



LEADING MANUFACTURER & EXPORTER OF
SWIMMING POOL COVER FASTENING HARDWARE

**GENERAL
SWIMMING POOL
SAFETY COVER
INSTALLATION
GUIDE**

IMPORTANT:

This brochure gives general guidelines on installation of swimming pool safety cover. For exact design, choice and installation of appropriate safety cover and cover hardware please refer to the installation manual that came with your swimming pool safety cover or ask your swimming pool safety cover provider or manufacturer for the same. Suzy International holds no responsibility for Guarantee or Warranty voidance due to improper installation of your swimming pool safety cover or any other possible reasons that affects you Guarantee or Warranty, and also any other consequences arising during or after installation of your swimming pool safety cover. Information provided here by Suzy International is with sole intention to demonstrate different ways of installation of swimming pool safety cover hardware and Suzy International has nothing to do with Guarantee or Warranty policy of individual companies selling swimming pool safety cover. Please refer to Disclaimer of Suzy International before beginning installation procedure of you swimming pool safety cover.

KNOW YOUR HARDWARE

(For detailed information on each hardware download product information and installation brochure from our download section in www.suzyinternational.com)

BRASS ANCHORS

Screw type Standard Concrete Brass Anchor used for anchorage in areas like concrete or cement and other stable flat anchoring surfaces near pool site for fastening swimming pool safety covers.



Screw type Single Knurling Concrete Brass Anchor used for anchorage in areas like concrete or cement and other stable flat anchoring surfaces near pool site for fastening swimming pool safety covers.



Screw type Double Knurling Concrete Brass Anchor used for anchorage in areas like concrete or cement and other stable flat anchoring surfaces near pool site for fastening swimming pool safety covers.



Single Twist Spring Loaded Pop-up Concrete Brass Anchor used for anchorage in areas like concrete or cement and other stable flat anchoring surfaces near pool site for fastening swimming pool safety covers.



Wood Deck Brass Anchor used for anchorage in areas like wooden or composite deck flat surface near pool site for fastening swimming pool safety covers.

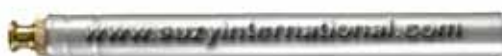
ALUMINIUM GARDEN SPIKE/STAKES



Standard Aluminium Pipe Anchor Assembly with 15" pipe used for anchoring in unstable areas such as paver deck, loose bricks, patio stones and landscape areas.



Tapered End Aluminium Pipe Anchor Assembly with 15" pipe used for anchoring in unstable areas such as paver deck, loose bricks, patio stones and landscape areas.

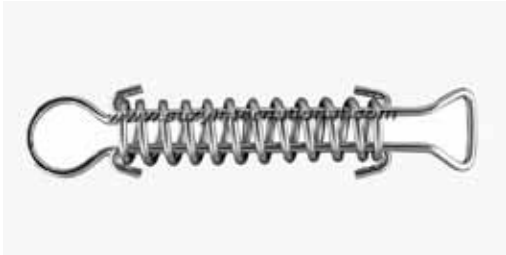


Crimped Neck Aluminium Pipe Anchor Assembly with 9" pipe used for anchoring in unstable areas such as paver deck, loose bricks, patio stones and landscape areas.

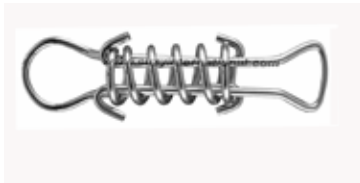


Aluminium Garden Spikes with 18” in length and used for anchorage in garden or planter areas where there is packed soil.

DRAWBAR COMPRESSION SPRINGS



Heavy Duty Large Drawbar Compression Springs for any swimming pool safety cover for providing a nice taut drum fit to the cover.



Heavy Duty Small Drawbar Compression Springs for any swimming pool safety cover for providing a nice taut drum fit to the cover.



Medium Duty Large Drawbar Compression Springs for any swimming pool safety cover for providing a nice taut drum fit to the cover.



Medium Duty Small Drawbar Compression Springs for any swimming pool safety cover for providing a nice taut drum fit to the cover.



Heavy Duty Double Coil Drawbar Compression Springs for any swimming pool safety cover where heavy load is expected, providing a nice taut drum fit to the cover.



Medium Duty Double Coil Drawbar Compression Springs for any swimming pool safety cover for providing a nice taut drum fit to the cover.

MISCELLANEOUS PRODUCTS



Stainless Steel Buckle used for harnessing swimming pool cover strap to the spring.



Aluminium Cups are used for preventing webbing of strap ends so that your pool safety cover looks neat and tidy.



D-Rings are used when a pool has limited decking space for standard anchor-spring installation, you may wish to substitute D-Ring for spring.



Square Rings are attached to the strap end of the spring for harnessing spring to the swimming pool cover strap.



In case of spalling or chipping near drilled hole for receiving Brass Anchor in concrete deck, this is a great option. Brass Anchor Collar hides the spalled or chipped edges of cement or concrete deck surface near drilled hole and beautifies your deck.



Vinyl Spring Cover prevents pinching of fingers or any other body part while handling the spring and it also acts as a protective cover for spring adding to the life of the spring.



Large Wall Anchor Bolt Assemblies are used for anchorage in areas like vertical cement or concrete wall, rock or wooden partition near pool site.



Small Wall Anchor Bolt Assemblies are used for anchorage in areas like vertical cement or concrete wall, rock or wooden partition near pool site.



Thunder Bolt or Cable Latch are used for holding cable in cable raised areas like vertical wall or rock near pool site.



Allen Wrench is useful for screwing down or un-screwing brass anchor insert to raise or recess insert according to the need.



Standard Temping Tool is an essential and practical tool for inserting brass anchors shell into concrete deck for any pool cover installer.



Aluminium Temping Tool is an essential and practical tool for inserting brass anchors shell into concrete deck for any pool cover installer.



Installation Rod is a simple and very useful tool for engaging and disengaging Stainless Steel Spring to and from Brass Anchors.

TOOLS REQUIRED FOR INSTALLATION OF SWIMMING POOL SAFETY COVER

- Heavy Duty Rotary Hammer Drill
- 3/8", 3/4" & 1" Concrete drill bits with long shaft (carbide / diamond tipped)
- 2" Forstner bit or paddle bit
- Tape measure
- Temping tool
- Hammer or mallet
- Chalk
- Chalk line – to help line up the anchor locations
- Buckets
- Allen Wrench
- Installation Rod
- Lubricant – Teflon or silicone spray

Notes:

- Installation of swimming pool safety cover into other than regular deck or deck with some obstacles like water features, steps, dive stand etc may require special design considerations and additional hardware and installation tools.
- Due to weight of the cover, we suggest making the initial installation with the water at opening level.
- Installation of swimming pool cover must begin at any area with cut-outs or zero tolerance areas (such as cable raised walls). When there are several areas like this, start at most complicated of these areas.
- When installing a safety cover that requires a pump for water removal: Place pump in the middle of the cover. An additional pump may be required depending on the size and shape of the pool.

