

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 08-0930	Issue Date: JUL 30 2008	CBL: 387 0006001
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Location of Construction: 105 CARON ST	Owner Name: GILBERT CHRISTOPHER M & H	Owner Address: 105 CARON ST	Phone: CITY OF PORTLAND
Business Name:	Contractor Name: Atlantic Pool	Contractor Address: 7 Union St. Biddeford	Phone: 2072841505
Lessee/Buyer's Name	Phone:	Permit Type: Swimming Pools	Zone: R-2

Past Use: Single Family Home	Proposed Use: Single Family Home - new 24' x 52' ^{ft} above ground pool	Permit Fee: \$60.00	Cost of Work: \$3,800.00	CEO District: 5
Proposed Project Description: new 24' x 52' above ground pool		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied Signature: <i>[Signature]</i>	INSPECTION: Use Group: R-3/U Type: Pool IRC 2003 Signature: <i>[Signature]</i>	
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____		

Permit Taken By: Idobson	Date Applied For: 07/30/2008	Zoning Approval	
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<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/></p> <p>Date: 7/30/08</p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date: _____</p>	<p>Historic Preservation</p> <p><input checked="" type="checkbox"/> Not in District or Landmark</p> <p><input type="checkbox"/> Does Not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: 7/30/08</p>
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CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

City of Portland, Maine - Building or Use Permit

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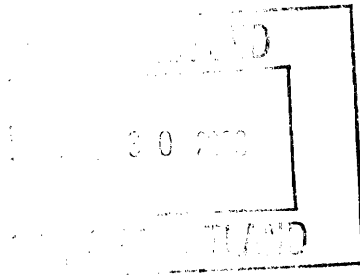
Permit No: 08-0930	Date Applied For: 07/30/2008	CBL: 387 C006001
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Location of Construction: 105 CARON ST	Owner Name: GILBERT CHRISTOPHER M & H	Owner Address: 105 CARON ST	Phone:
Business Name:	Contractor Name: Atlantic Pool	Contractor Address: 7 Union St. Biddeford	Phone (207) 284-1505
Lessee/Buyer's Name	Phone:	Permit Type: Swimming Pools	

Proposed Use: Single Family Home - new 24' x 52" above ground pool	Proposed Project Description: new 24' x 52" above ground pool
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Dept: Zoning	Status: Approved	Reviewer: Tammy Munson	Approval Date: 07/30/2008
Note:			Ok to Issue: <input checked="" type="checkbox"/>
Dept: Building	Status: Approved with Conditions	Reviewer: Tammy Munson	Approval Date: 07/30/2008
Note:			Ok to Issue: <input checked="" type="checkbox"/>

1) Separate permits are required for any electrical, plumbing, or HVAC systems.
Separate plans may need to be submitted for approval as a part of this process.



DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING INSPECTION

PERMIT

Permit Number: 080930

Please Read Application And Notes, If Any, Attached

This is to certify that GILBERT CHRISTOPHER & HEATHER L GILBERT, Atl

has permission to new 24' x 52' above ground

AT 105 CARON ST 387 C006001

provided that the person or persons firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of the State and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and when permission procured before this building or part thereof is started or service closed-in. 4 HOUR NOT REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

PERMIT ISSUED

OTHER REQUIRED APPROVALS

Fire Dept. JUL 30 2003

Health Dept.

Appeal Board

Other CITY OF PORTLAND

Department Name

[Handwritten Signature]
7/30/03
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD



Pool Installation/Construction Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>105 Caron Street</u>		
Total Square Footage of Proposed Structure <u>24' x 52" Pool</u>		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart# Block# Lot#	Owner: <u>Chris Gilbert</u>	Telephone: <u>899-1010</u>
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: <u>Chris Gilbert</u> <u>105 Caron St. Portland</u> <u>207-899-1010</u>	Cost Of Work: \$ <u>3,800.00</u> Fee: \$ _____
Dimensions of pool: <u>24' x 52"</u> above or below ground: <u>Above ground</u>		
Dimensions of decking and/or any platforms, sheds, or other structures: <u>N/A</u>		
Contractor's name, address & telephone: <u>Don @ Atlantic Pool 284-1505</u>		
Who should we contact when the permit is ready: <u>Chris Gilbert</u>		
Mailing address: _____ Phone: <u>252-0164 cell or 899-1010 Home</u>		

Please submit all of the information outlined in the pool application checklist. Failure to do so could result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information visit us on-line at www.portlandmaine.gov, stop by the Building Inspections office, room 315 City Hall or call 874-8703.

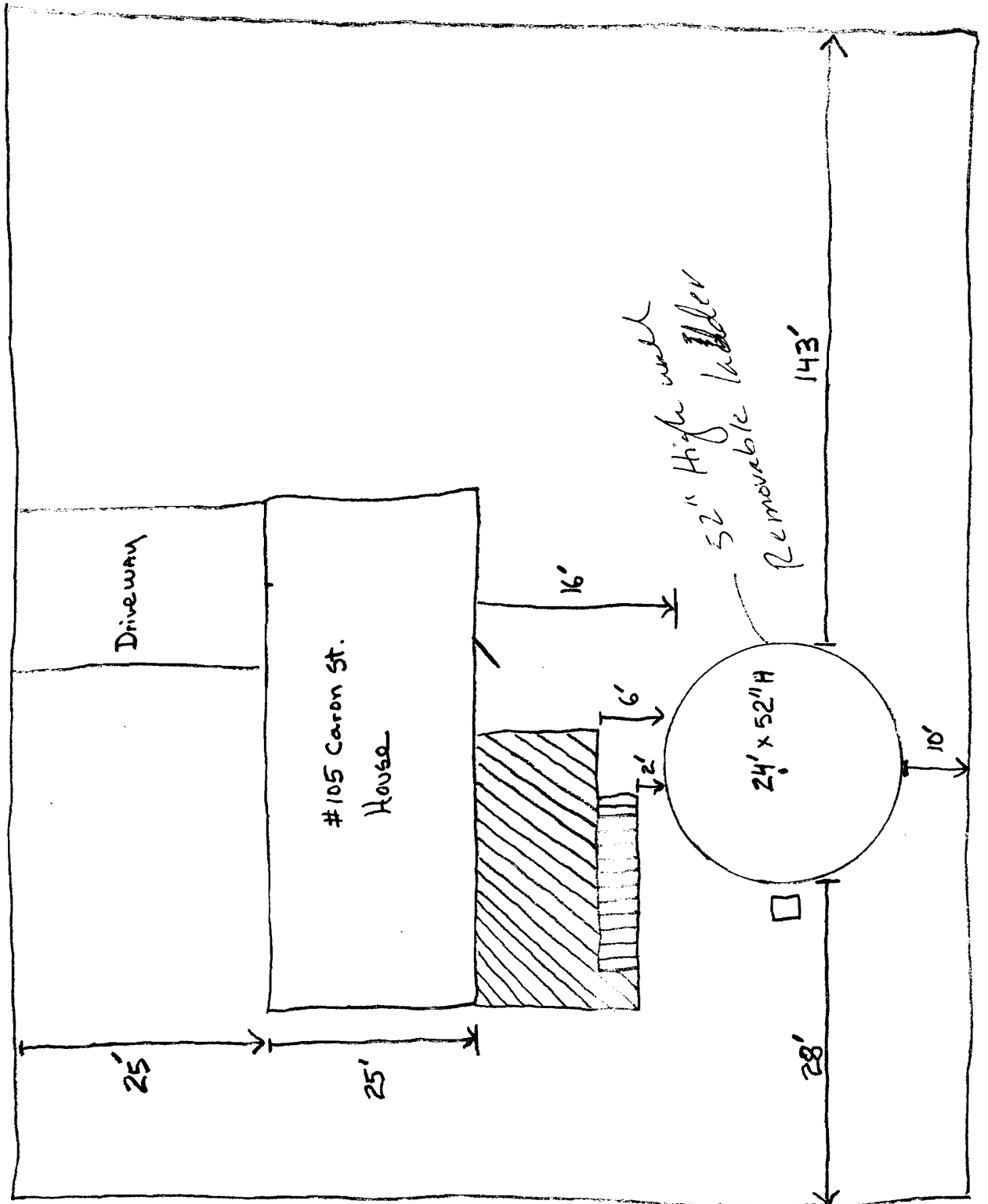
I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: <u>Chris Gilbert</u>	Date: <u>7-29-08</u>
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This is not a permit; you may not commence ANY work until the permit is issued.

Alice St.

Caron St.



This page contains a detailed description of the Parcel ID you selected. Press the **New Search** button at the bottom of the screen to submit a new query.

Current Owner Information

Card Number 1 of 1
Parcel ID 387 C006001
Location 105 CARON ST
Land Use SINGLE FAMILY

Owner Address GILBERT CHRISTOPHER M & HEATHER L GILBERT JTS
 105 CARON ST
 PORTLAND ME 04103

Book/Page 25620/142
Legal 387-C-6
 CARON ST 95-107
 17600 SF

Current Assessed Valuation

Land	Building	Total
\$92,500	\$128,200	\$220,700

Property Information

Year Built 1972	Style Raised Ranch	Story Height 1	Sq. Ft. 1848	Total Acres 0.404
Bedrooms 3	Full Baths 1	Half Baths 1	Total Rooms 7	Attic None
				Basement Full

Outbuildings

Type SHED-METAL	Quantity 1	Year Built 1972	Size 8X12	Grade D	Condition P
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Sales Information

Date	Type	Price	Book/Page
11/15/2007	LAND + BLDING	\$215,000	25620-142
10/02/2007	LAND + BLDING	\$255,000	25514-251
08/13/2007	LAND + BLDING	\$255,000	25376-126

Picture and Sketch

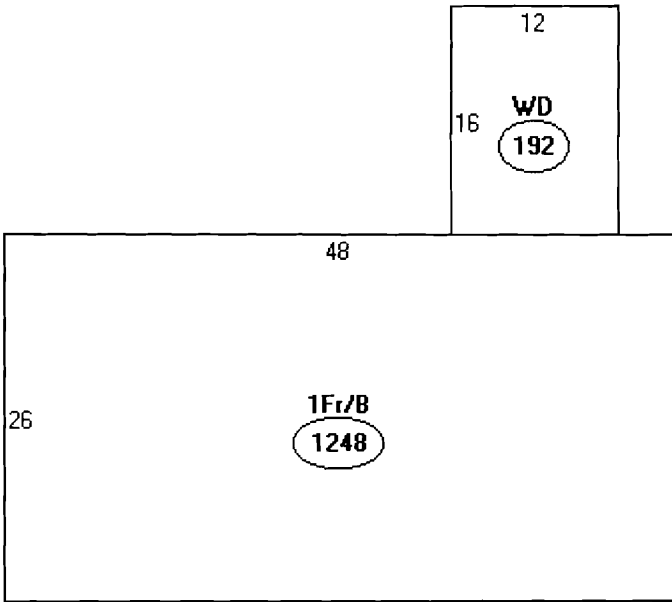
[Picture](#) [Sketch](#) [Tax Map](#)

[Click here](#) to view Tax Roll Information.

Any information concerning tax payments should be directed to the Treasury office at 874-8490 or e-mailed.

New Search!





Descriptor/Area

A: 1Fr/B
1248 sqft

B: WD
192 sqft

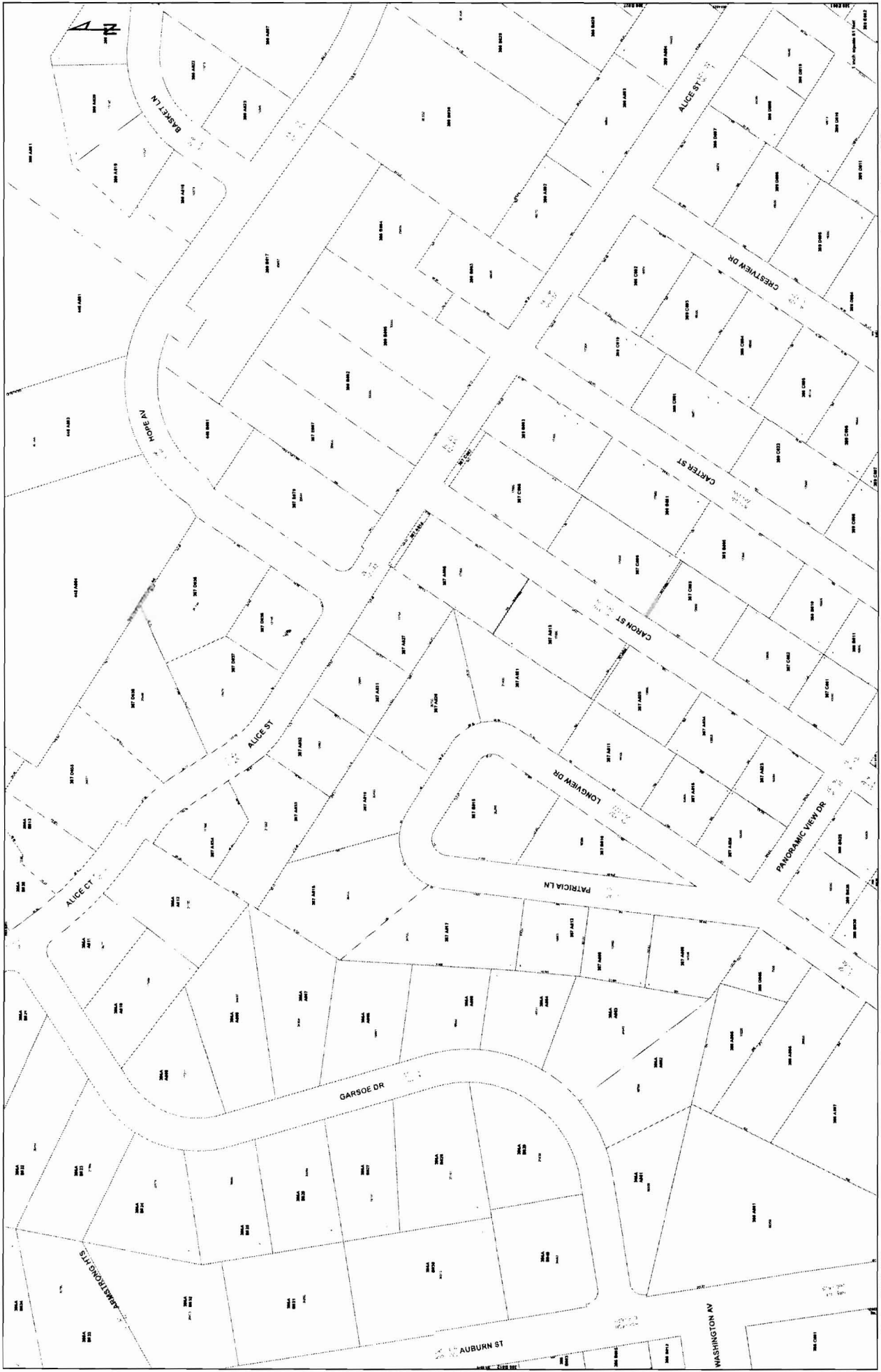


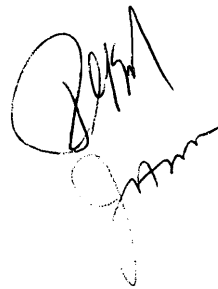
EXHIBIT A

A certain lot or parcel of land, with the buildings thereon, situated on the southeasterly side of Caron Street in the City of Portland, County of Cumberland and State of Maine and being a portion of Lots #29 and 30 as shown on Plan of Valley View Heights dated June 21, 1957, recorded in the Cumberland County Registry of Deeds in Plan Book 47, Page 6, bounded and described as follows:

Beginning at a point on the southeasterly sideline of said Caron Street, said point being forty-two (42) feet northeasterly measured along said Caron Street from the westerly corner of said Lot #30 as shown on said Plan; thence northeasterly along said Caron Street, one hundred seventy-six (176) feet, more or less, to a point which is ten and eighteen hundredths (10.18) feet southwesterly measured along said Caron Street from its intersection with the southwesterly sideline of Alice Street; thence southeasterly at right angles to said Caron Street, one hundred and two hundredths (100.02) feet to a point on the southeasterly sideline of said Lot #29; thence southwesterly along the southeasterly sideline of said Lot #29 and Lot #30, one hundred seventy-six (176) feet, more or less, to a point, thence northwesterly one hundred (100) feet, more or less, to the point of beginning, said last mentioned course being at right angles to said Caron Street.

Meaning and intending to convey and hereby conveying the same premises conveyed to Christopher M. Gilbert, Heather L. Gilbert, Janet Milliken and Robert Milliken by virtue of a quitclaim deed Janet Milliken and Robert Milliken, recorded on October 2, 2007 as Book 25514, Page 251 in the Cumberland County Registry of Deeds.

Further reference is made to Warranty Deed from Richard J. Ranaghan, Jr. to Robert Milliken and Janet Milliken, recorded on August 13, 2007 as Book 25376, Page 126 in the Cumberland County Registry of Deeds.

Handwritten signatures of Robert Milliken and Janet Milliken. The signature of Robert Milliken is written above the signature of Janet Milliken.

UNIVERSAL ASSEMBLY GUIDELINES

This set of assembly guidelines is provided to share with you the modern day construction expectation governing our industry performance today. The National Swimming Pool Institute has an entire booklet on the building code construction standard for the assembly of Above Ground swimming pools. These standards are summarized here within this section. This is intended to be a general assembly guideline and is not intended to replace the assembly instructions provided by the manufacturer.

1. **Sod Removal From Affected Area Around and Beneath the Pool Site:**

- a. All sod is to be dug up from the area beneath the pool and additionally, in accordance with all local building, fencing, and barrier code requirements, all the way around the pool wall to make your assembly task easier and less prone to accidental wall damage occurrences, such as dents and scratches, etc.
- b. Certain areas require up to 5' of clear cut all the way around the pool. Check local codes.

