

**SECTION  
1**

**Pool Component Installation  
Manual**

**General Instructions**



**Safety Rules For Pool Owners**



Your pool contains a large quantity of water, and is deep enough to present inherent dangers to life and health unless the following safety rules are strictly observed. First-time users run the highest risk of injury. Make sure everyone understands all safety rules before entering the pool. Post **NO DIVING** and **NO JUMPING** signs beside the pool. For additional safety information please read the enclosed booklet *The Sensible Way To Enjoy Your Aboveground/Onground Swimming Pool*.



**1. No Jumping or Diving**

The top rail of your pool is not a walkway and **must not** be used for jumping or diving. **Do not** permit jumping or diving into the pool from a deck or the top rail of the pool. Diving or jumping into the pool can result in serious injury.



**2. Never use the Pool Alone**

**Never** permit the pool to be used unless it is attended by at least one person other than the bather. Someone should always be available to lend assistance in an emergency.



**3. Never Leave Children Unattended**

**Never** leave a child alone and unsupervised in or near the pool—not even for a second. There is no substitute for constant adult supervision.



**4. No "Rough-housing"**

**Do not** permit "rough-housing" in and around your pool. Surfaces can become slippery and hazardous when wet.



**5. Light the Pool at Night**

If the pool is used after dusk, adequate lighting **must** be provided. Illumination in the pool area must be sufficient to clearly judge pool depth and all features in and around the pool. For lighting recommendations, consult your local licensed electrical contractor.



**6. Restrict Access to the Pool**

**Do not** leave chairs or other furniture beside the pool that could be used by a child to climb up into the pool. Ladders **must** be removed whenever the pool is unattended. A fence with a lockable gate around the pool or yard is strongly recommended and may be required by law in some jurisdictions.



**7. No Alcohol or Drugs**

The use of alcohol or drugs **does not** mix with pool activities. Persons who have been drinking alcohol or using any drugs should not be allowed in the pool, and should be carefully supervised in the surrounding area.



**8. Keep Your Pool Clean and Sanitary**

Your filter system will remove suspended particles from the water and the surface skimmer will remove insects, leaves and other debris from the water surface. Use the correct pool chemicals as directed to destroy harmful bacteria and prevent formation of algae. **Remember**, unsanitary water is a serious health hazard.



# A. Introduction to Installing your Pool

**Read all instructions completely before you begin.**

These instructions explain how to install your pool. Simply follow the step-by-step directions. Start with this part, **SECTION 1** and use the other instructions, **SECTION 2** to **4** to put together your entire pool.

**SECTIONS 1, 2** and **3** have information for several different pool sizes and styles; follow the instructions carefully to make sure you use the information that apply to your specific pool.

**SECTION 1** also has **Safety Rules** and instructions to help you keep your pool clean and in good shape, year after year. Be sure to read the **Safety Rules**, and make sure everyone who uses your pool reads and understands them.



## B. Determine a Location for your Pool

### Important Note:

This pool has been designed to allow for installation on a **level concrete pad**. The pad must be a minimum of 3" (8 cm) thick and poured onto solid undisturbed ground.

**Note:** A brick sand or styrofoam **bottom** & a brick sand or fine earth **cove** still must be installed over the concrete foundation to protect the liner. This is detailed in **Section 2** of the pool frame installation manual.



### Important Note:

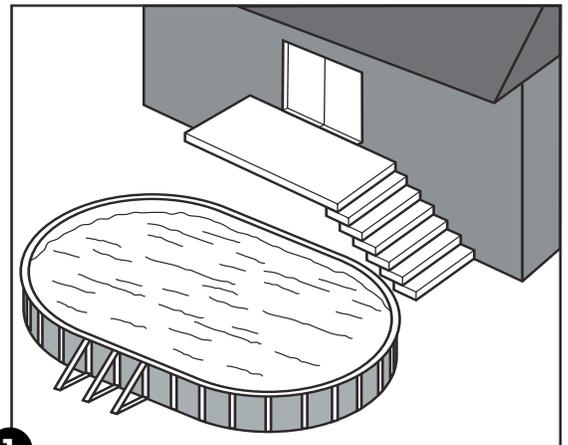
Ground preparation is one of the most important steps in the installation process. A **proper foundation** will ensure the rest of the pool assembly goes smoothly and that no problems will occur when the pool is filled with water.

Open all of the frame cartons and read all of the instructions **before you begin**. Be sure to read Section 2 and get a complete overview of the pool base and buttress assembly before starting the ground preparation.

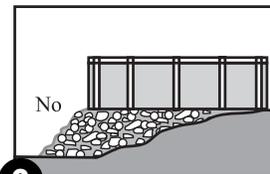
### 1. The Terrain

Pay special attention to choosing the right location for your pool:

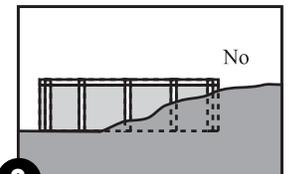
- Choose a large area, as flat and level as possible.
- Choose a spot on dry, firm earth—**do not** install the pool on asphalt, tar paper, sand, gravel, peat moss, wood or chemically treated soil.
- Check with your pool dealer to see if Nut Grass grows in your area. This type of grass may grow up through your pool liner. Your dealer will be able to advise how best to treat the site.
- Sloped areas will need to be made level by digging away high spots, **not** by filling low spots—be prepared to hire earth-moving equipment if necessary.



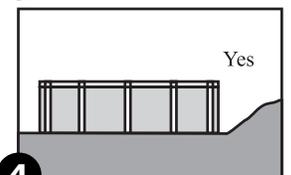
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3



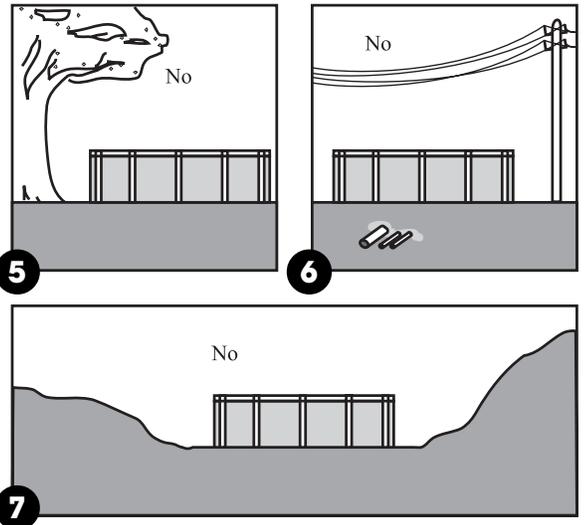
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## 2. Things to Avoid

**Do not** locate your pool near or on any of the following:

- Overhanging tree branches.
- Overhead wires, clotheslines.
- Buried pipes and wires— contact your gas, electric and telephone utilities to find buried pipes and wires **before** you dig.
- Hilly and uneven terrain.
- Areas with poor drainage.
- Grass, stones and roots. Grass will rot underneath the pool liner, and stones and roots will damage the pool liner.
- Areas recently treated with oil-based weed killers, chemicals or fertilizers.



### Important:

When locating the centreline of the pool, **be sure** to take into consideration any structures (deck, patio, house) or relevant items (change rooms, gazebo, etc.) that the pool may need to line up with and ensure that the pool is in the most visual pleasing location for your property.

## 3. Plan Ahead

- Will you be adding an adjacent deck later? Be sure to leave room.
- Will you be using pool accessories or other appliances that need electricity or gas? Locate your pool near these services or plan to have them installed later by a licensed contractor.

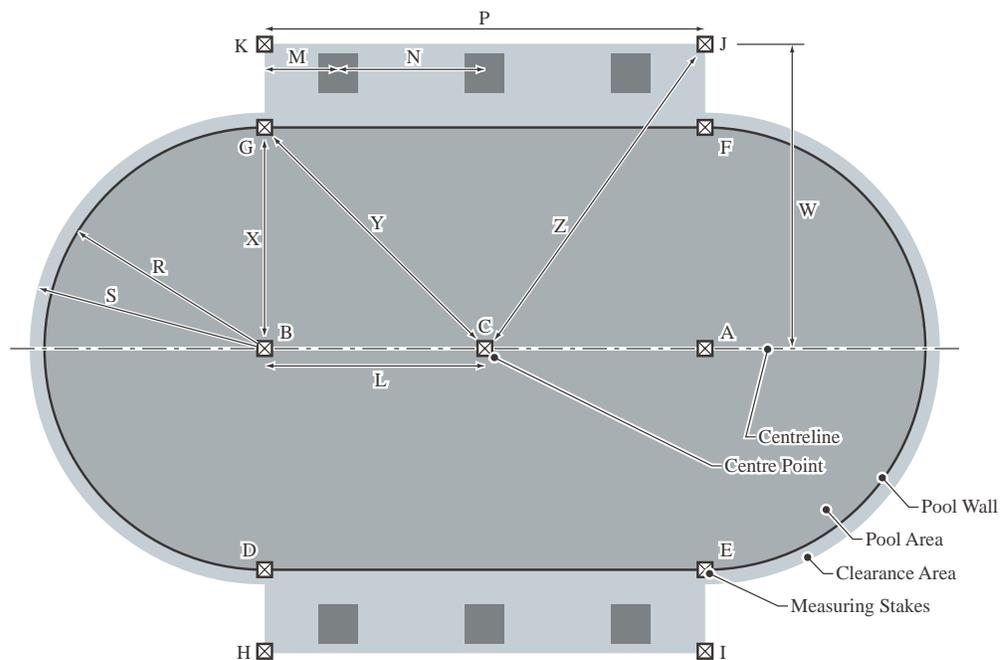
# C. Prepare the Foundation of your Pool

## 1. Choose the Correct Ground Preparation Drawing

- Choose the drawing that matches your pool size from the five plan drawings below. This drawing will have all of the necessary dimensions for the ground preparation instructions that follow.

### 15 x 30 Oval Pool Dimensions

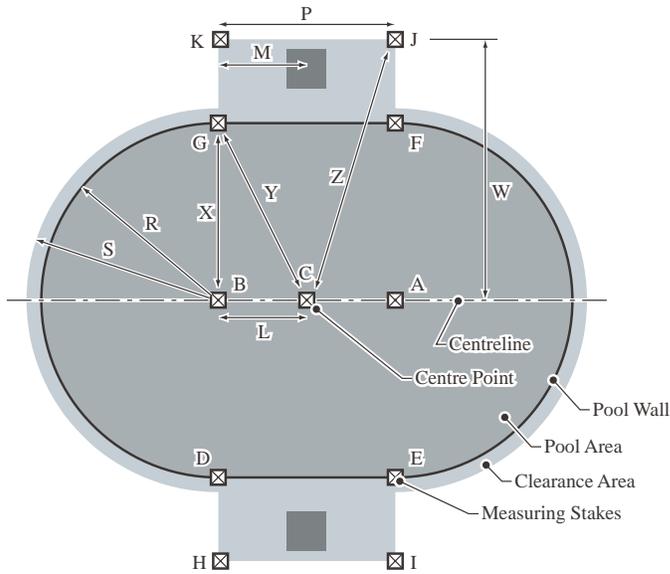
<b>R</b>	90" (229 cm)
<b>S</b>	102" (259 cm)
<b>L</b>	90" (229 cm)
<b>M</b>	30-1/2" (77 cm)
<b>N</b>	59-1/2" (151 cm)
<b>P</b>	180" (457 cm)
<b>W</b>	134" (340 cm)
<b>X</b>	90" (229 cm)
<b>Y</b>	127-1/4" (323 cm)
<b>Z</b>	161-1/2" (410 cm)



### 12 x 18 Oval Pool

#### Dimensions

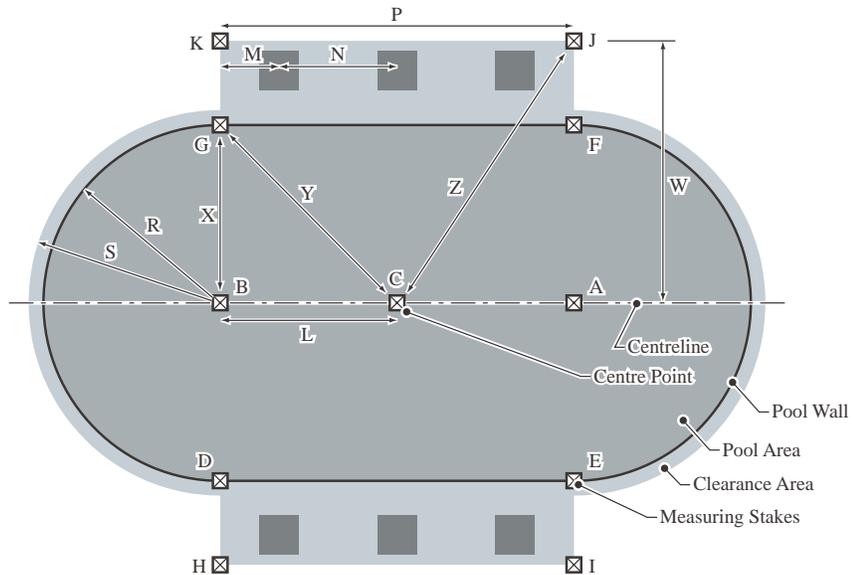
<b>R</b>	72" (183 cm)
<b>S</b>	84" (213 cm)
<b>L</b>	36" (91 cm)
<b>M</b>	36" (91 cm)
<b>P</b>	72" (183 cm)
<b>W</b>	116" (295 cm)
<b>X</b>	72" (183 cm)
<b>Y</b>	80-1/2" (204 cm)
<b>Z</b>	121-1/2" (309 cm)