WARNING

AVOID DROWNING RISK

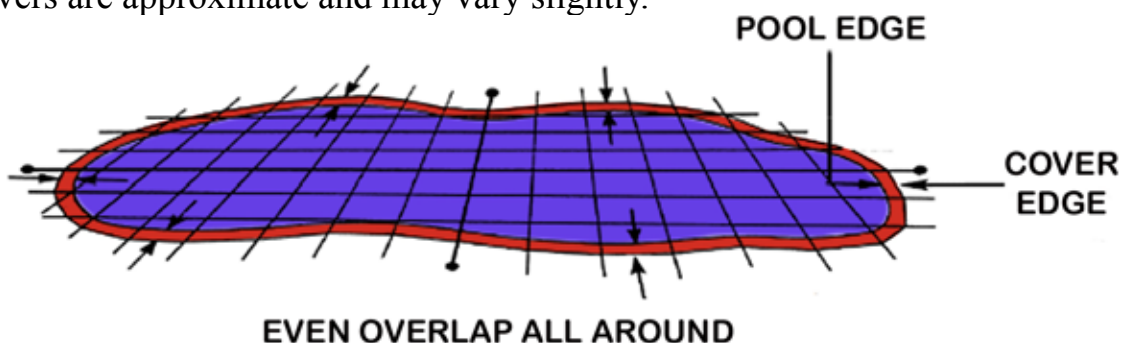
- Remove cover completely before entering the pool - **entrapment is possible.**
- Use the pool cover in accordance with manufacturer's instructions.
- Remove standing water on solid covers or use pump to remove standing water – **child can drown on top of cover.**
- Pool covers are not play areas – **supervise children at all times.**
- Keep all fastening hardware in good condition – **Inspect regularly – replace any fastening hardware showing wear.**
- Do not walk on cover except in emergency.
- Visually inspect condition of fabric for sun or chemical over exposure resulting in discoloration, brittleness of fabric or broken hardware. This is an indication that cover is no longer a safety cover.
- Non-secured or improperly secured covers are a hazard.
- Cover should be stored in an environment that prevents sun, chemical exposure or access by insects and rodents and protects cover from tearing or physical damage.

POSITION COVER

Unroll the cover off the side of the pool (if the decking permits). Use caution when maneuvering the cover around the pool. Do not drag or snag it on any obstructions or the decking. Pool decks are abrasive and hole will develop if the cover is dragged over concrete or sharp objects. Position the cover (web side down) over the pool. Line up cut-outs & cable areas. Be certain the cover aligns properly with these objects first.

ADJUSTING COVER

Adjust the cover so that it overlaps the swimming pool evenly on all sides and corners. Generally, rectangular covers up to 1200 sq. ft. will overlap the pool by 12" approx. , rectangular covers between 1200 sq. ft. and 1800 sq. ft. will overlap the pool by 15" approx. , and rectangular covers over 1800 sq. ft. and freeform pool covers will overlap the pool by approximately 18". Solid covers usually have at least 15" to 18" of overlap. Although these overlap values for swimming pool safety covers are approximate and may vary slightly.



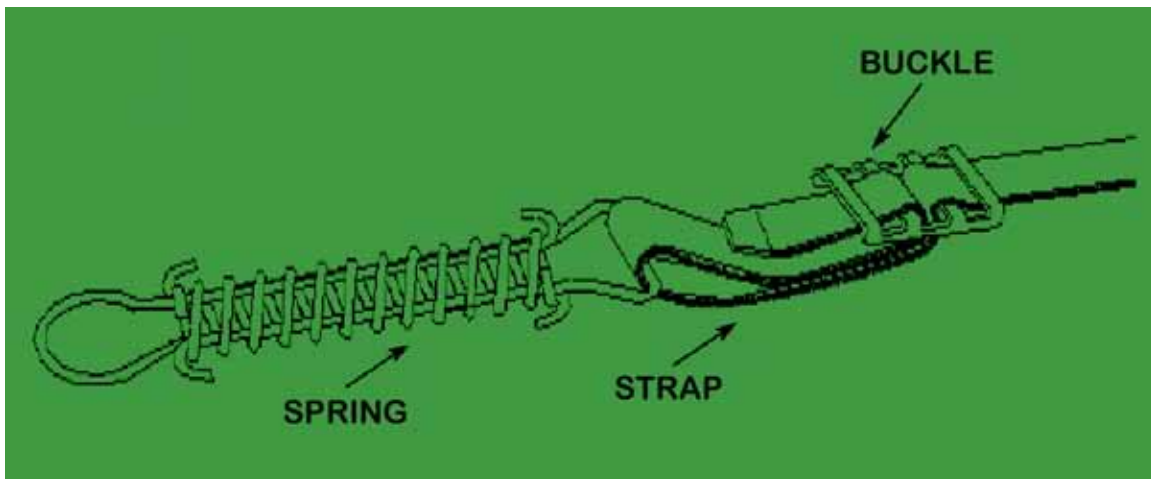
The cover should now be sagging into the pool with the material floating on the water. When everything appears satisfactory, proceed by attaching the stainless steel springs to all the cover straps.

ATTACHING SPRING TO COVER STRAP

Attach springs to all straps of the pool cover. The illustrations below shows proper buckle assembly for both, spring with or without a square ring attached to it.

FOR SPRING WITHOUT SQUARE RING

Attach springs to straps by threading the strap through the spring and back through the buckle on the strap. Use the following diagram as a guide.