2. **Leveling of the Site:**

- a. Once sod is removed, the higher ground **must always** be brought down to match the height of the lowest grade level within the un-sod area. **Dig out the high side!**
- b. **The only exception** which would allow for a lower area to be raised up is if you supply a method for retaining the build up of the loose fill and properly compact the fill areas with machinery.
- c. Hand tamping of raised fill areas will not be sufficient to prevent settling of the pool frame due to the tons of water soon to be on the area.
- d. **At your expense and discretion**, use of a dense, heavy, drain-able, and compact-able material (such as crushed stone or stone dust) can be used as a sub-base fill in these situations where ground conditions warrant its use. It must be retained around the perimeter, either by using the excavated sod material as a berm mound or with retainment wall structures, **also at your expense and discretion.**
- e. Due to the extreme weight of the water on the ground, there exists an outward reaching pressure dispersal "cone" or "pyramid" that extends downward through the ground which provides the needed support for the immense weight of the water **above the ground.**
- f. This weight is dispersed at approximately 45 degree angles from the sides of the pool wall structure downward and into the adjacent soil below. Too sharp a drop off when building up a low area will result in that side giving way to the pressure being exerted on it. The pool will settle or sink to that side of the installation noticeably over time.
- g. The minimum safe distance away from the pool wall you need to be in order to adequately retain the raised fill is dependent upon the height of the fill and its composition, the type of material used as fill, and the slope of the ground adjacent to the pool site and raised area.
- h. All of these things make it difficult to recommend the action of raising a site rather than digging it out. **There is a risk involved!** Your pool is relying on you to use your best judgement given the site conditions you will be faced with.
- i. We advise you to consult with your town construction zoning officials, professionals, and installation contractors when planning such work.

This information has been provided with the intention of making these critical concerns aware to all involved in the construction of all brands of above ground swimming pools.

3. **Site Drainage Considerations:**

- a. You should also consider making provisions for additional site drainage from the areas around the perimeter of your new pool whenever the conditions warrant it
- b. Sometimes, a new pool will act as dam. It prevents the water from following its previous or natural path of drainage through your yard.
- c. A dry yard could suddenly become swampy as a result and many people mistakenly believe their pool is leaking when in reality it is not.
- d. At your expense and discretion, some sites will need to have water channeled away from one side of the pool around to a lower side or area through a drainage ditch with a perforated drain pipe or "drain tile".
- e. If the site is nestled in a valley area of the yard, water flows towards it from all sides, more extensive work would be required. **Handle this with the aid of professionals.**
- f. Most sites have a natural slope with adequate drainage.

4. **Frame Foundation and Site Leveling Block:**

- a. Just as important to leveling the pool site is completely countersinking each post support block into the "virgin soil" or the fully retained dense sub base material. This is especially true when blocks are located on raised fill in order to avoid erosion and washout later.
- b. All manufacturer's instructions call for the use of **full sized patio blocks** as levelers beneath the pool frame posts and buttresses. Jagged half blocks tend to induce settling.
- c. Only the top of the patio block should be exposed and visible after you have completed setting the block in place. Leaving block sides exposed and visible after you have completed setting the block in place. Leaving block sides exposed leads to erosion from under pool.
- d. All blocks should be leveled **side to side** and from **front to back** to ensure that the base plates, track, and pool frame rest firmly and evenly on the block.
- e. All blocks should also be no more than **1/16"** out of level from one block to the next and no more than **1"** from one side or end of the pool to the other. Using a site leveling transit, it is possible to set each block at exactly the same level in the ground around the perimeter. What you see through the scope is exactly what you get when taking your measurements. This assumes that the scope is level, so confirm this as you take readings.
- f. Out of level, from block to block, leads to out of round or "**square**". This leads to buckling of the wall above the wall channel, or bottom track, at or behind the upright posts. This is observed when adjoining blocks are only off from one another by **1/8"**.
- g. It is for these reasons that a pool be built upon a solid and secure foundation and be as level as possible.
- h. After you determine the actual position in the ground that the block needs to be placed, be sure all posts will rest squarely and evenly on them.
- i. **Follow the manufacturer's instruction guidelines** on when and how many blocks need to be positioned. Keep checking and re-checking this critical frame positioning as you lay the block, and **after** you have put up the wall, and **after** you have spread the sand base, and after you have beveled the sand cove area, and **prior** to installing the liner.
- j. **You can't fail if you build it level, square, and round!**
- k. Although the frame of a properly installed pool has more pressure exerted against it than it has down on it, the positioning of the posts on the leveling point blocks should still be important to you. You will perceive the positioning upon the block to be a problem, so avoid extra work and take the added time and care to position the frame squarely on each block the first time.

5. **Pool Liner Support Base Material:**

- a. The smooth, debris free sand beneath the liner will act as a necessary buffer between the harsh terrain of the pool site and the thin vinyl water tight membrane we call a pool liner.
- b. All manufacturer's instruction booklets call for enough material to supply a uniform 2" layer of washed, mason's, or yellow sand or a clean soft sand / clay mixture. You will typically use that which is most convenient to you or your area.
- c. A good base will help to absorb **rock, stone, animal, insect, or root movement** caused by **nature** or the **seasonal** freeze / thaw ground conditions here in the Northeast.

6. **Pool Base Beveled Cove:**

- a. With this base material, you must also build around the inside perimeter of your pool wall an even height, uniform beveled cove to **avoid contact** between the edges and parts of the metal pool framework and the thin water tight membrane or pool liner.
- b. Bevel the sand at a **45 degree angle** with the top of the cove a minimum of **6" high**, as measured from the base of the pool wall and framework to the top of the angled cove.
- c. Taper the cove material downward and inward and blend it into the **2" deep** layer of base material that you have laid down previously on top of the undisturbed soil of the site.
- d. If the cove is not made uniformly around the pool, the fit of your liner will be affected.
- e. **Visually**, you will notice when effort is given or not given to this step of the installation.
- f. This base material as well as the cove area should be tamped as firmly and as evenly as possible to minimize the occurrence of large depressions from walking around inside the pool during the liner installation process.
- g. **A permanent styro-foam cove material** is an available option if you desire to use it. You can obtain this from your local **NAMCO** store at your discretion.

7. **Wall Assembly:**

- a. Again, level and round your and you're halfway there! The most crucial aspect to wall assembly is to continually check and re-check that the pool is perfectly round or "square" if it is an oval pool.
- b. This is to ensure that the pool posts will not lean in or out noticeably as well as to make sure that the liner will fit properly.
- c. If a pool is out of round the liner will be stretched in ways it was not intended to be and wrinkles will form that can not be removed because they are caused by the stretching of the material itself. Wrinkles you can't seem to get rid of no matter what you do.
- d. Dishing the bottom of your pool also causes this, and is another reason not to do it.
- e. The wall simply gets set in place, **into the track**, as you **slowly** unwind the wall around the perimeter of the pool. **Many hands** make this light work and a much easier task. It will also keep the wind from blowing the wall down.
- f. At this stage, consult again with your pool's specific **instruction booklet**.

8. **Liner Installation:**

- a. The expectation today is for as wrinkle free and installation as possible, but you can not overly stress a liner in an attempt to accomplish this feat of having absolutely no wrinkles.
- b. Some wrinkling is to be **expected** and is considered **normal** and an **acceptable** standard.
- c. Massive amounts of fold over wrinkles are not acceptable as they are not good for liners.
- d. Simply give it your best effort. To **avoid** wrinkles, remove **excess** material as water is added with overlap liners. Smooth the material out to the sides on beaded liners.
- e. Proper fit and installation of a liner requires patience and diligence on your behalf only.

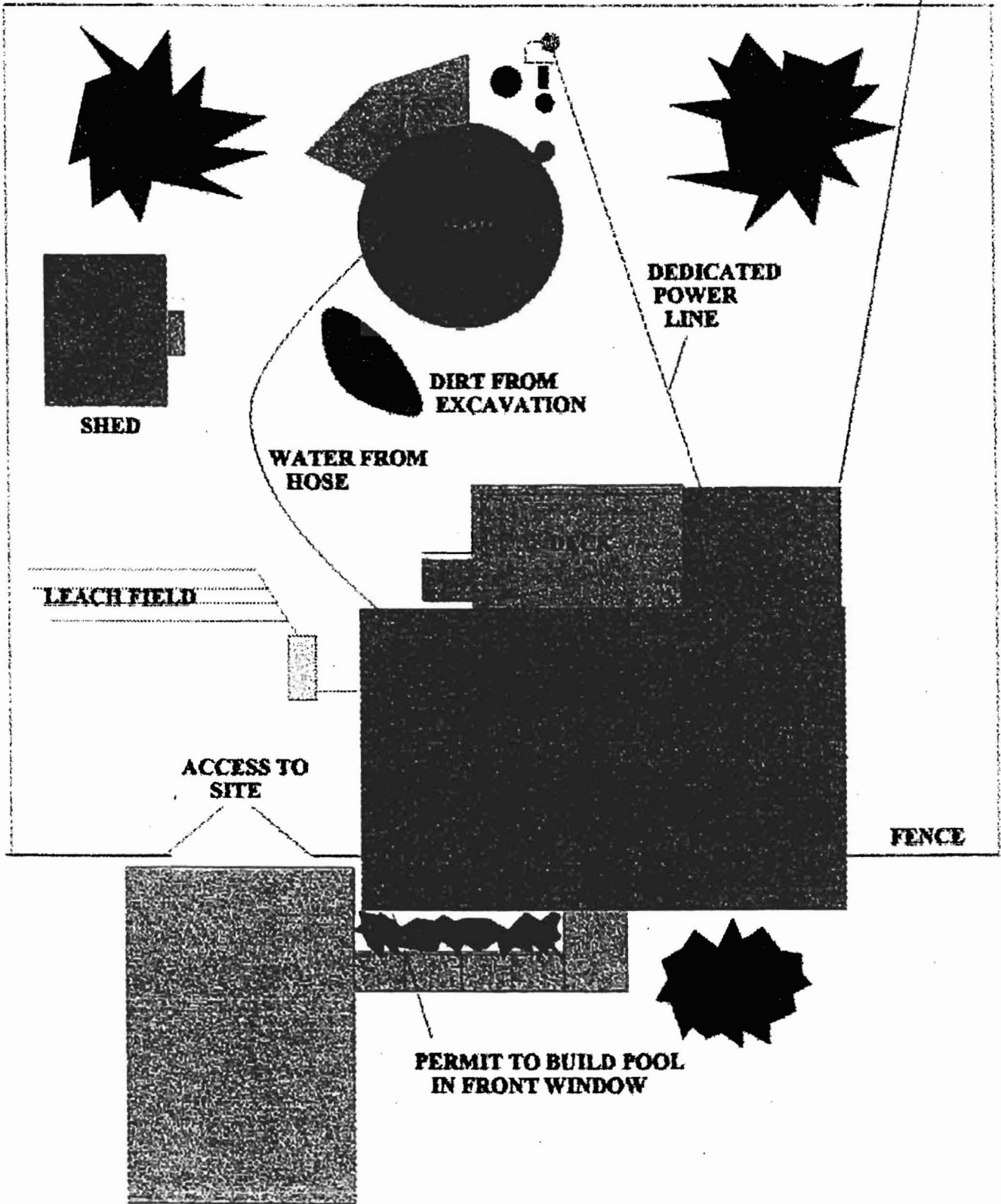
9. **Frame Assembly:**
 - a. In accordance with the **manufacturer's instruction booklet**, and beginning with the uniform spacing between the track connections and continual verification of the relative roundness and levelness of the pool, the final assembly of your pool's framework should be smooth as all of the pieces are uniform in shape and dimension.
 - b. Assemble all remaining posts, rails, etc. **loosely** at first until all are attached.
 - c. Plumb the posts as squarely as possible before tightening the screws and bolts completely.
 - d. Tighten screws and bolts to rails.
 - e. Attach the cover caps and decorative trim-work as applies.
10. **Safety Decals and Warranty Information:**
 - a. It is generally required that you attach to the pool the safety and warning decals and signs supplied by the manufacturer, in accordance with the locations outlined within the **manufacturer's instruction manual**.
 - b. Also, be certain to save all manual, instruction booklets, and product or warranty information which your pool and its associated products.
 - c. Do not discard any of these important materials. They will be needed in the future by you.
11. **Excavated Ground Material / Rocks, Sod, and Earth:**
 - a. The "**finished landscaping**" will no doubt take time to complete.
 - b. The even dispersal of the excavated site material after the pool construction is next.
 - c. Use this material to even out an area of your yard, most sites have at least one spot that could use some fill.
 - d. There is no limit to the design ideas which will add beauty to your final swimming pool landscape. Whether you create a New England nautical theme around your pool, nestle it amongst some tropical vegetation, or encompass it with decking. The choice is yours.
12. **Code Awareness / Additional Responsibilities:**
 - a. When you obtain your permit for the pool, **display** it properly prior to starting construction.
 - b. Be sure the pool location is in accord with zoning rules.
 - c. Be sure to take care to avoid underground pipes and wires.
 - d. Codes apply to overhead wires as well. Review your site plans against these restrictions.
 - e. You must also arrange for the proper wiring of the pool pump.
13. **Electrical System Requirements Include:**
 - a. Provision of a **dedicated** 120 volt power line run **underground**, according to code requirements, from the main **source power** panel or sub-panel off, a 20 or 30 amp G.F.C.I. protected breaker. **It should be wired directly** to the pump, using the proper wire size for the length of wire run from the main power source to the pump, in order to carry the required electrical load.
 - b. Additional outlets may be required near the pool but not closer than 10' (**check codes**).
 - c. A special, **child-proof, twist-lock** receptacle, for the pump to plug into.
 - d. An **outdoor** weatherproof junction box.
 - e. Proper **bonding** of the motor and pool frame and ladder per local electrical code.
 - f. Etc.
14. **Rubbish Removal:**
 - a. You are now the proud owner of lots of empty cartons, packaging materials, as well as a great new pool. Break down all cartons and arrange them neatly for ease of pick up by your local trash service.

SITE PLANNING GUIDE

This is intended to be a general site planning guideline and is not intended to replace the instructions provided by the manufacturer. Consult your local building department for the rules and regulations governing above ground pool installations for specific site planning requirements.

Access for Crew and Machinery:	If insufficient, work will need to be done manually and at additional cost for the additional labor involved.
Site Slope or Grade of Yard:	Could entail additional excavation and may affect safety codes and require the addition of fencing around the pool or yard.
Tree and Shrub Root Systems:	Will need to be dealt with by the installer at the time of installation and may result in additional cost if severe enough.
Convenience and Safety of Location:	After all, it is intended to be fun! Choose a spot where supervision is not compromised or sacrificed whenever possible.
Deck Location and Equipment Location:	Position the deck to receive the optimum amount of sun, and the filter where it will be most aesthetic and functional.
Electrical Supply Source for the Filter:	Position the filter where desired and then run the proper 110 Volt/20-30 Amp dedicated line from GFCI breaker underground and to code.
Sod and Excess Dirt Dispersal on Site:	The earth that was there will still be there! Identify an area to fill in. All yards have at least one. Installer is typically not responsible for this.
Awareness of Underground Septic/Leaching Systems:	In areas without sewage systems, you will need to position pool away from such underground systems.
Overhead Power Lines:	Another item pools must be positioned away from. Consult your local building department for specifics, but generally, you must be at least ten (10) feet away.
Rear and Side Property Lines:	In accord with zoning in your area, you must position the pool the proper distance away from side and end lot lines at a maximum as locally specified.
Local Building Permits:	In most areas today, a permit is necessary prior to installing your pool. Along with a permit, and electrical inspection of the wiring to the filter may be required.
Availability of Water to Fill the Pool:	Filling via a garden hose is preferred, but in some area this may not be possible or practical, thus, water will need to be trucked in at your expense.
Site Finish Work and Around the Pool Beautification:	Completion of your perfect outdoor entertainment environment is yours to pursue limited only by your imagination. ENJOY!

POWER LINES



ABOVE GROUND POOL CONSTRUCTION MATERIALS CHART

SUGGESTED QUANTITIES NEEDED BY POOL SIZE

Pool Size	Tons Sand	Yard Sand	Support Post Blocks
15' round	2.0	1.25	10
18' round	2.5	1.75	12
21' round	3.5	2.25	14
24' round	4.5	3.00	16
27' round	5.5	3.75	18
30' round	7.0	4.75	20
12'x18'	2.0	1.25	18
12'x20'	2.5	1.75	18
15'x24' / 15'x25'	3.5	2.25	14
15'x30'	4.0	2.75	16
18'x33'	5.5	3.50	18

ESTIMATED WATER CAPACITY BY POOL SIZE

	52' Pools	48' Pools
15' round	5,300 gallons	4,850 gallons
18' round	7,630 gallons	7,000 gallons
21' round	10,385 gallons	9,500 gallons
24' round	13,500 gallons	12,500 gallons
27' round	17,200 gallons	15,750 gallons
30' round	21,200 gallons	N/A
12'x18' oval	5,550gallons	5,100 gallons
12'x20' oval	6,250 gallons	5,750 gallons
15'x24' oval	9,350 gallons	8,570gallons
15'x25' oval	9,800 gallons	9,000 gallons
15'x30' oval	12,000 gallons	11,000 gallons
18'x33' oval	15,730 gallons	14,420 gallons

SECTION 3

Pool Component Installation Manual

Assembling the Pool Wall & Liner



A. Assemble your Pool Wall

Hint:

Bring the following items onto the pool foundation before you start uncoiling the pool wall: the pool liner, some extra brick sand to make the cove in Step 5, and a ladder to climb out after the wall is assembled.



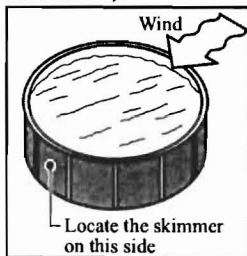
Caution:

Do not attempt to install the pool wall in the wind. Wait for a calm day.



Remember:

For **best results**, mount the skimmer on the **downwind** side of the pool (that is, directly across from the most common wind direction).