### 12 x 24 Oval Pool

#### Dimensions

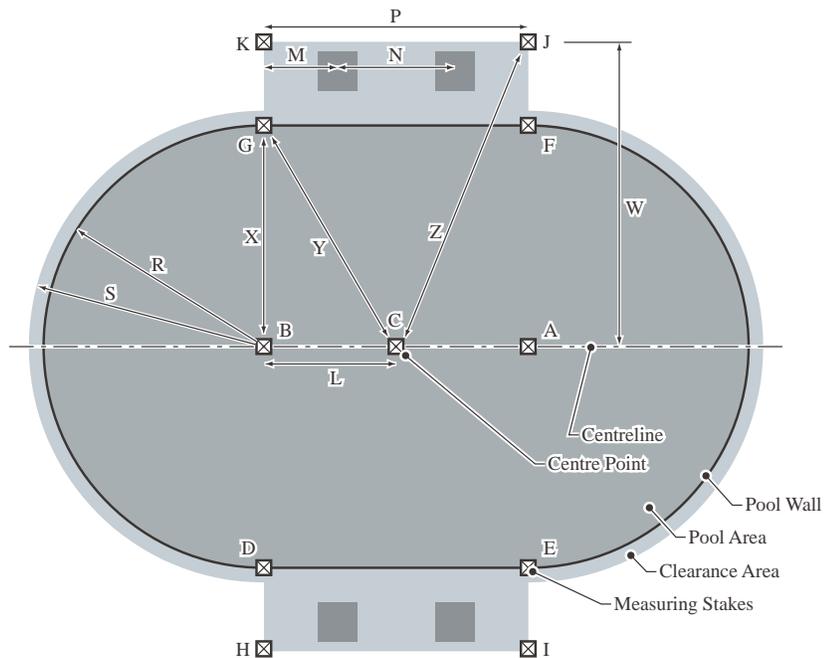
<b>R</b>	72" (183 cm)
<b>S</b>	84" (213 cm)
<b>L</b>	72" (183 cm)
<b>M</b>	24" (61 cm)
<b>N</b>	48" (122 cm)
<b>P</b>	144" (366 cm)
<b>W</b>	116" (295 cm)
<b>X</b>	72" (183 cm)
<b>Y</b>	101-3/4" (258 cm)
<b>Z</b>	136-1/2" (347 cm)



### 15 x 24 Oval Pool

#### Dimensions

<b>R</b>	90" (229 cm)
<b>S</b>	102" (259 cm)
<b>L</b>	54" (137 cm)
<b>M</b>	30" (76 cm)
<b>N</b>	48" (122 cm)
<b>P</b>	108" (274 cm)
<b>W</b>	134" (340 cm)
<b>X</b>	90" (229 cm)
<b>Y</b>	105" (267 cm)
<b>Z</b>	144-1/2" (367 cm)



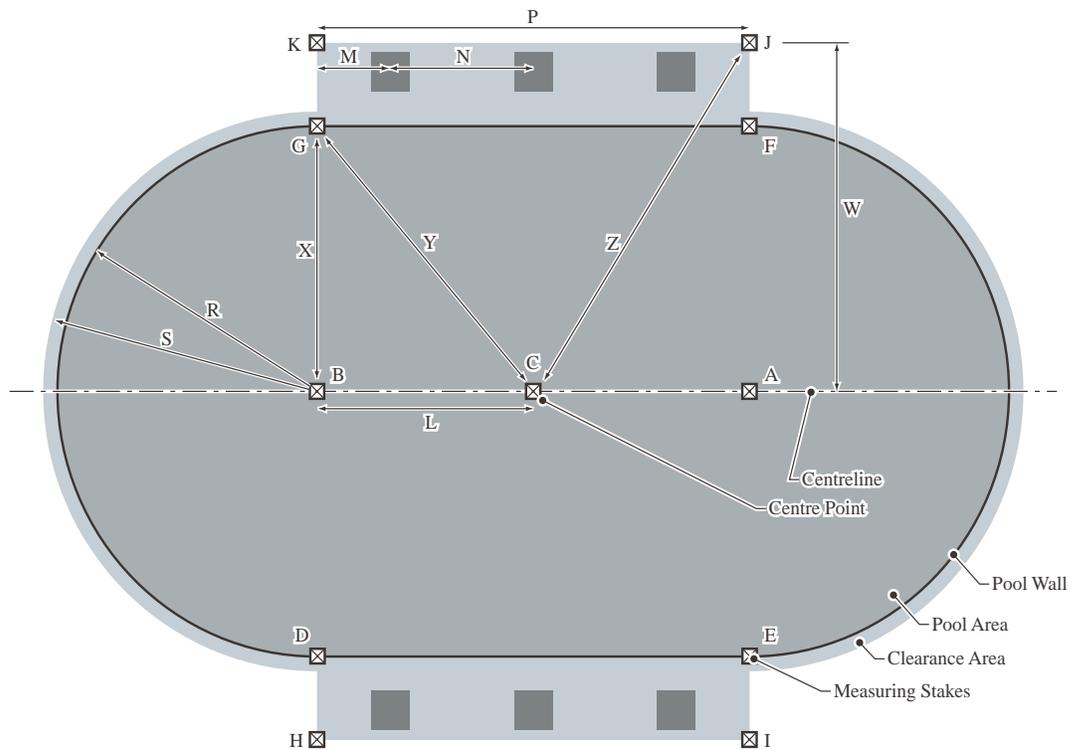
No Diving or Jumping.



Observe all Safety Rules.

## 18 x 33 Oval Pool Dimensions

<b>R</b>	108" (274 cm)
<b>S</b>	120" (305 cm)
<b>L</b>	90" (229 cm)
<b>M</b>	30-1/2" (77 cm)
<b>N</b>	59-1/2" (151 cm)
<b>P</b>	180" (457 cm)
<b>W</b>	152" (386 cm)
<b>X</b>	108" (274 cm)
<b>Y</b>	140-5/8" (357 cm)
<b>Z</b>	176-5/8" (449 cm)



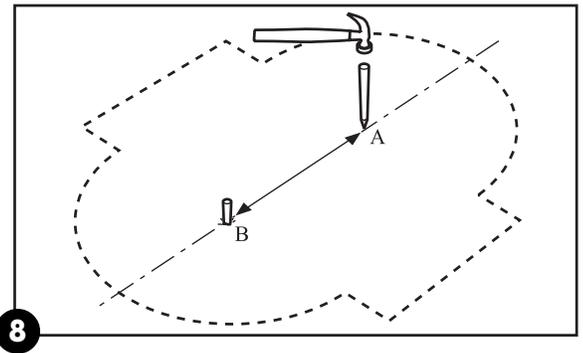
### Important:

Determine the location of your pool. **Make sure** you have the proper distances away from any adjacent structures (i.e. fences, house etc.). Contact local authorities for this information and any additional requirements governing the installation of a pool in your area.

By using the distances provided by local authorities and adding them to dimension **S** from the drawings above, you can calculate the location of the centreline of the pool.

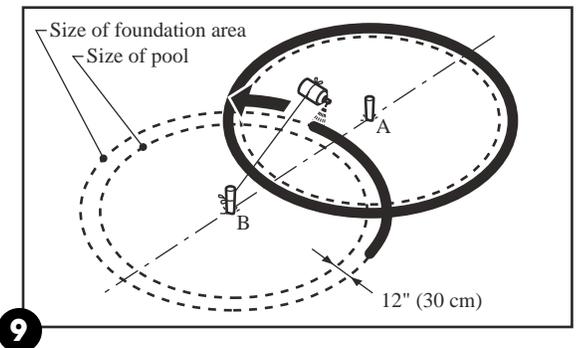
## 2. Mark out the Area

- Drive two pegs (A) and (B) into the ground. These pegs will both be on the **centreline** of your pool. Choose the right distance between them from the chart below. **Note:** Distance **A** to **B** is equal to dimension **P** on the pool drawings above.



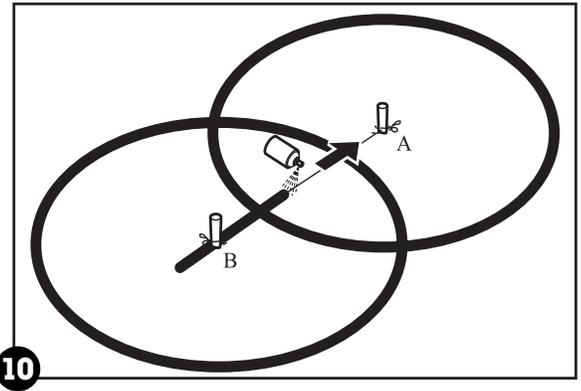
Pool Size	Distance between two pegs (A) and (B)
12' x 18'	72" (183 cm)
12' x 24'	144" (366 cm)
15' x 24'	108" (274 cm)
15' x 30'	180" (457 cm)
18' x 33'	180" (457 cm)

- Use a length of string tied between peg (A) and a can of spray paint, and mark a circle on the ground. Next, do the same for peg (B). Choose the length of string you need for your pool from the chart on the next page. The circles will be 12" (30 cm) bigger all round than the pool.



Pool Size	Length of String
12' x 18'	84" (213 cm)
12' x 24'	84" (213 cm)
15' x 24'	102" (259 cm)
15' x 30'	102" (259 cm)
18' x 33'	120" (305 cm)

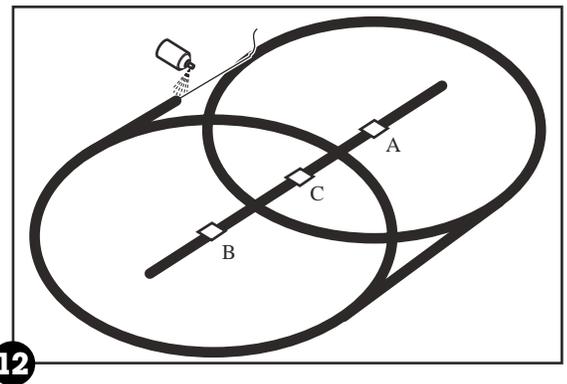
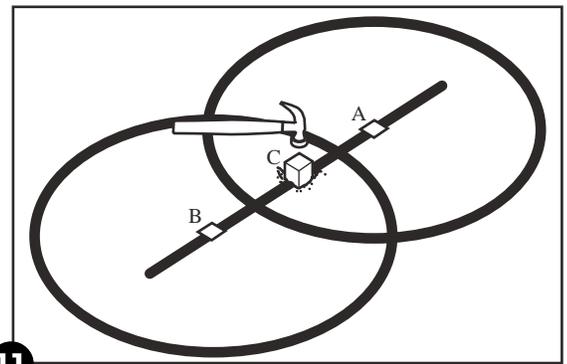
- c. Join the two pegs (A) and (B) with a piece of string. Use this string as a guide to paint your centreline on the ground with the can of spray paint.



**Important:**

Measure carefully to make sure the centre stake (C) is in the correct location, **exactly halfway** between pegs (A) and (B). You will use stake (C) later as a reference point for other measurements.

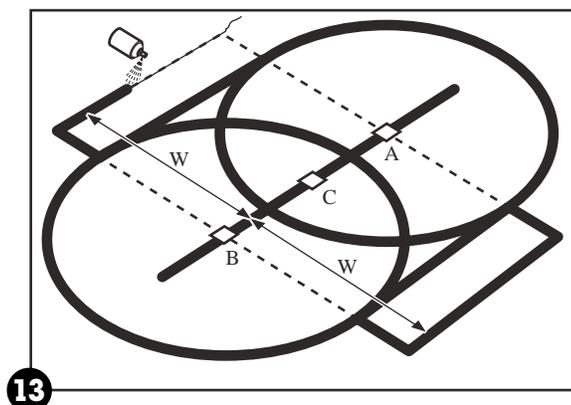
- d. Drive a flat-topped stake (C) **exactly halfway** between the two pegs (A) and (B) on the centreline. Stake (C) will mark the exact centre point of your pool. The stake must be at least 1" (25 mm) square and 6" (15 cm) long. Drive it down flush with the ground surface.
- e. Replace the two pegs (A) and (B) with two more flat-topped stakes. Drive them down flush with the ground surface.
- f. Join the two circles with straight lines to make an oval. Use pegs and a piece of string as a guide for the can of spray paint.