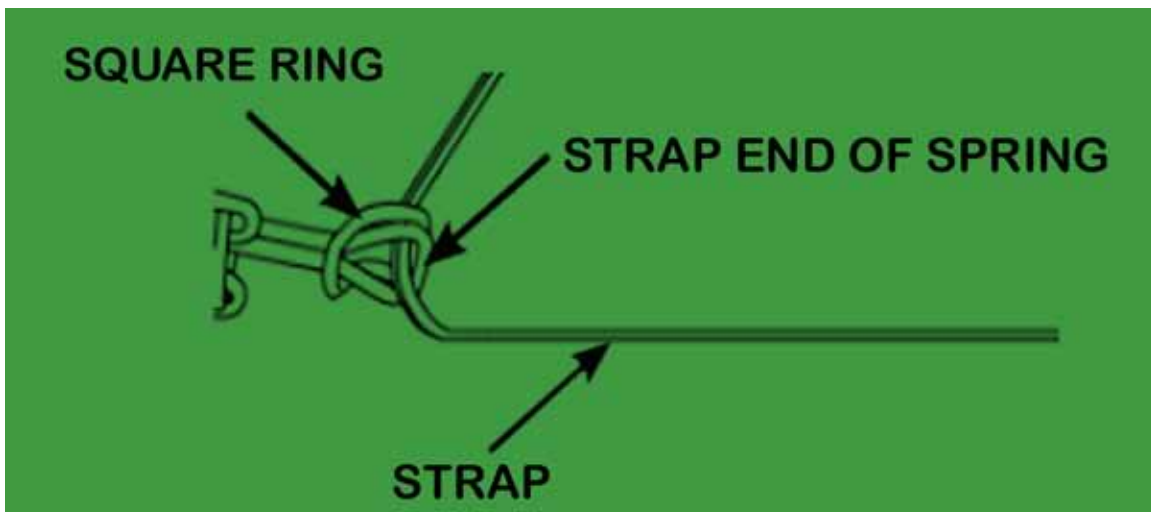


FOR SPRING WITH SQUARE RING

Follow step 1 through 3

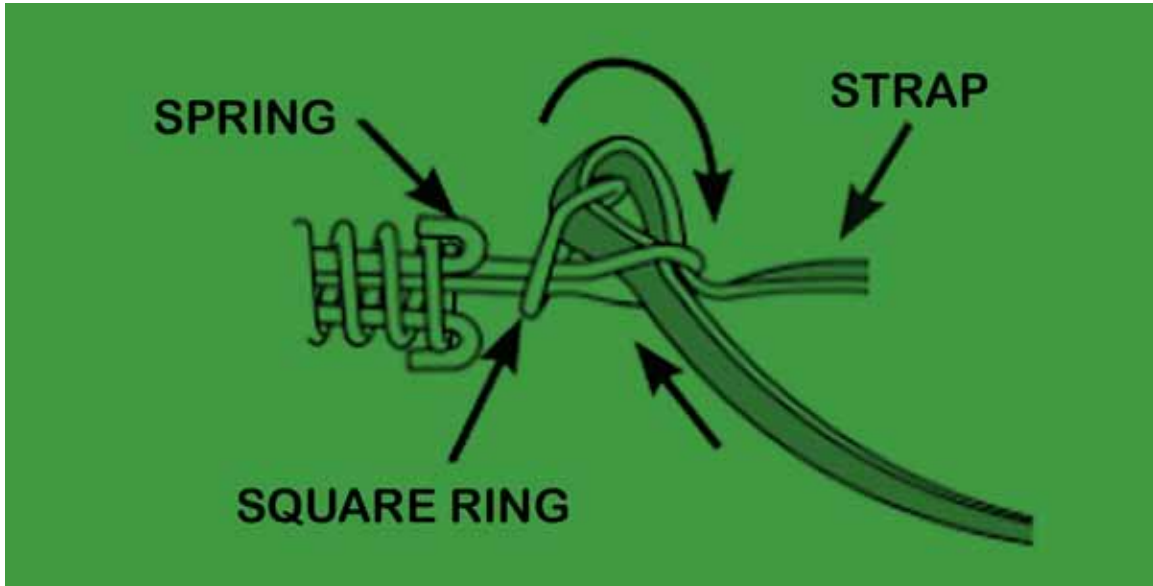
Step 1:

Feed the strap flat up through the spring end and then up through the square ring from the bottom.



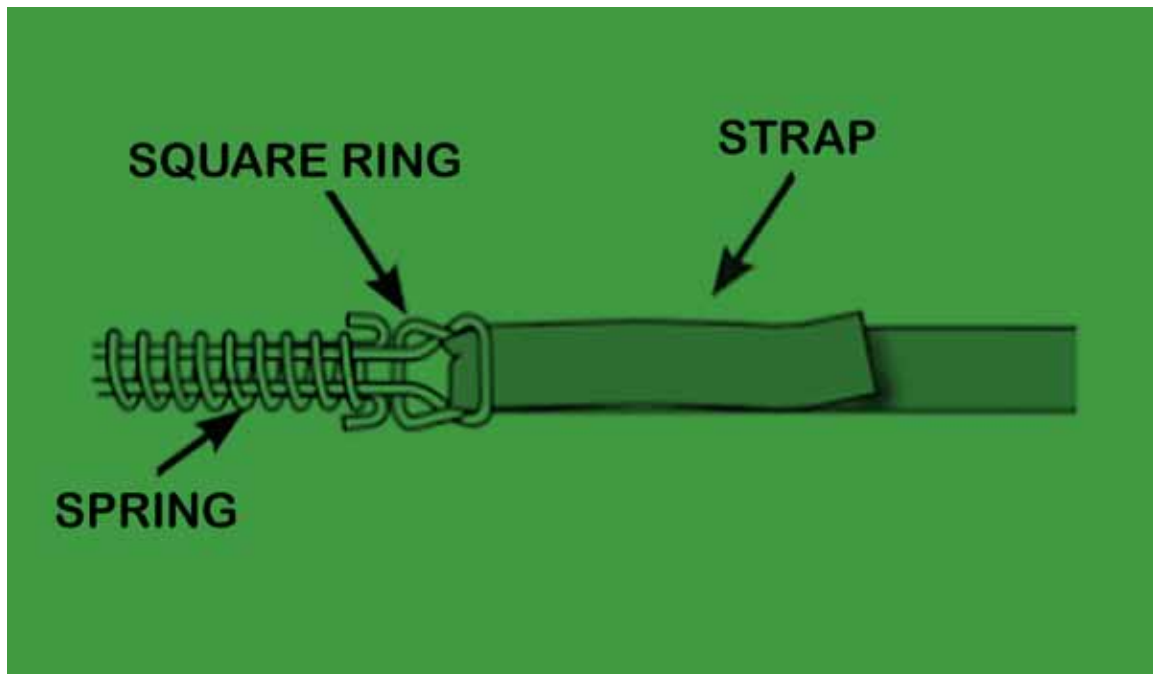
Step 2:

Loop the strap around the square ring and back through the spring end as shown.



Step 3:

Bring the end out on top of the strap that leads back to the pool cover. Pull the loose end of the strap to tighten.



Note:

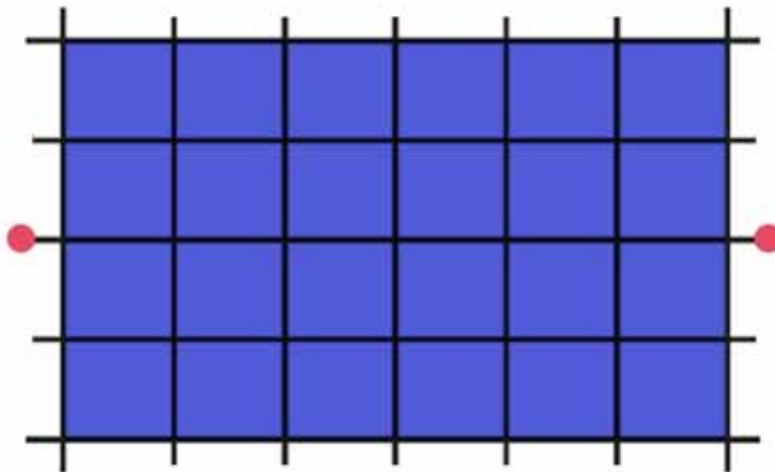
Suzy International recommends that for any new installation of swimming pool safety cover, initially the straps should be tightened so that springs are compressed about 75% or more. This is required as the cover stretches slightly and gradually the tension will lessen and springs should adjust to their normal position.

STANDARD & CUSTOM RECTANGULAR COVERS

Be sure there is an equal overlap on both sides and ends. For the proper overlap look at the “ADJUSTING COVER” section above or subtract the pool size from the cover size and divide by two. Water-filled buckets or similar weights should be positioned on some of the straps to hold the cover in position. Be careful not to position weights directly on the cover material as it could snag or damage the material.

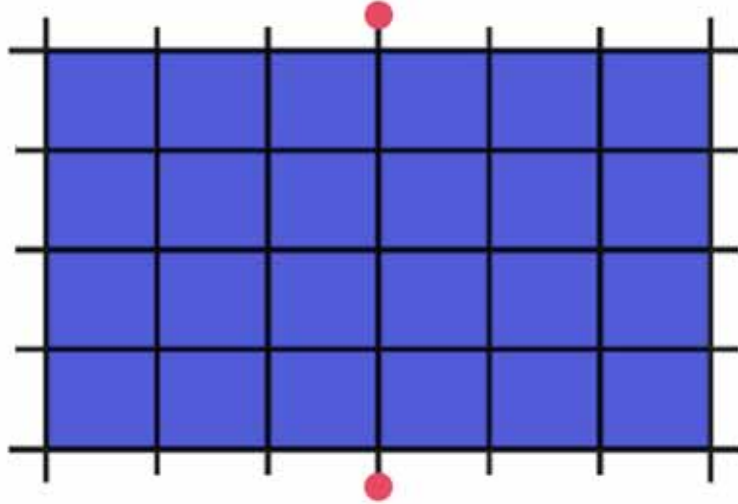
Step 1

Start by anchoring both ends of a center strap down lengthwise. Follow instruction given below in this brochure for drilling and installation of your choice of anchoring device.