Hint:

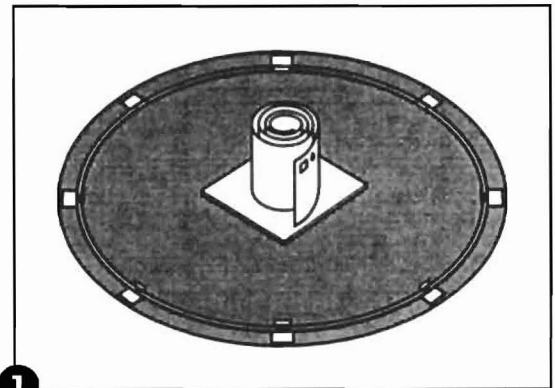
Secure the slotted tube connector to the wall with a piece of duct tape after installation to prevent it from lifting off the wall.

This section is for Round and Oval pools (Round pools are shown).

1. Set the Pool Wall in place

a. Wait for a calm day. **Do not** attempt to install the pool wall in the wind.

b. Unpackage the coiled pool wall and stand it on a piece of cardboard or plywood at the centre of the pool. The cut-outs for the through-the-wall skimmer should be towards the top of the wall. Look for a "THIS WAY UP" label and arrow.

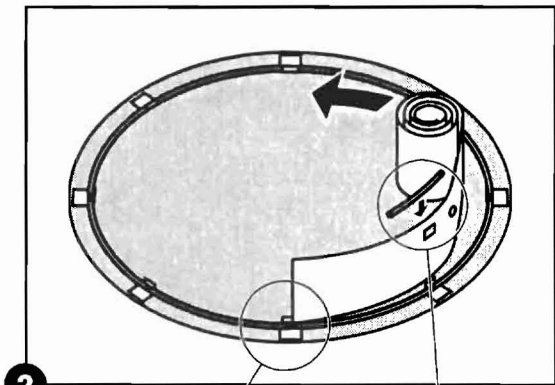


c. Start uncoiling the wall, guiding the bottom edge into the curved bottom rail. The starting end of the wall **must** be positioned **over a base plate**, and the skimmer and return holes should be positioned where the pump and filter will be.

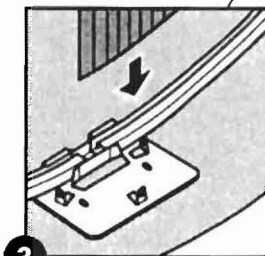
1

d. 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.

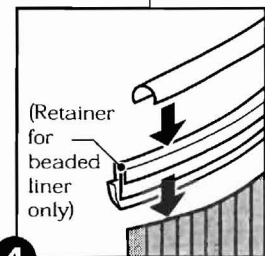
Make sure the gap is directly above the base plate (this applies to round pools, oval pools and Gibraltar Style pools). (If you have a **beaded pool liner**, set lengths of **liner retainer** on the top edge of the wall first, then the slotted tubes and connectors.)



2



3



4

- e. Work around the foundation until the entire pool wall is uncoiled into the bottom rails and the top edge is covered with slotted tubes and connectors (and beaded liner retainers if you have a beaded pool liner).

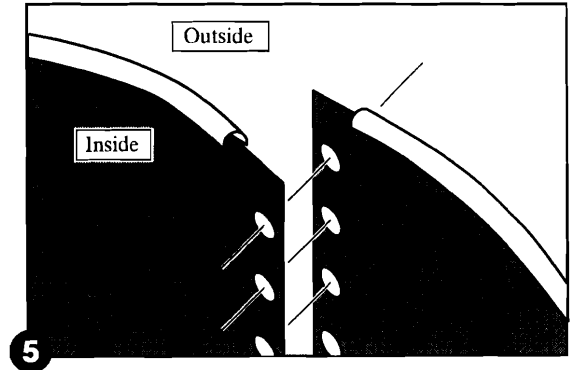


Hint:

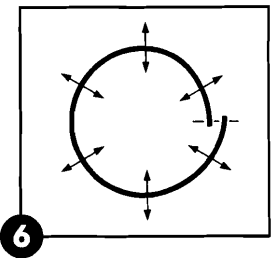
Stick a screwdriver through two of the holes to help line up the ends of the wall.

2. Join the Ends of the Pool Wall

- a. Line up the holes in the two ends of the pool wall.



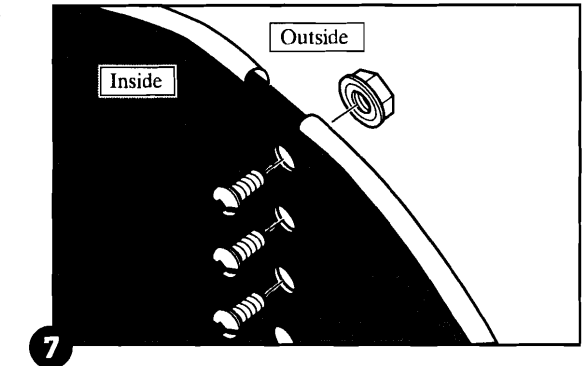
- b. To line up the holes, make the circle bigger or smaller by nudging the base plates in or out with your foot.



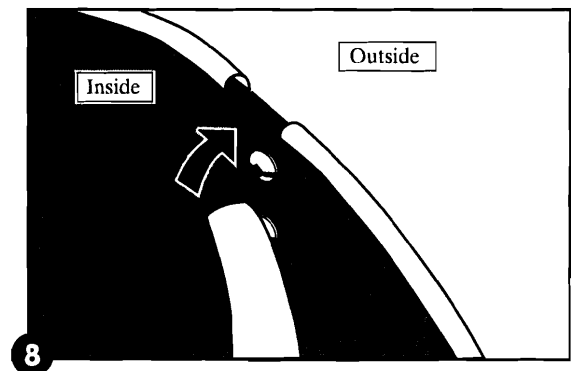
Remember:

The bolt heads must be toward the inside of the pool. Cover the bolt heads with duct tape.

- c. Join the ends of the pool wall with a bolt and nut through each hole. Place each bolt head towards the **inside** of the pool and each nut towards the **outside**.
- d. Tighten each bolt and nut securely.

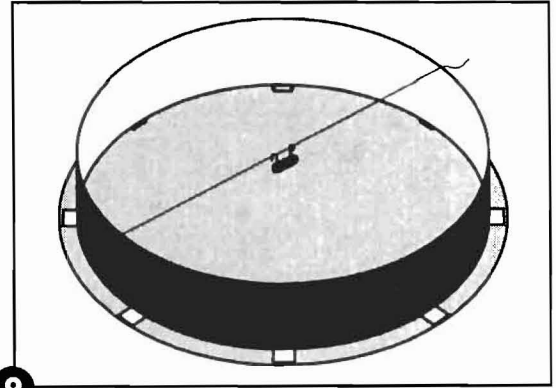


- e. Cover the seam and bolt heads on the inside of the pool wall completely with 2" (50 mm) duct tape.



3. Make sure the Pool Wall is Level

- a. Use a length of string and a line-level to check across the top edge of the pool wall to see if it is level. Check the wall in several different directions. The wall **must** be level. If the level is off by more than 1" (25 mm) across the diameter of the pool, take the wall apart and level the foundation again.

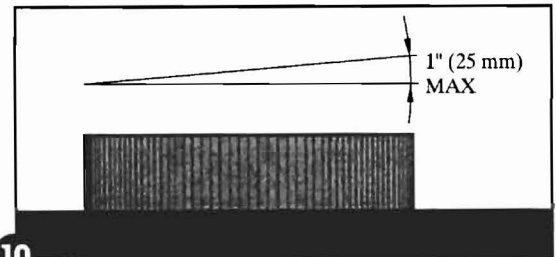


9



Caution:

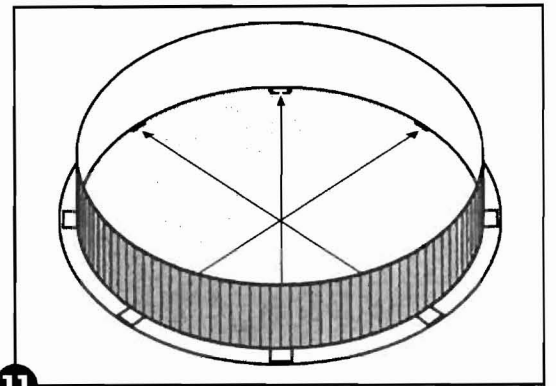
The pool **must** be level within 1" (25 mm) across the diameter. A pool that is not level is dangerous and may collapse.



10

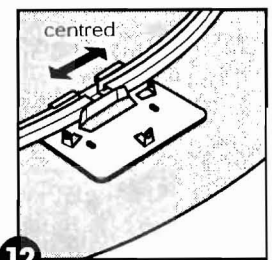
4. Make sure the Pool Wall is Round

- a. Using a tape measure, measure across the circle at each base plate. The pool wall **must** be round within 1" (25 mm) (all of the measurements must be within 1" (25 mm) of each other). Adjust the circle by nudging the base plates in or out with your foot.



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- b. Adjusting the pool to the proper shape may cause the base rails and base plates to slip out of alignment a little. Recheck all of the base plates to make sure each one is centred where the base rails meet.



12

5. Install the Styrofoam Sheets (optional)

- a. If you chose the option of using Styrofoam **instead** of brick sand, you can now install the sheets of Styrofoam previously cut out in Step 1a. Reassemble the sheets in the centre of the pool and join them with duct tape along the whole length of each seam. Remember to wait until the pool wall has been installed in Section 3 before installing the Styrofoam.

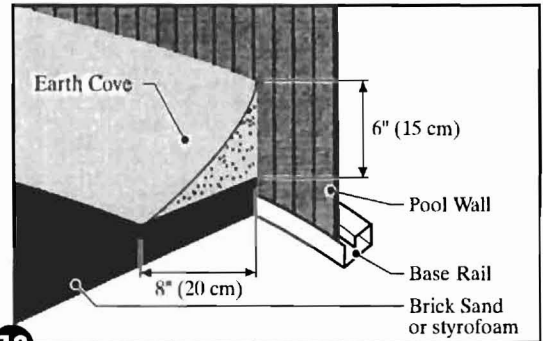


Remember:

The cove is an important part of the pool structure. Take your time to make a complete, full-size cove.

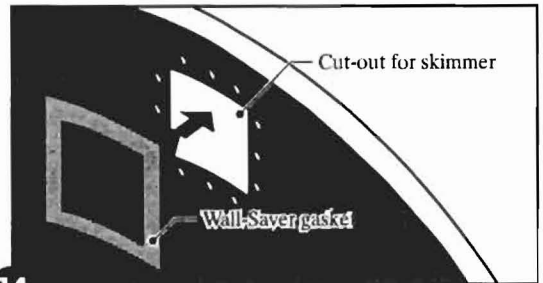
6. Make a Cove

- a. Make a curved cove about 6" (15 cm) high and 8" (20 cm) wide all around the bottom of the pool wall on the inside.
- b. Use fine earth or brick sand to make the cove, and pack it firmly into shape.

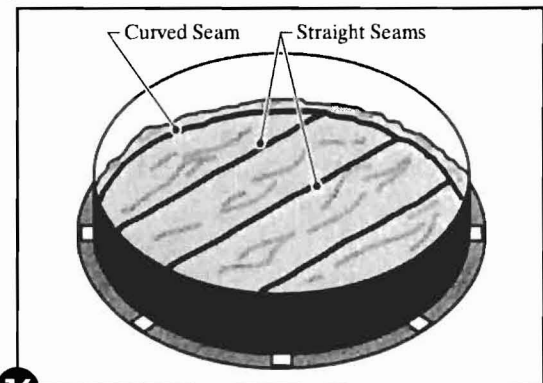


7. Install the "Wall-Saver" Gasket

- a. The Wall-Saver gasket provides a water-tight seal around the skimmer cut-out for the through-the-wall skimmer. **Gently** spread apart the two layers of the gasket and insert it into the skimmer cut-out so that it sandwiches the wall. **Be very careful not to tear or damage the seam in the gasket or the gasket may leak.** Take extra care not to cut or damage the gasket when you are installing the skimmer later. If the gasket is damaged, you **must** get a replacement from your pool dealer.



Note: The "Wall-Saver" gasket is not required or provided for walls using 14" skimmers.



B. Install your Pool Liner

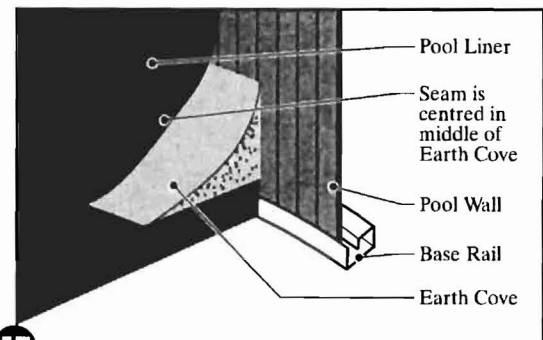


Hint:

If possible, unfold the liner on the grass one to two hours before installation. **Be careful** not to leave the liner too long or you may damage the grass.

1. Set the liner in place

- a. Open the carton. **Do not** use anything sharp to open the carton.
- b. Unpack and unfold the liner and spread it out in the sun to warm it up. Inspect all the seams and surfaces for holes.

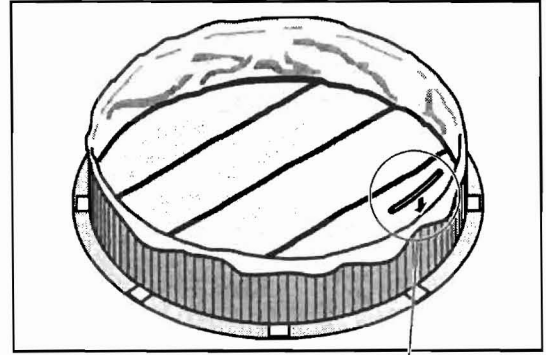




Hint:

To smooth out the wrinkles in step 2(c), use a **vacuum cleaner**: block the skimmer outlet with cardboard and tape and put the vacuum hose through the skimmer return hole, between the liner and pool wall. Seal the hole with tape and keep the hose 4" to 6" (10 to 15 cm) above the sand cove so you don't suck up any sand. Start the vacuum and run it until most of the wrinkles are gone. Then, stop the vacuum and add 1" (2.5 cm) of water to the pool. Finally, remove the vacuum hose and unplug the skimmer hole.

- c. Spread out the liner, smooth side down. The curved seam should be centred on the cove at the base of the wall. The other seams will form straight lines across the bottom of the pool.
- d. Smooth out all the wrinkles in the bottom.

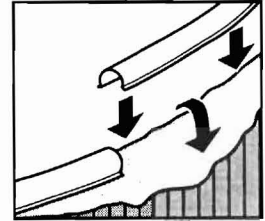


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2. Fasten the Liner in place (Overlap Liner only)

This step applies only if you have an **Overlap Liner**. See the next page if you have a **Beaded Liner** or **V-Bead Liner**.

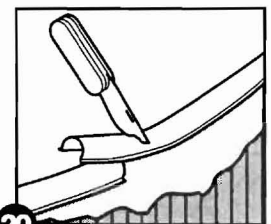
- a. Lift the sides of the liner and drape them over the top of the pool wall. If you have a 52" (132 cm) high pool, pull the liner up until there is 2" (5 cm) overhang; if you have a 48" (122 cm) high pool, pull the liner up until there is 6" (15 cm) overhang.
- b. Fasten the liner to the top of the wall with plastic coping. Let the liner hang slack for now. **Do not** pull the liner tight.
- c. Start filling the pool with water. As the pool fills, work out all the wrinkles and smooth the liner to the wall. Remove the plastic coping around the top edge of the wall **one piece at a time** and adjust the liner. Keep smoothing out the wrinkles.



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3. Trim the Plastic Coping and Roll Up the Excess Liner

- a. After all the wrinkles in the liner are removed, trim any extra length of plastic coping so there is no overlap.
- b. Roll up any excess liner hanging below the plastic coping and tape it in place near the top of the pool wall. **Important: Do not** trim off the excess liner.



20



21

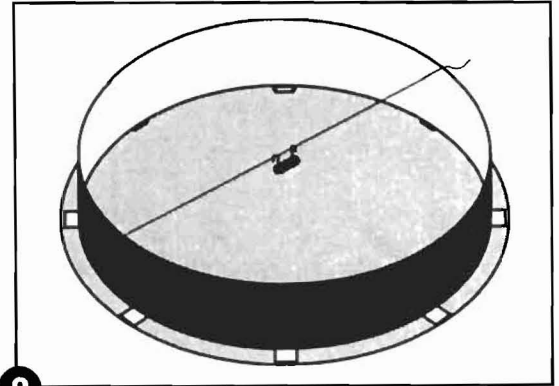


Remember:

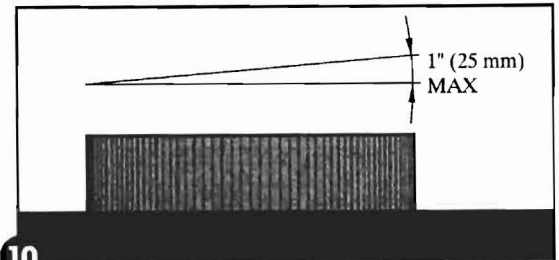
Do not trim off the excess liner. (If the liner ever needs to be removed, trimming the liner will make re-installation very difficult.) Instead, roll up any excess liner and tape it in place near the top of the pool wall.

3. Make sure the Pool Wall is Level

- a. Use a length of string and a line-level to check across the top edge of the pool wall to see if it is level. Check the wall in several different directions. The wall **must** be level. If the level is off by more than 1" (25 mm) across the diameter of the pool, take the wall apart and level the foundation again.



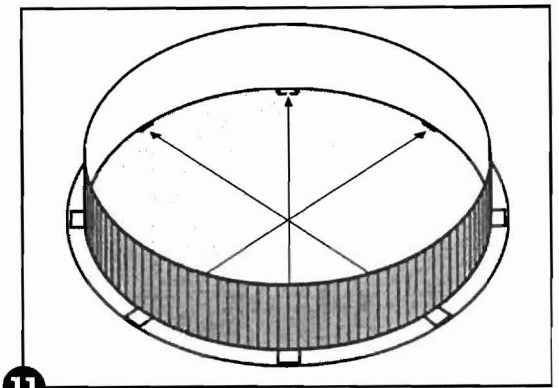
9



10

4. Make sure the Pool Wall is Round

- a. Using a tape measure, measure across the circle at each base plate. The pool wall **must** be round within 1" (25 mm) (all of the measurements must be within 1" (25 mm) of each other). Adjust the circle by nudging the base plates in or out with your foot.