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 UK tel: 1 **01268 710425**  
 Sales@MyPoolDirect.co.uk



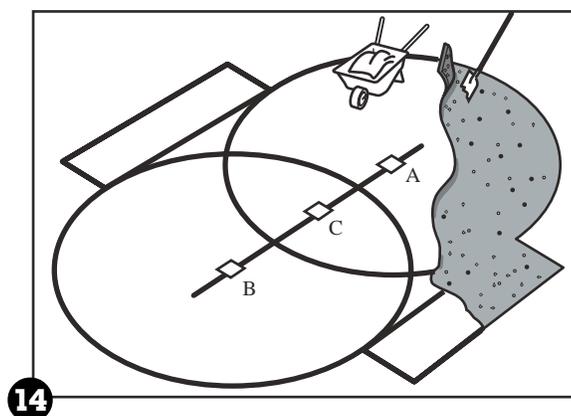
- g. Mark areas along both straight sides of your oval. Use pegs and string as a guide for the can of spray paint to mark straight lines. Use the chart below to find the correct **width W** from the centreline of the pool. The ends of the side areas should line up squarely with stakes (A) and (B).



Pool Size	Distance from Centreline for Side Area W
12' x 18'	116" (295 cm)
12' x 24'	116" (295 cm)
15' x 24'	134" (340 cm)
15' x 30'	134" (340 cm)
18' x 33'	152" (386 cm)

### 3. Remove the Sod

- Remove all sod and plants from the area.
- Remove any sticks, stones and roots from the area.



### 4. Make the Area Flat and Level

- You will use a 2-by-4 to help level the pool foundation area. Choose the length of **straight** 2-by-4 you need for your pool from the chart below.

Pool Size	Length of 2-by-4
12' x 18'	84" (213 cm)
12' x 24'	84" (213 cm)
15' x 24'	102" (259 cm)
15' x 30'	102" (259 cm)
18' x 33'	120" (305 cm)

- Adjust the height of the stake (A, B or C) that is located at the **lowest** end of the pool area by hammering it down until it is **exactly** level with the ground. Place a carpenter's level on a 2-by-4 and place the board across the three stakes to make sure the tops are exactly level with each other. Adjust the other two stakes down as needed.

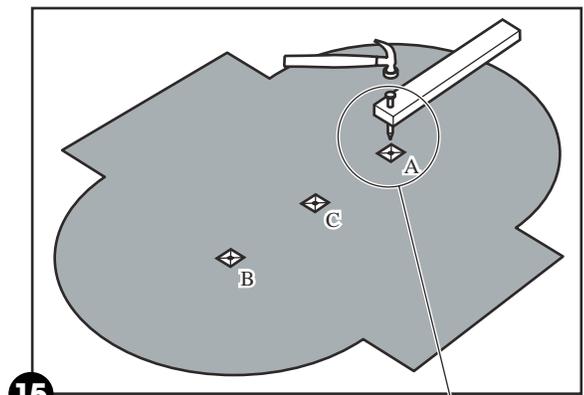


#### Remember:

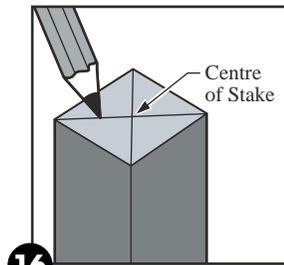
Your pool must be perfectly level. Take the time you need to be sure your foundation is perfectly level.



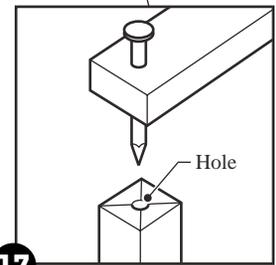
- c. Nail one end of the 2-by-4 to the top of the stake where the level of the pool foundation is **lowest**. Drill a hole for the nail in the **centre** of the top of the stake first and make the hole big enough so the nail is a little loose and can be removed without moving the stake. Mark the centre of the stake before you drill the hole by marking lines diagonally from opposite corners (see diagram 16). Use a nail long enough to hold the end of the 2-by-4 to the stake while you rotate it in a circle.



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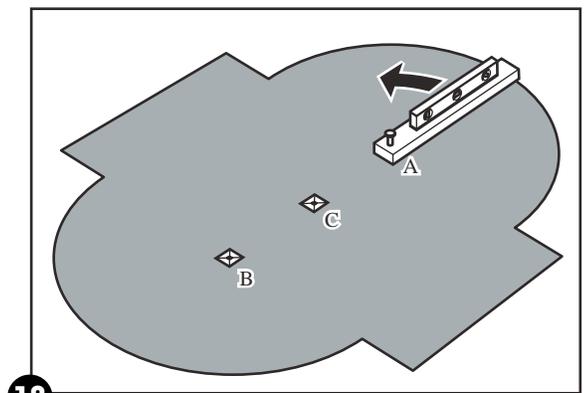


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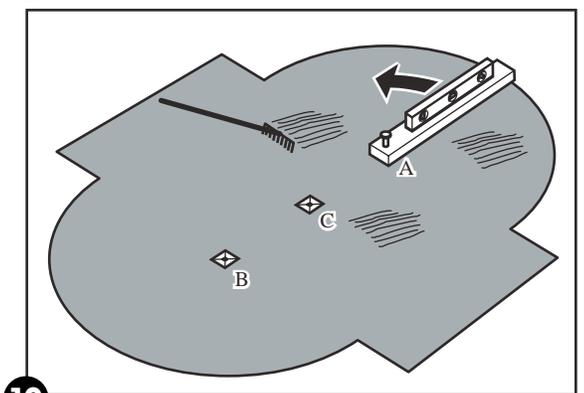
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- d. Put a carpenter's level on the 2-by-4 and swing the board in a circle to find the high and low spots.

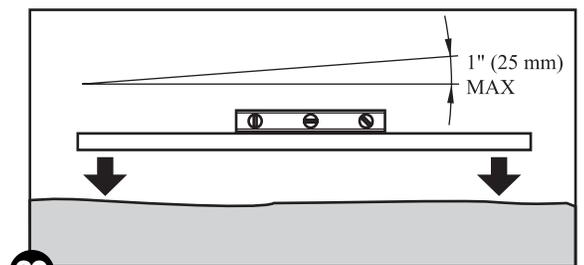


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- e. Remove all the high spots with a shovel, hoe or rake. Be prepared to hire earth-moving equipment if you need to level a large area. Remember, your pool **must** be level within 1" (25 mm) across the pool. If necessary, adjust the height of the stake and keep scraping away soil until the area is level.



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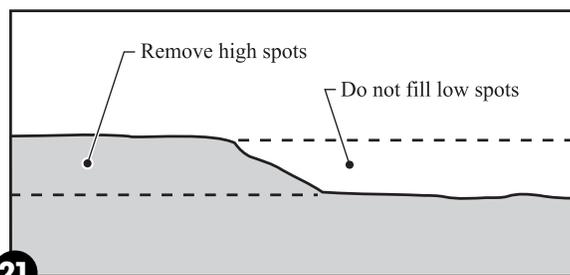


**Hint:**

Use a surveyor's transit instead of a carpenter's level, if one is available.



- f. **Do not** fill in low areas. Filling will create an unsafe foundation for your pool. Holes from small stones and small dips and hollows may be filled in, but the soil **must** be hard-packed with a tamping tool.

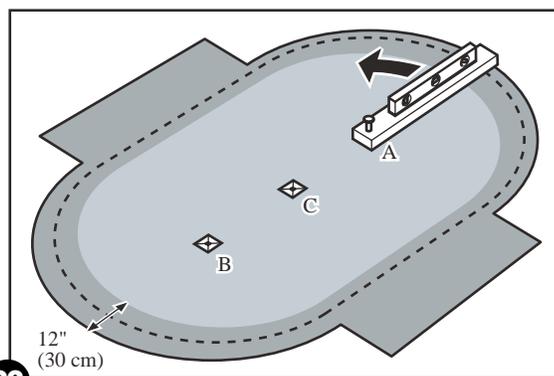


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- g. Remove the 2-by-4 from the stake and nail it to the next stake on the centreline.
- h. Repeat the last five steps until the whole oval area is level. Take your time and make sure the area is **perfectly level**. Remember, your pool **must** be level within 1" (25 mm) across the pool. If necessary, adjust the height of each stake and keep scraping away soil until the entire area is level.

- i. Make the wide areas along the sides of the oval level with the rest of the area.

- j. Recheck the outer 12" (30 cm) of the round ends, where the pool wall will be, and the areas along the straight sides of the oval. Make sure there are no high or low spots. The bottom edge of the pool **must** rest flat on the ground and have no gaps under it.

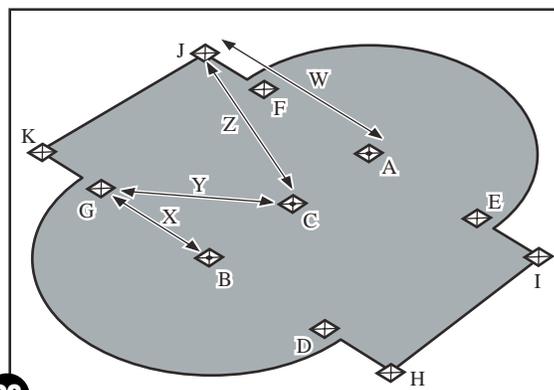


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## 5. Add Corner Stakes

- a. Prepare eight corner stakes (D), (E), (F) & (G), and (H), (I), (J) & (K) by marking the centre point of each stake the same way as in step 4(c).

- b. Drive the eight corner stakes into the ground. Drive them down flush with the ground surface. Locate each stake exactly by using the measurements for your pool in the chart below. Be sure to measure using the centre point of each stake.



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- c. Tie strings between stakes (H) and (I) and between (J) and (K)

Pool Size	Distance X	Distance Y	Distance W	Distance Z
12' x 18'	72" (183 cm)	80-1/2" (204 cm)	116" (295 cm)	121-1/2" (309 cm)
12' x 24'	72" (183 cm)	101-3/4" (258 cm)	116" (295 cm)	136-1/2" (347 cm)
15' x 24'	90" (229 cm)	105" (267 cm)	134" (340 cm)	144-1/2" (367 cm)
15' x 30'	90" (229 cm)	127-1/4" (323 cm)	134" (340 cm)	161-1/2" (410 cm)
18' x 33'	108" (274 cm)	140-5/8" (357 cm)	152" (386 cm)	176-5/8" (449 cm)



### Remember:

The outer 12" (30 cm) of the cleared oval area must be perfectly flat. The bottom edge of the pool **must** rest flat on the ground and have no gaps under it. Take the time you need to be sure this area is perfectly flat and level.



### Hint:

Instead of wooden corner stakes, you can use 12" (30 cm) spikes.



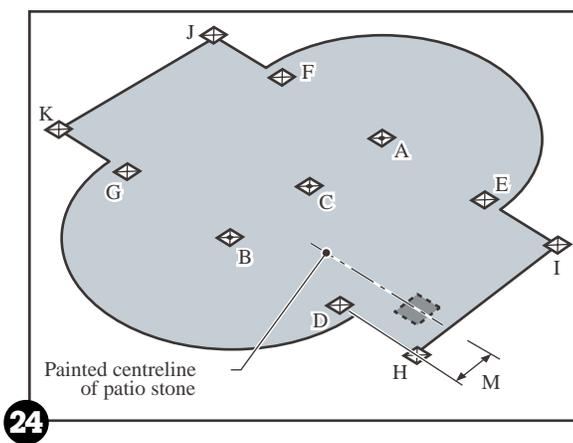


**Important Note:**

If the pool is being installed on a poured **concrete** pad the installation of the patio stones is not required. Complete the layout for the centerlines of the pool as described in **step 6** and proceed to **step 7**.

**6. Prepare Patio Stones**

- a. Locate the first patio stone by measuring the **distance M** from the centre of stake (H) to the **centreline** of the stone. Use the chart below to find the right distance M for your pool.
- b. Place a stake in the ground on the edge of the cleared area at distance M, underneath the string added in step 5(c).

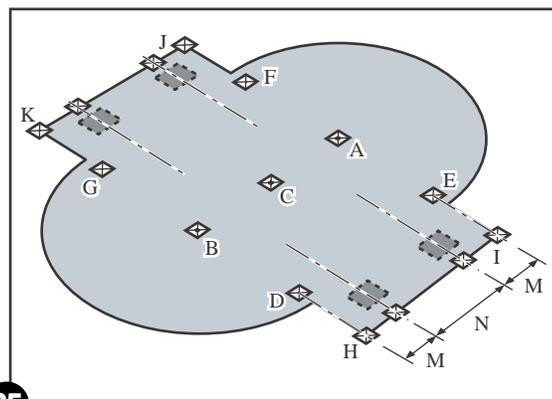


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Pool Size	Distance from Stake to Patio Stone Centreline M	Distance between Patio Stones N
12' x 18'	36" (91 cm)	n/a
12' x 24'	24" (61 cm)	48" (122 cm)
15' x 24'	30" (76 cm)	48" (122 cm)
15' x 30'	30-1/2" (77 cm)	59-1/2" (151 cm)
18' x 33'	30-1/2" (77 cm)	59-1/2" (151 cm)

(n/a = not applicable)

- c. Repeat steps (a) and (b) to locate the next patio stone along the side of the pool. Measure the **distance N** from the centreline of the first patio stone to the centreline of the next patio stone. Use the chart above to find the right distance N for your pool. (**Important Note:** The 12 x 18 pool has only **one** patio stone per side; the 15 x 24 pool has two patio stones per side; the 12 x 24, 15 x 30 and 18 x 33 pools all have three patio stones per side.)