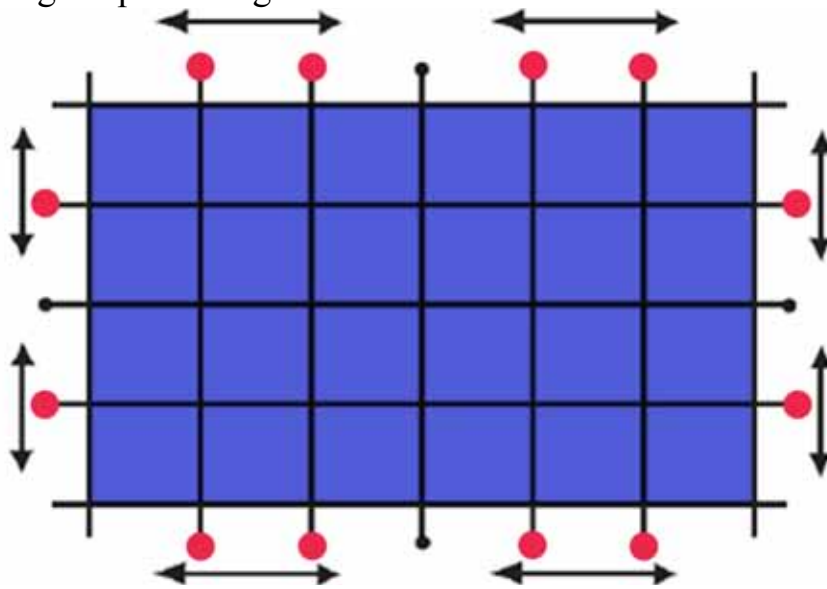
Step 2

Anchor both ends of a centre strap across the pool width.



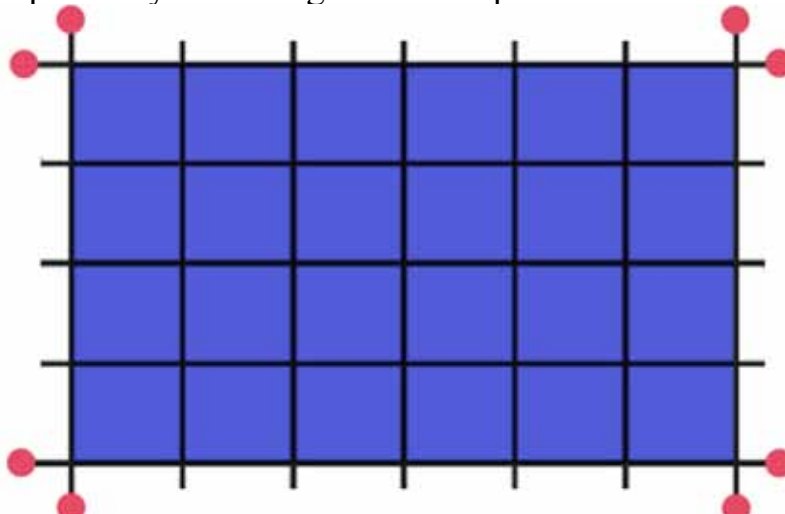
Step 3

Now anchor remaining straps starting from center towards the corner as shown in diagram below.



Step 4

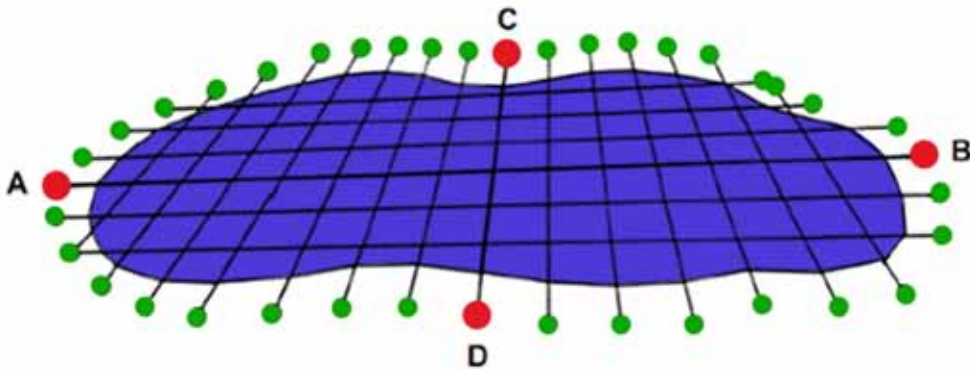
Installation can be completed by anchoring corner straps.



CUSTOM SHAPED COVERS

Adjust the cover in proper position using “ADJUST COVER” instruction in this manual. The cover should now be sagging into the pool with the material floating on the water and there should be even overlap on all sides and corners of swimming pool. Water-filled buckets or similar weights should be positioned on some of the straps to hold the cover in position. Be careful not to position weights directly on the cover material as it could snag or damage the material. Line up cut-outs & cable areas. Be certain the cover aligns properly with these objects first. When everything appears satisfactory, proceed by attaching the stainless steel springs to all the cover straps.

Start anchoring both ends of a center strap (A&B) down lengthwise. Follow instruction given below in this brochure for drilling and installation of your choice of anchoring device. Then anchor both ends of a center strap (C&D) across the pool width.



Continue to anchor the remaining straps being sure to pull the straps out straight from the cover. Check to be sure that all the cross webbing and straps are straight. If there are any straps not pulling straight across the cover it may be possible to straighten them by adjusting the tension by moving the buckle on the strap.

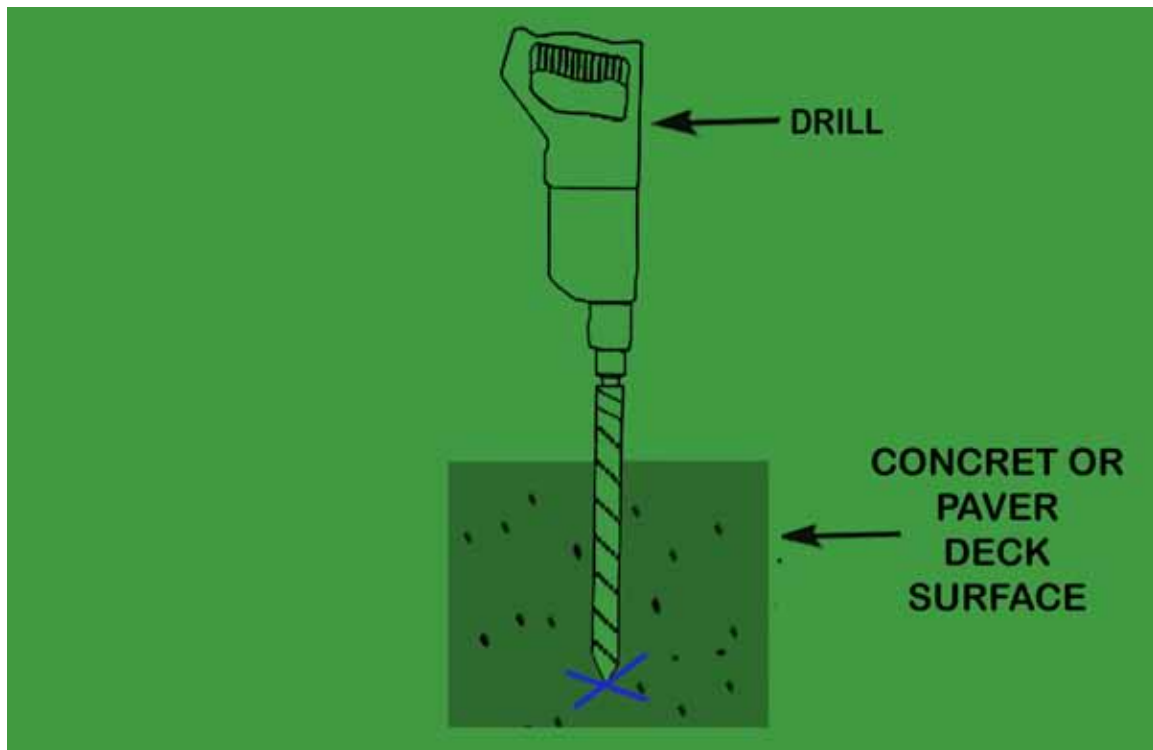
Note:

A correctly positioned Anchor should be ideally located 20” away from the pool cover’s edge. The correct anchor distance back from the pool edge is the cover overlap plus this 20”. This allows positioning of the spring to be about 10” away from the pool cover’s edge which facilitates adjustment of the spring position later if needed.