11

- b. Adjusting the pool to the proper shape may cause the base rails and base plates to slip out of alignment a little. Recheck all of the base plates to make sure each one is centred where the base rails meet.

5. Install the Styrofoam Sheets (optional)

- a. If you chose the option of using Styrofoam **instead** of brick sand, you can now install the sheets of Styrofoam previously cut out in Step 1a. Reassemble the sheets in the centre of the pool and join them with duct tape along the whole length of each seam. Remember to wait until the pool wall has been installed in Section 3 before installing the Styrofoam.



Caution:

The pool **must** be level within 1" (25 mm) across the diameter. A pool that is not level is dangerous and may collapse.

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 1/2" (13 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 1/2" (13 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



Hint:

Using a 2" (5 cm) piece of duct tape, 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.

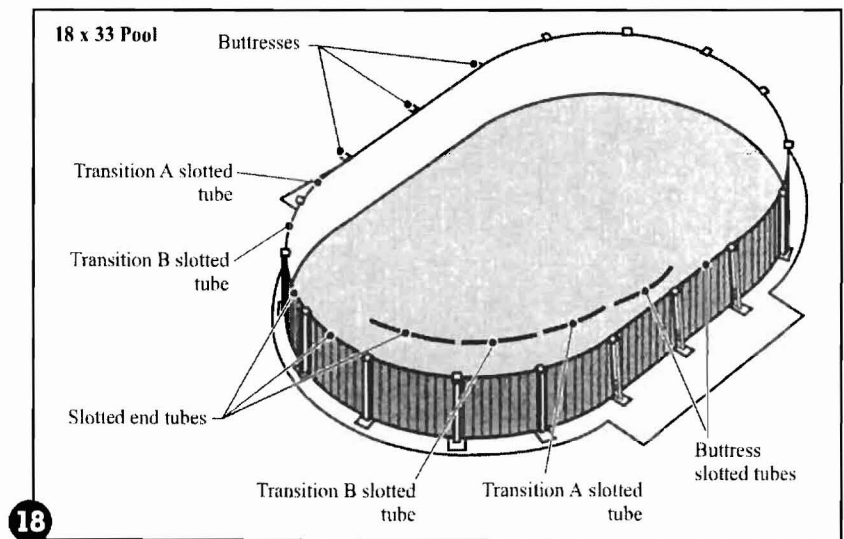
d. The slotted tubes are colour coded or stamped with a part number. Use the chart below to choose the types and quantities of slotted tubes for your pool (part nos. are shown in brackets under each colour). Set lengths of slotted tube onto the top edge of the wall as you uncoil it and join the slotted 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 yellow (no. 1470098) (no. 1470012)	n/a	8 plain (no. 1470096) (no. 1470010)
12' x 24'	4 white (no. 1470105) (no. 1470092)	4 blue (no. 1470104) (no. 1470091)	n/a	8 plain (no. 1470096) (no. 1470010)
15' x 24'	2 white (no. 1470105) (no. 1470092)	4 green (no. 1470100) (no. 1470014)	n/a	8 plain (no. 1470097) (no. 1470011)
15' x 30'	4 green (no. 1470100) (no. 1470014)	4 green (no. 1470100) (no. 1470014)	n/a	8 plain (no. 1470097) (no. 1470011)
18' x 33'	4 green (no. 1470100) (no. 1470014)	4 green (no. 1470100) (no. 1470014)	4 green (no. 1470100) (no. 1470014)	6 plain (no. 1470098) (no. 1470012)

(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):

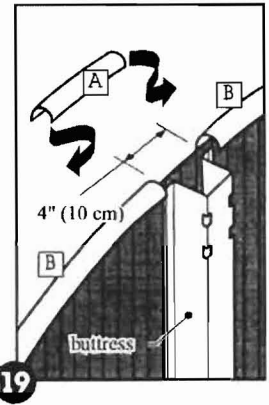
The 18 x 33 pool is the only size that uses all four types of slotted tubes. Diagram 18 shows the locations for each type.



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, replace Step 4(a) with the following:

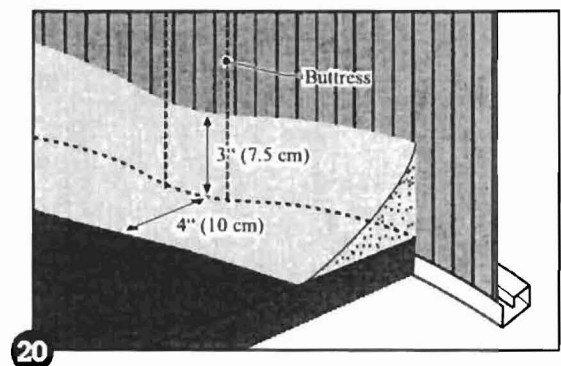
4. Fasten the Liner in place (Beaded Liner only)

- 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.

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.



SECTION 4

Pool Component Installation Manual

Installing the Top Rails & Verticals

A. Attach your Verticals and Top Rails

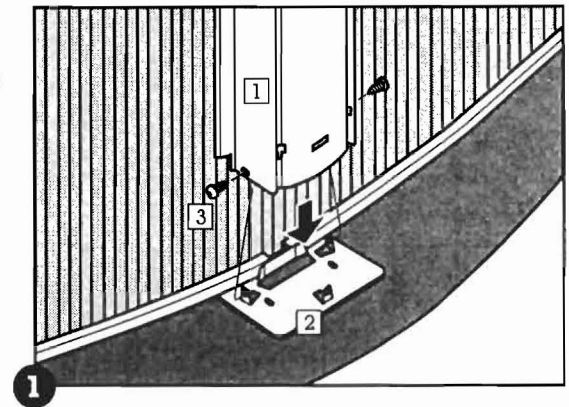
1. Continue filling your Pool

- Continue filling your pool with water. Do not put in more than 12" (30 cm) of water until the top rails and vertical columns are all attached.
- Keep working on the top rails and vertical columns while the pool fills.

- See the drawing on the next page for an overview of all the parts used to install the verticals, top rails and top connectors.

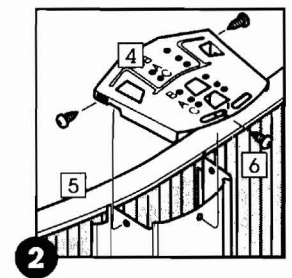
2. Install the Vertical Columns

- Line up the bottom of one vertical column (key 1) with the two small tabs on one base plate (key 2). The tabs must be on the inside of the vertical column. The end of the vertical with three holes must be nearest the top and the end with two holes nearest the bottom.



- Line up the screw holes and fasten with one self-tapping screw on each side (key 3).

- Hook a top plate (key 4) over the top edge of the pool wall (key 5). Place the top plate down over the top of the vertical column with the front tab on the outside of the column. Make sure the vertical column is straight up and down.



- Line up the oval screw holes and fasten with one self-tapping screw on each side and one on the front (key 6).

- Repeat the last four steps for each of the vertical columns around the pool wall.



Hint:

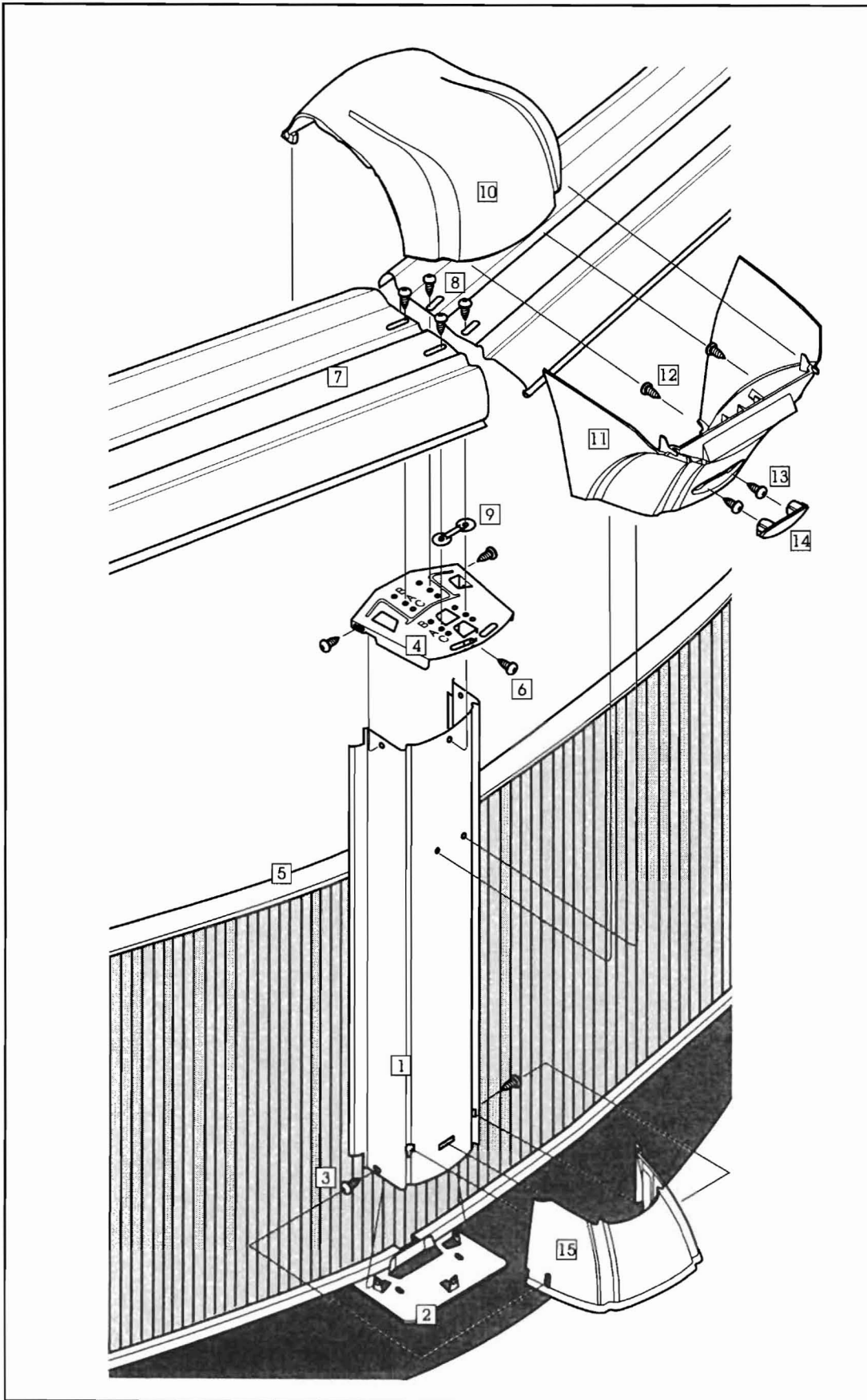
In step 2(b), make sure the two screws (key 3) are exactly straight and perpendicular to the vertical column, or else the foot cover will be difficult to install later.



Hint:

Use the ridges in the pool wall to make sure the vertical column is straight up and down.

**Overview of
Vertical, Top Rail
and Top Connector
Assembly**



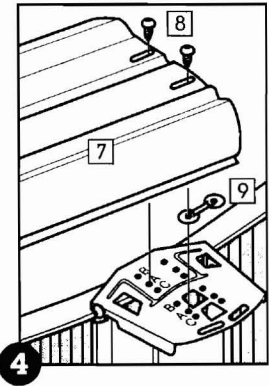
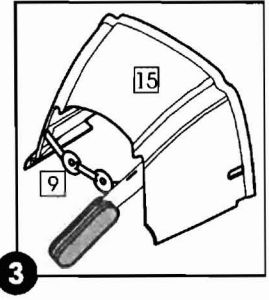


Important:

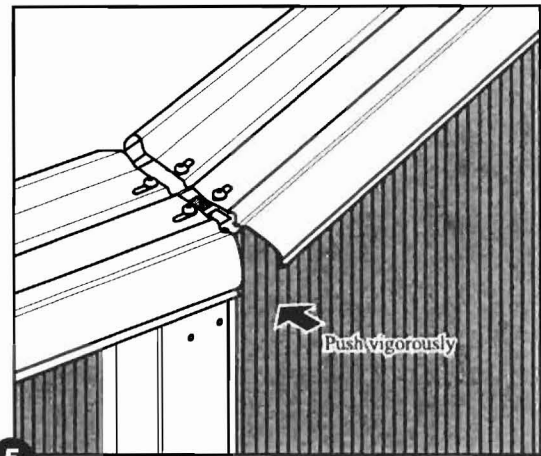
Be careful not to damage the double plastic washer or foot cover when separating them with the knife.

3. Install the Top Rails

- a. The double plastic washers are shipped attached to the foot covers and must be cut apart. Carefully remove the double plastic washer (key 9) from the foot cover (key 15) with a sharp knife (place the plastic parts upside down on a hard surface to do the cutting). Remove any excess plastic from both parts with the knife.
- b. Place a top rail (key 7) with one end on top of the top plate. The side of the top rail facing the centre of the pool is shorter than the side facing the outside of the pool. The side of the top rail facing the outside of the pool will form a large overhang.
- c. Line up the holes as shown. Fasten through the two oval holes into the holes marked 'A' in the top plate below with two self-tapping screws (key 8), and with one double plastic washer (key 9) over the hole 'A' farther from the centre of the pool, as shown in diagram 4. Do not tighten the screws yet. Leave the screws slightly loose until all the top rails are in place.



- d. Repeat step (c) for the other end of the top rail.
- e. Repeat steps (a) to (d) to install the rest of the top rails around the top of the pool wall.
- f. 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).
- g. Adjust all the top rails to line up evenly with each other and tighten all the screws.



Note:

The double plastic washer is needed only with the screw farthest from the centre of the pool. The other screw does not need a washer.

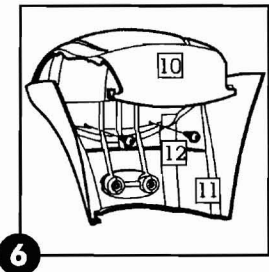


Important:

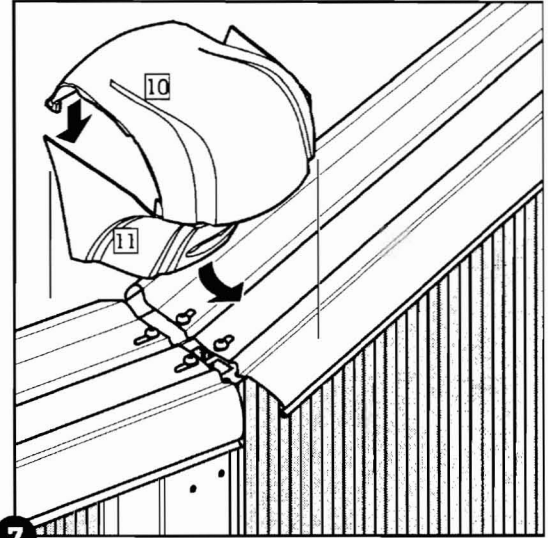
You will find the self-drilling 'Teks' screws in the Top Pack, in package number 184232. Do not confuse these with the other self-tapping screws.

4. Install the Top Connectors

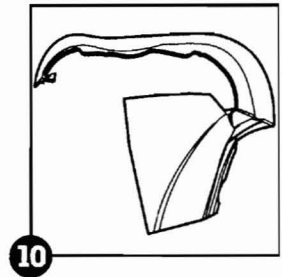
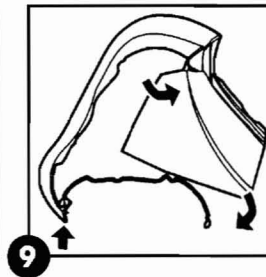
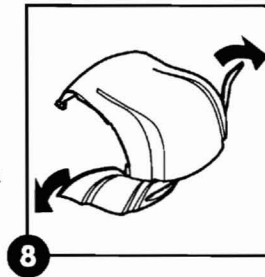
- a. Fasten the upper and lower halves of a two-piece top connector (key 10 and 11) with two self-drilling 'Teks' screws (key 12). Be sure to hold the two parts together very tightly to make a tight joint with the two screws.



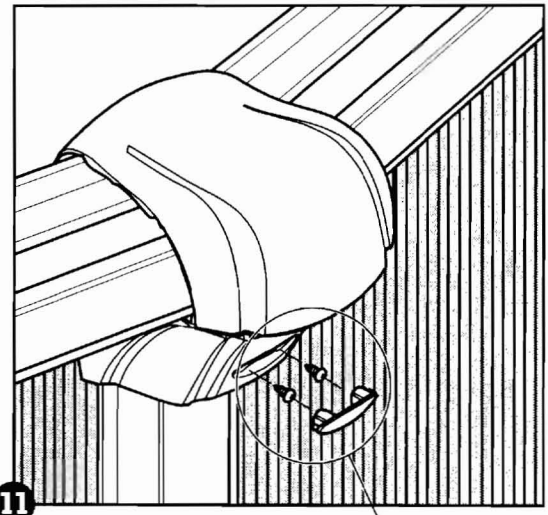
- b. Line up the assembled top connector (key 10 and 11) above the ends of two top rails.
- c. Hook the upper half under the inside edges of the top rails and hold the hooks firmly in place. Bring the lower connector down into place under the top rails by spreading the sides out, as shown in diagram 8, and gently stretching it across and down, as shown in diagrams 8, 9 and 10.