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- d. Place another stake in the ground on the edge of the cleared area at distance N, underneath the string added in step 5(c).
- e. Repeat steps (a) to (d) for the other side of your pool.
- f. Tie a string between each pair of stakes on opposite sides of the cleared area (the stakes added in steps (b) and (d), above) to mark the centreline of the patio stones.
- g. Mark the centrelines along each string with the can of spray paint.
- h. Recheck your measurements. Make sure the distances M and N **exactly** match the distances given in the chart above (see also diagram 26) and that the centrelines for the patio stones are **exactly parallel**.
- i. Remove the strings. (**Note:** Keep the strings. They will be temporarily replaced later, after the patio stones are dug out, to help you doublecheck that the trenches are parallel.)





**Hint:**  
**Crushed limestone** or equivalent **must** be used instead of brick sand or vermiculite to backfill the patio stone trenches. The level of compaction achieved by using crushed limestone or equivalent is superior to that of brick sand or vermiculite.

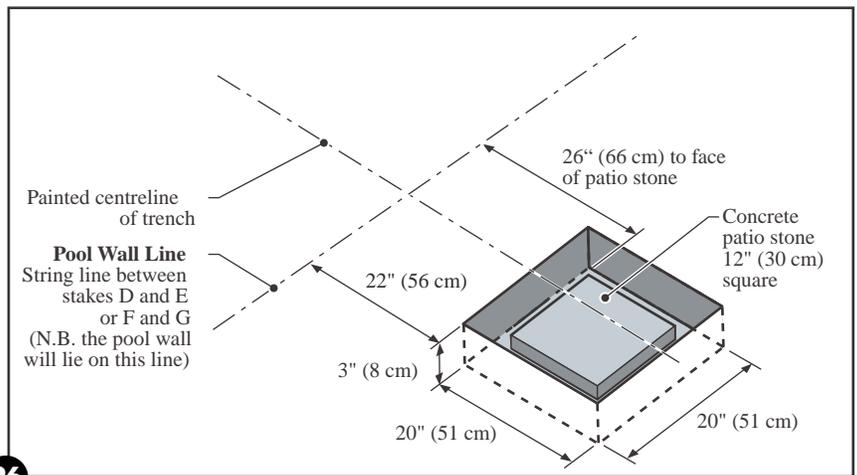


**Caution:**  
 Brick sand or vermiculite **cannot** be used on any part of the buttress installation process. These materials have poor compaction properties that can cause problems with the buttresses after the pool has been filled with water.



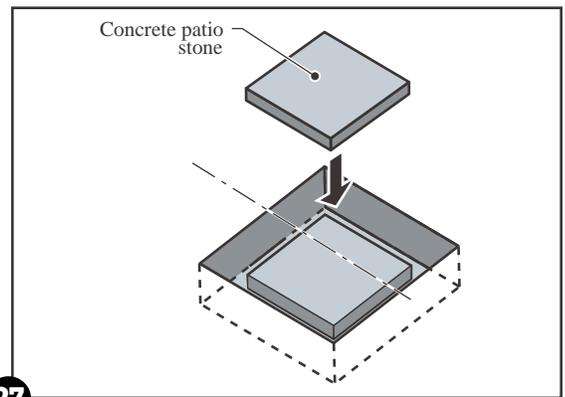
**Caution:**  
 Make sure there is **adequate drainage** in the bottom of each trench and along the sides of the pool area. There **must** be adequate drainage for a safe and secure pool foundation.

- j. Carefully dig out each patio stone trench. Measure from the centreline painted on the ground and the line between the stakes. Do not dig the trenches too large or too deep; the ground around the edges of each trench must remain firm and undisturbed.



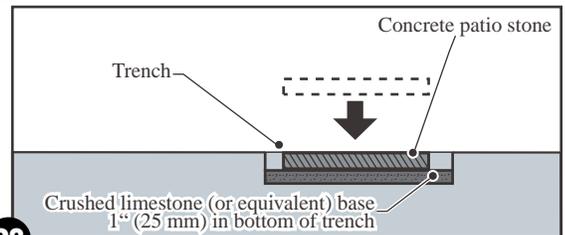
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- k. Temporarily replace the strings removed in step (i) to check that the trenches are **exactly parallel**. Remove the strings again when you are finished.



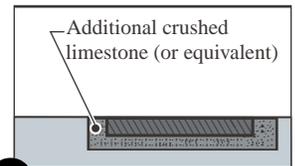
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- l. Spread a layer of crushed limestone (or equivalent) 1" (25 mm) thick into the bottom of the of each trench. Pack firmly.  
 m. Place a concrete patio stone 12" x 12" square x 2" thick (30 x 30 x 5 cm) into each trench, on top of the limestone layer. Make sure it is level and positioned correctly.



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- n. Fill the trenches in with crushed limestone (or equivalent). Fill them up to the top edges of the patio stones. If the limestone is dry spray it with some water to help with the compaction. Stand on the patio stone and tamp down the limestone until a solid base is achieved (standing on the patio stone helps prevent the stone from moving). Add additional limestone as required. Do not tamp too hard or the patio stone will move.  
 o. Recheck the distances between the patio stone and make any adjustments you need to make sure the spacing is **exactly** right. Refer to page 1-10, Step 6 for measurements.

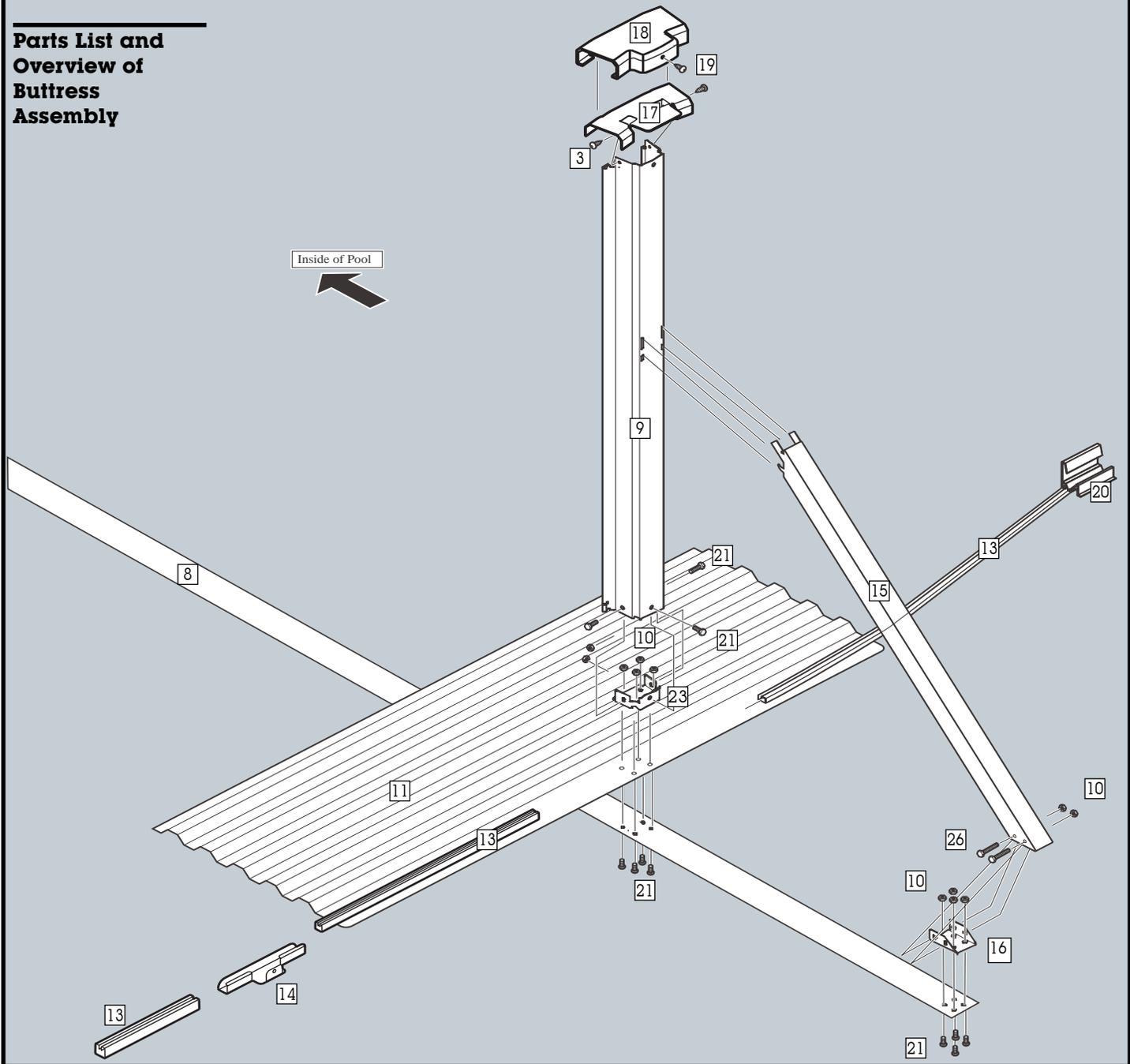


29

• **See the drawing on the next page for an overview of all the parts used to install the buttresses, verticals and base rails.**



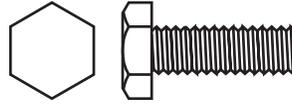
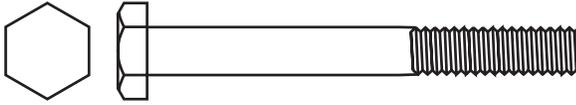
**Parts List and Overview of Buttress Assembly**



Key Part Name	Part No.	Qty.
9 Upright	(pool specific)	
15 Diagonal	(pool specific)	
16 Diagonal Bracket	1320152	1
8 Strap	(pool specific)	
11 Hold Down Plate	1320162	1
13 Curved Bottom Rail	(pool specific)	
14 Base Plate	(pool specific)	
17 Buttress Top Plate	(pool specific)	
18 Resin Top Plate	(pool specific)	
20 Rail Support	(pool specific)	
23 Base Plate	1320154	1

Key Part Name	Part No.	Qty.
- Hardware Bag (Yellow)	1184292	1
<i>1 per set of buttresses; each bag contains:</i>		
10 1/4"-20NC serrated flange hex nut	1184052	26
3 No. 12 x 1/2" self-tapping screw, pan head Phillips	1183273	20
21 1/4"-20NC x 3/4" hex bolt	1184275	22
26 1/4"-20NC x 2-1/4" hex head bolt	1184276	4

# HARDWARE FOR CHANNEL LOK-II POOLS

DESCRIPTION	PART NUMBER	ACTUAL SIZE	TOOL REQUIRED FOR INSTALLATION
SELF TAPPING SCREW #12 x 1/2 INCH LONG	1183273		PHILLIPS NUMBER 3 SCREWDRIVER OR RED HANDLE #2 ROBERTSON SCREWDRIVER
SERRATED FLANGE HEXAGON NUT 1/4-20	1184052		7/16 INCH WRENCH OR SOCKET
HEXAGON HEAD BOLT 1/4-20 x 3/4 INCH LONG	1184275		7/16 INCH WRENCH OR SOCKET
HEXAGON HEAD BOLT 1/4-20x2-1/4 INCH LONG	1184276		7/16 INCH WRENCH OR SOCKET



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## 7. Strap Preparation for the Buttresses

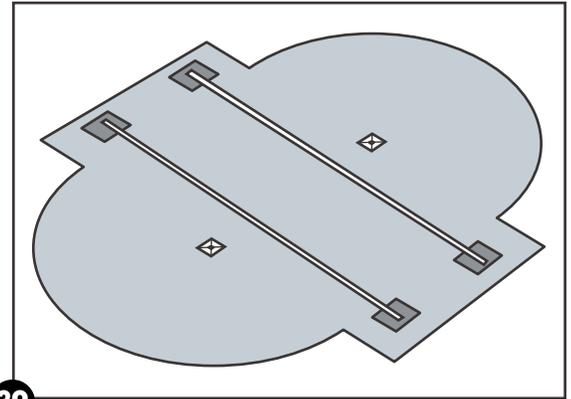
- a. **Gently** flatten any kinks or bends out of the straps (key 8).
- b. Lay the strap across the levelled area for the pool as shown in diagram 30. Centre the strap over the patio stone as shown in diagram 30.



