

BLOCK 846 LOT X 1 QUALIFICATION CODE _____ ADDRESS (SITE) 1713 Forge Pond Rd. PERMIT NO. 07-2078



CONSTRUCTION PERMIT APPLICATION

CO 7-003126

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

I. IDENTIFICATION

1. Proposed Work Site at 1713 Forge Pond Rd
2. Name George E. & Kathleen M. Frazee
Tel. [REDACTED] e-mail [REDACTED]
Address 1713 Forge Pond Rd. street municipality zip code
3. Ownership in Fee: Public _____ Private X
4. Principal Contractor: George E. Frazee Tel. (732) 785-2777
Address 1713 Forge Pond Rd. e-mail _____
License No. OR, if new home, Builder Reg. No. _____ Exp. Date _____
Federal Employee No. _____ FAX: (____) _____
5. Architect or Engineer _____ Contact _____
Address _____ e-mail _____
Tel. (____) _____ FAX: (____) _____
6. Responsible Person in Charge once Work has Begun George E. Frazee
Tel. [REDACTED] FAX: (____) _____

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$ <u>75</u>		
2. Electrical	\$ <u>75</u>		
3. Plumbing			
4. Fire Protection			
5. Elevator Devices			
6. Subtotal	\$		
7. Less 20% for State Plan Review	<u>1</u>		
8. Subtotal	\$		
9. State Permit Surcharge Fee	\$		
10. Subtotal	\$		
11. Cert. of Occupancy			
12. Other <u>2A</u>	<u>32791</u>		
13. TOTAL	\$		

VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories _____
2. Height of Structure _____ ft.
3. Area - Largest Floor _____ sq. ft.
4. New Building Area _____ sq. ft.
5. Volume of New Structure _____ cu. ft.
6. Construction Classification _____
7. Total Land Area Disturbed _____ sq. ft.
8. Flood Hazard Zone _____
9. Base Flood Elevation _____ ft.
10. Wetlands yes _____
no _____
11. Max. Live Load _____
12. Max. Occupancy Load _____

(office use only)

II. PROPOSED WORK

4. ☐ Minor Work
2. ☐ New Building
3. ☐ Addition
4. ☐ a. Repair
☐ b. Alteration
☐ c. Renovation
☐ d. Reconstruction
5. ☐ Fire Protection
6. ☐ Plumbing
7. ☒ Electrical
8. ☐ Elevator Devices
9. ☐ Asbestos Abat. Subch. 8
10. ☐ Lead Hazard Abatement
11. ☐ Demolition

Est. Cost

Plans
Rec'd

Date
Rec'd

OPTIONAL (for office use only)

Rejection
Date

Approval
Date

Re-
viewer

Resubmission Dates
Approval

Rejection

Re-
viewer

TOTAL COSTS

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL

1. State Specific Use:
2. Use Group:
3. Change in Use Group, Indicate Former:

4. No. of dwelling units: All Units Income-restricted
Before Construction _____
After Construction _____
Net Gain or Loss _____

B. NON-RESIDENTIAL

1. State Specific Use:
2. Use Group:
3. Change in Use Group, Indicate Former:

III. DO YOU WANT: (optional)

1. ☐ Partial Releases
2. ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/
Dumbwaiters/Moving Walks
2. ☐ High Pressure Boilers
3. ☐ Pressure Vessels
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks
10. ☐ Swimming Pools, Spas and Hot Tubs

left message
called 7/19/07

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.vii:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature

George E. Fraga

Date

6/21/07

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☐ Check if contractor.

Agent Name _____

Address _____

Telephone (_____) _____

Signature _____

III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 05/16/2008
Control Number C-07-003126
Permit Number 07-2078
Permit Issue Date 07/11/2007
Certificate Number 07-2078

Certificate
Construction Code Division
(Certificate of Approval)

Identification

Work Site Location: 1713 FORGE POND RD. , NJ Block: 846 Lot: 1 Qual: _____
Owner in Fee: FRAZEE, GEORGE E & KATHLEEN M
Owner Address: 1713 FORGE POND RD. BRICK NJ 08724
Telephone: [REDACTED]
Contractor FRAZEE, GEORGE E & KATHLEEN M
Address 1713 FORGE POND RD. BRICK NJ 08724
Telephone: [REDACTED] Fax: _____
License Number or Builders Registration Number: _____ Federal Emp. Number: _____

Home Warranty Number: _____

Type of Warranty Plan: ☐ State ☐ Private

Use Group: U Construction Classification: _____

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work/Use: ABOVE GROUND SWIMMING POOL 12X24X52" IN SIZE (RESIDENTIAL)

Certificate Comments:

☐ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☒ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:
This certificate has an expiration date of:

Conditions to be met:

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

- ☐ Total removal of asbestos hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than: or the owner will be subject to fine or order to vacate:
This certificate has an expiration date of:

Conditions to be met:

Construction Official

Fee: \$0.00
Check Number: _____
Collected By: _____



CONSTRUCTION PERMIT

Date Issued 07/11/2007
Control # C-07-003126
Permit # 07-2078

IDENTIFICATION Block: 846 Lot: 1 Qualifier
Work Site Location: 1713 FORGE POND RD. NJ Contractor FRAZEE, GEORGE E & KATHLEEN M
Address 1713 FORGE POND RD. BRICK NJ 08724
Owner in Fee FRAZEE, GEORGE E & KATHLEEN M
Address 1713 FORGE POND RD. BRICK NJ 08724 Telephone: [REDACTED]
Telephone: [REDACTED] Lic. No. or Bldrs. Reg. No. [REDACTED]
Federal Employee No. [REDACTED]

Is hereby granted permission to perform the following work:

- | | | |
|--|--|--|
| ☒ BUILDING | ☐ PLUMBING | ☐ LEAD HAZARD ABATEMENT |
| ☒ ELECTRICAL | ☐ FIRE PROTECTION | ☐ DEMOLITION |
| ☐ ELEVATOR DEVICES | ☐ ASBESTOS ABATEMENT
(Subchapter 8 only) | ☐ OTHER |

DESCRIPTION OF WORK:

ABOVE GROUND SWIMMING POOL 12X24X52" IN SIZE (RESIDENTIAL)

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$1,300

Construction Official _____

Date _____

U.C.C. F170
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$75
Electrical	\$85
Plumbing	\$0
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$1
CO Fee	
Other	\$30
Total	\$191
Check No.	3106
Cash	\$0
Credit	\$0
Collected By	Stephanie Capozzi

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.



**BUILDING SUBCODE
TECHNICAL SECTION**



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO. 1-800-272-1000.

Block 846 Lot 21 Qualification Code _____

Work Site Location Brick, NJ 08734

Owner in Fee George E. & Kathleen M. Frazier

Address 1713 Forge Pond Rd.

Brick, NJ 08734

Tel. _____

Contractor George E. Frazier

Address 1713 Forge Pond Rd.

Brick, NJ 08734

Tel. _____

FAX (____) _____

Contractor License No. or Builder Registration No. _____

Federal Emp. No. _____

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)	Initial
			Type:	Failure	Approval
☒ No Plans Required	7/20/07	EM	Footing		
☐ All			Footing Bonding		
☐ Footing			Foundation		
☐ Foundation			Slab		
☐ Frame			Truss Sys./Bracing		
☐ Other			Barrier-Free		
Joint Plan Review Required:			Insulation		
☐ Elec. ☐ Plumb. ☐ Fire ☐ Elevator			Finishes - Base Layer		
SUBCODE APPROVAL			Finishes - Final		
☐ CO	☐ SCA		Energy		
Date:	7/14/07	CA	Mechanical		
Approved by:			TCO		
			Other		
			Final		
			Barrier-Free		

B. BUILDING CHARACTERISTICS

Use Group	Present	Proposed	Est. Cost of Bldg. Work:
Constr. Class	Present	Proposed	1. New Bldg. \$
No. of Stories			2. Rehabilitation \$
Height of Structure			3. Total (1+2) \$
Area — Largest Floor			
New Bldg. Area/All Floors			
Volume of New Structure			
Total Land Area Disturbed			

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Signature George E. Frazier

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

above-ground pool 52"
12' x 24'

Need engineering for retaining wall

Any Access To Pool Must meet Code

TYPE OF WORK:	FEE (Office Use Only)
☐ New Building	
☐ Addition	
☐ Rehabilitation	
☐ Roofing	
☐ Siding	
☐ Fence	
☐ Sign	
☒ Pool (above-ground pool)	
☐ Asbestos Abatement Subchapter 8	
☐ Lead Haz. Abatement NJAC 5:17	
☐ Other	
☐ Demolition	

Administrative Surcharge \$	
Minimum Fee \$	
State Permit Surcharge Fee \$	
TOTAL FEE \$	

Date Received
Control #
Date Issued
Permit #
7/11/07
07-2078

4 Gold = Applicant Copy

8-2-07 FILTER + CONCEAL OUTLET SAME CIRCUIT
TO BATTERY FOR BOAT FILTER

⑤ Tech Back

**Township of Brick
Zoning Permit**

Approved: Wednesday, June 27, 2007 **Number:** 788

Block 846 **Lot** 2 **Zone:** R-10

Property Address: 1713 Forge Pond Road

Applicant: George E. Frazee

Property Owner: Goerge E. & Kathleen M. Frazee

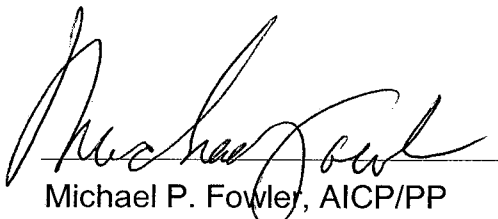
Existing Use: Single Family Residential

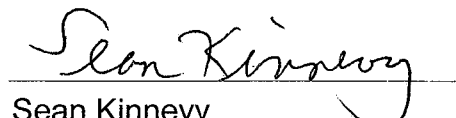
Proposed Use: Single Family Residential

Proposed Construction: Above-ground swimming pool,

Conditions: The pool must be set back at least five (5) feet from the side property lines and cannot extend past the N.G.V.D. Elevation 7.0 Contour Line.

This permit shall be null, void and of no effect if any of the facts contained in the application upon the basis that this permit was granted are false or untrue in any material respect. This permit shall expire one (1) year after the date of issuance if the use or substantial construction has not been commenced.


Michael P. Fowler, AICP/PP
Principal Planner


Sean Kinnevy
Zoning Officer

TOWNSHIP OF BRICK ZONING PERMIT APPLICATION

(Please Type or Print Neatly in Ink, Not Pencil)

JUN 27 2007

Applications missing any of the following information
will delay processing and may be returned to you.

BLOCK 846 LOT 2 QUALIFIER ---

PROPERTY ADDRESS 1713 Forge Pond Road

PERSONAL NAME OF APPLICANT George E. Frazee

BUSINESS NAME OF APPLICANT ---

MAILING ADDRESS OF APPLICANT 1713 Forge Pond Rd, Brick, NJ 08724

PROPERTY OWNER'S FULL NAME George E. & Kathleen M. Frazee

PRESENT USE OF PROPERTY (check all that apply)

- ☐ Vacant Lot ☒ Single-family dwelling ☐ Multi-family dwelling
☐ Commercial (please describe) ---

PROPOSED USE OF PROPERTY (check all that apply)

- ☐ Vacant Lot ☒ Single-family dwelling ☐ Multi-dwelling
☐ Commercial (please describe) ---

PROPOSED CONSTRUCTION (check all that apply)

- ☐ New Building (please describe) --- Height ---
☐ Addition - Height ---
☐ Alteration ---
☐ Porch or deck - Height ---
☐ Shed - Height ---
☐ Fence - Type --- Height ---
☒ Swimming Pool ☐ in-ground ☒ above-ground
☐ Other (please describe) ---

CHECKLIST

- ☒ All information completed above
☐ Two (2) copies of a plot plan containing:
☒ All existing and proposed structures
☒ All dimensions of the lot and structures
☐ All setbacks from the structures to the property lines
☐ All adjacent streets and waterways

☐ If applicable, include a copy of the Zoning Board of Adjustment Resolution, the date that the map was signed, and/or the date that the subdivision map was filed with the Ocean County Clerk, along with the file map and number.

**Note: No partial, taped, faxed,
reduced or enlarged copies
can be accepted.**

The applicant certifies that all statements and information made and provided as part of this application are true to the best of the applicant's knowledge, information and belief. The applicant further states that the applicant will comply with all other Municipal approvals and ordinances, and all County, State, and Federal Regulations.

SIGNATURE OF APPLICANT George E. Frazee Date 6/21/07

Reviewed by Zoning Office SK Date 6/27/07 ☒ Approved () Denied

March 2003-----

KB
6/25/07

HOMEOWNER'S POOL CERTIFICATION

FENCE REQUIREMENTS:

Outdoor private swimming pool: An outdoor private swimming pool, includes an in-ground, above-ground or on-ground pool, hot tub or spa shall comply with the following.