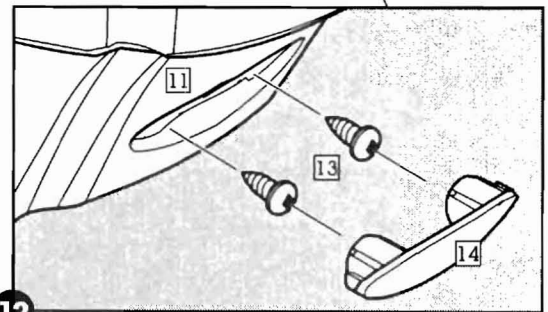
- d. Line up the two screw holes in the lower half connector with the two holes in the vertical column. Fasten the connector in place with two self-tapping screws (key 13). Tighten the screws.



- e. Important: when each top connector is properly installed, there should be a small gap between the connector and the pool wall. Make sure the connector is not touching the pool wall; if it is touching, remove the screws and the top connector and slide the ends of the top rails outwards from the centre of the pool to the next available hole in the top plate. Reinstall the top connector after the top rails are adjusted and the screws are tightened again.



- f. Insert the plug (key 14) into the holes in the lower half connector (key 11) to hide the screws (see diagram 12). Press the plug firmly in place.



- g. Repeat the last six steps for the rest of the top connectors.



Caution:

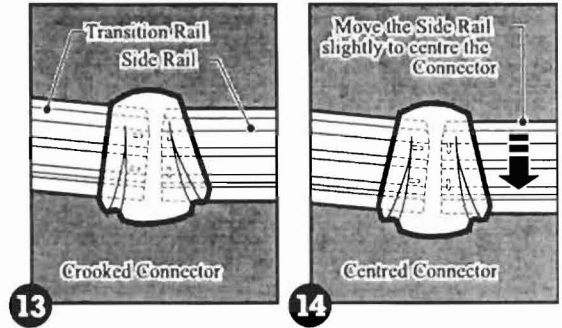
Be sure to spread the sides of the lower half connector before stretching it across the top rails or the connector may be damaged.



Note:

If necessary, the plug covering the screws can be removed by prying it out with a knife. Be careful not to damage the edges of the plug.

- h. For oval pools only: at the transition points only, where the end rail meets the side rail, make sure the side rail lines up properly with the end rail. If it doesn't line up the connector will appear crooked from above (see diagram 13). If the connector isn't centred between the rails, temporarily remove the



connector and loosen the screws on the side rail. Shift the side rail in or out from the centre of the pool until the connector can be properly centred between the rails (see diagram 14).



Hint:

In step 5(b), push the sides of the foot cover inward while you slide the cover down into place, to make sure the two long side tabs hook onto the screws.



Important:

The pool wall may bulge and shift a little while filling with water. This is normal.

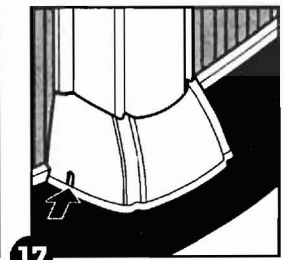
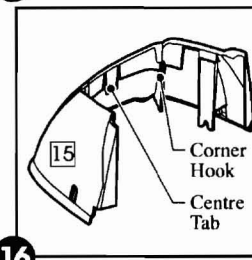
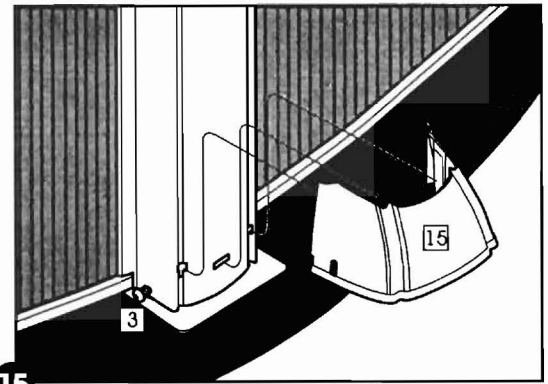


Caution:

Before anyone uses your pool, read and follow all the Safety Rules in Section 1. This pool is not for diving or jumping.

5. Install the Foot Cover

- a. Loosen the self-tapping screws (key 3) on each side of the vertical column by two turns.
- b. Slip the foot cover (key 15) onto the vertical column and slide the foot cover down the vertical column to the bottom so the hooks in each corner of the foot cover (as shown in diagram 16) locate in the two notches in the column. Press down to make the hooks fasten into the notches, the centre tab on the foot cover (also shown in diagram 16) fasten into the rectangular slot in the vertical column, and the two long side tabs hook over the screws.



- c. Insert a screwdriver through the holes in each side of the foot cover to re-tighten the two screws loosened in step (a), as shown in diagram 17.
- d. Repeat the steps (a) to (c) for each of the vertical columns around the pool wall.

B. Fill your Pool with Water

1. Finish filling the pool

- a. Fill the pool with water to 2" (5 cm) below the lowest opening. Next, follow the installation instructions for your skimmer.

Additional Installation Information for Section 4

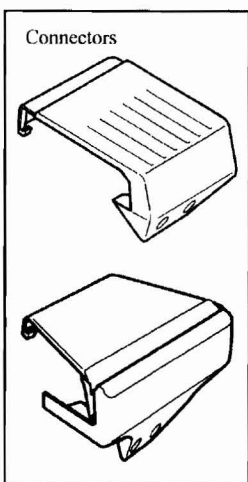
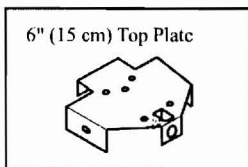
When you come to Section 4, Part A, replace Step 3 with the following:



Important:

If the 7" (18 cm) top plate (see diagram 23) is shown in your manual, return to using that manual after installing the transition rails, as described in the Additional Installation Information.

Note: the manual included with your pool may show the 6" (15 cm) top plate (shown below), but the 7" (18 cm) top plate (see diagram 23) has been supplied instead. Proceed to step (c) on this page.



3. Install the Top Rails

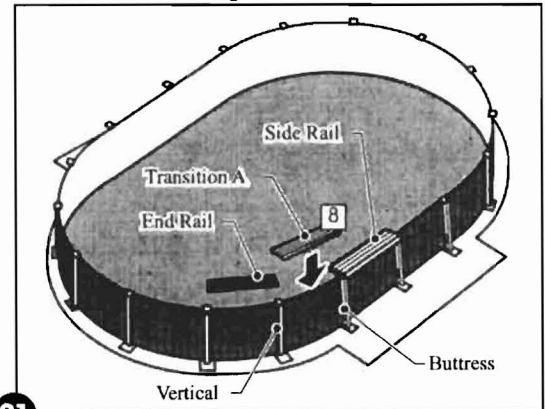
Note: You must use any additional components that come with your pool and are required for proper assembly as described in your manual Section 4.

a. Install all the side rails between the buttresses. Use hole 'A' and line up all of the holes as shown in diagram 23. Fasten through the two oval holes to the top plate below with two self-tapping screws (key 9). **Do not** tighten any of the screws yet. Leave the screws slightly loose until all the top rails are in place. Make sure the verticals are aligned straight up and down (**Note:** the 12' x 18' pool does not have side rails).

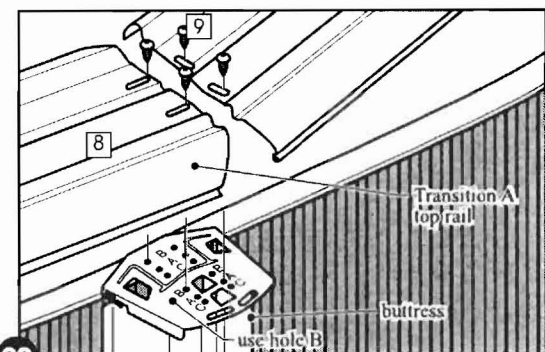
b. Install the remaining verticals as shown in Section 4, *Installing the Top Rails & Verticals*.

c. **Important:** the four transition A top rails are marked with a **coloured dot** and the ends are mitred. If your pool has **connectors** that match **either** of the connectors shown to the left, skip the rest of step (c) and proceed to step (d); if not, then continue with the rest of step (c). Only the end of the transition A top rail that is over a **buttress** will fasten into the hole marked 'B' in the top plate, as shown in diagram 22. For the rest of the end rails, use hole 'A' and line up all of the holes as shown in diagram 23. Fasten through the two oval holes to the top plate below with two self-tapping screws (key 9).

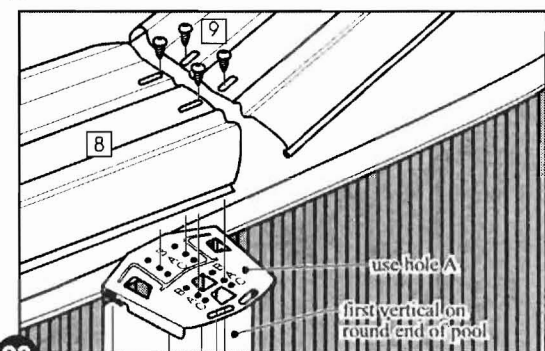
Do not tighten any of the screws yet. Leave the screws slightly loose until all the top rails are in place.



21



22



23



d. Beginning with one of the transition A top rails, place one end of the rail (key 8) over the top plate at a buttress, and the other end over the top plate at a vertical as shown in diagram 21. (**Important:** refer back to step (c) to see which holes to use.) The top rail will form a large overhang on each side of the pool wall. Install the end rail as shown in diagram 24. When you install the rails, leave only 1/16" (2 mm) between the ends of the rails. Do not tighten the screws yet because you might need to adjust the rails later.

Important: if any of the verticals are not straight up and down, adjust the base plate and bottom end of the vertical side to side as required by **gently** tapping on the base plate with a hammer and a block of wood. If you need to adjust the top of the vertical, you may need to remove the top plate first or else the wall and the liner could be damaged.

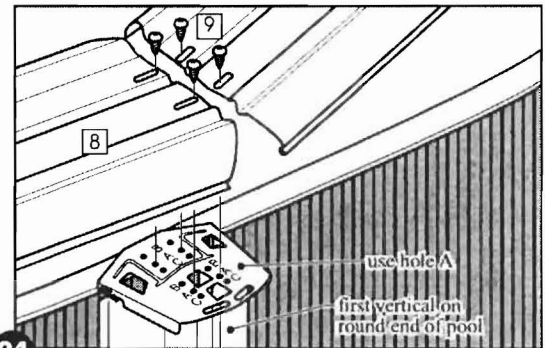
e. Check the length of the second transition A top rail before you fasten it. If the end of the transition rail overlaps the side rail, it needs to be cut; if the oval holes of the transition rail do not match the holes in the top plate, you must drill new holes. (**Note:** the 12' x 18' pool does not have side rails; any overlap will be over the adjacent transition rail.) In the case that the transition rail seems to be too short, you must pull the rails you just installed so the end of the transition rail can be attached to the top plate. The oval holes provide approximately 2" (51 mm) adjustment at each end of the pool.

f. Repeat steps (d) and (e) for the other side of the pool.

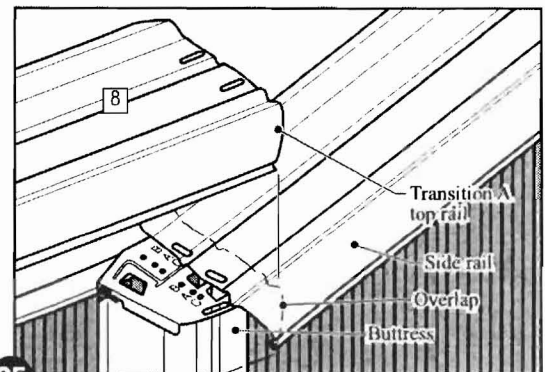
4. If the transition rail needs to be drilled and/or cut follow these steps:

a. Temporarily unscrew the end of the side rail that is next to the transition rail. (**Note:** the 12' x 18' pool does not have side rails.)

b. Place one end of the **transition rail** (key 8) underneath the side rail. (**Note:** for the 12' x 18' pool place one end above the other transition rail.) Place the other end over the **first vertical** on the round end of the pool and temporarily fasten this end midway of the adjustment provided by the oval holes. If you have a 12' x 18' pool, jump to step (k) now.



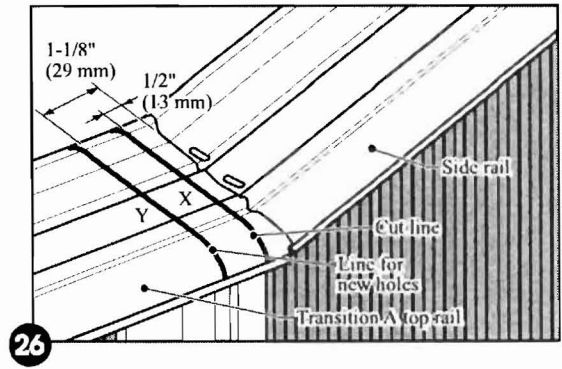
24



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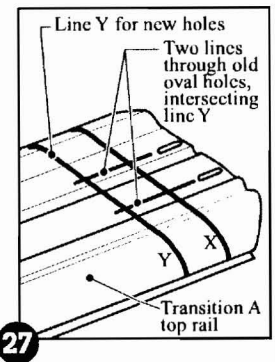


- c. With the end of the side rail **on top** of the transition rail, mark two dimensions 1/2" (13 mm) and 1-1/8" (29 mm) away from the end of the side rail. Then temporarily unscrew the other end of the **side rail** and move it to draw the lines **X** and **Y**. The first line **X** is parallel to the end of the side rail, 1/2" (13 mm) away. This will be the line you



will cut along to shorten the transition rail. The second line **Y** is also parallel to the end of the side rail, 1-1/8" (29 mm) away. This will be the line that the new 1/4" (6 mm) screw holes lie on.

- d. To mark the locations of the 1/4" (6 mm) screw holes, draw two lines through the centres of each of the two oval holes, parallel to the length of the rail, to intersect the line **Y**. The intersection of these lines will determine the locations of the new 1/4" (6 mm) screw holes that need to be drilled.



- e. If your pool calls for a support plate, drill another 1/4" (6 mm) hole 1-1/2" (38 mm) or 2-1/8" (54 mm) toward the inside of the pool along the line **Y**. Measure that distance on your pool.
- f. Remove the transition rail and drill the 1/4" (6 mm) holes using the marks that lie on the line **Y**.
- g. Cut the transition rail along the 1/2" (13 mm) line **X** using a hacksaw (use a blade with at least 32 teeth per inch).
- h. Fasten the side rail and the transition rail in place.
- i. Repeat steps (a) to (h) to install the top rails at the other end of the pool.
- j. Continue with the remaining steps explained in your manual Section 4, *Installing the Top Rails & the Verticals*, Part A, under Step 3, *Install the Top Rails*.
- k. If you have a 12' x 18' pool, draw the cutting line **X** along the centre of the top plate where the two transition rails meet. The line **Y** should be drawn parallel to line **X** but 3/4" (19 mm) away from line **X**. To determine the locations of the 1/4" (6 mm) screw holes, follow the above steps (d) to (j).
- l. Continue with Section 4, Step 4 of your manual.



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.



E. Winterizing your Pool

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



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.



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:

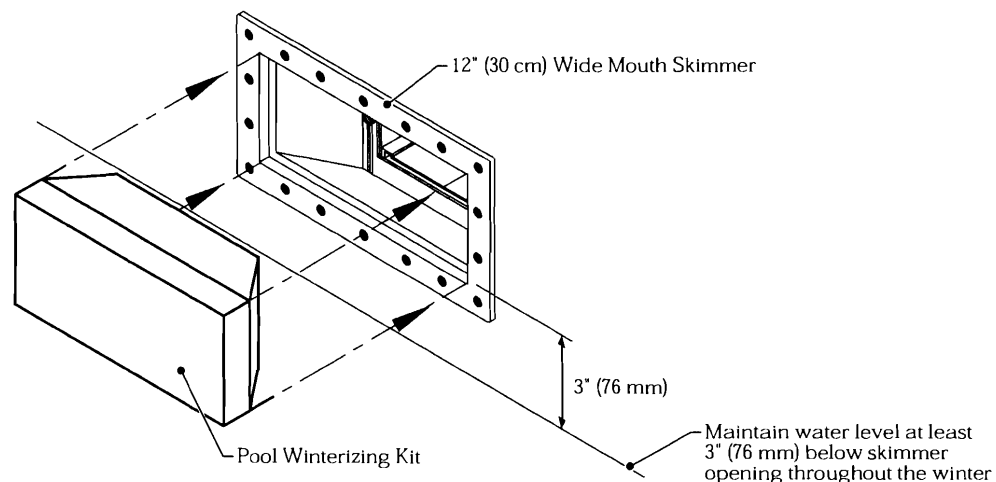
In addition to the above, the Pool Winterizing Kit (Part Number 1370138) must be inserted into the 12" (30 cm) skimmer (see illustration below).

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.



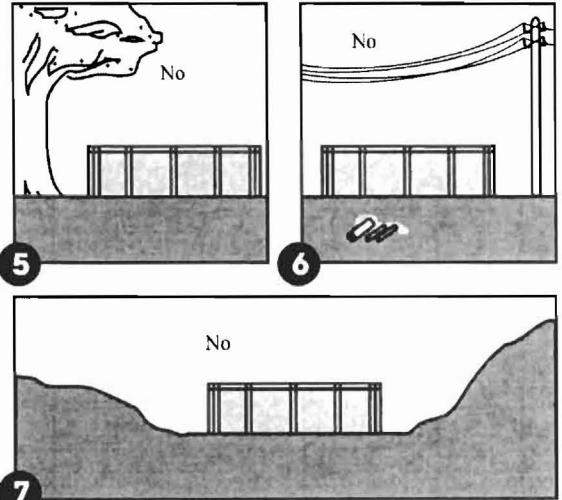
Insert the Pool Winterizing Kit (Part Number 1370138) into the skimmer until it fits flush with the skimmer flange. On some skimmers, it may be necessary to trim the foam to make a friction fit and/or use a wooden wedge to keep it in place during the winter.



2. Things to Avoid

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

- Overhanging tree branches.
- Overhead wires and 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.