**Hint:**  
**Crushed limestone** or equivalent **must** be used instead on brick sand or vermiculite to backfill the base channels. The level of compaction achieved by using crushed limestone or equivalent is superior to that of brick sand or vermiculite.

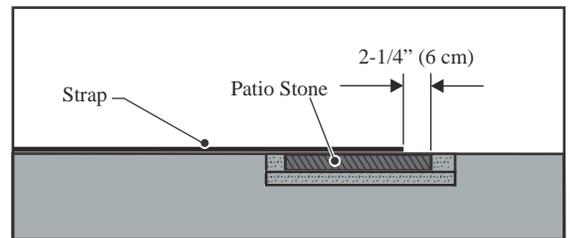


**Caution:**  
Brick sand or vermiculite **cannot** be used on any part of the buttress installation process. These materials have poor compaction properties that can cause problems with the buttresses after the pool has been filled with water.



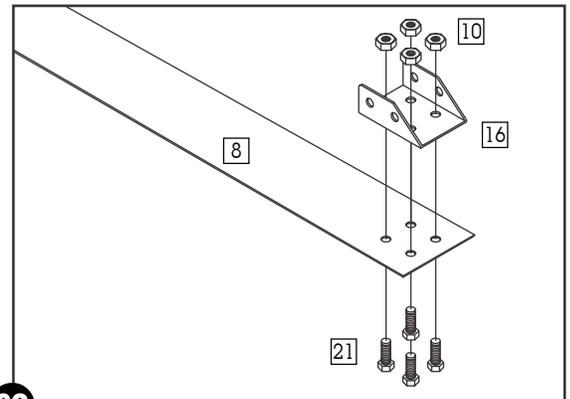
30

Space the end of the strap 2-1/4" (6 cm) from the outside edge of the patio stone.



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- c. Fasten one diagonal bracket (key 16) to the strap (key 8) using four 3/4" long bolts (key 21) and nuts (key 10). Make sure the angled part of the bracket is facing the correct direction as shown in diagram 32. The surface that the diagonal bracket is fastened to will be the top of the strap.



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- d. Repeat steps (a) to (c) for the other end of the strap.
- e. Repeat steps (a) to (d) for the other straps.





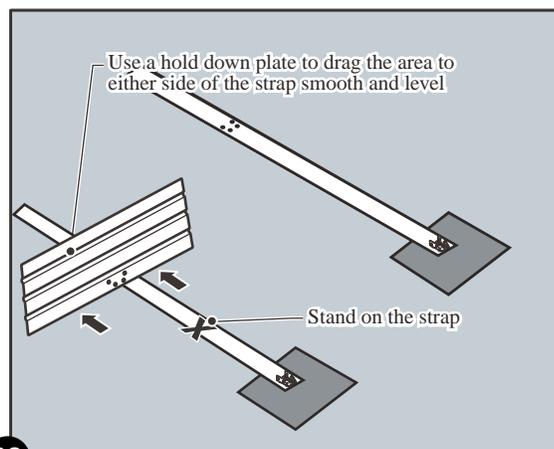
**Hint:**

Use one end of a 2-by-4 as a tamping tool. Spray the crushed limestone with water before packing it down hard.

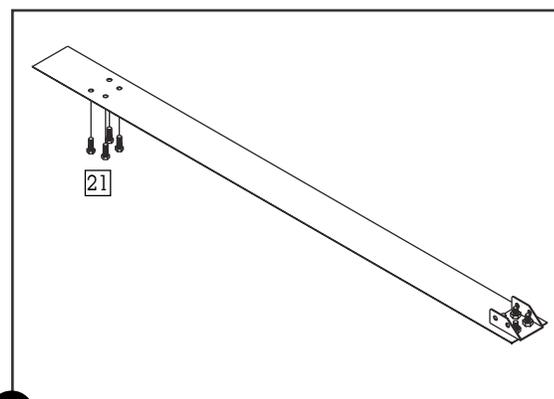
## 8. Installing the Upright

a. Using a straight edge (you can use one of the hold down plates), drag along the top edge of the strap to ensure the ground is **exactly** even and level with the strap (the area 24" (61 cm) beyond each side of the strap must be level too). If it is not level, spread some crushed limestone (or equivalent) on the ground. Stand on the strap and tamp it down hard with a tamping tool. Verify the ground is level to the strap by running the straight edge along the top edge of the strap. Repeat this step until the ground is level.

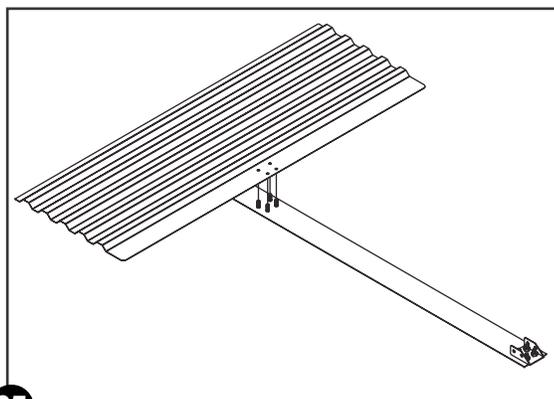
b. Gently lift the strap and insert four 3/4" long bolts (key 21) into the holes closest to the centre of the pool. Ensure the bolt heads are facing the ground. Lay the strap back down on the ground and place the hold down plate and base plate (as shown in diagram 36) over the bolts protruding from the strap and fasten the nuts to the bolts and tighten.



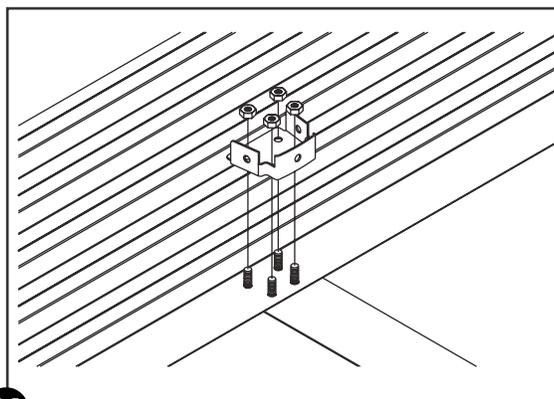
33



34



35



36

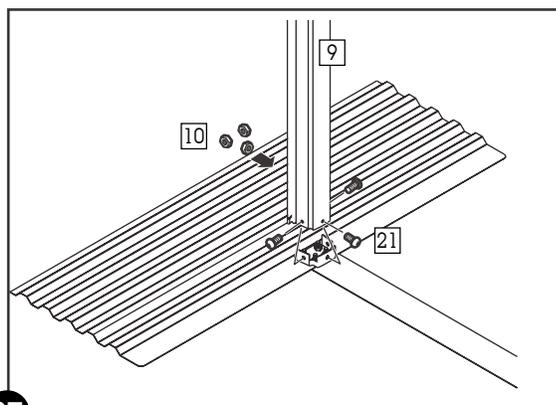




**Caution:**

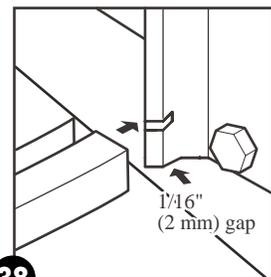
Failure to properly install and tighten all of the bolts and nuts may void the warranty on your pool.

- c. Fasten one upright (key 9) to the base plate using three 3/4" long bolts (key 21) and nuts (key 10). Make sure the bottom end of the upright is fastened to the base plate. The bottom end of the upright has three large holes which are used to fasten to the base plate.



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- d. When you come to section 2, you will install the base rails, linking them to the buttresses. Make sure now that there is approximately a 1/16" (2 mm) gap under the tab at the bottom of each upright so the bottom rails slide on easily.



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- e. Repeat steps (a) to (d) for the other side of the pool.

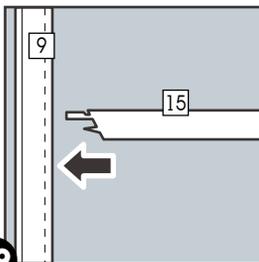
**9. Install the Diagonals**

- a. Hold one diagonal brace (key 15) approximately horizontal, insert the four tabs at the end of the diagonal into the slots in the upright (key 9) (see diagram 39).
- b. Pull upward on the inserted end of the diagonal to make the tabs slide up and lock into position in the slots. At the same time, swing the other end of the diagonal down onto the diagonal bracket (key 16) on the base channel (see diagrams 40 and 41).

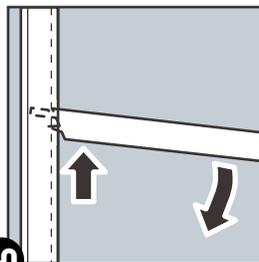


**Important:**

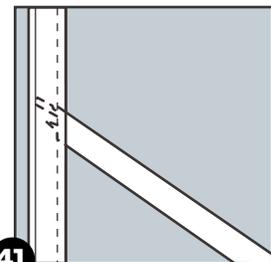
Ensure all four tabs at the end of the diagonal are inserted into the slots in the upright.



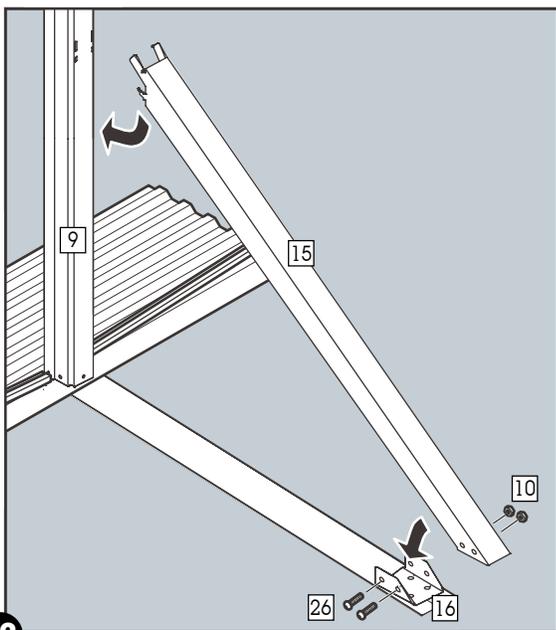
39



40



41



42

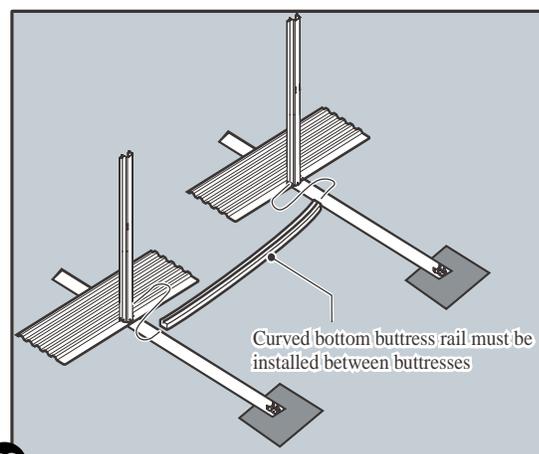


**Very important:** as you swing the diagonal down, make sure you apply constant upward pressure on the end of the diagonal brace with the tabs to ensure they stay fully locked in position in the slots.

- c. Fasten the bottom end of the diagonal brace to the diagonal bracket (key 16) with two 2-1/4" (57 mm) bolts (key 26) and nuts (key 10). **Do not** overtighten the bolts. They only need to be snug enough to ensure a secure fit (see diagram 42).
- d. Repeat steps (a) to (c) for the other side of the pool.
- e. Repeat steps (7) to (9) for the rest of the buttresses.

## 10. Buttress Location Verification

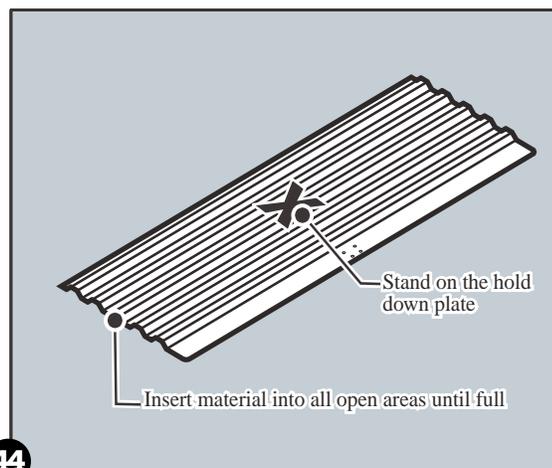
- a. Tie strings between stakes (D) and (E) and between (F) and (G). These will be used as a reference to make sure the buttresses are exactly lined up with each other. Stand at each corner of the pool and check the alignment of the buttresses with the strings.
- b. Jump to Section 2 and complete steps 1(a) and (b). This will allow you to install the bottom buttress rails, ensuring the correct distance between the buttresses. **Important:** complete only steps 1(a) to (c) for now, and then continue with step 11 below; you will complete the rest of Section 2 later.