1. The top of the barrier shall be at least 48 inches above finished ground level measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between finished ground level and the barrier shall be 2 inches measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above finished ground level, such as an above-ground pool, the barrier shall be at finished ground level, such as the pool structure, or shall be mounted on top of the pool structure. Where the barrier is mounted on the pool structure, the opening between the top surface of the pool frame and the bottom of the barrier shall not allow passage of a 4 inch diameter sphere.
2. Openings in the barrier shall not allow passage of a 4 inch diameter sphere.
3. Solid barriers shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.
4. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches, the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1 3/4 inches in width. Decorative cutouts shall not exceed 1 3/4 inches in width.
5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches or more, spacing between vertical members shall not exceed 4 inches. Decorative cutouts shall not exceed 1 3/4 inches in width.
6. Maximum mesh size for chain link fences shall be a 1 1/4 inch square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to not more than 1 3/4 inches.
7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall be not more than 1 3/4 inches.
8. Access gates shall comply with the requirements of items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outwards away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches from the bottom of the gate: (a) the release mechanism shall be located on the pool side of the gate at least 3 inches below the top of the gate and; (b) the gate and barrier shall not have an opening greater than 1/2 inch within 18 inches of the release mechanism.

BLOCK: 846 LOT: 2 ADDRESS: 1713 Forge Pond Road

In accordance with the NJAC 5:23-2.23, no pool shall be used in whole or in part until a Certificate of Approval has been issued by the Construction Official.

I certify that I am the owner of the above referenced pool being built. I further certify that the pool will not be used in whole or in part until a permanent fence is installed and a Certificate of Approval has been issued by the Construction Official.

I have read the fence requirements listed above and understand them.

George E. Frazee & Kathleen M. Frazee
Owner's Signature

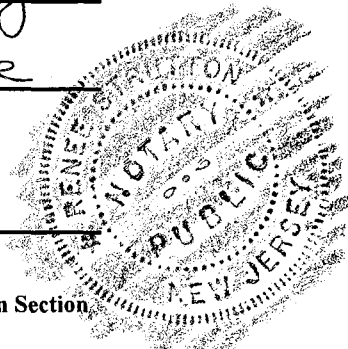
George E. Frazee & Kathleen M. Frazee
Print Name

Sworn and subscribed to before me on this 21 day of June 2007

Renée Strutton
Notary Signature

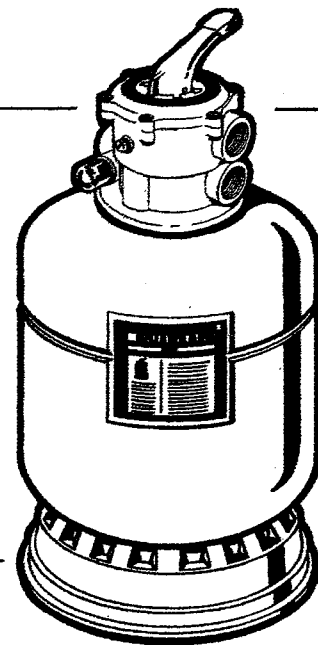
Barrier Exceptions: Spas or hot tubs with a safety cover which complies with ASTM F 1346, as listed in Section AG107, shall be exempt from the provisions of this appendix.

RENEE STRUTTON
NOTARY PUBLIC STATE OF NEW JERSEY
MY COMMISSION EXPIRES SEPT. 19, 2009



RECEIVED 10/16/2014
STATE CLERK, YUATON
J. M. [illegible]

HAYWARD® S166T HIGH-RATE SAND FILTER



Your Hayward S166T high-rate sand filter is a high performance, totally corrosion-proof filter that blends superior flow characteristics and features with ease of operation. It represents the very latest in high-rate sand filter technology. It is virtually foolproof in design and operation and when installed, operated and maintained according to instructions, your filter will produce clear, sparkling water with only the least attention and care.

HOW IT WORKS

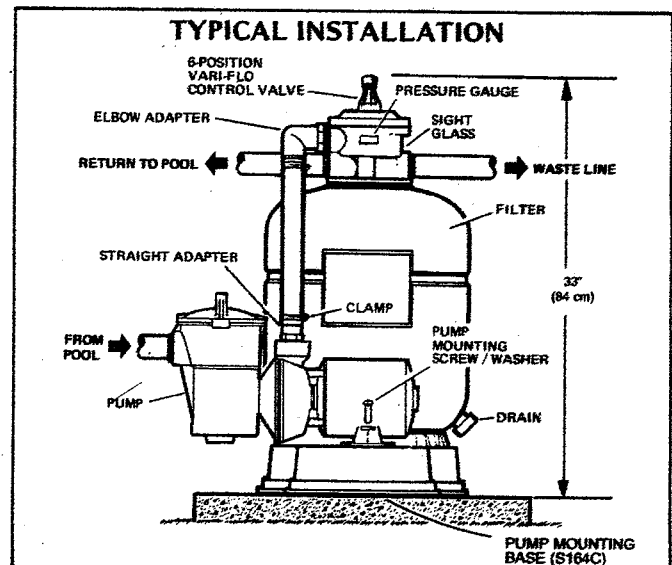
Your filter uses special filter sand to remove dirt particles from pool water. The sand is loaded into the filter tank and functions as the permanent dirt removing media. The pool water, which contains suspended dirt particles, is pumped through your piping system and is automatically directed by the patented filter control valve to the top of the filter tank. As the pool water is pumped through the filter sand, dirt particles are trapped by the sand bed, and filtered out. The cleaned pool water is returned from the bottom of the filter tank, through the control valve and back to the pool through the piping system. This entire sequence is continuous and automatic and provides for total recirculation of pool water through your filter and piping system.

After a period of time, the accumulated dirt in the filter causes a resistance to flow, and the flow diminishes. This means it is time to clean (backwash) your filter. With the control valve in the backwash position, the water flow is automatically reversed through the filter so that it is directed to the bottom of the tank, up through the sand, flushing the previously trapped dirt and debris out the waste line. Once the filter is backwashed (cleaned) of dirt, the control valve is manually resequenced to Rinse, and then Filter, to resume normal filtering.

INSTALLATION

Only simple tools (screwdriver and wrenches), plus pipe sealant for plastic adapters, are required to install and/or service filter.

1. The filter should be placed on a level concrete slab, very firm ground, or equivalent as recommended by your pool dealer. Position the filter so that the piping connections, control valve and winter drain are convenient and accessible for operation, servicing and winterizing.
2. Your filter is supplied complete with an optional pump mounting base which is pre-drilled for use with Hayward Power-Flo LX series pumps. The pump to filter connecting hoses supplied will accommodate Power-Flo LX pumps used with the mounting base, and Max-Flo or Super Pump installed at surface level. To connect pump to filter:
 - a. Screw straight adapter, using Teflon pipe sealant tape or Permatex No. 2, securely into pump discharge. (Do not overtighten.)
 - b. Screw elbow adapter, using Teflon pipe sealant tape or Permatex No. 2, securely into opening in control valve marked PUMP. (Do not overtighten.) Elbow should point just over RETURN opening.



SPECIFICATIONS

MODEL NUMBER	EFFECTIVE FILTRATION AREA		DESIGN FLOW RATE		MAXIMUM WORKING PRESSURE		REQUIRED CLEARANCE				MEDIA REQUIRED		
							SIDE		ABOVE		TYPE	AMOUNT	
	FT ²	M ²	GPM	LPM	PSI	BAR	INCH	MM	INCH	MM	FILTER SAND*	LBS	KGS
S166T	1.4	0.13	35	133	50	3.45	18	457	18	457	0.45-0.55	100	45

*Also known as No. 20 or No. 1/2 Silica Sand.

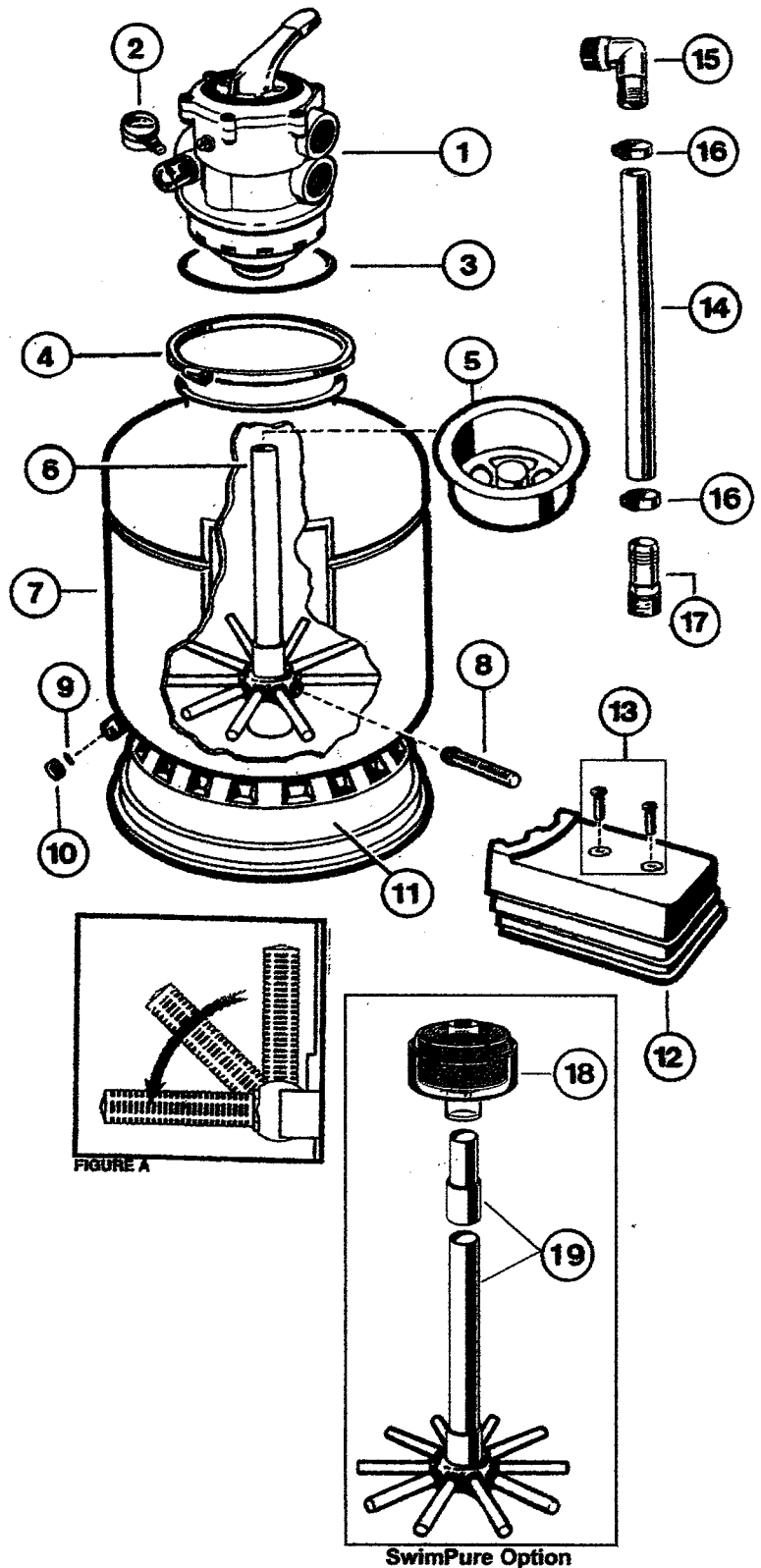
NOTE: ANSI/NSPI-4 Article V, standard for above-ground and on-ground pools, advises that components such as the filtration system, pumps and heater be positioned so as to prevent their being used as a means of access to the pool by young children.

PARTS Model S166T S166T1575XS S166T1575XSN2

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	SP071113	Vari-Flo Control Valve Assembly	1
2	ECX27081	Pressure Gauge	1
3	GMX600F	Valve/Tank O-Ring	1
4	GMX600NS	Flange Clamp (Valve-Tank)	1
5	SX202S	Sand Shield	1
6	SX164DA	Lateral Assembly with Center Pipe	1
7	SX164AA1	Filter Tank with Skirt, Complete Lateral Assembly	1
8	SX200Q	Lateral	10
9	SX180G	Gasket	1
10	SX180H	Drain Cap	1
11	SX164B	Filter Support Stand (Skirt)	1
12	SX164C	Pump Base	1
13	ECX1108A	5/16" x 3/4" Mounting Screw Kit	2
14*	SX160Z5	1-1/2" Hose	1
15*	SPX1105Z4	1-1/2" Elbow Adapter	1
16*	ECX18028	Hose Clamp	2
17*	SPX1091Z2	1-1/2" Straight Hose Adapter	1
18**	N2SABG	Nature ² Canister	1
19**	SX164DAN2KIT	Folding Umbrella Lateral Assembly w/Center Pipe for Nature ² Canister	1

*Furnished with PAK or System only.

**Included only on filters supplied with SwimPure Canister



STOP here and load media per instructions (No. 3).

- c. Place hose clamps on clear hose and fit hose over straight and elbow adapters and secure with clamps. If it is difficult to fit hose over the adapters, place hose in hot water for several minutes.