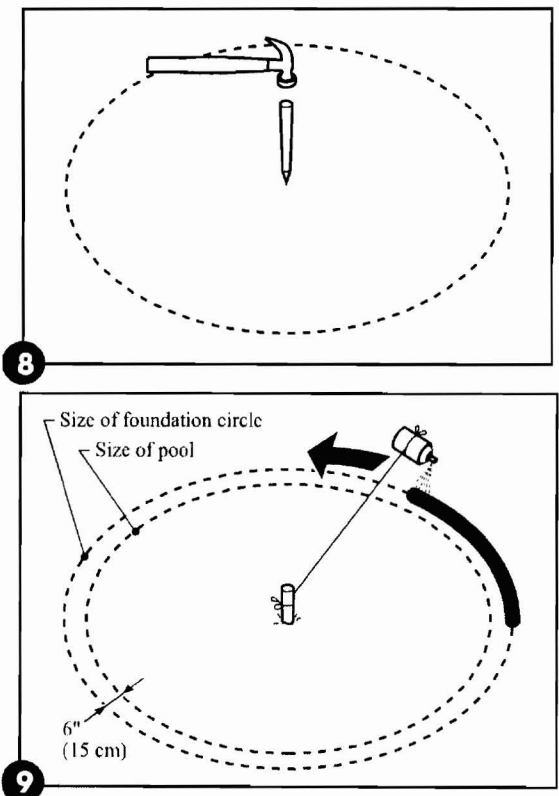
3. Plan Ahead

- 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. Mark out the Area

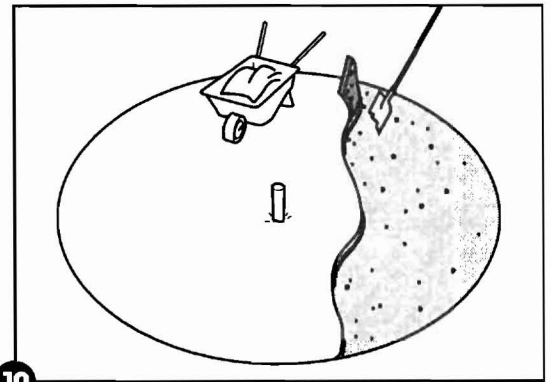
- Drive a peg into the ground at the centre of the area where you want your pool.
- Use a length of string tied between the peg and a can of spray paint, and mark a circle on the ground. Choose the length of string you need for your pool from the chart on the next page. The circle will be 6" (15 cm) bigger all round than the pool.



Pool Size	Length of String	Length of 2-by-4
12'	6'-6" (200 cm)	6'-6" (200 cm)
15'	8'-0" (244 cm)	8'-0" (244 cm)
18'	9'-6" (290 cm)	9'-6" (290 cm)
21'	11'-0" (335 cm)	11'-0" (335 cm)
24'	12'-6" (380 cm)	12'-6" (380 cm)
27'	14'-0" (426 cm)	14'-0" (426 cm)

2. Remove the Sod

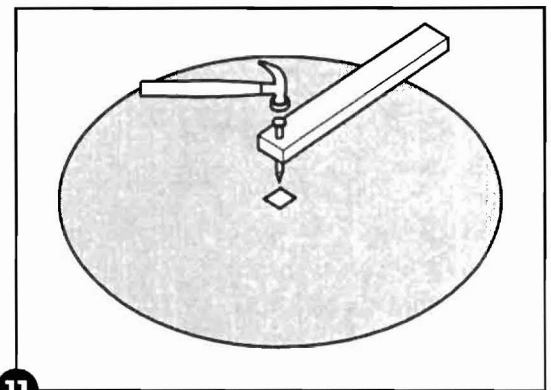
- a. Remove all sod and plants from the circle.
- b. Remove any sticks, stones and roots from the circle.



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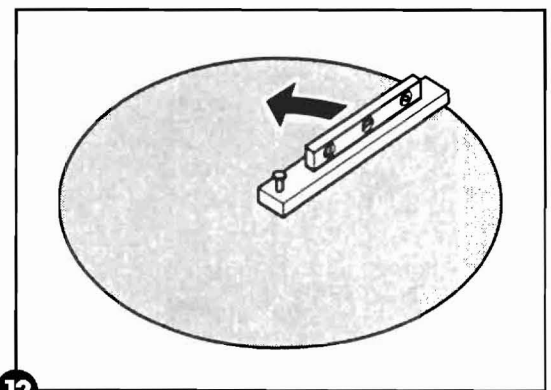
3. Make the Area Flat and Level

- a. Replace the centre peg with a flat-topped stake, at least 1" (25 mm) square and 6" (15 cm) long. Drive it down flush with the ground surface.
- b. Nail one end of a straight 2-by-4 to the top of the stake. Choose the length of 2-by-4 you need for your pool from the chart above. Use a nail long enough to hold the end of the 2-by-4 to the stake while you rotate it in a circle.



11

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



12



Remember:

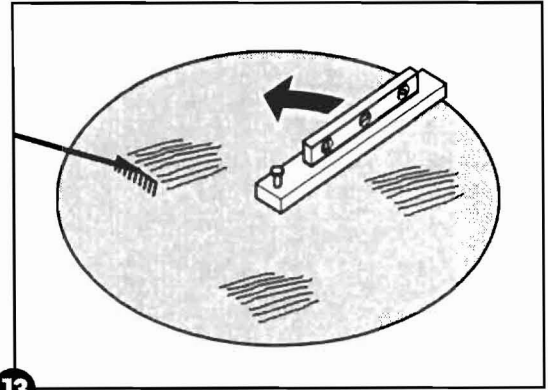
Your pool must be perfectly level. Take the time you need to be sure your foundation is perfectly level.



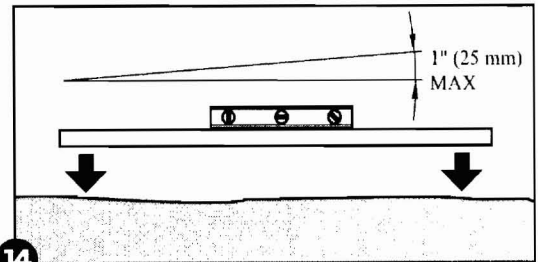
Hint:

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

- d. 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 diameter of the pool.

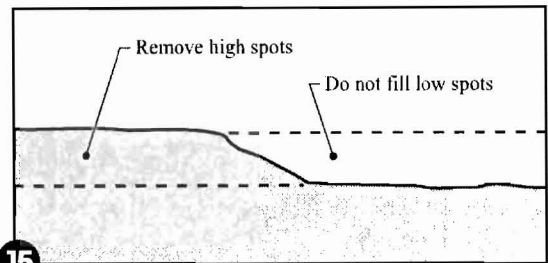


13



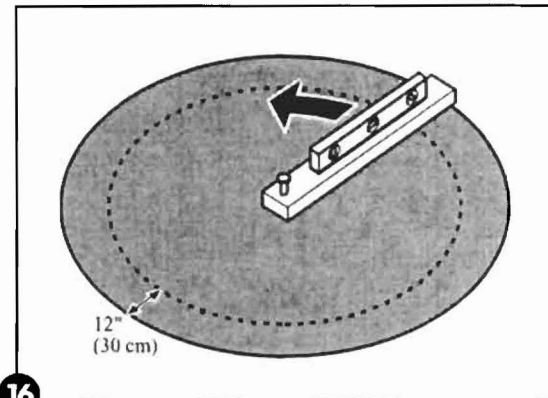
14

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



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- f. Recheck the outer 12" (30 cm) of the circle, where the pool wall will be. Make sure there are no high or low spots. The bottom edge of the pool wall must rest flat on the ground and have no gaps under it.



16



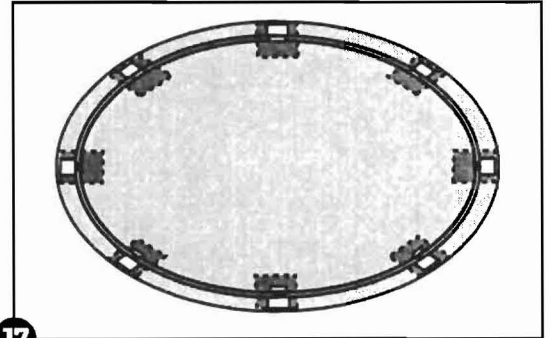
Remember:
The outer 12" (30 cm) of the circle must be perfectly flat. The bottom edge of the pool **must** rest flat on the ground and have no gaps under it. Take the time you need to be sure this area is perfectly flat and level.

4. Patio Stones (Optional)

- a. Concrete patio stones may be placed at the base of each vertical column of your pool. This is optional, but makes a better foundation for the pool wall. Patio stones 12" (30 cm) or larger will do. Round patio stones will also work. Choose the number of patio stones you need for your pool from the chart on the next page.

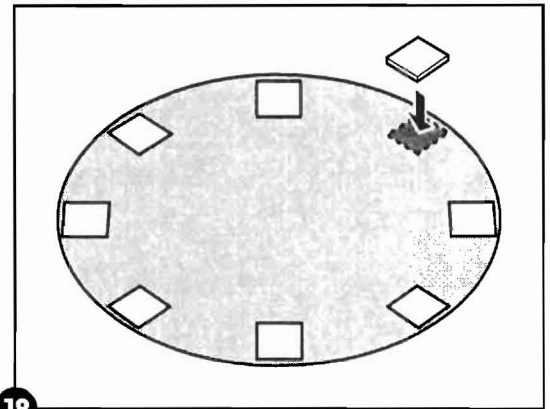
Pool Size	Number of Patio Stones (Optional)
12'	10
15'	10
18'	12
21'	14
24'	16
27'	18

b. Temporarily lay out the base rails and base plates around the circle. Each base plate will show the location for a patio stone. Make a mark in the ground at each base plate.



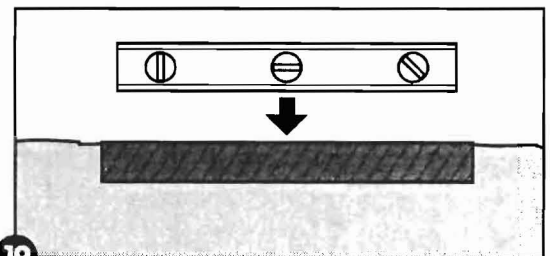
17

c. Remove the base rails and base plates and lay out the patio stones around the circle where the base plates were.



18

d. The patio stones 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.



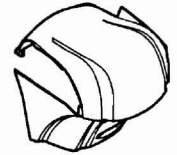
19

e. Remove the centre stake and 2-by-4.

5. Proceed to Section 2

a. Continue with Section 2 to assemble your pool.

b. The rest of Section 1 contains information you can use after you finish assembling your pool.



Assembling the Pool Base

A. Assemble your Pool Base


Note:

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.


Hint:

Bend the first 1/8" (3 mm) of the end of the bottom rail slightly with a pair of pliers to make sure the rail doesn't slide out of the base plate when the pool wall is installed.


Remember:

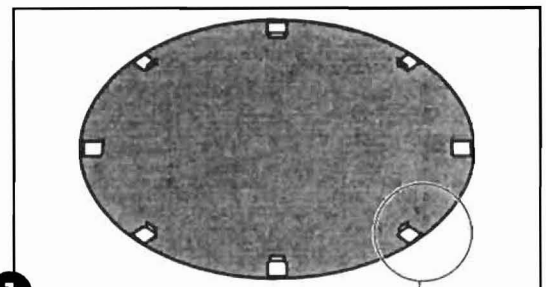
Spread brick sand or sheets of styrofoam out over the entire pool foundation area inside the base rails. This provides a protective surface for the pool liner to rest on. Pools with a styrofoam layer must still have a cove.

1. Lay out the Base Plates and Bottom Rails

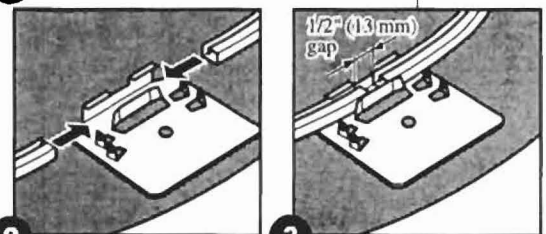
- a. This step is optional: Place sheets of 1" or 1-1/2" (25 or 38 mm) thick Styrofoam on the ground first. Place the bottom rails and base plates on top of the Styrofoam. Do not leave any gaps between the ends of the bottom rails. Using the inside face of the base rail as a cutting line, cut out the Styrofoam with a knife. Prior to removing the Styrofoam from inside of the pool perimeter, number each piece with a marker to make reassembling them fast and easy. Remove all of the Styrofoam from under the base plates and from inside of the pool (the Styrofoam trimmed off outside the rails can be discarded). Neatly stack the Styrofoam removed from inside of the pool it will be required later after the pool wall has been installed in Section 3, not before.
- b. Place the base plates equally spaced around the perimeter of your foundation. If you are using the optional patio stones, place one base plate on each stone.
- c. Slide the curved bottom rails together with the base plates. Leave a 1/2" (13 mm) gap between the ends of the bottom rails.

2. Spread out Brick Sand

- a. 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, use the sheets of Styrofoam previously cut out in Step 1a. Reassemble the sheets in the centre of the pool and join them with duct tape along the whole length of each seam. Remember to wait until the pool wall has been installed in Section 3 before installing the Styrofoam.

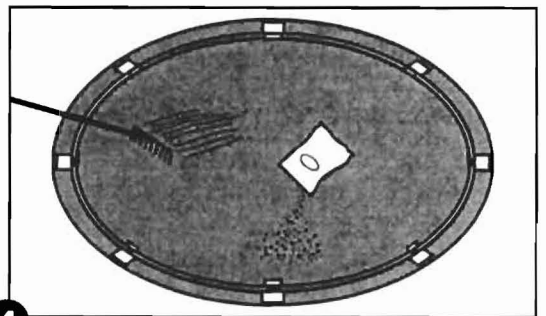


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3



4

SECTION 3

Pool Component Installation Manual

Assembling the Pool Wall & Liner



A. Assemble your Pool Wall

Hint:

Bring the following items onto the pool foundation before you start uncoiling the pool wall: the pool liner, some extra brick sand to make the cove in Step 5, and a ladder to climb out after the wall is assembled.



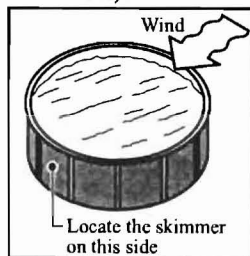
Caution:

Do not attempt to install the pool wall in the wind. Wait for a calm day.



Remember:

For **best results**, mount the skimmer on the **downwind** side of the pool (that is, directly across from the most common wind direction).



Hint:

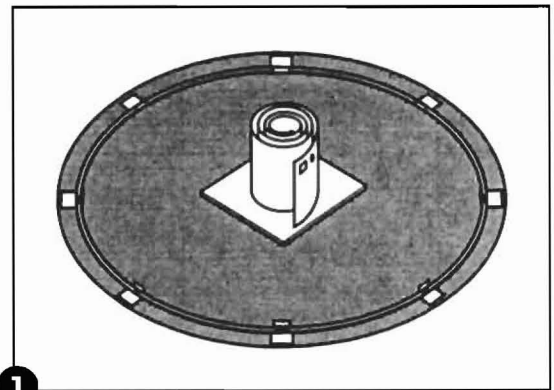
Secure the slotted tube connector to the wall with a piece of duct tape after installation to prevent it from lifting off the wall.

This section is for Round and Oval pools (Round pools are shown).

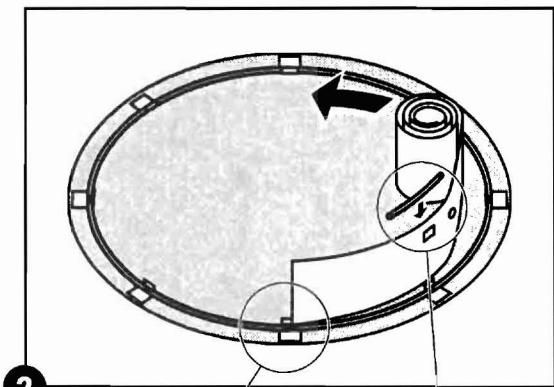
1. Set the Pool Wall in place

a. Wait for a calm day. **Do not** attempt to install the pool wall in the wind.

b. Unpackage the coiled pool wall and stand it on a piece of cardboard or plywood at the centre of the pool. The cut-outs for the through-the-wall skimmer should be towards the top of the wall. Look for a "THIS WAY UP" label and arrow.

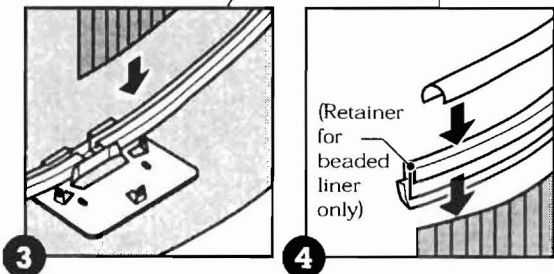


c. Start uncoiling the wall, guiding the bottom edge into the curved bottom rail. The starting end of the wall **must** be positioned **over a base plate**, and the skimmer and return holes should be positioned where the pump and filter will be.



d. 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.

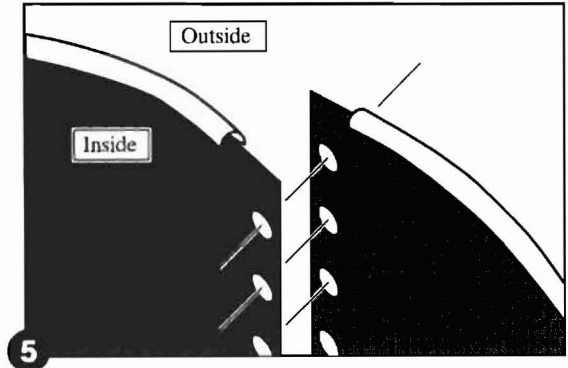
Make sure the gap is directly above the base plate (this applies to round pools, oval pools and Gibraltar Style pools). (If you have a **beaded pool liner**, set lengths of **liner retainer** on the top edge of the wall first, then the slotted tubes and connectors.)