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## 11. Fill in the Hold Down Plates

- a. Standing on the hold down plate, insert material into all open voids on the outside edges of the hold down plates until they are full. These voids are the open areas between the ground and the top edges of the hold down plate. This will prevent any low spots from forming around the hold down plates when the pool is filled with water.



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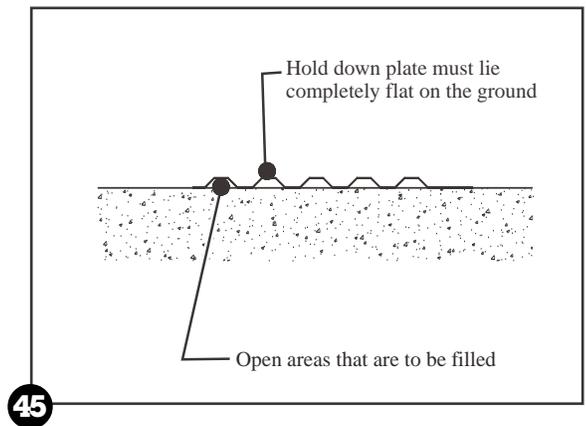


### Important:

After the ends of the hold down plate has been filled with material, place a sheet of plastic (approximately 15" x 15") at each end of the hold down plate. This will prevent any additional material from flowing into the ends of the hold down plate that may cause low spots to form around the plates.



**Important:** Make sure each hold down plate lies completely flat. The hold down plate **must** lie flat or it may lift and damage the pool liner after the pool is filled with water.



b. Repeat step (a) for the other hold down plates.

## 12. Remove the strings and stakes

a. Make sure all of the strings and stakes (**except** stakes (A) and (B)) are removed from the entire pool area and fill in any holes with crushed limestone (or equivalent). Leave stakes (A) and (B) in place for now; they will be used later to centre the pool wall.



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# Assembling the Pool Base & Side Buttresses

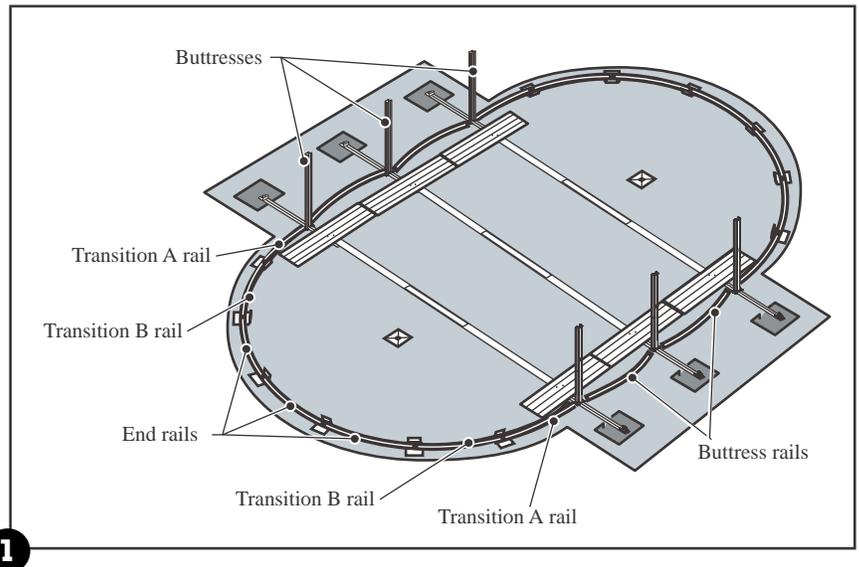
**1. Install the Curved Bottom Rails**

a. Each pool uses two, three or four different types of curved bottom rails (key 13). The rails are colour coded or stamped with a part number. Use the chart below to choose the types and quantities of bottom rails for your pool (part numbers are shown in brackets under each colour).

Pool Size	Quantity and Colour Code (with part numbers.)			
	Buttress Rail	Transition Rail A	Transition Rail B	End Rail
12' x 18'	n/a	4 blue (no. 1460134)	n/a	6 plain (no. 1460061)
12' x 24'	4 white (no. 1460105)	4 black (no. 1460135)	n/a	6 plain (no. 1460061)
15' x 24'	2 white (no. 1460105)	4 red (no. 1460136)	n/a	8 plain (no. 1460062)
15' x 30'	4 green (no. 1460033)	4 red (no. 1460136)	n/a	8 plain (no. 1460062)
18' x 33'	4 green (no. 1460033)	4 red (no. 1460136)	4 yellow (no. 1460064)	6 plain (no. 1460063)

(n/a = not applicable; plain = no colour code)

The 18 x 33 pool is the only size that uses all four types of rails. Diagram 1 shows the locations for each type.

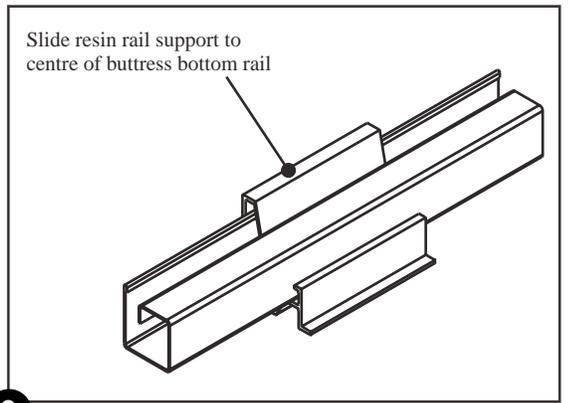
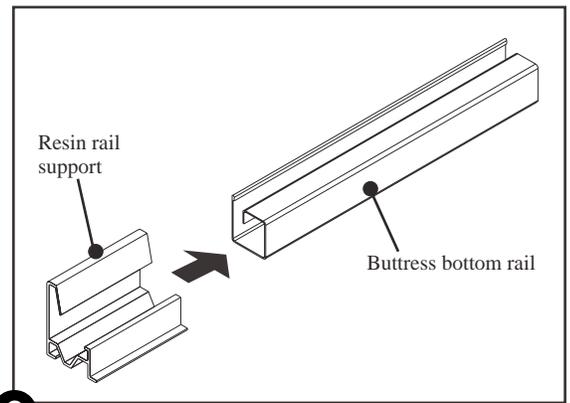




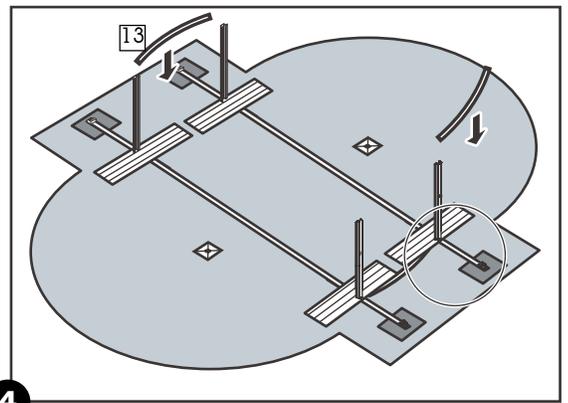
**Hint:**

When measuring the distance to the face of each base plate, use a piece of string longer than required and place a mark on the string at the required distance.

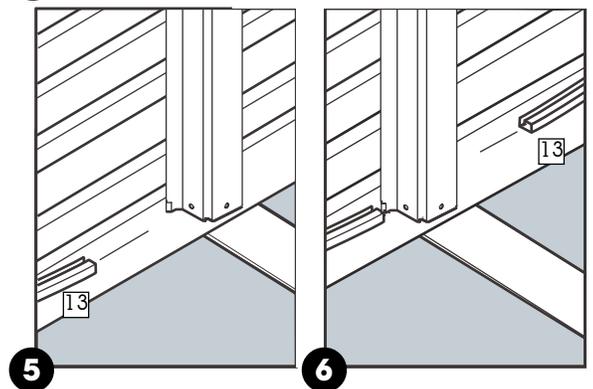
- b. The pool has been supplied with resin rail supports. If you have a 12 x 18 pool proceed to step (d). For all other pools slide the resin rail support to the middle of the buttress bottom rail as shown in diagrams (2) and (3). Repeat this step for all other buttress bottom rails.



- c. Insert the **buttress rails** between the buttresses (if you have a 12 x 18 pool, skip step (c) and go to step (d)). The bottom rails insert into the notch in the upright. Make sure the groove faces up.



- d. Insert the **transition A rails** (key 13). Slide one end of each rail into the notch in the upright (see diagrams 5 and 6) and slide the other end together with a base plate (key 14) (see diagrams 9, 10 and 11).



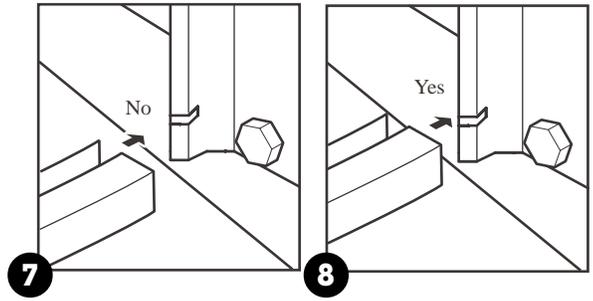


**Note:**

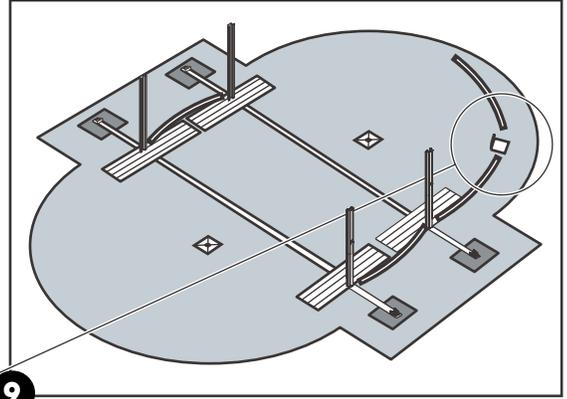
If you want, the patio stones around the round ends of the pool may be round instead of square, or they can be left out completely. The patio stones in the trenches under the buttresses along the straight sides **must** be used, even if you don't have them on the round ends.

If you want, instead of using patio stones you can make **crushed limestone pads**. Dig a 12" x 12" (30 x 30 cm) square hole 2" (5 cm) deep and fill the hole with crushed limestone, packing it down hard. Spray the crushed limestone with water as you pack it down.

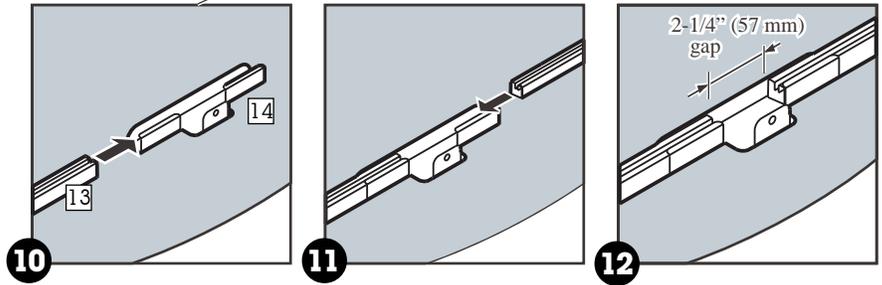
**Important:** make sure you slide the rail into the notch so the closed, square part of the rail is in the notch, **not** the open groove part of the rail (see diagrams 7 and 8).



- e. Slide the other end of the **transition A rail** together with a base plate (key 14).
- f. If you have an 18 x 33 pool, insert the **transition B rails** (if you have any other size pool, skip to step (g)). Leave a 2-1/4" (57 mm) gap between the ends of the rails (see diagram 1 on page 2-1 for the 18 x 33 pool).



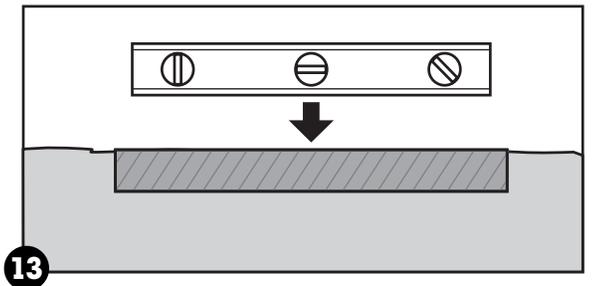
- g. Lay out the end rails and base plates on both rounds ends of the pool area.



Using a piece of string attached to the centre of stake (A), measure the distance to the face of each base plate and make sure it is the same as dimension R (see pages 1-3 through 1-5). (Note: this step will not work on the buttress rails or transition rails.)

- h. Insert the end rails. Leave a 2-1/4" (57 mm) gap between the ends of the rails.

- i. Optional concrete patio stones may also be used under each base plate on the round ends of your pool. Patio stones 12" (30 cm) square or larger will do. They **must** be sunk into the ground so the tops are flush with the soil around them. Use the carpenter's level to make



sure the patio stones are perfectly level and flush with the ground. Use the carpenter's level and a 2-by-4 between patio stones to make sure the stones are level with each other.

- j. Use a carpenter's level as you install each curved bottom rail to make sure it is level.
- k. Remove all the wooden stakes from the ground.