NOTE: To prevent breakage and damage to pump and control valve, use only pipe sealants specifically formulated for plastics. Do not overtighten fittings or adapters.

3. Loading sand media. Filter sand media is loaded through the top opening of the filter.

- a. Loosen flange clamp and remove Filter Control Valve (if previously installed).
- b. Cap internal pipe with sand shield to prevent sand from entering it. Be sure pipe is securely in place in bottom underdrain hub.
- c. We recommend filling tank approximately 1/2 way with water to provide a cushioning effect when the filter sand is poured in. This helps protect the underdrain laterals from excessive shock. (Be sure the winter drain cap is securely in place on drain pipe.) **Note: Check to confirm all laterals are in the down position before loading with sand. (See Figure A on Page 2.)**
- d. Carefully pour in correct amount and grade of filter sand, as specified. (Be sure center pipe remains centered in opening). Sand surface should be leveled and should come to about the middle of the filter tank. Remove sand shield from center pipe.

NOTE: If your sand filter is equipped with the SwimPure system or you are installing the SwimPure Retrofit Kit, then please follow the steps in the Instruction Sheet included in the SwimPure carton.

4. Assemble Filter Control Valve to filter tank.

- a. Wipe filter flange clean.
 - b. To install clamp, loosely preassemble both halves of the clamp with one screw and one nut, turning the nut two or three times. Place clamp assembly on the filter neck.
 - c. Insert filter control valve (with valve/flange O-ring in place) into the tank neck, taking care that the center pipe slips into the hole in the bottom of the valve.
 - d. Install clamp around tank and valve flange and assemble second screw and nut. Tighten both sides of clamp alternately and evenly. Make sure you tighten just enough so that the valve may be rotated on the tank for final positioning.
 - e. Carefully screw the pressure gauge, with pipe tape, into 1/4" tapped hole in valve body. Do not overtighten.
 - f. Connect pump to control valve opening marked "PUMP" according to the instructions.
 - g. Tighten both sides of clamp alternately and evenly. Use a correctly sized large screw driver and tighten firmly to obtain a good seal.
 - h. Please be sure to place vinyl protector caps over ends of screws.
5. Make return to pool pipe connection to control valve opening marked RETURN and complete other necessary plumbing connections, suction lines to pump, waste, etc.
 6. Make electrical connections to pump per pump instructions. Be sure all circuits are protected by a

properly-sized ground fault circuit interrupter (GFCI).

7. To prevent water leakage, be sure winter drain cap is securely in place and all pipe connections are tight.

NOTE: If you have installed a SwimPure system, then please refer to Step 2 in the SwimPure Instruction Sheet ("Balance the Pool Water").

INITIAL START-UP OF FILTER

1. Be sure correct amount of filter sand media is in tank and that all connections have been made and are secure.
2. Depress Vari-Flo control valve handle and rotate to BACKWASH position. (To prevent damage to control valve seal, always depress handle before turning.)
3. Prime and start pump according to pump instructions allowing the filter tank to fill with water. **CAUTION: All suction and discharge valves must be open when starting the pump. Failure to do so could cause severe personal injury and/or property damage.** Once water flow is steady out the waste line, run the pump for at least 1 minute. The initial backwashing of the filter is recommended to remove any impurities or fine sand particles in the sand media.
4. Turn pump off, set valve to RINSE position. Start pump and operate until water in sight glass is clear—about 1/2 to 1 minute. Turn pump off, set valve to FILTER position and restart pump. Your filter is now operating in the normal filter mode, filtering particles from the pool water.
5. Adjust pool suction and return valves to achieve desired flow. Check system and filter for water leaks and tighten connections, bolts, nuts, as required.
6. Note the initial pressure gauge reading when the filter is clean. (It will vary from pool to pool depending upon the pump and general piping system). As the filter removes dirt and impurities from the pool water, the accumulation in the filter will cause the pressure to rise and flow to diminish. When the pressure gauge reading is 6-8 lbs. (2.7-3.6 kgs.) higher than the initial "clean" pressure you noted, it is time to backwash (clean) the filter (see BACKWASH under Filter Control Valve Functions).

NOTE: During initial clean-up of the pool water, it may be necessary to backwash frequently due to the unusually heavy initial dirt load in the water.

CAUTION: To prevent unnecessary strain on piping system and valving, always shut off pump before switching Filter Control Valve positions.

To prevent damage to the pump and filter and for proper operation of the system, clean pump strainer and skimmer baskets regularly.

FILTER CONTROL VALVE FUNCTIONS

FILTER—Set valve to FILTER for normal filtering. Also use for regular vacuuming.

BACKWASH—For cleaning filter. When filter pressure gauge rises 6-8 lbs. (2.7-3.6 kgs.) above start-up (clean pressure):

Stop the pump, set valve to BACKWASH. Start pump and backwash, approximately 2 minutes or less, depending on dirt accumulation, until water in sight glass is clear. Proceed to RINSE.

RINSE—After backwashing, with pump off, set valve to RINSE. Start pump and operate for about 1/2 to 1 minute. This ensures that all dirty water from backwashing is rinsed out of the filter to waste, preventing possible return to the pool. Stop pump, set valve to FILTER and start pump for normal filtering.

WATER—To bypass filter for draining or lowering water level and for vacuuming heavy debris directly to waste.

RECIRCULATE—Water is recirculated through the pool system, bypassing the filter.

CLOSED—Shuts off flow from pump to filter.

VACUUMING—Vacuuming can be performed directly into the filter. When vacuuming heavy debris loads, set valve to WASTE position to bypass the filter and vacuum directly out to waste.

WINTERIZING

1. Completely drain tank by unscrewing drain cap at base of filter tank. Leave cap off during winter.
2. Depress Vari-Flo control valve handle and rotate so as to set pointer on valve top between any two positions. This will allow water to drain from the valve. Leave valve in this "inactive" position.
3. Drain and winterize pump according to pump instructions.

SERVICE & REPAIRS

Consult your local authorized Hayward dealer or service center. No returns may be made directly to the factory without the expressed written authorization of Hayward Pool Products, Inc.

PLEASE REALIZE . . .

Pure, clear swimming pool water is a combination of two factors—adequate filtration and proper water chemistry balance. One without the other will not give the clean water you desire.

Your filter system is designed for continuous operation. However, this is not necessary for most swimming pools. You can determine your filter operation schedule based on your pool size and usage. Be sure to operate your filtration system long

enough each day to obtain at least one complete turnover of your pool water.

To properly sanitize your pool, maintain a free chlorine level of 1 to 3 ppm and a pH range of 7.2 to 7.6. Insufficient chlorine or an out of balance pH level will permit algae and bacteria to grow in your pool and make it difficult for your filter to properly clean the pool water.

PROBLEM SOLVING LIST

REMEDY	LOW WATER FLOW	SHORT FILTER CYCLES	POOL WATER WON'T CLEAR UP
	1. Check skimmer and pump strainer baskets for debris. 2. Check for restrictions in intake and discharge lines. 3. Check for air leak in intake line (indicated by bubbles returning to pool). 4. Backwash filter.	1. Check for algae in pool and superchlorinate as required. 2. Be sure chlorine and pH levels are in proper range (adjust as required). 3. Check surface of filter sand for crusting or caking (remove 1" of sand if necessary).	1. Check chlorine, pH and total alkalinity levels and adjust as required. 2. Be sure flow rate through filter is sufficient. 3. Operate filter for longer periods. 4. Be sure Vari-Flo valve is set on "Filter" position.

POOL CHEMISTRY GUIDELINES

SUGGESTED POOL CHEMISTRY LEVELS		ACTION REQUIRED TO CORRECT POOL CHEMISTRY	
		TO RAISE	TO LOWER
pH	7.2 to 7.6	Add Soda Ash	Add Muriatic Acid or Sodium Bisulphate
TOTAL ALKALINITY	100 to 130 ppm	Add Sodium Bicarbonate	Add Muriatic Acid
CHLORINE (UNSTABILIZED)	0.3 to 1.0 ppm	Add Chlorine Chemical	No action - chlorine will naturally dissipate
CHLORINE (STABILIZED)	1.0 to 3.0 ppm	Add Chlorine Chemical	No action - chlorine will naturally dissipate
CHLORINE STABILIZER (Cyanuric Acid)	40 to 70 ppm	Add Stabilizer	Dilution - partially drain & refill pool with water that has not been treated with Cyanuric Acid.



HAYWARD POOL PRODUCTS, INC.

Hayward Pool Products, Inc.
900 Fairmount Avenue
Elizabeth, NJ 07207

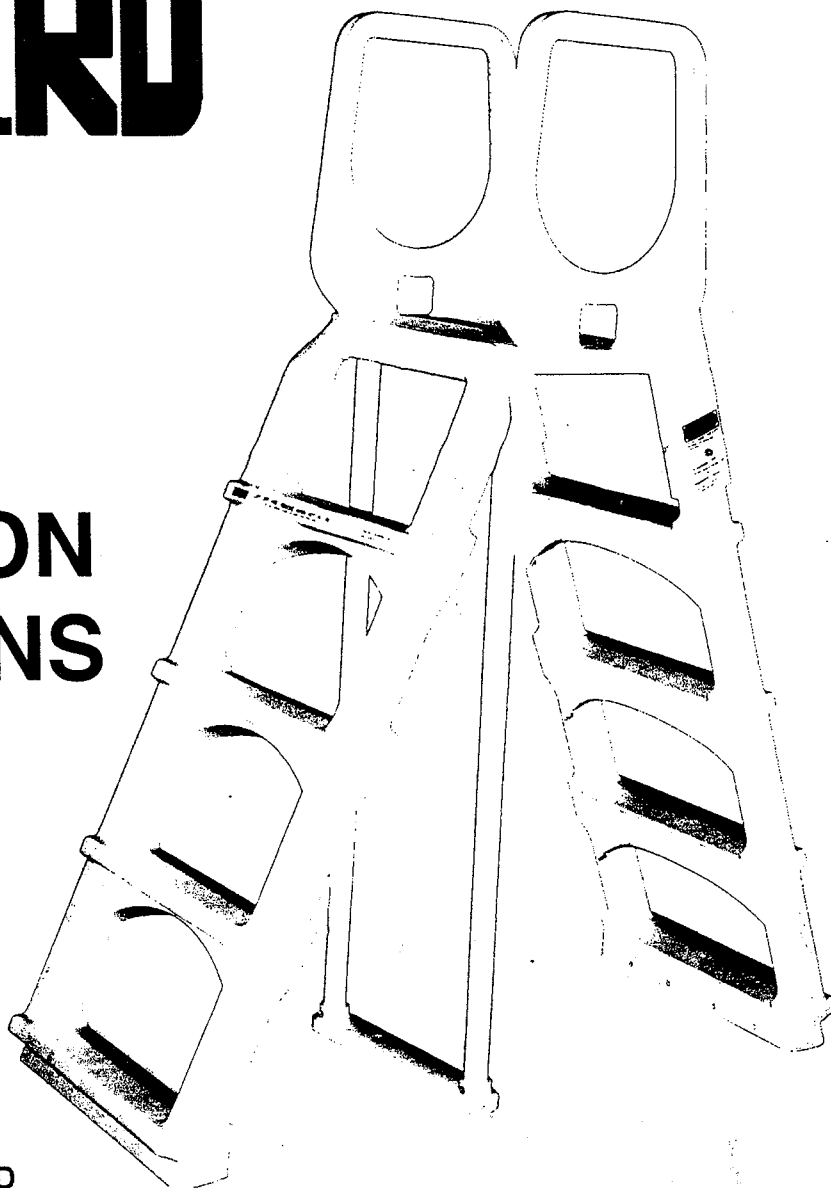
Hayward Pool Products, Inc.
2875 Pomona Boulevard
Pomona, CA 91768

Hayward Pool Products Canada
2880 Plymouth Drive
Oakville, Ontario L6H 5R4

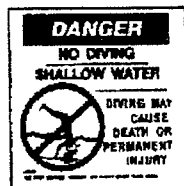
Hayward Pool Products Europe
ZA de l'Observatoire
2, Avenue des Chaumes
78182 St. Quentin en Yvelines Cedex
France



A-FRAME LADDER INSTALLATION INSTRUCTIONS



ADULT SUPERVISION REQUIRED



DANGER

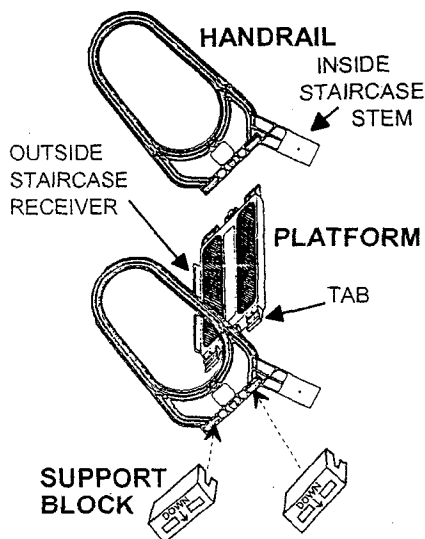
DO NOT DIVE OR JUMP into your pool. Your pool is approximately 4' deep. It is not designed for diving or jumping. If you dive or jump into your pool you run the risk of permanent injury or death. Alert all visitors and family of this and point out all warning labels supplied.



