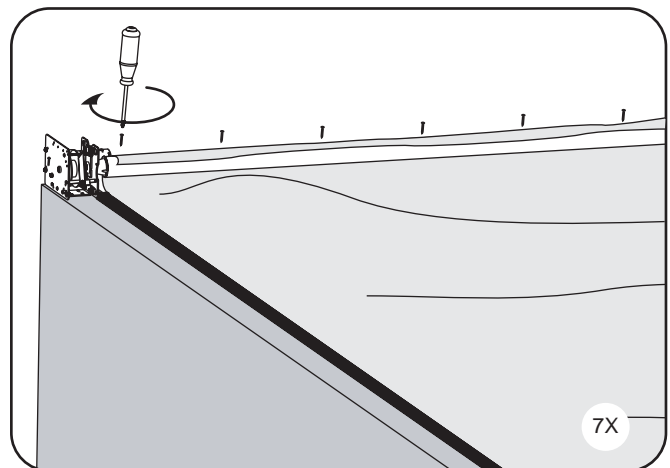
4.12 With the cover in the fully uncovered position, push the rope stop sleeves up tightly against the pulley housings. Slide the rope stop nuts tightly into the sleeves.



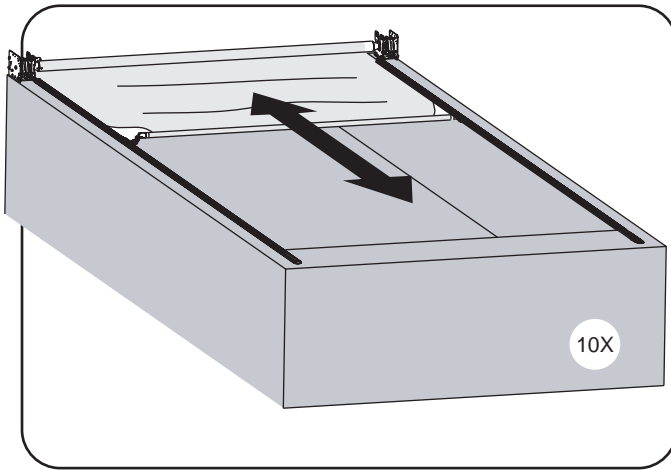
4.13 Advance the cover to the fully covered position.



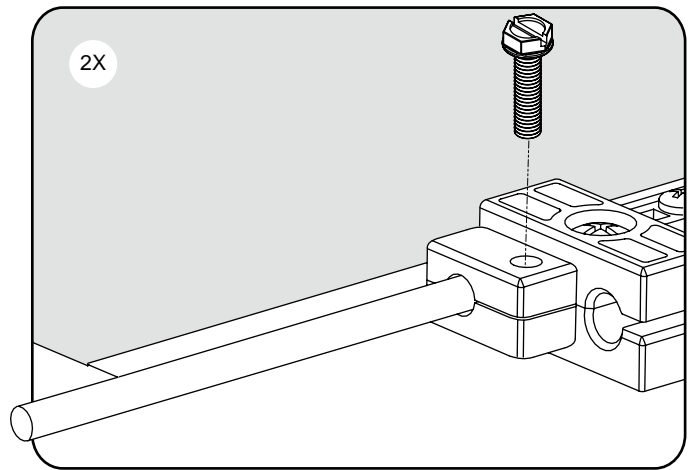
4.14 Pull the end of the cover under the PVC tube and back over the top. Center the fabric from edge to edge on the PVC tube.



4.15 Attach cover to PVC tube with (7) 080081 #10 x 1/2 screws. Space screws equally over the length of the tube.



4.15 Fully cover and uncover the pool 10 times to remove stretch from the ropes. If necessary, adjust rope stops.



4.16 Fully cover the pool and install the webbing stop blocks. (Note: Rope removed from illustration for clarity.)