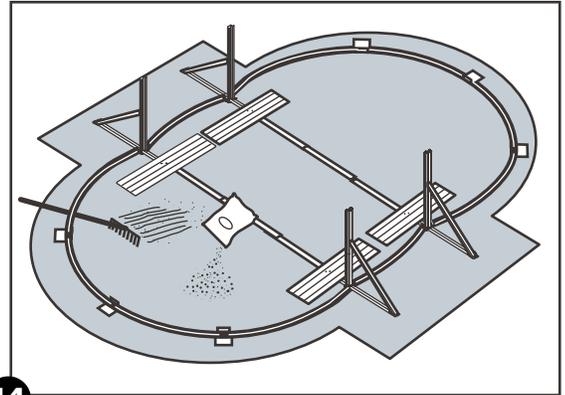


**Remember:**

Spread brick sand or sheets of styrofoam out over the entire pool foundation area inside the base rails. This provides a protective surface for the pool liner to rest on.

**2. Spread out Brick Sand**

- a. Make sure any screw or bolt heads that are to be covered with sand or styrofoam are covered with duct tape first.
- b. Make sure all of the trenches are completely filled with crushed limestone (or equivalent).
- c. Spread a layer of fine brick sand (no pebbles) over the foundation area, 2" (5 cm) deep. Use a rake to make the brick sand flat and smooth. **Instead** of brick sand, you can use 1" or 1-1/2" (25 or 38 mm) thick sheets of styrofoam. Cut the sheets to fit. Remove the Styrofoam until the wall is installed. Reinstall the styrofoam sheets and join them with duct tape along the whole length of each seam. Remember to wait until the pool wall has been installed before installing the Styrofoam.



**3. Proceed to Section 3**

- a. Continue with Section 3 to assemble your pool. **Important:** read the **Additional Installation Information** below before proceeding with the instructions in Sections 3 and 4.
- b. The remaining pages of Section 2 contain information you **must** use after you finish assembling your pool.

## Additional Installation Information for Section 3

**When you come to Section 3, Part A, add the following steps:**



**Remember:**

Do not fill the pool with more than 12" (30 cm) of water until the vertical columns and the top rails are all attached.

- a. It is **important** that the pool wall be evenly distributed **at both ends** of the pool to ensure that all the top rails fit. As the wall is uncoiled and placed into the bottom rails it is important to maintain approximately 2-1/4" (57 mm) gap between the bottom rails or the top rails may not fit.
- b. After the wall is installed, go around the entire pool and make sure all the gaps between the bottom rails are **equal** in size (the gaps may each finish slightly smaller or larger than 2-1/4" (57 mm), depending on your pool size). Recheck all of the base plates to make sure each one is centred between the base rails.



- c. After the pool wall has been installed, reconfirm distances to the base plates. **Make sure** the round ends of the pool have been properly located or the pool wall will not be symmetrical.

**When you come to Section 3, Part A, replace Step 1(d) with the following:**

**1. Set the Pool Wall in place**

- d. The slotted tubes are colour coded or stamped with a part number. Use the chart below to choose the types and quantities of slotted tubes for your pool (part nos. are shown in brackets under each colour). Set lengths of slotted tube onto the top edge of the wall as you uncoil it and join the slotted tubes with connectors as you go, leaving a 1/2" (13 mm) gap between each. (If you have a **beaded pool liner**, set lengths of **liner retainer** on the top edge of the wall first, then the slotted tubes and connectors.)

Pool Size	Quantity and Colour Code (with part nos.)			
	Buttress Tube	Transition Tube A	Transition Tube B	End Tube
12' x 18'	n/a	4 blue (no. 1470127)	n/a	6 plain (no. 1470126)
12' x 24'	4 white (no. 1470105)	4 Black (no. 1470129)	n/a	6 plain (no. 1470126)
15' x 24'	2 white (no. 1470105)	4 green (no. 1470100)	n/a	8 plain (no. 1470097)
15' x 30'	4 green (no. 1470100)	4 green (no. 1470100)	n/a	8 plain (no. 1470097)
18' x 33'	4 green (no. 1470100)	4 green (no. 1470100)	4 green (no. 1470100)	6 plain (no. 1470098)

(n/a = not applicable; plain = no colour code)

When you come to **Section 3, STEP 6**, insert the following extra steps 2(f), (g) and (h) after step 2(e):



**Hint:**

Using a 2" (5 cm) piece of duct tape, the ends of the 6" (15 cm) metal slotted tube connector over the slotted tubes and onto the pool wall. This will prevent the slotted tubes from moving during liner installation.



**Hint:**

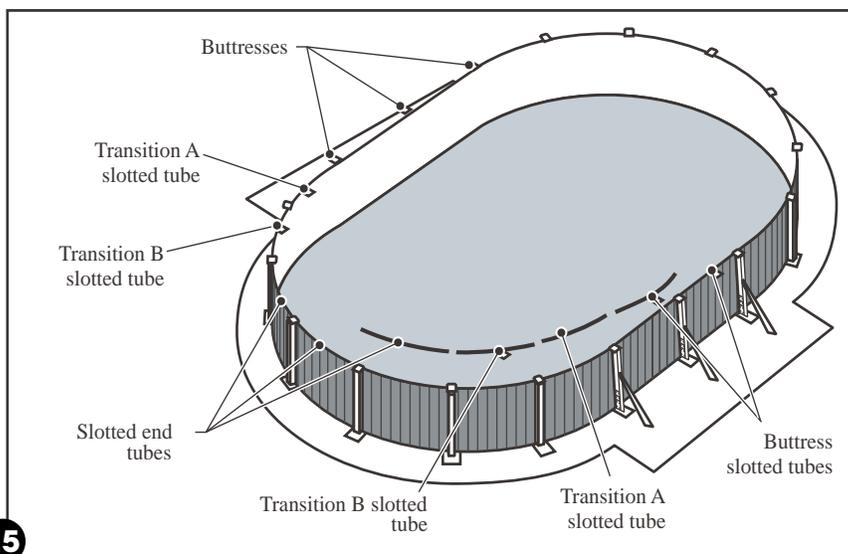
Use duct tape at the top of each buttress to temporarily hold the pool wall from falling in before it is properly fastened in place.



**Hint:**

Secure the slotted tube connector to the wall with a piece of duct tape after installation to prevent it from lifting off the wall.

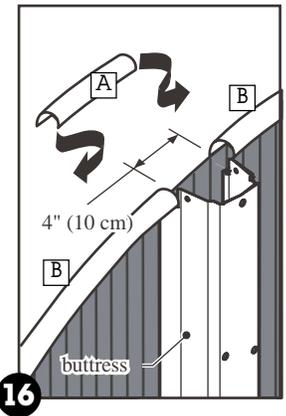
The 18 x 33 pool is the only size that uses all four types of slotted tubes. Diagram 18 shows the locations for each type.



**When you come to Section 3, Part A, insert the following extra Steps 2(f), (g) and (h) after Step 2(e):**

## 2. Join the Ends of the Pool Wall

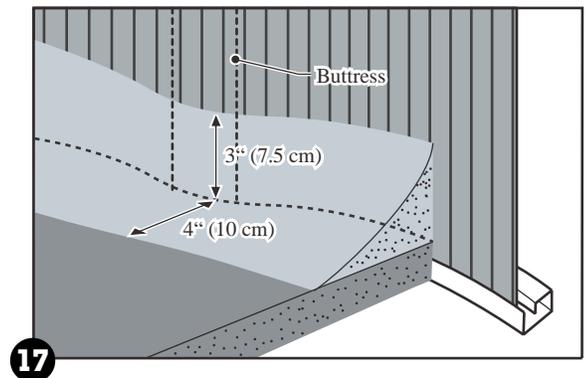
- f. Before proceeding, make sure the pool liner is completely installed and all of the slotted tubes and connectors are in place.
- g. At the top of each **buttress**, make sure the distance between the ends of the slotted tubes on the top edge of the wall is 4" (10 cm). Insert the plastic tube (key A) into the **inside** of the slotted tubes (key B) to fill the 4" (10 cm) space. The plastic tubes are inserted **only** in the spaces along the straight sides of the pool where the buttresses are located, **not** around the round ends of the pool. Make sure the plastic tubes are correctly installed or else when you install the top plates later they will not fit properly.
- h. Where there are no buttresses installed, the space between the ends of the slotted tubes at the tops of the verticals should be about 1/2" (13 mm).



**When you come to Section 3, Part A, insert the following extra Step 5(c) after Step 5(b):**

## 5. Make a Cove

- c. Along the sides of the pool, each of the buttresses make the wall scallop inward slightly. The cove at the bottom of the wall will be a little narrower and shorter at these points. Make sure the dimensions of the cove where it passes the buttresses match diagram 20 for a correctly shaped cove.



**When you come to Section 3, Part B, replace Step 4(a) with the following:**

## 4. Fasten the Liner in place (Beaded Liner only)

- a. When installing the beaded liner retainer the ends must be at least 12" away from any buttress or it will be difficult to attach the top plates later. The beaded liner retainer may need to be cut to complete the installation. **Important:** make sure the segments of liner retainer are put on the top edge of the wall.
- b. Lift the sides of the liner and insert the beaded edge into the liner retainer on the top edge of the pool wall.



# Additional Installation Information for Section 4

When you come to Section 4, Part A, replace Step 2 with the following:

## 2. Install the Vertical Columns and Top Rails

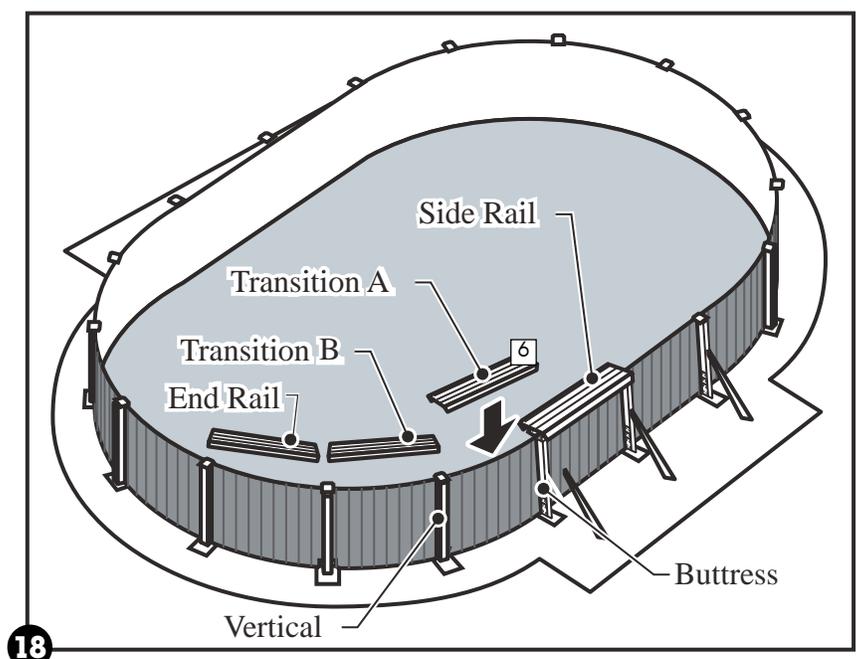
**Note:** You must use any additional components that come with your pool and are required for proper assembly as described in your manual Section 4.

- a. Each pool uses two, three or four different types of curved top rails (key 6). The rails are colour coded or stamped with a part number. Use the chart below to choose the types and quantities of top rails for your pool (part numbers are shown in brackets under each colour).

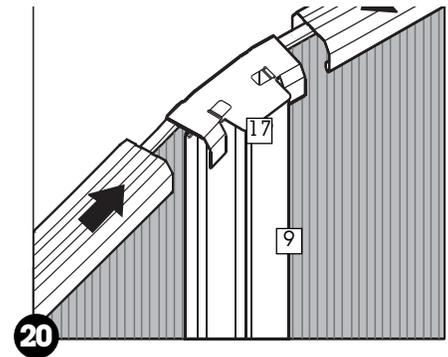
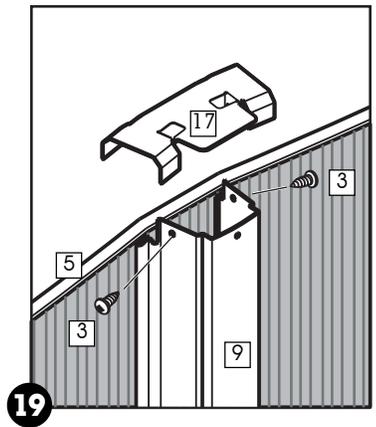
Pool Size	Quantity and Colour Code (with part numbers.)			
	Buttress Rail	Transition Rail A	Transition Rail B	End Rail
12' x 18'	n/a	4 blue (no. 1450601)	n/a	6 plain (no. 1450182)
12' x 24'	4 white (no. 1450600)	4 black (no. 1450602)	n/a	6 plain (no. 1450182)
15' x 24'	2 white (no. 1450600)	4 red (no. 1450603)	n/a	8 plain (no. 1450437)
15' x 30'	4 green (no. 1450605)	4 red (no. 1450603)	n/a	8 plain (no. 1450437)
18' x 33'	4 green (no. 1450605)	4 red (no. 1450603)	4 yellow (no. 1450185)	6 plain (no. 1450184)

(n/a = not applicable; plain = no colour code)

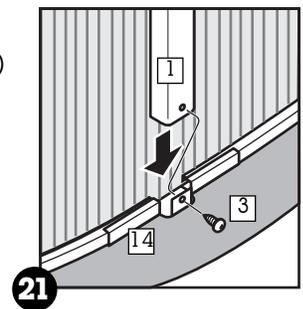
The 18 x 33 pool is the only size that uses all four types of rails. Diagram 18 shows the locations for each type.