GENERAL

Before you start, check to see that you have the correct number of parts. Use the Packing List on the last page. Carefully read through and understand all the assembly steps before starting assembly.

NOTE: Lyfgard as a manufacturer reserves the right to revise, change, or modify construction of it's products.



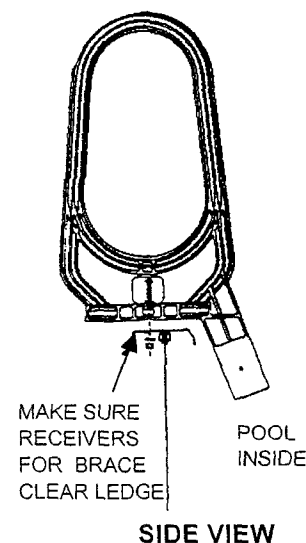
Lay one Handrail down on a flat surface. Press the two tabs of the Platform into the slots in the Handrail making sure that the top surface of the Platform is facing in the same direction as the top of the Handrail. Also make sure that the Outside Staircase Receiver (long channel running along one edge of the Platform) is on the side opposite from the Inside Staircase Stems of the Handrail.

Install a Support Block to "lock in" each Platform tab by pressing the Support Blocks through the slots of the Handrail and onto the tabs. Note carefully to position the down arrow of the Support Block correctly. Tap the Support Blocks firmly into place using a rubber mallet.

Assemble the other Handrail to the opposite side of the platform making sure that you mount it facing identically to the Handrail already attached.

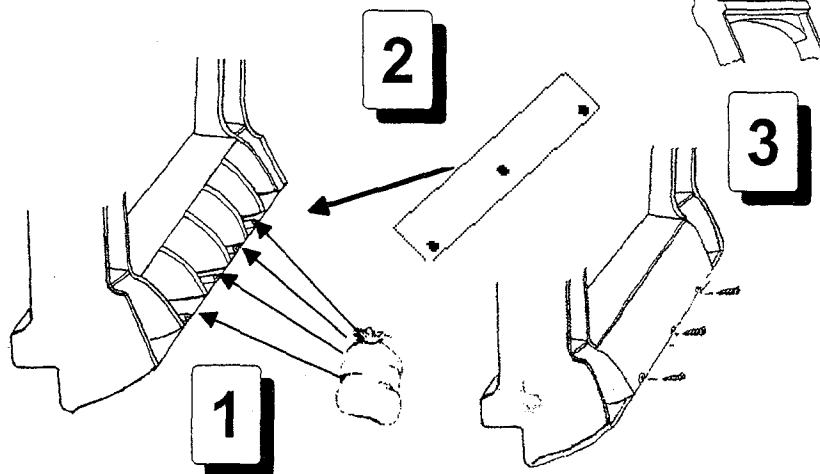
Place the Platform / Handrail assembly assembled above onto the ledge of the pool. Make sure that the two round receivers underneath the Platform that the legs of the Support Brace will eventually be fitted into clear the ledge on the outside of the pool. Find the two holes in the top of the Platform and mark these holes on the ledge with a pencil. Look under the ledge to make sure that drilling holes at these two places will not hit the wall or any other structural part of the pool. Using a tape measure, verify that the pencil marks are 19" apart from center to center. **CHECK AGAIN** to make sure that drilling holes at these two places will not hit the wall or any other structural part of the pool.

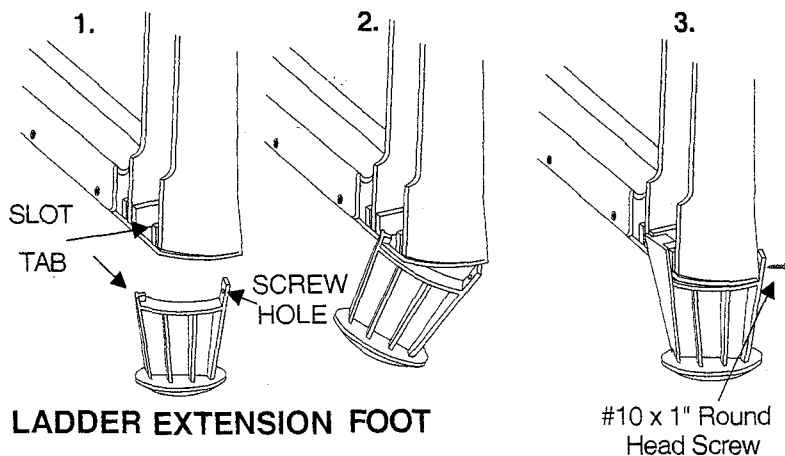
Using a 7/16" drill bit, drill carefully through the pool ledge at these two locations, being careful because **any metal chips or debris falling into the pool could cause damage to the liner.**



Assemble the Inside Pool Ladder Staircase into the Inside Staircase Stems of the two Handrails. Use a rubber mallet to tap the Staircase all the way up into the Handrail. Secure the assembly with the 1/4" x 20 x 2 1/4" Stainless Steel Bolts, passing the bolts first through the inside section of the Handrail, the Staircase, and through the outside section of the Handrail. Fasten with the Cap Nuts Provided.

Weight must be added to the bottom of the pool staircase. A coarse gravel or sand may be used. If you use sand, you must seal the sand in a plastic bag to prevent the sand from going into your pool. Simply insert the bags of sand or gravel into the four compartments (1). Then place the compartment door over the compartments, lining up the screw holes (2). Secure the door to the ladder body using the three #10 x 5/8" screws supplied (3).





For Pools 52" or 54" deep and you are assembling the Universal Ladder, attach the extension feet as follows; *Note; these extension feet are not required for a 48" or 50" deep pool.*

Locate and position the Ladder Bottom and Ladder Extension Feet as shown. (Two Extension Feet for the bottom of each staircase.)

Insert Tab into Slot at rear bottom of ladder.

Rotate Extension Foot up into position. Insert #10 x 1" Round Head screw in hole and fasten securely to ladder.

Repeat these steps for each corner of ladder.

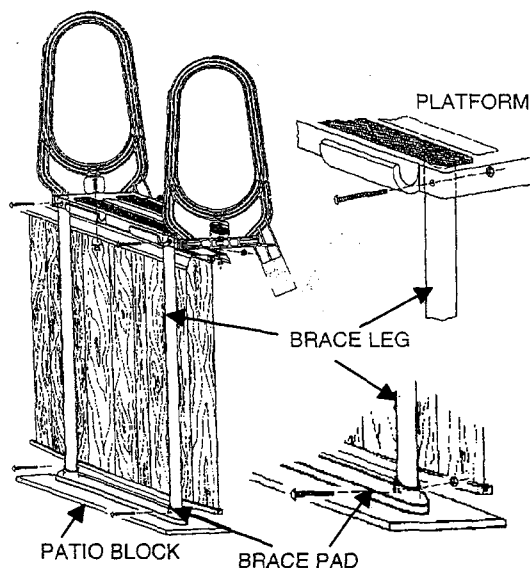
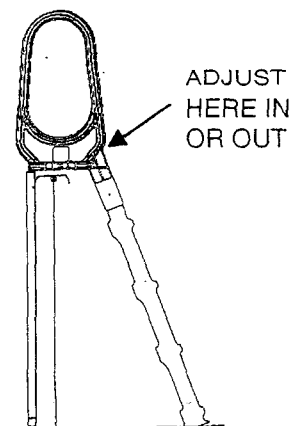
Holding the inside pool ladder staircase assembly under the water, slightly twist the assembly to the side to allow any and all trapped air to escape.

Place the ladder assembly back onto the top ledge of the pool. Check the levelness of the ladder when the inside staircase is touching the bottom of the pool. It may be necessary to adjust the levelness by either sliding the staircase section out of the handrail slightly, or by removing the staircase and cutting some of the straight section to allow you to put the staircase assembly further into the handrail. In either case, drill the two holes in the staircase section and secure with the two bolts as described earlier. Make sure that the bolt goes through both the handrail and the staircase section.

Use the following chart to determine how long your base legs should be. Use a hack saw and then cut them to the required length if needed.

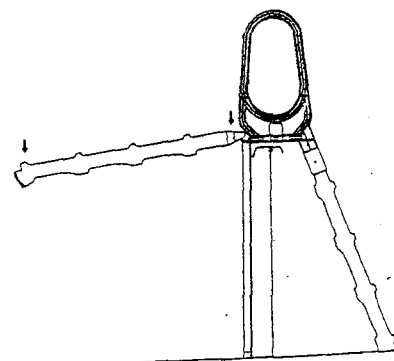
POOL DEPTH	48"	50"	52"	54" *
BRACE LENGTH	48 3/4"	50 3/4"	52 3/4"	52 3/4"

* You must use additional patio blocks under the brace pad for proper support.



Insert the two (2) Brace Legs into the Brace Pad and Platform. Using the holes in the Brace Pad and Platform as a template drill a 1/8" pilot hole through the Brace Legs. Secure the Brace Legs using four (4) #10 x 5/8" Pan head Screws provided. *Note: Support the bottom of the Brace Pad using patio blocks (not supplied).*

Fasten the entire ladder assembly to the pool ledge by placing two 3/8 x 16 x 2 1/4" stainless steel bolts through the holes in the platform and through the holes in the ledge drilled previously. Fasten with stainless steel washers and nuts provided.



Close the compartment on the bottom of the outside staircase as above, but without putting weight into it. Install the outside staircase section to the ladder by holding the staircase horizontally to the platform. Align the slot in the staircase with the hook in the platform and lower the staircase down.

Your ladder is now ready for use.

CAUTIONS

- ◆ Locate the ladder on a solid base.
- ◆ Only one person on the ladder at a time.
- ◆ Always face the ladder when using.
- ◆ The ladder must be installed as per manufacturers instructions.
- ◆ DANGER! NO DIVING - NO JUMPING - Permanent injury or death may result.
- ◆ Remove outside staircase section when not in use to prohibit unauthorized entry into the pool.
- ◆ Warning labels have been supplied already attached to your ladder. Should you need additional labels for any reason, either contact your local pool dealer or the manufacturer, and order the label with the part number.
- ◆ DANGER! Do not swim behind, through, or around the ladder! This may cause entrapment resulting in permanent injury or death.

PACKING LIST					
ITEM DESCRIPTION	PART NUMBER		LG AF SF21 QUANTITY	LG AF5 SF 21 (Universal Model) QUANTITY	LG AF SF 30 QUANTITY
	WHITE	GRAY			
IN POOL STAIRCASE	361136	361236	1	1	1
OUTSIDE STAIRCASE	361137	361237	1	1	1
PLATFORM	361138	361238	1	1	1
30" HANDRAIL	361144	361244	-	-	2
21" HANDRAIL	361142	361242	2	2	-
SUPPORT BLOCK	361139	361239	4	4	4
BRACE LEGS	700133		2	-	2
	700137		-	2	-
BRACE PAD	361140	361240	1	1	1
COMPARTMENT DOOR	361141	361241	2	2	2
EXTENSION FEET	361143	361243	-	4	-
#10 X 1" ROUND HEAD SCREW	460169		-	4	-
1/4 - 20 x2 1/4" S.S. BOLT	460178		2	2	2
1/4 - 20 S.S. CAP NUT	460179		2	2	2
3/8 - 16x2 1/4" S.S. BOLT	460180		2	2	2
3/8 - 16 S.S. HEX NUTS	460182		2	2	2
3/8 S.S. WASHER	460181		4	4	4
#10 x 5/8" PAN HEAD SCREW	460191		10	10	10
"DO NOT SWIM THROUGH" LABEL (APPLIED TO HANDRAIL)	490158		2	2	2
"REMOVE WHEN NOT IN USE" LABEL (APPLIED TO OUTSIDE STAIRCASE)	490159		1	1	1
LARGE "DO NOT DIVE" LABEL (APPLIED TO PLATFORM)	490156		1	1	1
"DO NOT DIVE" LABELS (APPLIED TO HANDRAILS)	490157		2	2	2
INSTRUCTIONS	420490		1	1	1
5 YEAR LIMITED WARRANTY	420516		1	1	1

When ordering replacement parts, Please specify Model #, and Color

313 REGINA AVENUE RAHWAY, NEW JERSEY 07065-4891

Phone: (732) 574-1500 Fax: (732)574-1551 Email: info@swimnplay.com

www.swimnplay.com





ZODIAC

Wall Serial #
15173

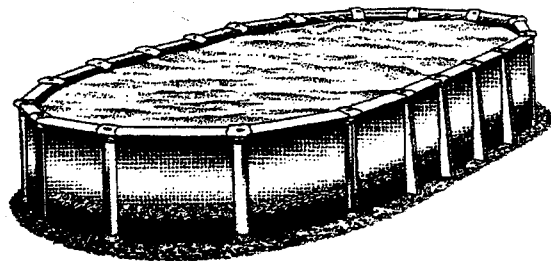
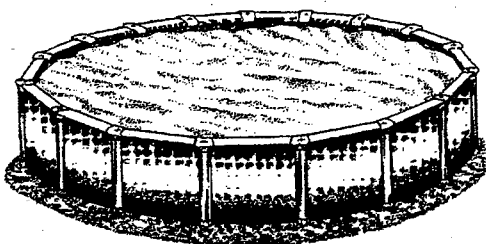
Owner's Manual

CAUTION:
Read all instructions
carefully before
starting the
installation. Check for
missing parts by
reviewing the Repair
Parts List in the back
of this book.