ANCHOR HOLE DRILLING IN CONCRETE OR PAVER DECK

Anchor points should be marked in line with each strap 18" back from the edge of the cover (not the edge of the pool). Once you have determined and marked the exact locations of Anchor hole, you can drill holes to accept the Anchor Shells or pipe in case of Pipe Anchor Assembly. Measure the drill bit beveled depth. Then add 1 ¾" (height of anchor shell for screw type brass anchor) or add 2" (height of anchor shell for single twist pop-up type brass anchor) or add pipe length in case of Pipe Anchor Assembly. Mark this measurement onto your drill bit with electrical tape or use drill guide. Drill the hole into the deck NO MORE THAN THE DEPTH of the Brass Anchor Shell when your choice of anchoring device is Concrete Brass Anchors. Take care not to over-ream the diameter of the hole. If this does happen, simply apply some adhesive to the Brass Anchor Shell before setting it into the hole. And if your choice of anchoring device is Pipe Anchor Assembly continue drilling up-to the length of Aluminium Pipe in case concrete is laid under the soil. Drilling dust can be removed with a vacuum cleaner or carefully blown out.

IMPORTANT: Be careful not to rupture any underground piping or wiring lines.

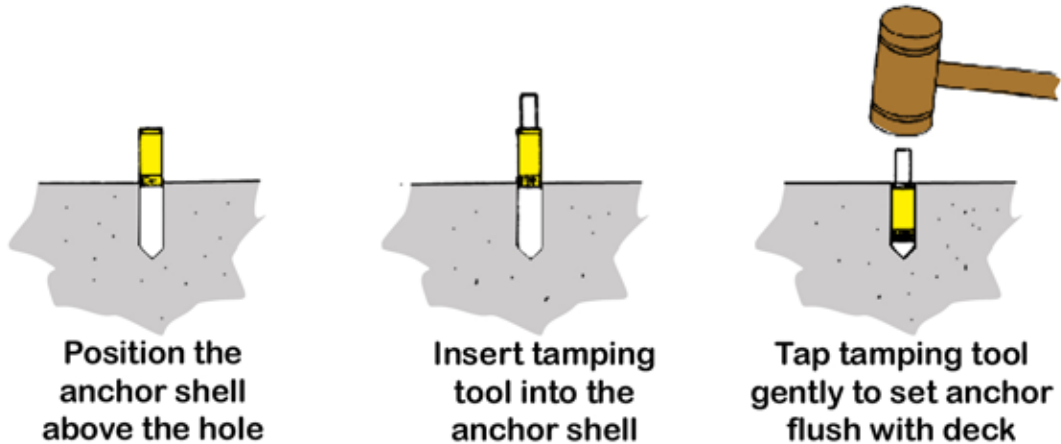


START DRILLING ON MARKED ANCHOR HOLE POSITION

Due to the nature of poured concrete or paver, some chipping is normal. This chipping can be reduced by using a sharp diamond tip drill bit and a high speed rotary hammer drill. And whenever possible, drill between pavers or bricks to avoid cracking them.

INSERTION OF BRASS ANCHOR INTO DRILLED HOLE

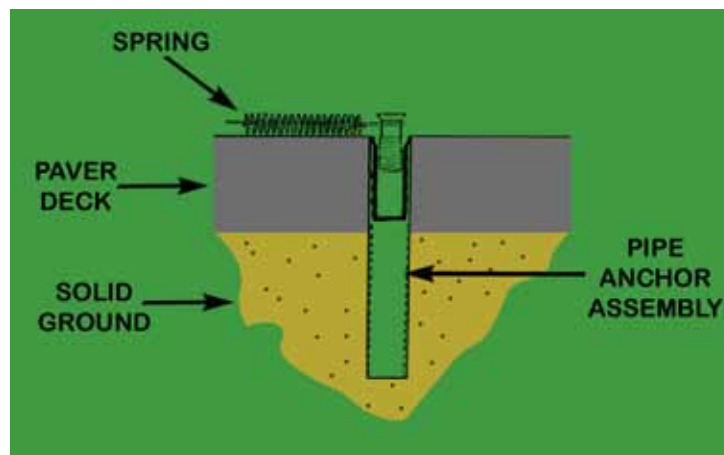
When your anchor hole is properly prepared, remove the Brass Anchor insert and the Brass Anchor Shell can be lightly tamped into position by inserting the tamping tool into the Brass Anchor Shell and temp it into the deck with a hammer or mallet until it is flush with the deck surface.



A light Teflon or Silicone spray on the tamping tool prior to tamping will facilitate its easy removal after insertion of Brass Anchor Shell into the drilled hole. If the tamping tool should become jammed into the Brass Anchor Shell, try gently tapping the tool on the lateral sides to loosen it while pulling in an upward direction.

INSERTION OF ALUMINIUM PIPE INTO DRILLED HOLE

When your anchor hole is properly prepared, remove the Brass Anchor insert and drive the assembled pipe through hole into ground until flush with the deck surface. Use a rubber mallet or place a block of wood or other material over the end of the pipe before driving to prevent damage to the Aluminium Pipe Anchor Assembly.