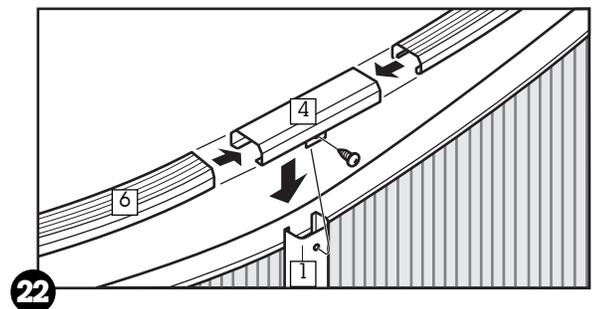
- a. Hook a buttress top plate (key 17) over the top edge of the pool wall (key 5). Place the buttress top plate down over the top of the upright (key 9) with the tabs on the **outside** of the upright. Make sure the upright is straight up and down.
- b. Line up the screw holes and fasten with one self-tapping screw on each side (key 3).
- c. Repeat step (a and b) for the remaining buttress top plates.
- d. Install all the side rails between the buttresses. Refer to the chart on page 2-7 for the correct rail to use. **Important:** to install the side rails between the buttresses it maybe necessary to slightly pull one upright away from the other to install the side rail. Make sure the verticals are aligned straight up and down after installation of the side rails. (**Note:** the 12' x 18' pool does not have side rails).



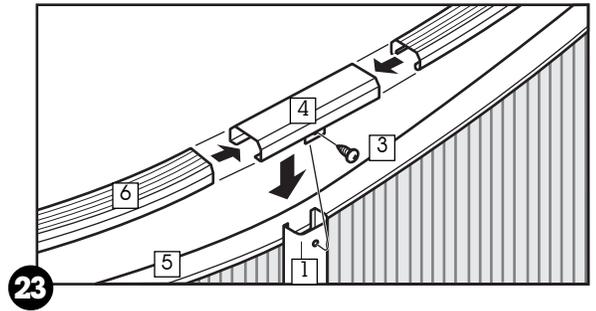
- e. Line up the bottom of one vertical column (key 1) with the tab on one base plate (key 14). The tab must be on the outside of the vertical column.
- f. Line up the screw holes and fasten with one self-tapping screw (key 3).
- g. Repeat steps (e and f) for the remaining vertical columns.



- h. Install the four transition rails. Refer to the chart on page 2-7 for the correct rail to use. Insert one end of a transition rail into a top connector (key 4). Insert the other end of the rail into a buttress top plate. **Important the top steel parts**. Line up the hole in the tab of the top connector with the screw hole near the top of the vertical column. The tab must be on the outside of the vertical column. Secure the top connector with a self tapping screw.

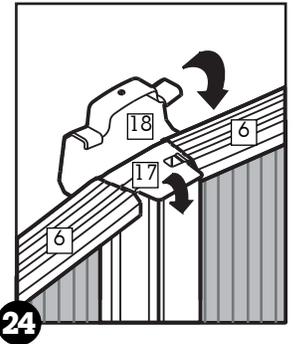


- i. Place a top connector (key 4) over the top edge of the pool wall (key 5) with the tab on the outside of the pool. Line up the hole in the tab with the screw hole near the top of the vertical column. The tab must be on the outside of the vertical column. Make sure the vertical column is straight up and down.

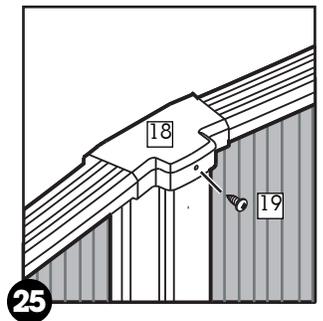


- j. Slide one end of a top rail (key 6) into the top connector.
- k. Fasten the top connector to the vertical column with one self-tapping screw (key 3).
- l. Repeat the steps (i to k) for the rest of the top rails.

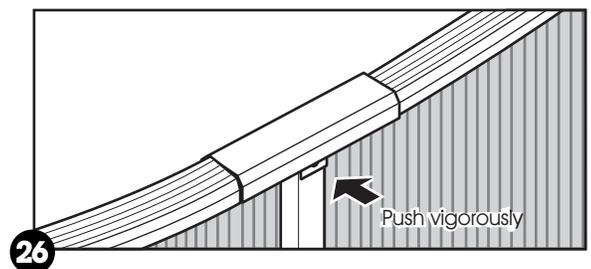
- m. Line up a resin top connector (key 18) over the buttress top plate (key 17). Hook the resin top connector under the inside edges of the top rails (key 6) and hold the hooks firmly in place. Bring the connector down into place under the top rails as shown in diagrams 24 and 25.



- n. Line up the screw hole in the resin top connector (key 18) with the hole in the upright. Fasten the connector in place with a one inch self tapping screw (key 19). Tighten the screw.
- o. Repeat steps (m and n) for the remaining resin top connectors.



- p. Make the pool settle into a perfect circle by pushing the top of the pool wall vigorously inward at each vertical (this will help make the bottom of the pool wall shift into a perfect circle).



**Important:**

One or more of the following hardware bags has arrived with your pool:  
 Part Nos. 1184309 and 1184310.  
 These contain **longer, 1" (25mm)** self-tapping screws which **are only** used in the hole shown in diagram 25.



## D. Maintaining your Pool

After you have finished installing your pool, follow these instructions to keep it clean and in good shape.



### Caution:

Chlorine can damage your pool liner and metal parts. Wash any spills right away.



### Remember:

Any rusty areas on the pool wall must be repainted quickly with anti-rust paint. A badly rusted pool wall can collapse.

### 1. The Liner

- a. Check the liner regularly for leaks.
- b. Minor repairs can be made to the liner with a repair kit.

### 2. Pool Wall and Vertical Columns

- a. Keep the pool wall and vertical columns clean. Wash down every so often with mild soap. **Do not** use abrasives, chemicals or cleansers.
- b. Wash off any spilled pool chemicals right away.
- c. Recoat all showing screw heads with clear outdoor varnish.
- d. Check all metal parts for rust regularly, at least once per season.
- e. Touch up scratches and rusty area on metal parts with matching anti-rust paint. Follow the directions on the paint can.
- f. Every two years, lower the water level in your pool to 12" (30 cm) deep. Remove the top edge of the liner from the pool wall and look for hidden rust on the inside of the pool wall. See Section 4 for instructions on removing the liner.
- g. Pay special attention to any leaks at the skimmer and return openings. Leaks **must** be fixed immediately.



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# E. Winterizing your Pool

At the end of the swimming season, you must follow these directions to make your pool ready for the winter.



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**Caution:**

**Do not** drain all the water from your pool for the winter, and **do not** remove the liner. An empty pool can collapse in the winter.



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**Remember:**

Failure to install the "Pool Winterizing Kit" and follow the winterizing procedures, in accordance with these instructions, may void the pool warranty.

## 1. Lower the Water Level

- a. Lower the water level in your pool until it is about 6" (15 cm) below the water return fitting.
- b. Remove all hoses attached to the skimmer and return fittings. **Make sure all water is drained from the skimmer housing, and make sure the hole at the bottom of the skimmer is left UNPLUGGED.**

## 2. Check all Joints and Screws

- a. Make sure all the frame joints are fitting together properly and make sure the pool wall has not shifted from the bottom rail.
- b. Make sure all screws and bolts are tight.

## 3. Check for Rust

Paint any scratches or rusty areas with anti-rust paint.

## 4. Check the Liner

Make sure the top of the liner is still attached to the pool wall with plastic coping. **Do not** remove the liner from the pool. Removal of the liner will void the existing warranty. **Do not** drain all the water from the pool for the winter.

## 5. Finding Leaks

Make sure the liner has no leaks. Check the liner for leaks and repair any holes with a vinyl patch. Leaks in the winter can cause severe damage to your pool.

## 6. Pool Accessories

Remove all pool accessories from the pool, including the ladder. Leave the skimmer **attached** to the pool wall. Ensure that the skimmer lid is installed **and the opening at the bottom of the skimmer is open so that accumulated water can drain immediately.**

## 7. The Filter

Disconnect the hoses from the filter. Follow the winterizing instructions in your filter manual.



# Important Winterizing Notice

## All Pools:

The water level must be maintained at least 3" (76 mm) below the skimmer opening throughout the winter. Surplus water must be removed by pumping, draining or siphoning so that it doesn't enter the skimmer during the winter. **Remove all hoses attached to the skimmer and return fittings. The opening at the bottom of the skimmer MUST be kept open so that accumulated water can drain immediately.**

## Pools with 12" (30 cm) skimmers:

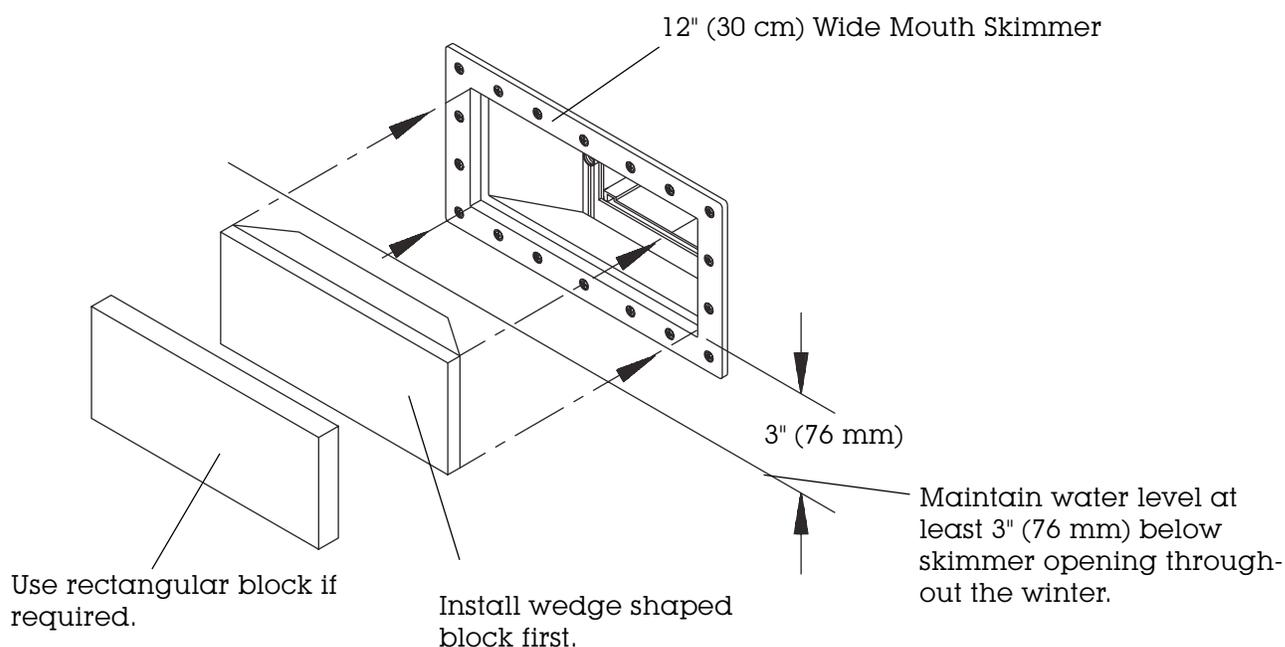
In addition to the above, the Pool Winterizing Kit (Part Number 1370138) must be inserted into the 12" (30 cm) skimmer (see illustration below).

**Failure to install the "Pool Winterizing Kit" and follow the winterizing procedures, in accordance with these instructions, may void the pool warranty.**

The Pool Winterizing Kit (Part Number 1370138) is also available from your pool dealer.

## All Pools:

**Do not attach the pool cover** to the top rails, verticals, connectors or any part of the skimmer.



## Installation:

### "PAWS" Skimmer:

1. Force the wedge shaped block into the skimmer opening until it sits flush with the face flange.

### Other Skimmers:

1. Place the wedge shaped block into the skimmer throat.
2. Force the rectangular shaped block into the skimmer opening until it sits flush with the face flange.

### Note:

On some skimmers, it may be necessary to trim the foam to make a friction fit and/or use a wooden wedge to keep it in place during the winter.