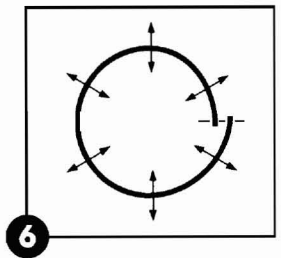
- e. Work around the foundation until the entire pool wall is uncoiled into the bottom rails and the top edge is covered with slotted tubes and connectors (and beaded liner retainers if you have a beaded pool liner).

2. Join the Ends of the Pool Wall

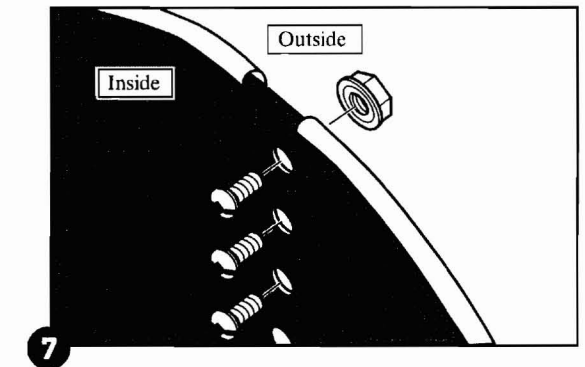
- a. Line up the holes in the two ends of the pool wall.



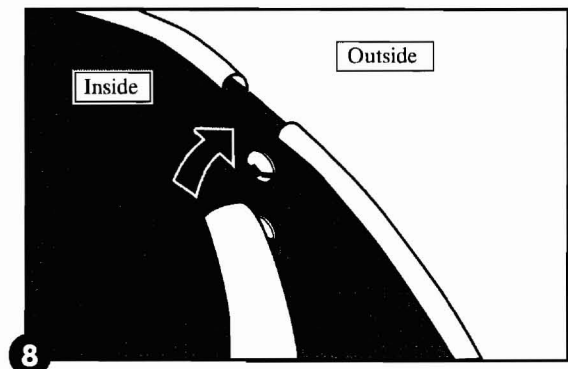
- b. To line up the holes, make the circle bigger or smaller by nudging the base plates in or out with your foot.



- c. Join the ends of the pool wall with a bolt and nut through each hole. Place each bolt head towards the **inside** of the pool and each nut towards the **outside**.
- d. Tighten each bolt and nut securely.



- e. Cover the seam and bolt heads on the inside of the pool wall completely with 2" (50 mm) duct tape.



Hint:

Stick a screwdriver through two of the holes to help line up the ends of the wall.

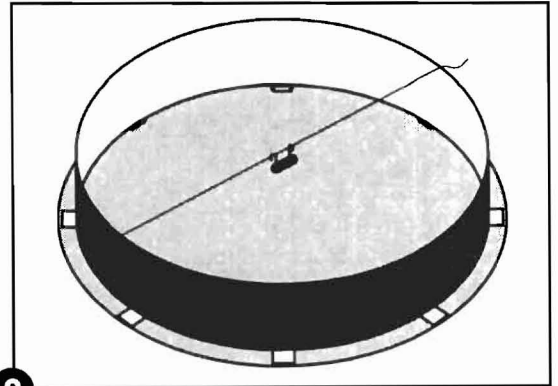


Remember:

The bolt heads must be toward the inside of the pool. Cover the bolt heads with duct tape.

3. Make sure the Pool Wall is Level

- a. Use a length of string and a line-level to check across the top edge of the pool wall to see if it is level. Check the wall in several different directions. The wall **must** be level. If the level is off by more than 1" (25 mm) across the diameter of the pool, take the wall apart and level the foundation again.

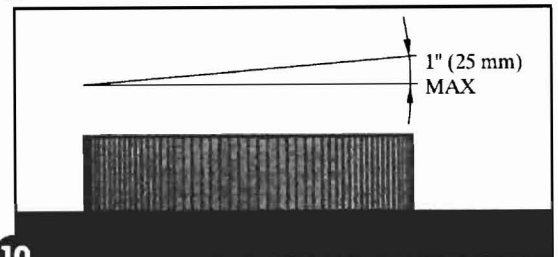


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Caution:

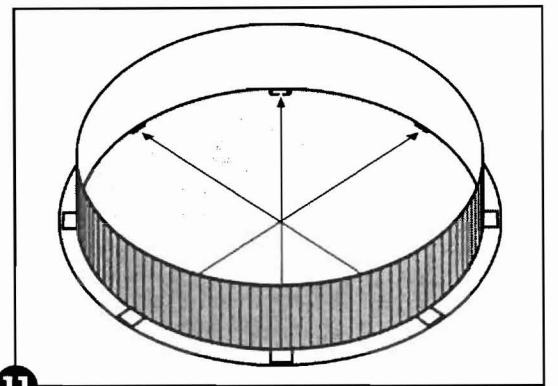
The pool **must** be level within 1" (25 mm) across the diameter. A pool that is not level is dangerous and may collapse.



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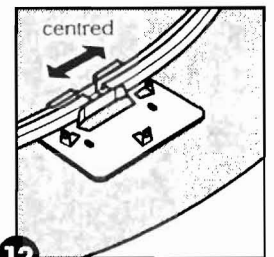
4. Make sure the Pool Wall is Round

- a. Using a tape measure, measure across the circle at each base plate. The pool wall **must** be round within 1" (25 mm) (all of the measurements must be within 1" (25 mm) of each other). Adjust the circle by nudging the base plates in or out with your foot.



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- b. Adjusting the pool to the proper shape may cause the base rails and base plates to slip out of alignment a little. Recheck all of the base plates to make sure each one is centred where the base rails meet.



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5. Install the Styrofoam Sheets (optional)

- a. If you chose the option of using Styrofoam **instead** of brick sand, you can now install the sheets of Styrofoam previously cut out in Step 1a. Reassemble the sheets in the centre of the pool and join them with duct tape along the whole length of each seam. Remember to wait until the pool wall has been installed in Section 3 before installing the Styrofoam.

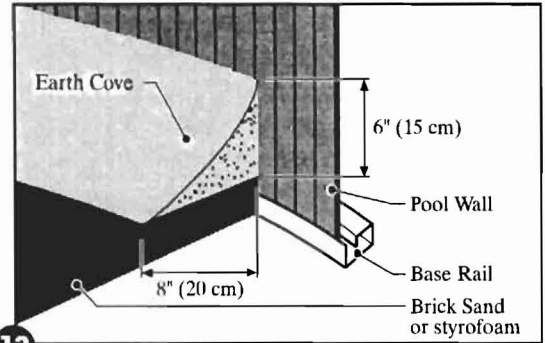


Remember:

The cove is an important part of the pool structure. Take your time to make a complete, full-size cove.

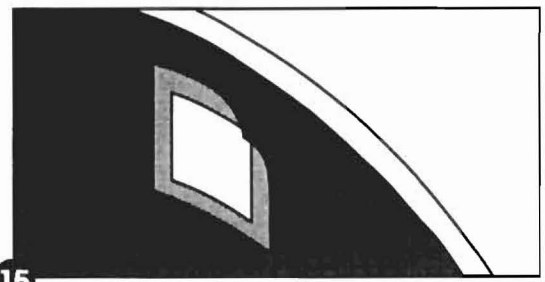
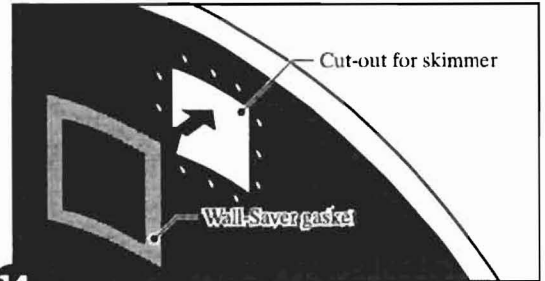
6. Make a Cove

- a. Make a curved cove about 6" (15 cm) high and 8" (20 cm) wide all around the bottom of the pool wall on the inside.
- b. Use fine earth or brick sand to make the cove, and pack it firmly into shape.

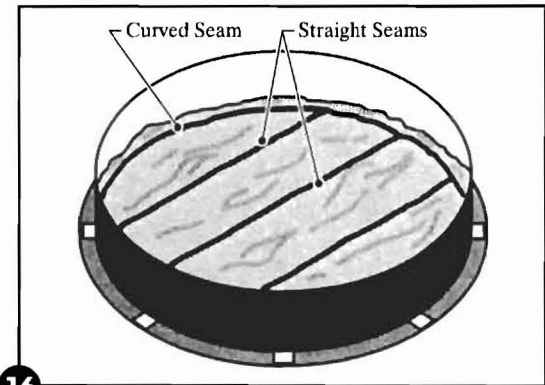


7. Install the "Wall-Saver" Gasket

- a. The Wall-Saver gasket provides a water-tight seal around the skimmer cut-out for the through-the-wall skimmer. **Gently** spread apart the two layers of the gasket and insert it into the skimmer cut-out so that it sandwiches the wall. **Be very careful not to tear or damage the seam in the gasket or the gasket may leak.** Take extra care not to cut or damage the gasket when you are installing the skimmer later. If the gasket is damaged, you **must** get a replacement from your pool dealer.



Note: The "Wall-Saver" gasket is not required or provided for walls using 14" skimmers.



B. Install your Pool Liner

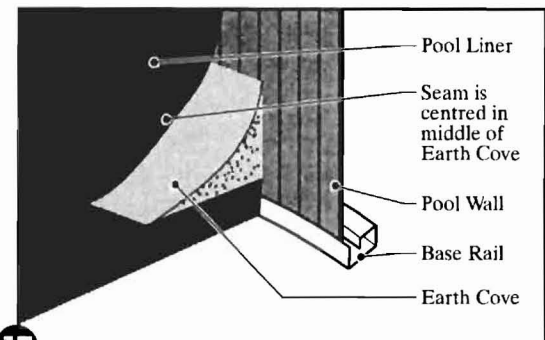


Hint:

If possible, unfold the liner on the grass one to two hours before installation. **Be careful** not to leave the liner too long or you may damage the grass.

1. Set the liner in place

- a. Open the carton. **Do not** use anything sharp to open the carton.
- b. Unpack and unfold the liner and spread it out in the sun to warm it up. Inspect all the seams and surfaces for holes.

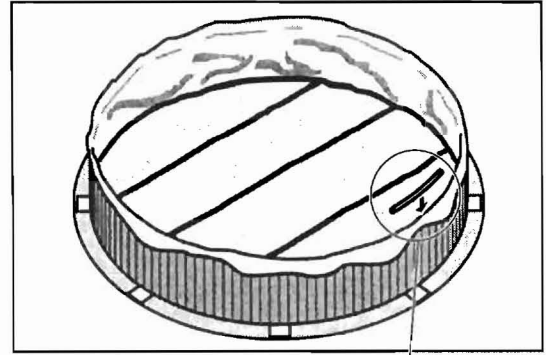




Hint:

To smooth out the wrinkles in step 2(c), use a **vacuum cleaner**: block the skimmer outlet with cardboard and tape and put the vacuum hose through the skimmer return hole, between the liner and pool wall. Seal the hole with tape and keep the hose 4" to 6" (10 to 15 cm) above the sand cove so you don't suck up any sand. Start the vacuum and run it until most of the wrinkles are gone. Then, stop the vacuum and add 1" (2.5 cm) of water to the pool. Finally, remove the vacuum hose and unplug the skimmer hole.

- c. Spread out the liner, smooth side down. The curved seam should be centred on the cove at the base of the wall. The other seams will form straight lines across the bottom of the pool.



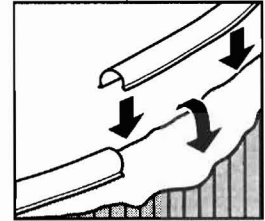
18

- d. Smooth out all the wrinkles in the bottom.

2. Fasten the Liner in place (Overlap Liner only)

This step applies only if you have an **Overlap Liner**. See the next page if you have a **Beaded Liner** or **V-Bead Liner**.

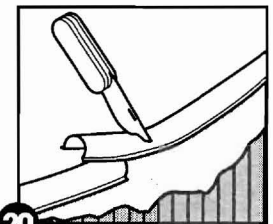
- a. Lift the sides of the liner and drape them over the top of the pool wall. If you have a 52" (132 cm) high pool, pull the liner up until there is 2" (5 cm) overhang; if you have a 48" (122 cm) high pool, pull the liner up until there is 6" (15 cm) overhang.
- b. Fasten the liner to the top of the wall with plastic coping. Let the liner hang slack for now. **Do not** pull the liner tight.
- c. Start filling the pool with water. As the pool fills, work out all the wrinkles and smooth the liner to the wall. Remove the plastic coping around the top edge of the wall **one piece at a time** and adjust the liner. Keep smoothing out the wrinkles.



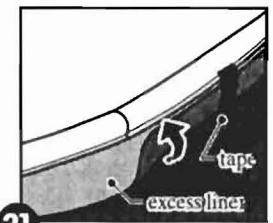
19

3. Trim the Plastic Coping and Roll Up the Excess Liner

- a. After all the wrinkles in the liner are removed, trim any extra length of plastic coping so there is no overlap.
- b. Roll up any excess liner hanging below the plastic coping and tape it in place near the top of the pool wall. **Important: Do not** trim off the excess liner.



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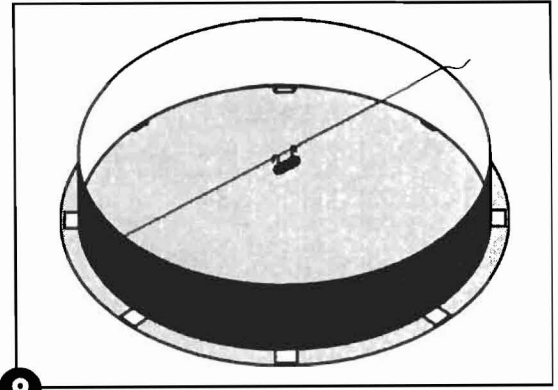


Remember:

Do not trim off the excess liner. (If the liner ever needs to be removed, trimming the liner will make re-installation very difficult.) Instead, roll up any excess liner and tape it in place near the top of the pool wall.

3. Make sure the Pool Wall is Level

- a. Use a length of string and a line-level to check across the top edge of the pool wall to see if it is level. Check the wall in several different directions. The wall **must** be level. If the level is off by more than 1" (25 mm) across the diameter of the pool, take the wall apart and level the foundation again.

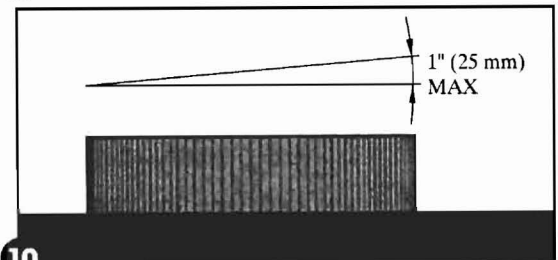


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Caution:

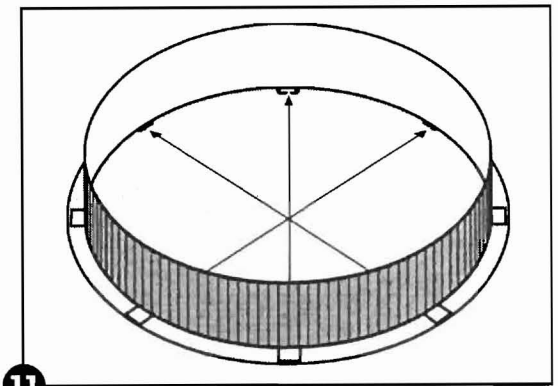
The pool **must** be level within 1" (25 mm) across the diameter. A pool that is not level is dangerous and may collapse.



10

4. Make sure the Pool Wall is Round

- a. Using a tape measure, measure across the circle at each base plate. The pool wall **must** be round within 1" (25 mm) (all of the measurements must be within 1" (25 mm) of each other). Adjust the circle by nudging the base plates in or out with your foot.



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- b. Adjusting the pool to the proper shape may cause the base rails and base plates to slip out of alignment a little. Recheck all of the base plates to make sure each one is centred where the base rails meet.

5. Install the Styrofoam Sheets (optional)

- a. If you chose the option of using Styrofoam **instead** of brick sand, you can now install the sheets of Styrofoam previously cut out in Step 1a. Reassemble the sheets in the centre of the pool and join them with duct tape along the whole length of each seam. Remember to wait until the pool wall has been installed in Section 3 before installing the Styrofoam.

SECTION 4

Pool Component Installation Manual

Installing the Top Rails & Verticals

A. Attach your Verticals and Top Rails

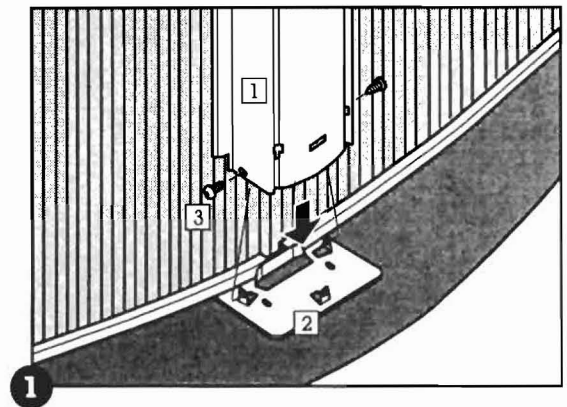
1. Continue filling your Pool

- a. Continue filling your pool with water. Do not put in more than 12" (30 cm) of water until the top rails and vertical columns are all attached.
- b. Keep working on the top rails and vertical columns while the pool fills.

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

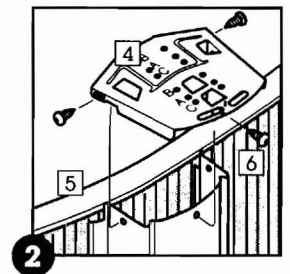
2. Install the Vertical Columns

- a. Line up the bottom of one vertical column (key 1) with the two small tabs on one base plate (key 2). The tabs must be on the inside of the vertical column. The end of the vertical with three holes must be nearest the top and the end with two holes nearest the bottom.