PORTICO

ROUND & OVAL POOL

Congratulations upon becoming a proud new pool owner! We take pride in bringing you a quality product which will afford years of pleasure. Your pool is an investment which deserves your care and attention. This pool is designed for residential use only. Do not use for commercial applications.



INTRODUCTION AND SWIMMING POOL SAFETY



Swimming pools are fun and we want you to enjoy your new pool for years to come. Please spend some time reading your Owner's Manual and Safety Packet (packaged with your pool) to understand the operation and safety considerations of this product.

Serious permanent injury or death can occur in and around swimming pools. To prevent these tragic accidents, please read, understand, and strictly enforce all safety rules.

- You **MUST POST AND MAINTAIN YOUR SAFETY SIGN AND DECALS** as instructed. If your sign or decals are missing or damaged, please contact us for free replacements.

265 Industrial Blvd., Midway GA 31320
(800) 338-1013

E-Mail: msservice@zap.zodiac.com

Website: <http://www.zodiacamericanpools.com>



97200 OCTOBER 14, 2003

Portico Round
and Oval Pool

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SAFETY INSTRUCTIONS

As the owner, you have the most important role in reminding users of pool safety. You must set a safety example for your family and guests. Use common sense around your pool and demand that others use common sense.

WARNING

FAILURE TO HEED THESE WARNINGS CAN RESULT IN PERMANENT INJURY, PARALYSIS FROM A BROKEN NECK, ELECTROCUTION OR DROWNING.

WATCH CHILDREN PREVENT DROWNINGS

- Always watch and supervise children playing in or around pool to prevent drowning or injury. Never allow children or adults to climb on the outside structure of the above ground pool. Do not place filters, pumps, tables, chairs or other objects near the pool. Children may use these to enter the pool and drown. Position your filtration system a safe distance from the pool to prevent young children from using the filter as a means of access to the pool.

NO DIVING

- Never dive, flip or jump into this above ground swimming pool. It is too shallow for safe diving. Ladders, decks, handrails and top ledges (or anything else) are not to be used for diving. You can break your neck!
- Most serious permanent injuries, paralysis or deaths occur when dives are made from pool decks. Please read your four page "Mandatory Reading" Booklet supplied with this pool before you purchase or fabricate a deck for your pool.

NO ALCOHOLIC BEVERAGES

- Never use your swimming pool if you have been drinking alcoholic beverages or taking medications or drugs. Shock, unconsciousness, permanent injury or drowning could result.

FENCE SAFETY

- As an additional deterrent against child drownings, you should install around the pool an additional four (4) foot tall (above-ground level) fence, wall or enclosure that is made of durable material. All gates and entries must be self-closing and self-latching and equipped with hardware for permanent locking. All latches must be installed four (4) feet above the ground surface and made inaccessible to toddlers from outside. If a building is part of the barrier, all doors, windows and patio gates that could provide access to the pool must be self-closing and self-latching with permanent locks so that your pool can not be entered by toddlers. Check all local and state building codes to insure your installation complies with all requirements. Fences and barriers are not a substitute for adult supervision.

INSTALL POOL ABOVE GROUND

- Never install your above-ground swimming pool below the ground surface. This pool must be installed on the ground surface only. There should be a flat, three (3) foot area (minimum) around the base of your pool wall.

POOL COVER SAFETY

- If you use a winter cover and did not purchase it from us, the cover must meet CPSC Standard ES13. The cover must have a tamperproof locking retainer cable that positions the cover around the pool wall and keeps it securely in place. Never allow anyone, especially small children on the cover. Asphyxiation or drowning could result.
- We do not make a barrier cover. If you purchase a cover to act as part of a barrier system, it must meet ASTM Standard F 1346. When purchasing any pool cover, please consult a swimming pool professional.

LADDER SAFETY

- Ladders must be located over an upright (for metal frame pools), on a solid base and kept level.

ELECTRICAL HAZARD

- Never touch or attempt to service electrical equipment, including your filter, when your body and/or the ground is wet. Electrocution or permanent injury due to high voltage (120V AC) could result.
- To avoid electrocution hazard, never use an electrical power source for any electrical equipment or your filter unless it is protected by a Class A (5 Milliampere Trip) Ground Fault Circuit Interrupter (GFCI) in accordance with the National Electrical Code Section 680.

ELECTRICAL BONDING

- The pool should be bonded in accordance with Section 680-26 of the National Electrical Code. For further assistance contact your dealer or a local licensed electrician.

KEEP WATER CLEAN

- Always keep your pool water clean so that the bottom is visible at all times. Individuals must be able to see that the water is too shallow for diving, and must be able to see small children in the pool!

NO SWIMMING AFTER DARK

- Never use your swimming pool after dark or when you can not see the shallow depth of the water or the safety decals or signs. If you ignore this, you have the sole responsibility for providing adequate lighting to the pool, safety signs, walkways and decking. We recommend that you consult with a licensed electrical contractor or your power company to provide adequate lighting. You must also comply with all national and local electric codes.
- Never cut holes in your pool wall to install lights or anything else unless the hole locations are factory installed. Failure to obey this warning could cause structural damage to the pool wall, violently releasing large bodies of water. Wall structural failures may cause serious injury, electrocution or property damage.



**FAILURE TO HEED THESE WARNINGS CAN RESULT IN
SERIOUS INJURY OR PROPERTY DAMAGE.**

NO HORSEPLAY

- Never allow horseplay in or around the pool.

POOL CHEMICALS

- Do not place chlorine, chlorine tablets or sticks directly into the skimmer, or winterize your pool with liquid chlorine. Damage to the skimmer, pool liner and filter will result. Failure to obey this instruction will void all component warranties.
- Always follow Chemical Manufacturer's Instructions when storing, handling and dispensing pool chemicals.
- Your pool is exposed to more corrosive conditions than your car. Wax it often. At first sign remove rust and touch up immediately.

FILTER SAFETY

- Be sure that the motor/pump assembly supplied with your filter is an Underwriters Listed product for your own protection against electrical hazards. (See Filter Instructions for more information.)

CHECK FOR POOL DAMAGE AND WEAR

- Periodically check your pool and ladder components for damage and wear. Be sure all screws are in place. Replace all damaged or worn components and tighten all screws before you use the pool, deck or ladders.

DO NOT MODIFY POOL

- Never modify the pool or accessories, or remove or drill holes in the pool, deck or ladder components unless instructed.

SHARP EDGES

- There is a possibility that a sharp edge may have been formed on a metal part during the manufacturing process. Check all pool, filter, ladder or deck parts for sharpness. In the event that you find a sharp edge on a metal part, please take steps to remove it with sandpaper or a file or return it for replacement.

REPLACEMENT PARTS

- Always use Original Equipment Manufactured (OEM) parts for you replacement requirements.

KEEP OFF TOP LEDGES

- Do not stand, sit, climb or step on top ledge of pool wall. These prohibited activities may cause injury or break the pool wall.

REMEMBER: HAVE FUN BUT BE SAFE

FOLLOW SAFETY INSTRUCTIONS

- Read and follow all Safety Instructions (including those in the four page "Mandatory Reading" booklet) packaged with the pool, ladder, filter or any other accessory. Additional pool safety publications, such as "Children Aren't Waterproof" and "Pool And Spa Emergency Procedures For Infants", can be obtained by writing the National Spa and Pool Institute, 2111 Eisenhower Avenue, Alexandria, Virginia 22314.

POST WARNING SIGNS

- Make sure your "Warning" decals are in plain sight around your above-ground pool. Insist that all users, especially children and young adults understand and obey safety messages.

CALL US FOR REPLACEMENT SAFETY MATERIALS

- If your "Warning" safety decals, signs or literature are missing, damaged or not legible, please contact us for free replacements at: Zodiac American Pools, Inc., 265 Industrial Blvd., Midway, GA 31320. • E-Mail: msservice@zap.zodiac.com.

POOL EMERGENCIES

- Always have a strong light pole not less than 16 feet (4.88m) long with a blunt or hook end available at pool side in case of emergencies.
- Always have near your telephone the number of the nearest Trauma or Rescue Unit.

These Safety Instructions require pool users to exercise common sense. Always use common sense in your use of this product in order to avoid risks associated with electricity and water which can result in paralysis from diving, drowning or electrocution.

CHILD DROWNING ALERT

U.S. Consumer Product Safety Commission reports that drowning and near drowning of children, young adults and adults account for a substantial percentage of the risk of using this pool product. Children under the age of 5 years old are the highest risk. Please watch all children!

SAVE THESE INSTRUCTIONS!

IMPORTANT - BEFORE YOU START

1. READ INSTRUCTIONS

Take your time and read these instructions thoroughly before you begin the pool installation. Follow all instructions. Do not take short cuts. Refer to the back page of this Owner's Manual and record the appropriate information.

2. CHECK LOCAL CODES GET BUILDING PERMITS IF NECESSARY

Check your local building and electrical codes concerning installation and location of above ground pools and/or barrier devices. You should have all required permits before you start the ground preparation.

3. GET EVERYTHING TOGETHER

Review the tools and materials that you will need to install the pool. Purchase what you will need.

4. SETTING UP THE POOL

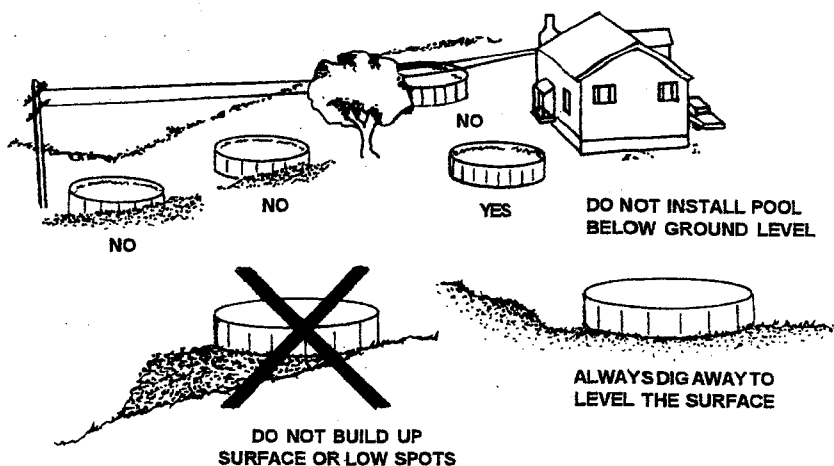
Do not attempt to install your pool on a windy day. The pool wall is extremely hard to handle in the wind and could possibly collapse causing permanent damage to your wall. Install your liner on a warm, sunny day (65° F) so the liner can stretch to fit the pool correctly.

DETERMINE POOL LOCATION

Look over the various pool location situations shown at right.

1. TERRAIN

Look over your property for the most ideal pool location. A large area is best. If you have no flat area large enough for the pool then try to pick a spot where you would have the least amount of digging to do. Do not install your pool with any of the wall area underground - or located in a major water drainage depression or sewer drain field. Ground area around the pool foundation should be level for three feet out from base of pool. **DO NOT BACKFILL AGAINST THE POOL WALL AND RIMS. THIS WILL CAUSE DAMAGE TO THE WALL AND RIMS AND VOID YOUR WARRANTY.** Remember there **MUST** be a flat, three (3) foot area (minimum) around the base of your pool wall to prevent child drownings.



2. CONVENIENT ELECTRICAL OUTLETS

Your filter and other accessories are operated by electricity. If there are no outside electrical outlets, you must have them installed by a qualified electrician in accordance with the National Electrical Code, Section 680.

3. OVERHEAD ELECTRICAL WIRES

The pool should never be placed directly under any overhead power lines for precautionary measures. In some communities this is against the law.

4. UNDERGROUND CABLES AND UTILITIES

Before you start digging into the ground to level the surface, it would be wise to check with your telephone, electric and gas utilities as to the location of any underground lines or pipes.

5. TREES

Trees and their occupants are not the best of friends with swimming pools. Falling leaves, branches and sap can be a constant problem in keeping the pool water clean (along with bird droppings and insects falling into the pool). These materials will necessitate cleaning your filtering unit more often. The further away from a tree, the better for your pool.

GROUND SURFACE

It is important that your pool sit on firm, solid soil. The area must be free of grass, stones, roots and sharp objects. Any stones or roots flush or just below the ground surface must be removed. The earth below the pool will compress under the weight of the water and will expose these items to the liner causing damage. Any

grass under the pool will rot and give off an unpleasant odor. Avoid installing your pool on ground that has been recently treated with oil base weed killers, chemicals or has been heavily fertilized. Avoid areas growing Nut Grass or Bermuda Grass (these grasses can grow up through pool liner).