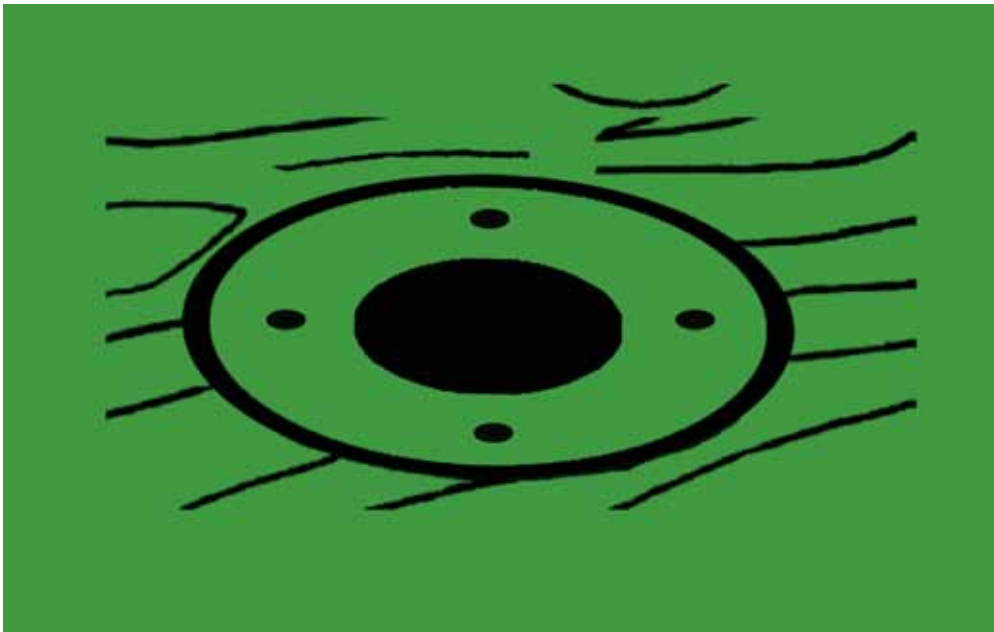


INSTALLATION OF WOOD DECK BRASS ANCHOR

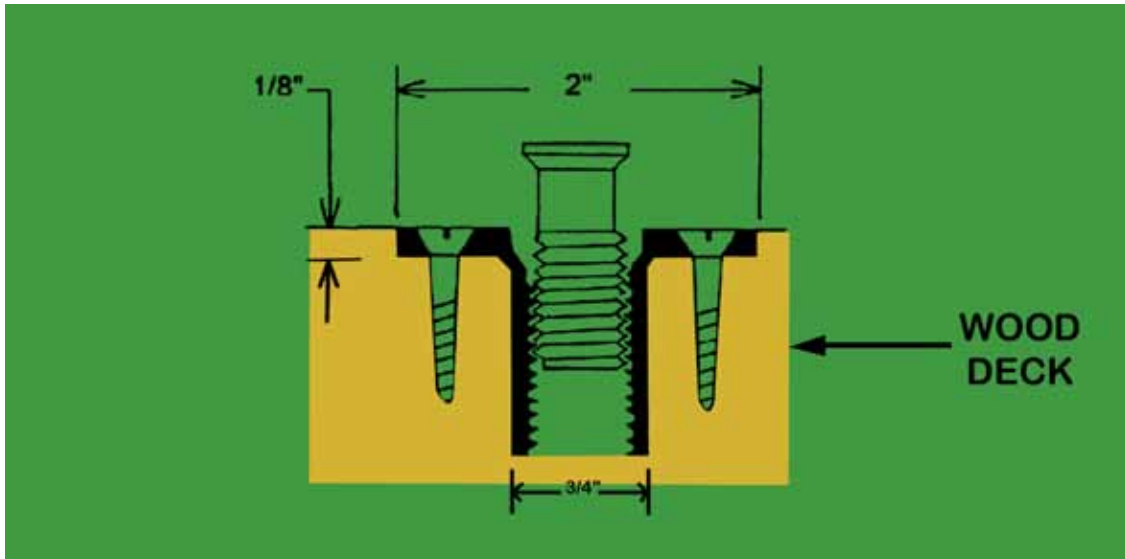
Wood Deck Brass Anchors may be used to anchor covers to wooden or composite decks capable of supporting the anchor. Before installation of Wood Deck Brass Anchor it is very important to determine the quality, thickness and strength of the specific type of wood at the job site. It is up to the swimming pool cover installer to determine if the decking is sufficient in thickness and strength to support the cover tension and the attachment of the Wood Deck Brass Anchor. If deck is thinner or not strong enough to withstand cover tension, other methods of anchoring should be considered including Pipe Anchor Assemblies.

ANCHOR HOLE DRILLING

Once you have determined quality, thickness and strength of wooden or composite deck and marked the exact locations of Anchor hole, you can drill holes to accept the Anchor Shell. Wood Deck Anchor should be countersunk into decking by drilling two holes in the wood. Drill first hole 2" in diameter into deck, with a Forstner Bit or Paddle Bit to a depth of 1/8", this hole is for countersink for the top flange of Wood Deck Brass Anchor. Drill Second hole 3/4" diameter with a conventional drill bit to a depth of at least 2", in the center of your original 2" diameter hole. This second hole is to accept the body of the Wood Deck Brass Anchor itself. Drilling dust can be removed with a vacuum cleaner or carefully blown out.

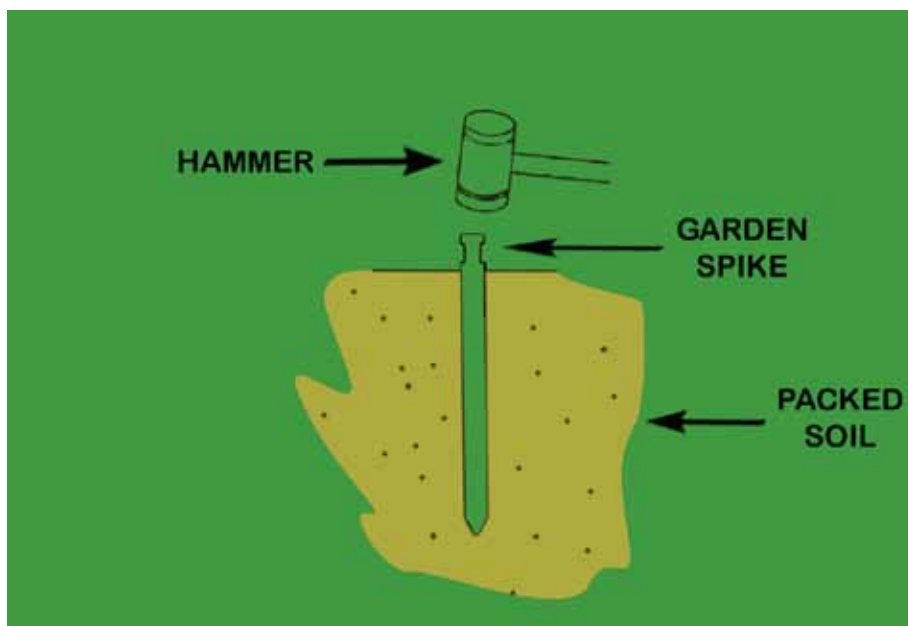


When your anchor hole is properly prepared, drop the Wood Deck Brass Anchor into the holes so that they fit flush with the deck surface. Screw the Wood Deck Brass Anchor to the deck with the supplied screws to secure it in position.



INSTALLATION OF GARDEN SPIKE IN PACKED SOIL

Follow your normal installation sequence and determine and mark the exact locations for installation of Aluminium Garden Spike. Drive the Aluminium Garden spike into the ground in place of anchor by hammering.



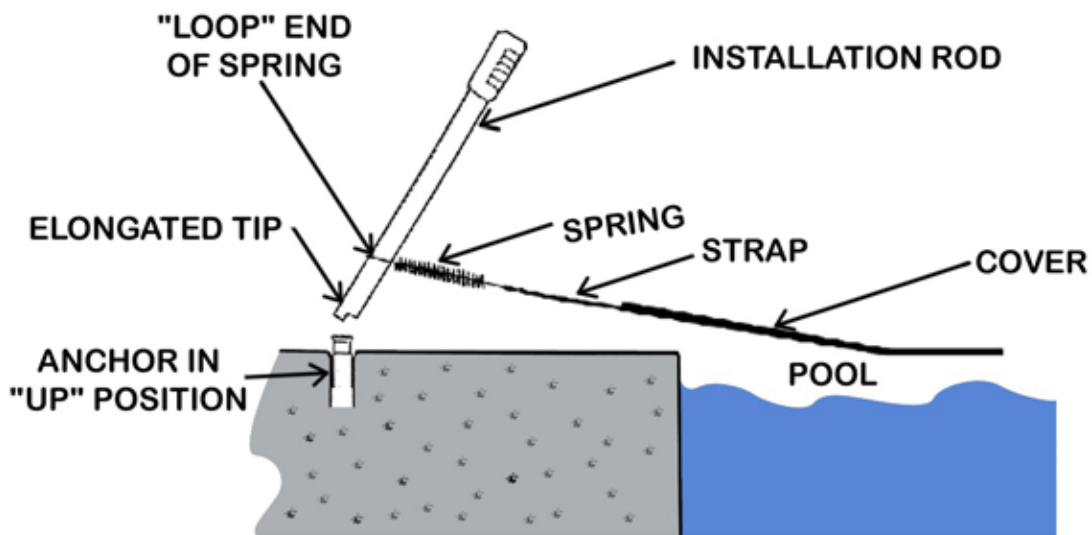
NOTE:

Aluminium Garden Spikes have less holding power compared to conventional anchors as they are inserted in packed soil area and hence they do not provide the same degree of safety as a standard anchor. Suzy International recommends that they should not be used for more than 20% of the anchoring points around a pool. Garden Spike should also never be placed at opposite ends of the same strap.