- b. Line up the screw holes and fasten with one self-tapping screw on each side (key 3).

- c. Hook a top plate (key 4) over the top edge of the pool wall (key 5). Place the top plate down over the top of the vertical column with the front tab on the outside of the column. Make sure the vertical column is straight up and down.



- d. Line up the oval screw holes and fasten with one self-tapping screw on each side and one on the front (key 6).

- e. Repeat the last four steps for each of the vertical columns around the pool wall.



Hint:

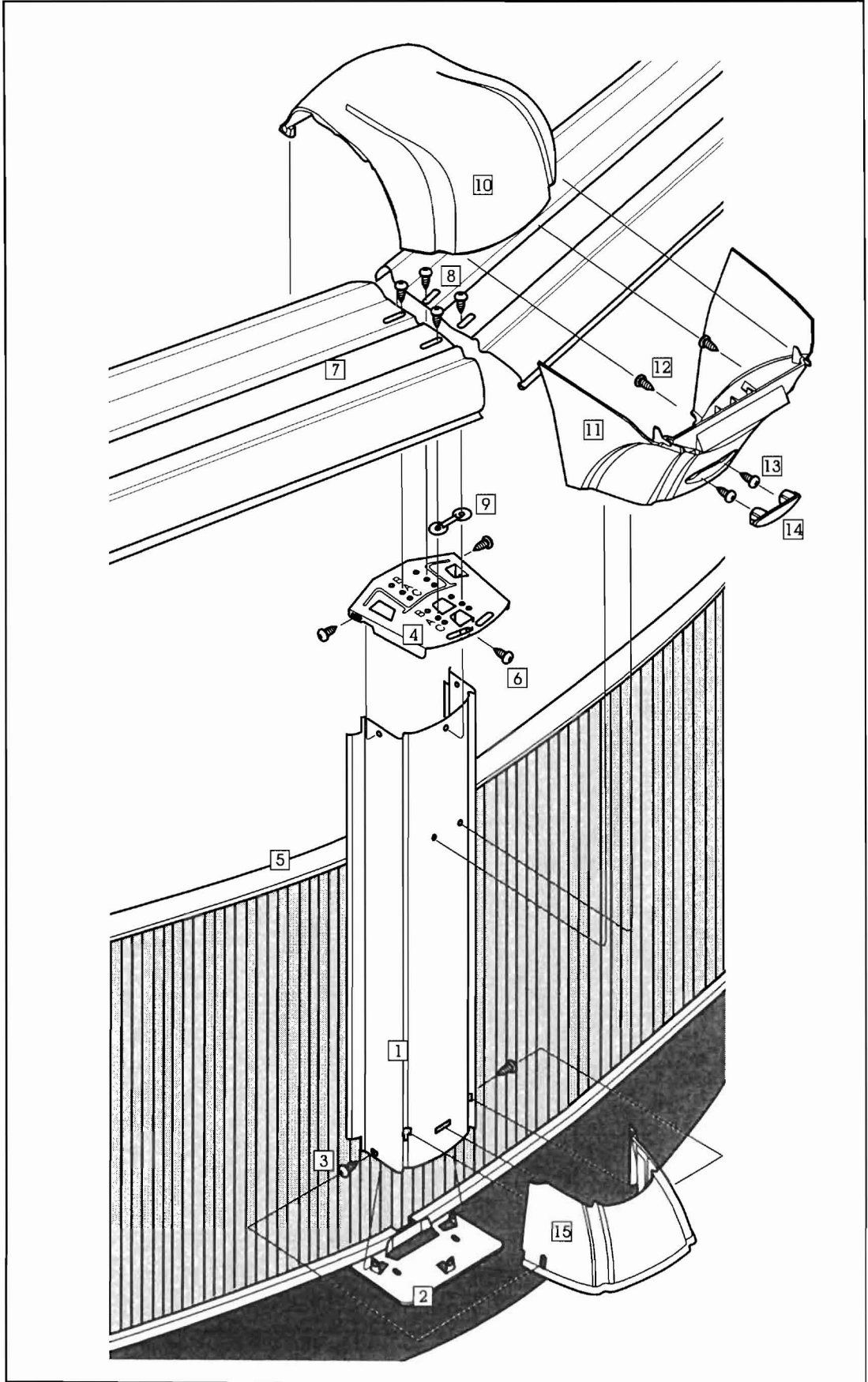
In step 2(b), make sure the two screws (key 3) are exactly straight and perpendicular to the vertical column, or else the foot cover will be difficult to install later.



Hint:

Use the ridges in the pool wall to make sure the vertical column is straight up and down.

**Overview of
Vertical, Top Rail
and Top Connector
Assembly**





Important:

Be careful not to damage the double plastic washer or foot cover when separating them with the knife.



Note:

The double plastic washer is needed only with the screw farthest from the centre of the pool. The other screw does not need a washer.

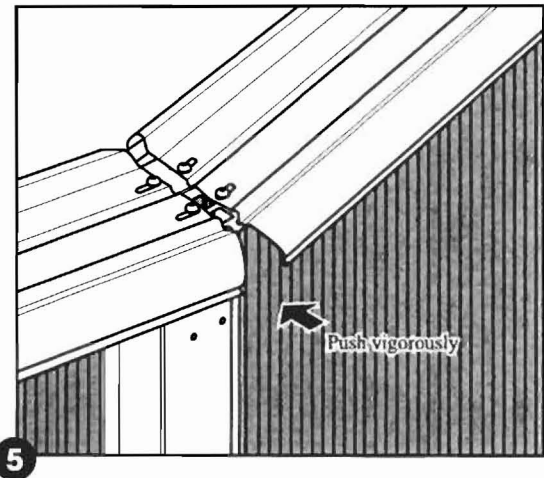
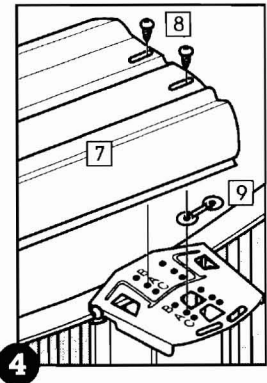
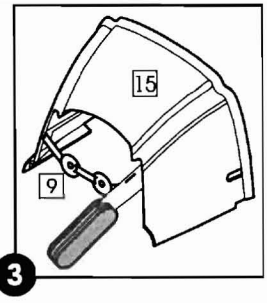


Important:

You will find the self-drilling 'Tek's' screws in the Top Pack, in package number 184232. Do not confuse these with the other self-tapping screws.

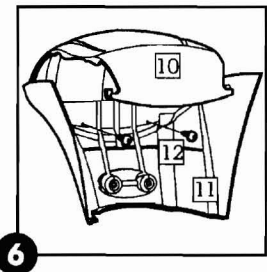
3. Install the Top Rails

- a. The double plastic washers are shipped attached to the foot covers and must be cut apart. Carefully remove the double plastic washer (key 9) from the foot cover (key 15) with a sharp knife (place the plastic parts upside down on a hard surface to do the cutting). Remove any excess plastic from both parts with the knife.
- b. Place a top rail (key 7) with one end on top of the top plate. The side of the top rail facing the centre of the pool is shorter than the side facing the outside of the pool. The side of the top rail facing the outside of the pool will form a large overhang.
- c. Line up the holes as shown. Fasten through the two oval holes into the holes marked 'A' in the top plate below with two self-tapping screws (key 8), and with one double plastic washer (key 9) over the hole 'A' farther from the centre of the pool, as shown in diagram 4. Do not tighten the screws yet. Leave the screws slightly loose until all the top rails are in place.
- d. Repeat step (c) for the other end of the top rail.
- e. Repeat steps (a) to (d) to install the rest of the top rails around the top of the pool wall.
- f. 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).
- g. Adjust all the top rails to line up evenly with each other and tighten all the screws.

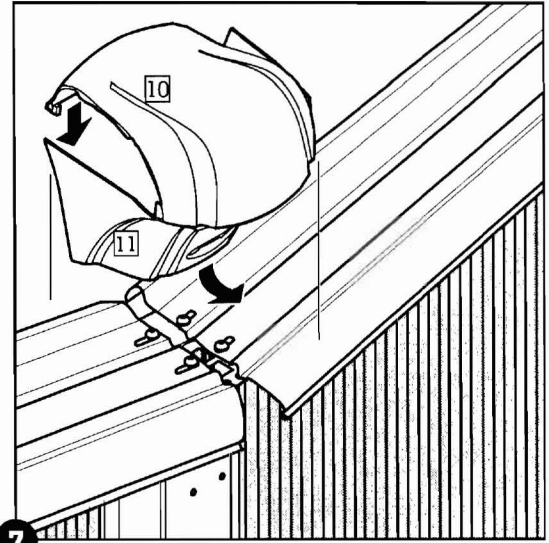


4. Install the Top Connectors

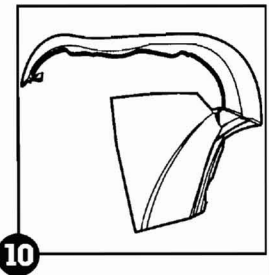
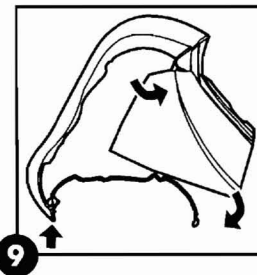
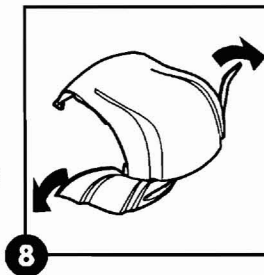
- a. Fasten the upper and lower halves of a two-piece top connector (key 10 and 11) with two self-drilling 'Tek's' screws (key 12). Be sure to hold the two parts together very tightly to make a tight joint with the two screws.



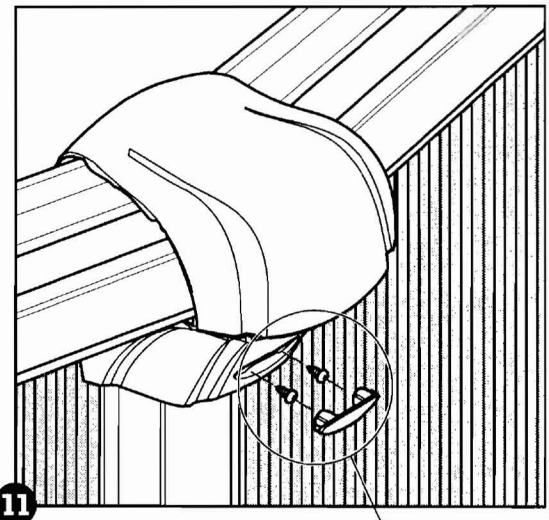
- b. Line up the assembled top connector (key 10 and 11) above the ends of two top rails.
- c. Hook the upper half under the inside edges of the top rails and hold the hooks firmly in place. Bring the lower connector down into place under the top rails by spreading the sides out, as shown in diagram 8, and gently stretching it across and down, as shown in diagrams 8, 9 and 10.



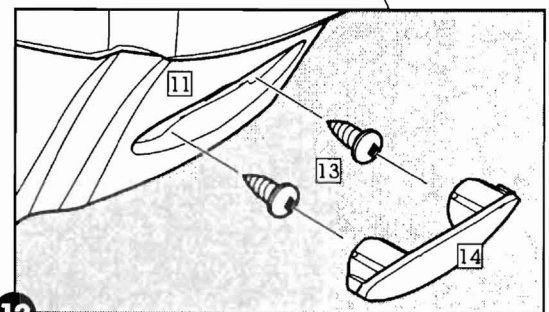
- d. Line up the two screw holes in the lower half connector with the two holes in the vertical column. Fasten the connector in place with two self-tapping screws (key 13). Tighten the screws.



- e. Important: when each top connector is properly installed, there should be a small gap between the connector and the pool wall. Make sure the connector is not touching the pool wall; if it is touching, remove the screws and the top connector and slide the ends of the top rails outwards from the centre of the pool to the next available hole in the top plate. Reinstall the top connector after the top rails are adjusted and the screws are tightened again.



- f. Insert the plug (key 14) into the holes in the lower half connector (key 11) to hide the screws (see diagram 12). Press the plug firmly in place.
- g. Repeat the last six steps for the rest of the top connectors.



Caution:

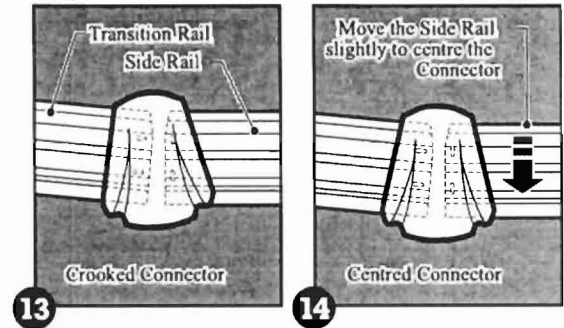
Be sure to spread the sides of the lower half connector before stretching it across the top rails or the connector may be damaged.



Note:

If necessary, the plug covering the screws can be removed by prying it out with a knife. Be careful not to damage the edges of the plug.

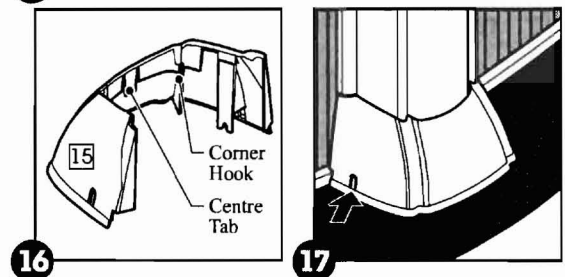
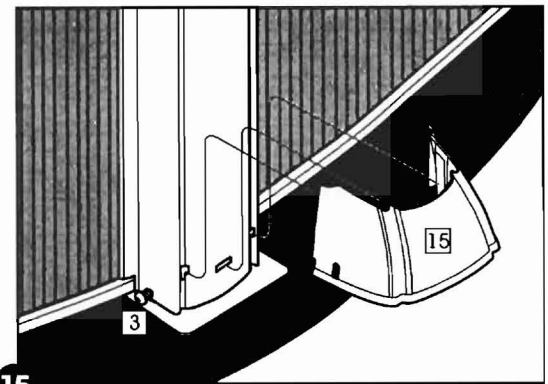
- h. For oval pools only: at the transition points only, where the end rail meets the side rail, make sure the side rail lines up properly with the end rail. If it doesn't line up the connector will appear crooked from above (see diagram 13). If the connector isn't centred between the rails, temporarily remove the



connector and loosen the screws on the side rail. Shift the side rail in or out from the centre of the pool until the connector can be properly centred between the rails (see diagram 14).

5. Install the Foot Cover

- a. Loosen the self-tapping screws (key 3) on each side of the vertical column by two turns.
- b. Slip the foot cover (key 15) onto the vertical column and slide the foot cover down the vertical column to the bottom so the hooks in each corner of the foot cover (as shown in diagram 16) locate in the two notches in the column. Press down to make the hooks fasten into the notches, the centre tab on the foot cover (also shown in diagram 16) fasten into the rectangular slot in the vertical column, and the two long side tabs hook over the screws.



- c. Insert a screwdriver through the holes in each side of the foot cover to re-tighten the two screws loosened in step (a), as shown in diagram 17.
- d. Repeat the steps (a) to (c) for each of the vertical columns around the pool wall.

B. Fill your Pool with Water

1. Finish filling the pool

- a. Fill the pool with water to 2" (5 cm) below the lowest opening. Next, follow the installation instructions for your skimmer.



Hint:

In step 5(b), push the sides of the foot cover inward while you slide the cover down into place, to make sure the two long side tabs hook onto the screws.



Important:

The pool wall may bulge and shift a little while filling with water. This is normal.



Caution:

Before anyone uses your pool, read and follow all the Safety Rules in Section 1. This pool is not for diving or jumping.

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.
- g. Pay special attention to any leaks at the skimmer and return openings. Leaks must be fixed immediately.

E. Winterizing your Pool

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



Caution:

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

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 well. 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.

Continued next page

6. Pool Accessories

Remove all pool accessories from the pool, including the ladder. Leave the skimmer and filter parts **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 filter from the pool. Follow the filter directions for winterizing your filter.



Remember:

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

Important Winterizing Notice

All Pools:

The water level must be maintained at least 3" 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" skimmers:

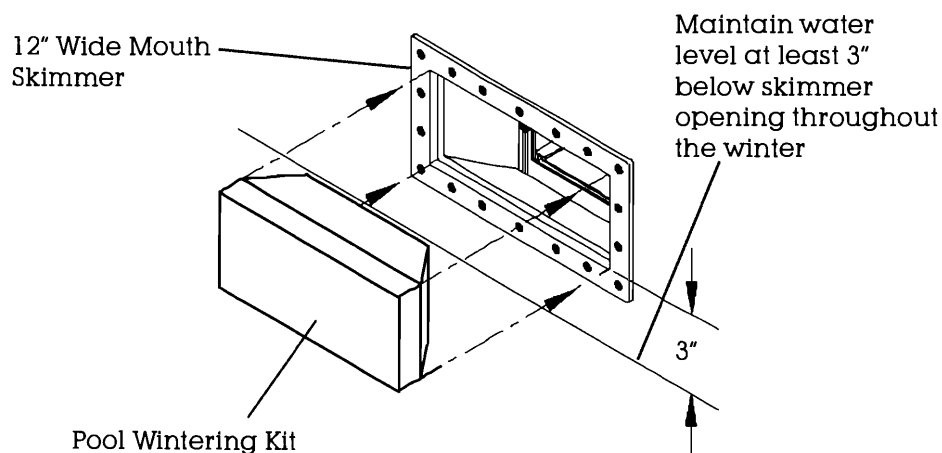
In addition to the above, the Pool Winterizing Kit (Part Number 1370138) must be inserted into the 12" skimmer (see illustration below)

Failure to install the "Pool Winterizing Kit" and follow the winterizing procedure, 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, connectors or any part of the skimmer.



Insert the Pool Winterizing Kit (Part Number 1370138) into the skimmer until it fits flush with the skimmer flange. 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.



F. 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.