DO NOT INSTALL YOUR POOL ON:

- concrete • asphalt • peat moss
- tar paper • sand • gravel • wood
- chemically treated soil • grass
- astroturf

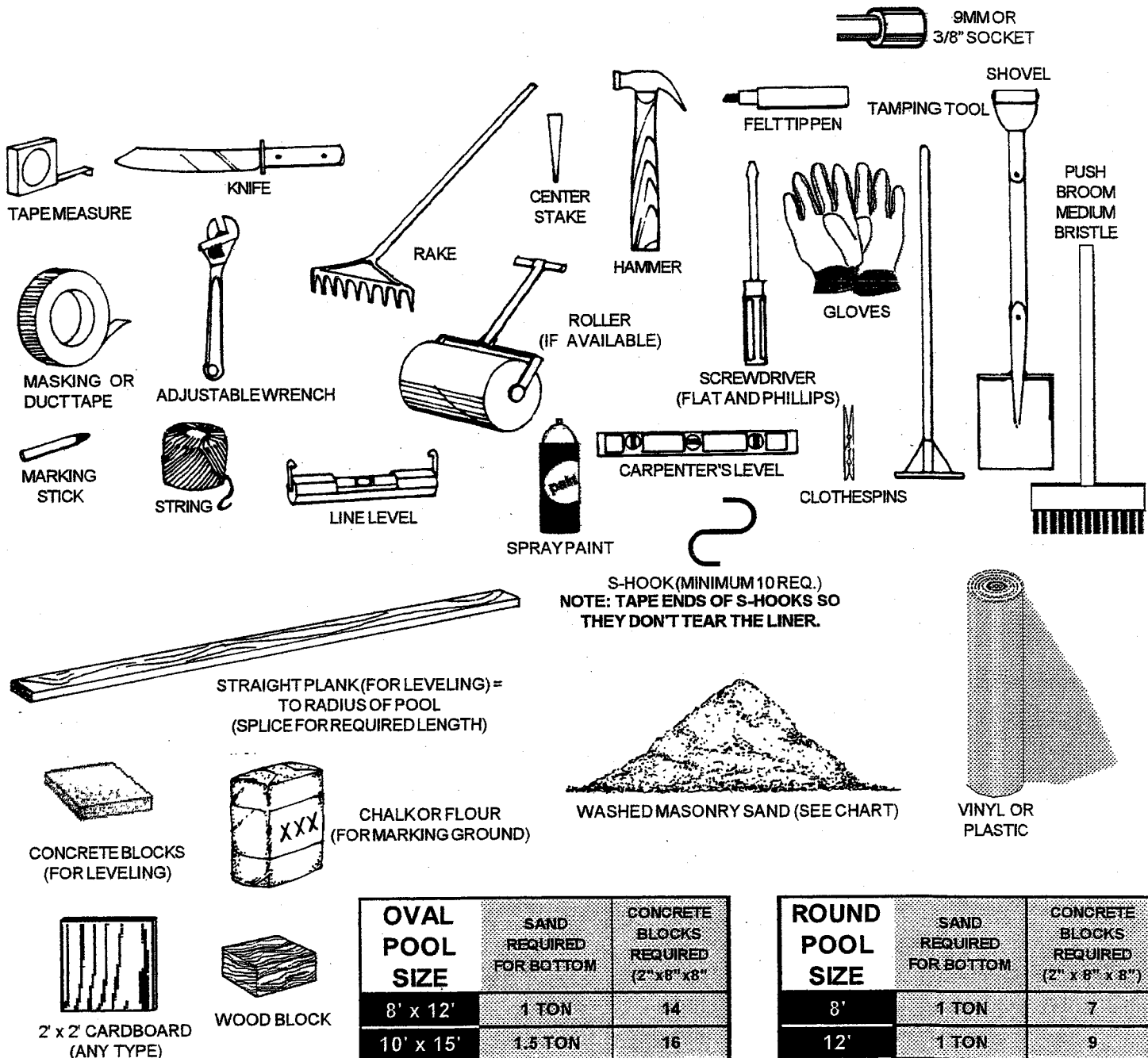
Installing your pool on these surfaces places undue stress on the sidewalls. This can lead to wall/liner failure and void your warranty.

IMPORTANCE OF LEVEL POOL FOUNDATION

Think of your above ground pool as a big dam. If the pool is out of level or if the wall is worn or damaged, the uneven pressure can cause the wall to break or tip and allow thousands of gallons of rushing water to cause extensive property damage and injury to anyone in its path.

The amount of effort and care you put into the preparation of your pool foundation and maintenance of the pool wall can make a big difference in the life of your pool and liner. A solid, well-compacted, level earth foundation is the best base for your pool. Take the time to do a good and thorough job as explained in these instructions.

TOOLS AND MATERIALS YOU'LL NEED



NOTE: Do not install your pool frame on a sand base! Use sand **ONLY** on the inside of the pool to form the cove and to provide a smooth base for the liner.

OVAL POOL SIZE	SAND REQUIRED FOR BOTTOM	CONCRETE BLOCKS REQUIRED (2' x 8" x 8")
8' x 12'	1 TON	14
10' x 15'	1.5 TON	16
12' x 18'	2 TON	16
12' x 24'	3 TON	20
15' x 24'	2.5 TON	22
15' x 30'	4 TON	34
18' x 33'	6 TON	34

ROUND POOL SIZE	SAND REQUIRED FOR BOTTOM	CONCRETE BLOCKS REQUIRED (2' x 8" x 8")
8'	1 TON	7
12'	1 TON	9
15'	1-1/2 TON	11
18'	2 TON	13
21'	2 1/2 TON	15
24'	3 TON	17
27'	3-1/2 TON	19

ROUND POOLS

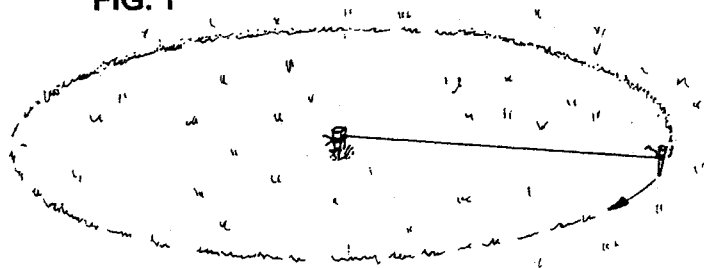
Step 1. MARK OFF POOL AREA AND REMOVE SOD

Using the chart below and FIG. 1, mark off pool area as shown.

- Drive a stake into ground at approximate center of pool area.
- Tie a loop at one end of a string and drop it around the stake.
- Measure correct distance on the string using chart below.
- Using a marking stick, mark the ground with spray paint or flour.
- Remove all sod within this circular area leaving the stake as the center mark.

POOL SIZE	RADIUS FOR MARKING GROUND
8'	5'
12'	7'
15'	8'6"
18'	10'
21'	11'6"
24'	13'
27'	14'6"

FIG. 1



Step 2. LEVEL THE POOL AREA

Unless you have access to a surveyor's level, the best, most accurate way to level the ground is with a straight plank (2 x 4 will do but it should be straight) and a carpenter's level (FIG. 2). Find the lowest spot within the pool area and level the ground to the lowest point. Dig away the high areas - do not fill in low areas (FIG. 3).

NOTE: Figures 1 and 2 show areas to be leveled for placement of the pool frame. Remember - you must also provide a three foot level area outward from the pool frame so the pool wall will serve as a barrier to toddlers.

FIG. 2

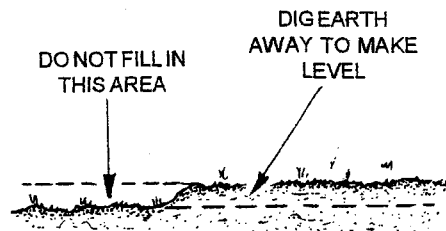
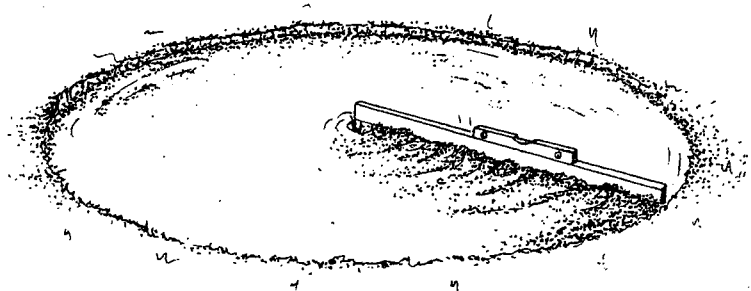


FIG. 3

BE SURE

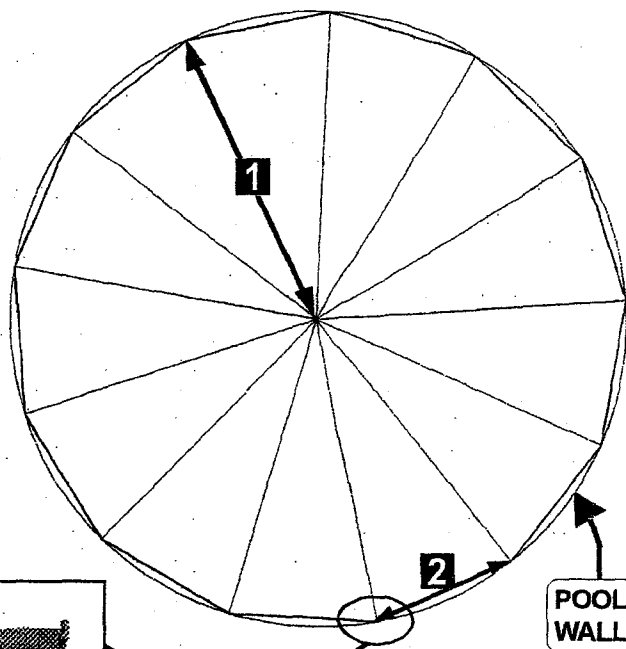
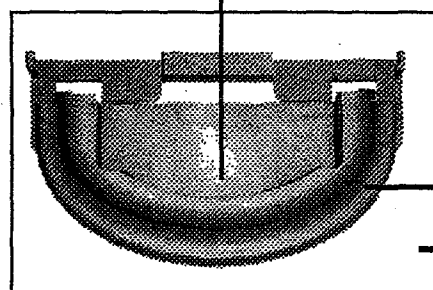
Recheck the level of the entire pool area. The success of your installation depends upon how well this is performed.

STEP 3. ASSEMBLE CIRCULAR BOTTOM FRAMEWORK

Approximate distance from bottom plate to bottom plate

BOTTOM PLATE LAYOUT (top view)

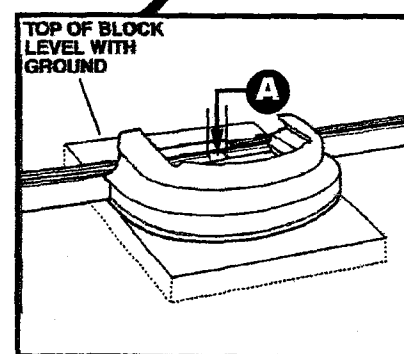
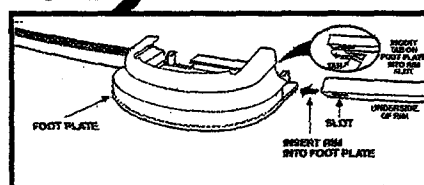
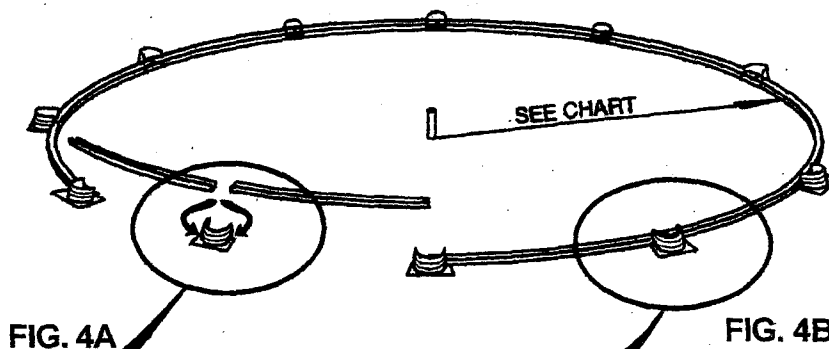
POOL SIZE	RADIUS 1	NUMBER OF BOTTOM PLATES	APPROX. DISTANCE BETWEEN BOTTOM PLATES 2
8'	4'	7	40.125"
12'	5' 9-3/4"	9	47.75"
15'	7' 6"	11	50.75"
18'	9'	13	51.625"
21'	10' 6"	15	52.375"
24'	12'	17	52.875"
27'	13' 6"	19	52.9375"



- Form a circle of rims and bottom plates as shown in Figure 4. Snap rims into bottom plates engaging all tabs as shown in Figure 4A.
- Measure the distance from the center of the pool to each bottom plate (Figure 4) to assure roundness of frame. Measurements must agree with those given in the chart below.
- Insert concrete blocks under bottom plates as shown in Figure 4B.