ENGAGING SPRING ON BRASS ANCHOR INSERT

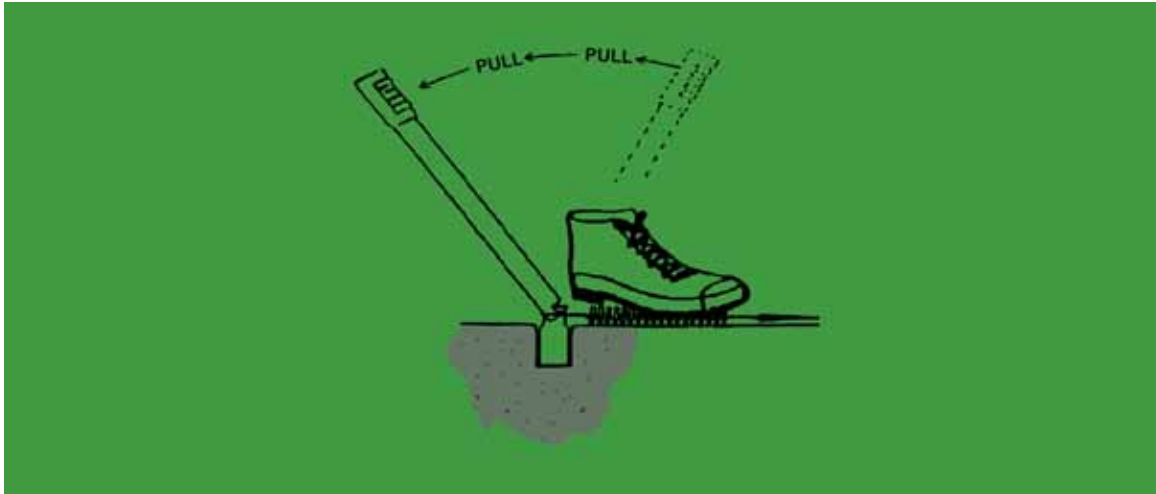
Step 1

Position Brass Anchor Insert in the up position by twisting with the help of an Allen Wrench. Slide the Installation Rod through the round loop end of the spring and position over the end of the anchor head. The elongated tip of the rod should be towards the back of the anchor (furthest from the pool). The rod should now be angled towards the pool.



Step 2

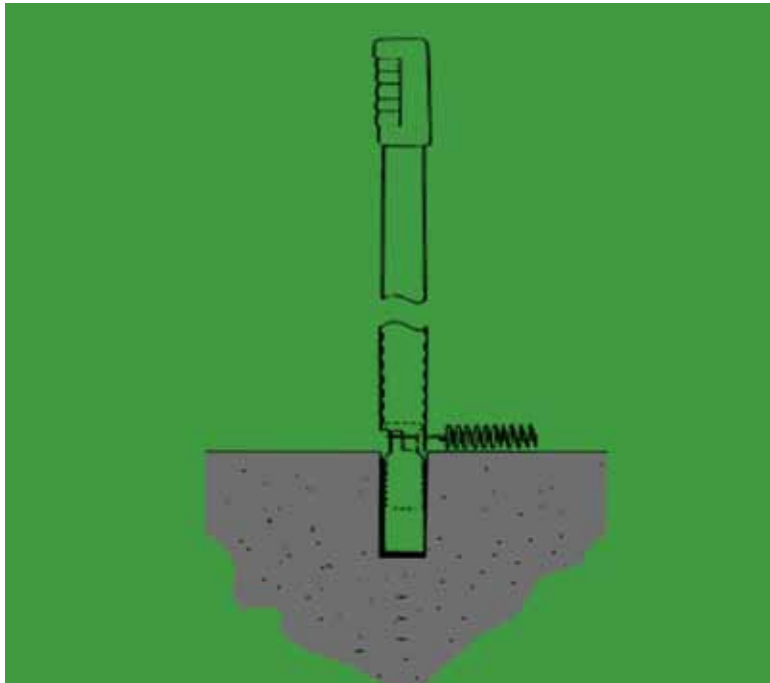
Pull the rod handle away from the pool. The spring will slide down the rod to the elongated tip. This can be facilitated by pushing down on the spring with your foot. The Installation Rod may also be lightly sprayed with silicone lubricant to ease sliding. The spring will slide off the rod and onto the anchor head.



REMOVING SPRING FROM ANCHOR

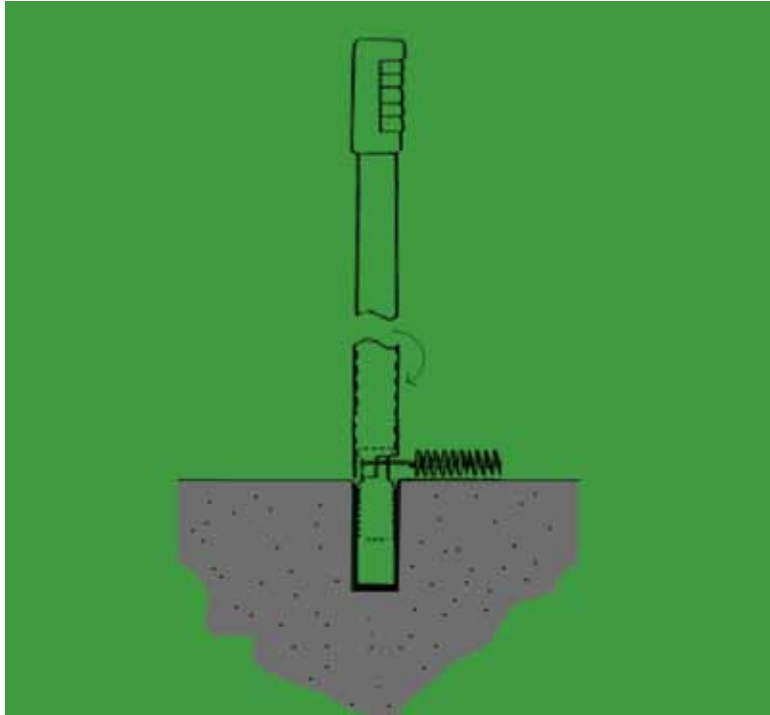
Step 1

Insert Installation Rod over anchor head so that elongated tip of rod fits into space inside round looped end of spring and brass anchor insert (the pool side of the anchor).



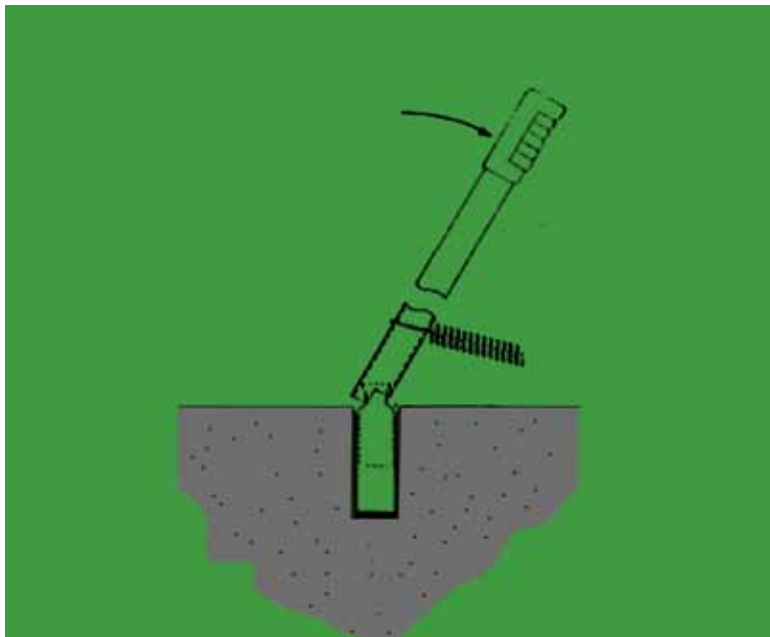
Step 2

Rotate the Installation Rod a half turn so that the elongated tip slides between the anchor and the end of the spring furthest away from the pool.



Step 3

Tilt the Installation Rod towards the pool. The spring will slide up the rod, releasing the spring from the anchor head. As the tension has been removed, the spring at the opposite end of this strap can now easily be removed from the brass anchor insert by hand.

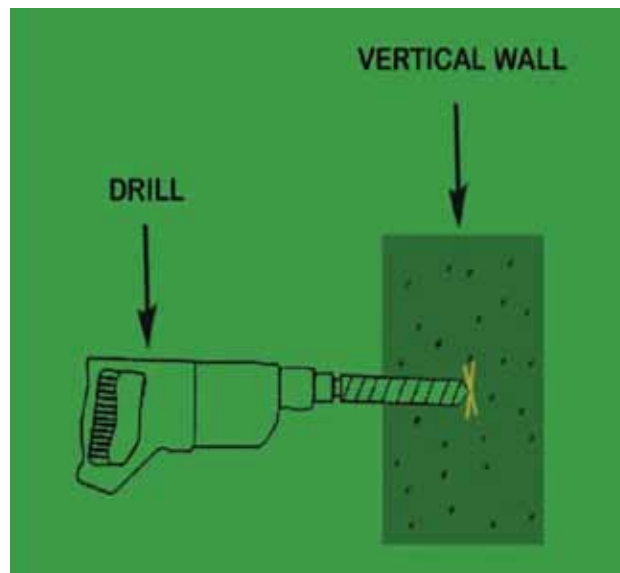


NOTE:

Check cover tension periodically. Spring coils should be compressed about 2 ½". A safety cover should always be extremely taught. A loose cover will allow "wind-whipping" which may result in coping wear on the fabric around the edge.

ANCHOR HOLE DRILLING IN VERTICAL WALL OR ROCK FOR WALL ANCHOR INSTALLATION

Once you have determined and marked the exact locations of Anchor hole, you can drill holes to accept the Wall Anchor. Measure the drill bit beveled depth. Then add 5" (length of large wall anchor) or add 1 1/2" (length of small wall anchor) and in case you are using Thunder Bolt (cable latch) add 2" (length of wall anchor). Mark this measurement onto your drill bit with electrical tape or use drill guide. Drill the hole into the vertical wall or rock NO MORE THAN THE DEPTH of the Wall Anchor taking care not to over-ream the diameter of the hole. If this does happen, simply apply some adhesive to the Wall Anchor before setting it into the hole. Drilling dust can be removed with a vacuum cleaner or carefully blown out.



START DRILLING ON MARKED ANCHOR HOLE POSITION

INSERTION OF WALL ANCHOR INTO DRILLED HOLE

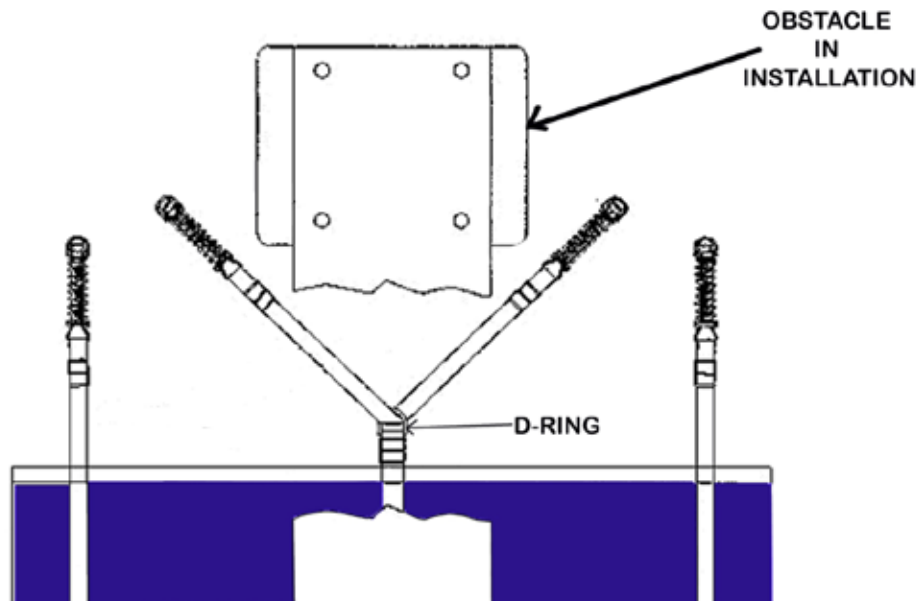
When your anchor hole is properly prepared, remove the Bolt from the Anchor Bolt Assembly and the Wall Anchor can be lightly tapped into position with a hammer or mallet until it is flush with the wall or rock surface. Now the Bolt is screwed into the Wall Anchor forcing the Anchor to expand to a tight fit in the wall.

Note:

When an installation includes raised wall or rock, Anchor Bolt Assemblies are used for anchorage due to inadequate deck area. Install this section of cover first. Never attempt to bypass the use of Anchor Bolt Assemblies when cover is provided with them. All covers must be installed drum-tight to eliminate excessive wear. Any gaps will render installation improper and non-safe. There should be no more than 18” spacing between two Anchor Bolt Assemblies installed.

USE OF D - RING WHEN A POOL HAS LIMITED DECKING SPACE OR OBSTACLE NOT PERMITTING FOR STANDARD ANCHOR-SPRING INSTALLATION

The D – Ring could be attached to the swimming pool cover strap with the help of stainless steel buckle or sewn to the cover strap. Pass an additional strap from the D – ring and attach springs on both the ends of this strap with the help of stainless steel buckles as shown in the diagram. These springs are engaged on brass anchor inserts in usual manner. This is a practical solution in situations where swimming pool cover installation involves any obstacle like dive stand. This kind of arrangement provides tension to the cover while avoiding obstacle.



Alternatively D – Ring can be attached to the swimming pool cover strap with the help of stainless steel buckle or sewn to the cover strap and engaged directly on brass anchor insert.

INSPECTION & CLEAN UP

After the cover has been installed, look for any area that may need padding in addition to reinforcement that was attached to the cover during manufacturing. On site padding may consist of carpeting, vinyl liner remnants etc. Look for desired tension of the cover and adjust the straps if necessary. Complete the installation by sweeping up any concrete dust or debris on and around the cover.

CAUTION

- For each installation, the installer is solely responsible for evaluating the site for the proper securing methods and fastening hardware to be used.
- Inasmuch as the weather is unpredictable, good judgment and common sense must be incorporated within installation guidelines.
- Proper safety equipment should be used at all times to insure a safe installation and removal.
- We suggest a careful evaluation be made to determine safety equipment needed while installing a swimming pool safety cover.

Suzy International stands behinds all its products in accordance with its standard Terms and Conditions of sale.

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