FIG. 4

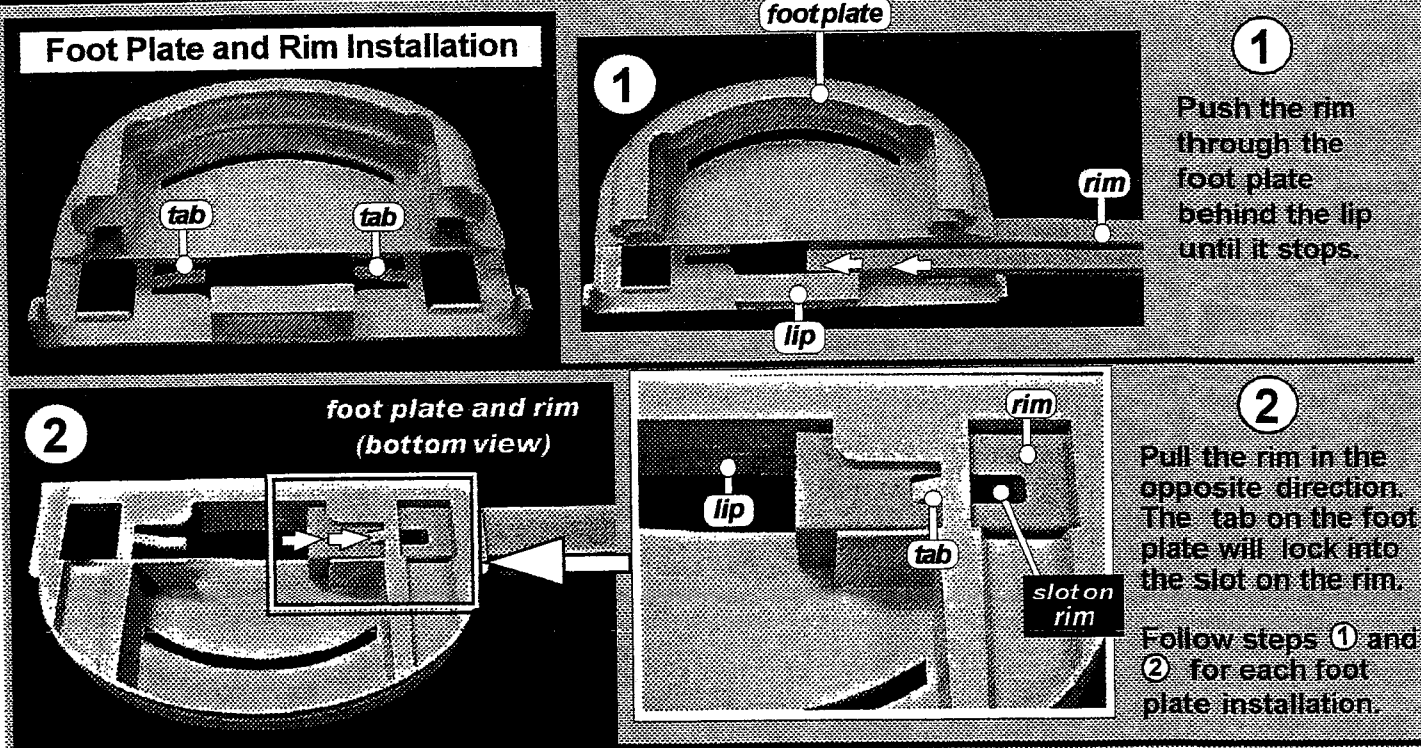
POOL SIZE	DISTANCE TO CENTER OF POOL TO BOTTOM PLATES	APPROX. RIM TO RIM MEASUREMENT A
8'	4'	.6875"
12'	6'	.625"
15'	7' 6"	0.5"
18'	9'	0.5"
21'	10' 6"	0.5"
24'	12'	0.5"
27'	13' 6"	0.5"



BE SURE: Pool frame must be "Round". Bottom framework must be level in all directions.

Step 3. ASSEMBLE CIRCULAR BOTTOM FRAMEWORK CONT'D...

Foot Plate and Rim Installation

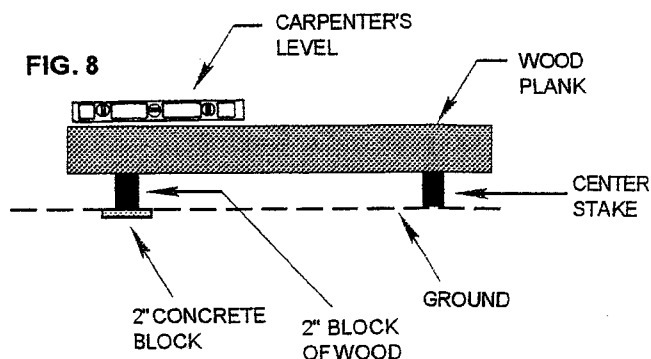
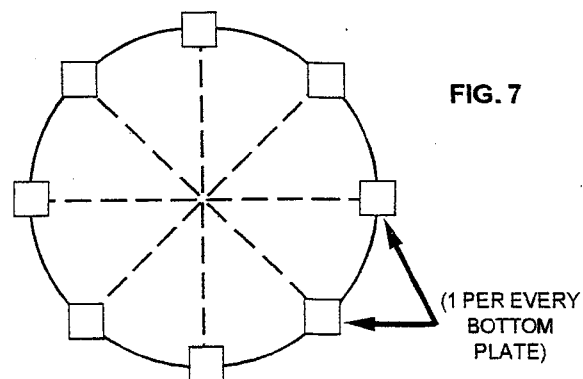


If the tab breaks off the foot plate while installing the rim, continue the installation.

NOTE: The tab of the bottom plate is NOT a structural part of the pool.

- d. Using a straight plank, a small block of wood and a carpenter's level, you must level from the center of the pool to each block as shown in Figure 7.
- e. Find the lowest block in the pool site. Dig down flush with ground level. Use a torpedo level to level the block in all directions.
- f. Set 2" block of wood on concrete block and place plank between center post and block of wood as shown in Figure 8. Place level on top of plank. Gently hammer down center post until plank is perfectly level. **DO NOT move the center post.** Use it as a guide to level all other blocks by placing the 2" block of wood on the concrete block and digging the concrete block down until plank is level.
- g. Take your time, do one block at a time working your way around the entire pool. **DO NOT CHEAT.** They must be level. Once all blocks are level, recheck the block you started with to ensure nothing has moved. If nothing has moved, recheck roundness.

HINT: Place the sifted earth and/or sand inside the circle of rims before installing the pool wall (Step 4).



Step 4. INSTALL POOL WALL

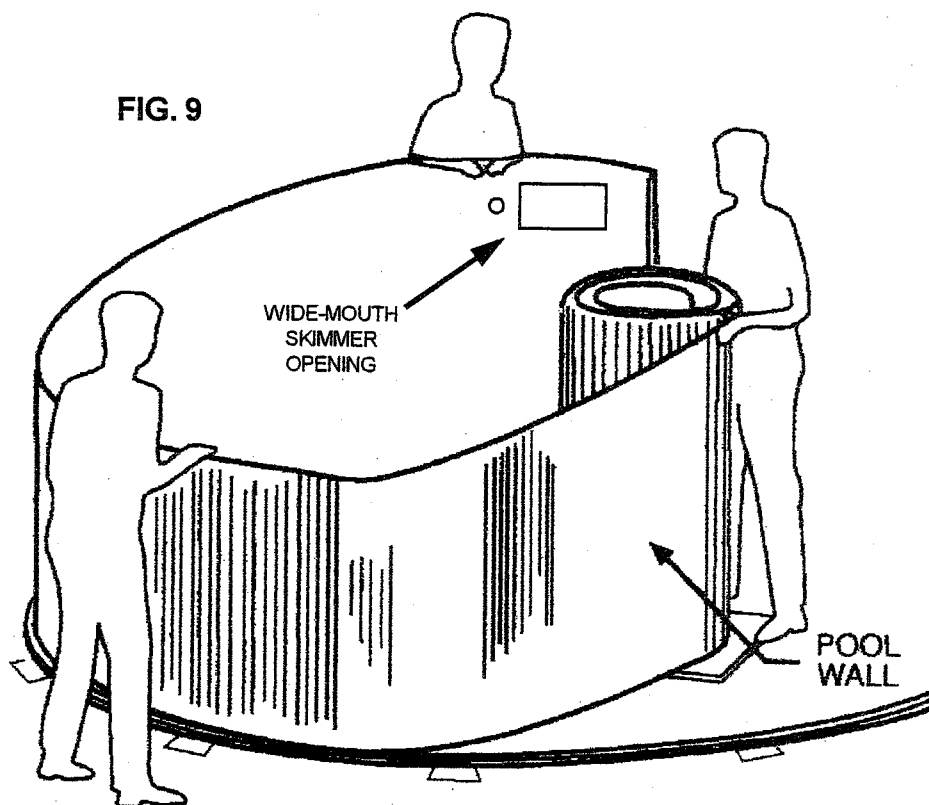
HELPFUL HINT

It is best to have several helpers stabilize the pool wall during installation. If you are not able to get any "extra hands" you may use "S" hooks, cord, and stakes instead. Make sure you place some duct tape on the "S" hooks to prevent them from scratching your pool wall.

⚠ WARNING

WALL CAN UNCOIL ABRUPTLY WHEN BANDS ARE CUT. MAKE SURE YOU HAVE A FIRM GRIP ON THE WALL BEFORE CUTTING BANDS

FIG. 9



- a. Set coiled pool wall on plywood inside the pool area (FIG. 9). The perforated knockouts in the wall are for an optional thru-the-wall skimmer. Whether a skimmer is used or not, these knockouts MUST be positioned at the TOP of the pool (FIG. 9 & 10).

If you are using a thru-the-wall skimmer, refer to your Skimmer Owner's Manual and remove the knockout now. If not using a thru-the-wall skimmer do not remove the knockout panel. Cover ALL perforations (inside the pool) with heavy cloth or duct tape.

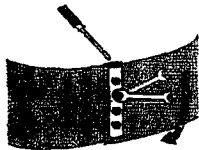
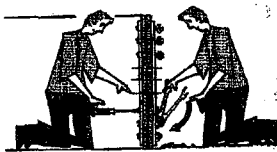
- b. The skimmer knockouts begin approximately 7" from the beginning of the pool wall. Starting at foot clamp, begin wall installation 12" from where your filter will be located. As wall is uncoiled, guide the bottom edge into the rim groove until wall ends overlap and holes align. If ends overlap too much, gently nudge rims toward outside of pool. If ends do not meet, gently nudge rims toward inside of pool. You may use a screw driver to spread rims at wall joint

Step 4. INSTALL POOL WALL

POOL WALL MUST BE INSTALLED WITH ONE REINFORCING BAR ON THE INSIDE AND ONE ON THE OUTSIDE. FAILURE TO INSTALL BOTH BARS AS SHOWN WILL CAUSE COLLAPSE OF POOL!

CAUTION

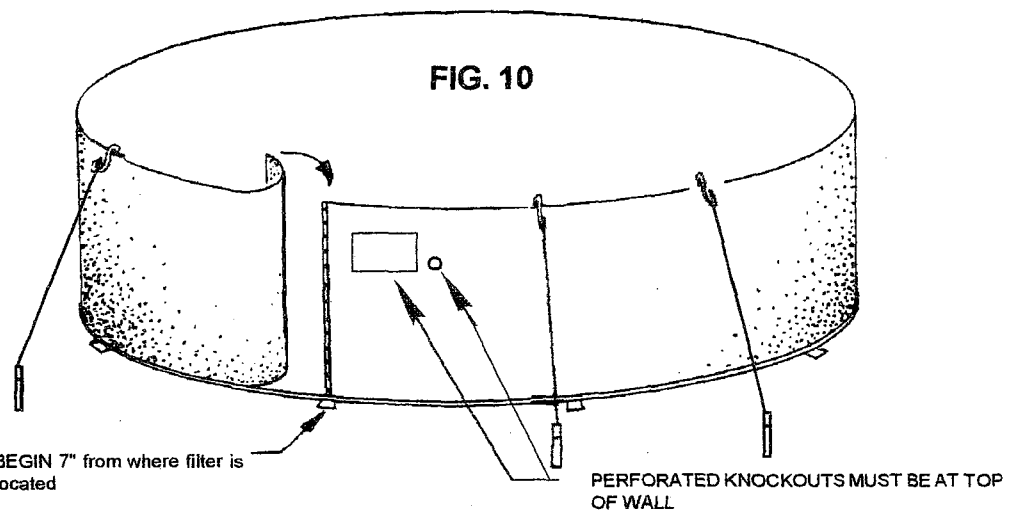
DO NOT USE PLIERS TO TIGHTEN WALL BOLTS. USE BOX END OR OPEN END WRENCH TO TIGHTEN ALL BOLTS SECURELY. IMPROPER WALL ASSEMBLY MAY CAUSE POOL TO COLLAPSE WHEN FILLED WITH WATER.



Tighten all nuts - do not omit any screws in wall joint.

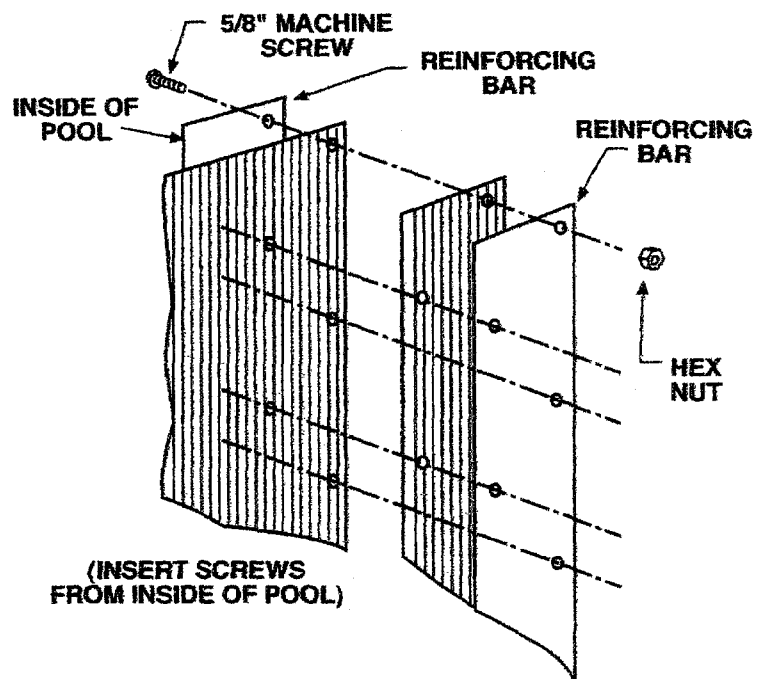
Pool must be round. Measure the distance from the center of the pool to the wall as instructed in STEP 3. If measurements vary more than an inch, correct this "out-of-round" condition either by bumping rims in or out.

Pool must be level. Check pool level at several locations as shown in FIG. 13. If level varies 1" or more, dismantle the pool wall and re-level the entire bottom framework.



- c. As you are joining the wall ends, attach the reinforcing bars on the outer sides of the pool wall using the 5/8" machine screws and hex nuts as shown in Fig. 11 - insert screws from inside of pool. Nuts and washers MUST be on outside (FIG. 11). To eliminate burrs on screw heads, hold screws in place with a screwdriver and then turn the nuts to tighten. Tighten the nuts to a maximum torque of 70 inch pounds. File off any burrs on screw heads and cover the inside wall joint with heavy tape.

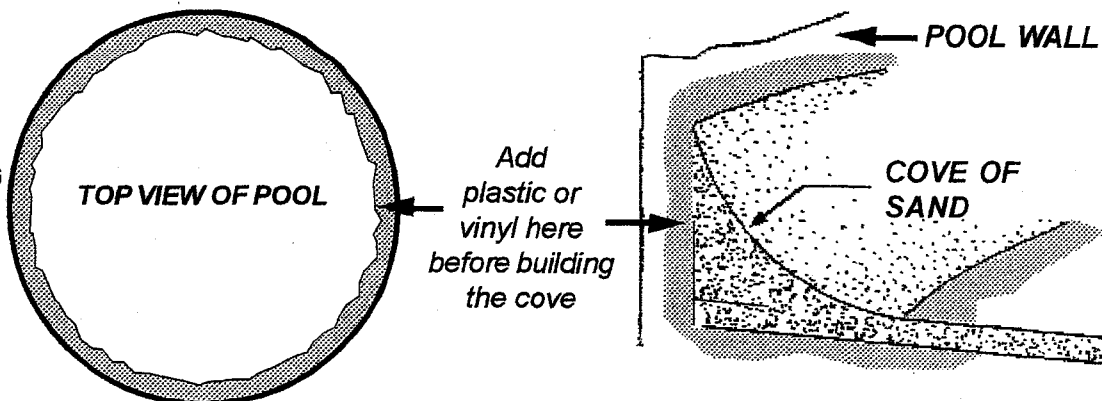
FIG. 11



IMPORTANT:

Follow these steps before adding sand to pool bottom or building cove.

COVER THE WALL AND POOL FLOOR AREA WITH VINYL OR PLASTIC (APPROXIMATELY 12" IN WIDTH) BEFORE BUILDING A COVE AROUND THE POOL. THIS WILL HELP TO PREVENT SAND LOSS AND THE POOL LINER FROM GOING UNDERNEATH THE POOL RIMS WHICH MAY DAMAGE THE LINER.



Step 5. BUILD A COVE AROUND INSIDE BASE OF POOL

- a. For a U-Bead liner, build a 5" cove of firmly packed masonry sand around the inside base of the pool frame (FIG. 12). USE DAMPENED SAND ONLY! DO NOT USE PEAT MOSS OR ANY TYPE "POOL BASE" MATERIAL. The cove is absolutely necessary as it prevents the liner from creeping underneath the wall and rupturing.

FOR AN OVER THE WALL LINER: Use an 8" cove if using an over the wall liner (FIG. 12).

NOTE: Commercially manufactured pool coving may be substituted for sand providing it does not contain ionomer foams (These materials are not compatible with PVC). Should you have any questions please consult your pool dealer or the pool cove manufacturer for the material composition of the coving.

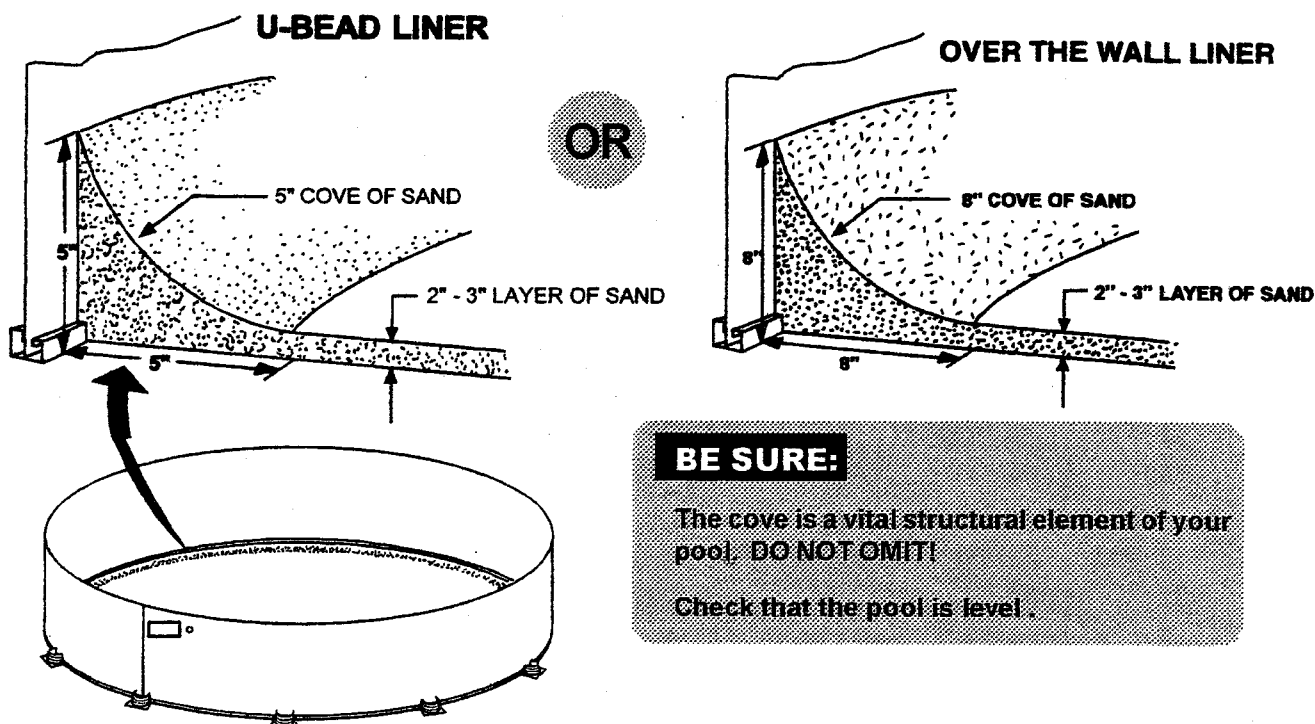
- b. Spread a 2" - 3" layer of sand over the entire pool area and tamp down or use a lawn roller if available (FIG. 12).

- c. Periodically check the base of your pool to be sure the cove is firmly packed.

- d. After tamping or rolling pool base, use the push broom to smooth out the lines or foot prints in the pool base.

IMPORTANT: Certain types of commercial substances referred to as "Pool Base" can cause damage to your pool liner. This manufacturer will not be responsible for damage resulting from the use of such materials.

FIG. 12



Step 6. INSTALL LINER

NOTE: Refer to the instructions that came with your liner. If you are using an Ovation liner, the instructions are in the liner package.

a. Install metal stabilizers over the coping as shown in Fig. 13. Gently tap each stabilizer into place with a rubber mallet or a block of wood. Install the 40" long stabilizers around the curved ends of the pool. Overlap each stabilizer as shown in Fig. 13; See chart below for approximate stabilizer overlap. For oval pools, install one stabilizer between each upright on the straight side. For a 15' x 24' pool, use two and overlap.

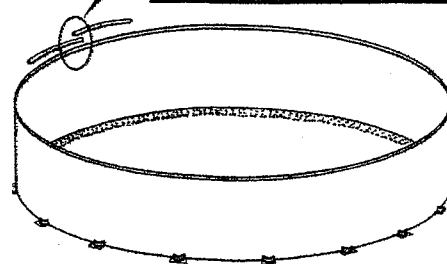
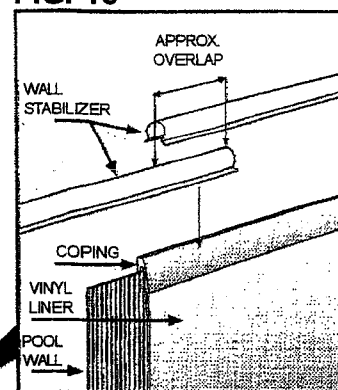
STOP! If you have installed a "HUNG" or "U-BEAD" liner, complete frame assembly steps 7 and 8 before adding water.

b. Start adding water; immediately begin smoothing out wrinkles as the weight of the water pushes the liner into place.

c. When water reaches about 16" in depth carefully measure the distance between the water level and the top ledge of the pool wall at several points. These measurements should not vary more than 1". If they vary more than 1" you must drain your pool and properly level it using the instructions in your pool owner's manual. **NOTE: If your pool is out of level, your warranty will be void and the manufacturer will not assume responsibility for any personal injury or property damage.**

d. Continue to fill with water as you assemble the remaining parts of your pool. If you have purchased a thru-the-wall skimmer, stop filling pool when the water level is 20" - 22" from the top of the wall. Refer to instructions packed with the skimmer for assembly of skimmer.

FIG. 13



POOL SIZE	APPROXIMATE DISTANCE TO OVERLAP STABILIZERS
8'	2-3/4"
12'	3-1/4"
15'	2"
18'	2"
21'	2"
24'	2"
27'	2-3/8"

CAUTION

Liner is heavy-do not attempt to install it yourself.

Pull liner gently-avoid sharp tugs.

Do not cut or trim edges of liner.

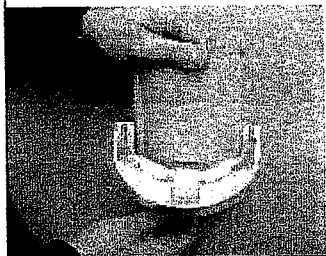
All seams must be straight.

The bottom round seam should be positioned evenly around the inside circumference of the pool.

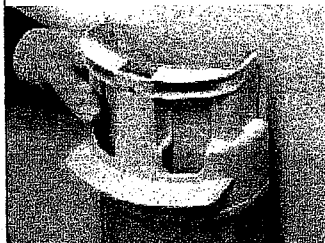
Prior to installation, do not leave the liner exposed to direct sunlight.

Step 7. ASSEMBLE/STRAIGHT UPRIGHTS (CURVED ENDS)

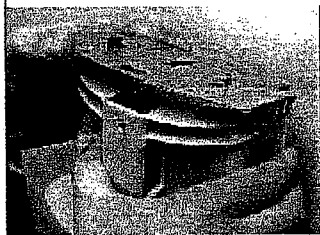
- 1** Insert the tab inside the upright.



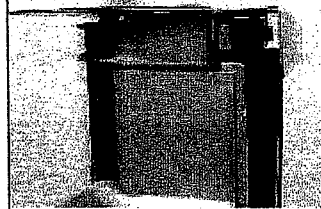
- 2** Rotate the collar against the upright.



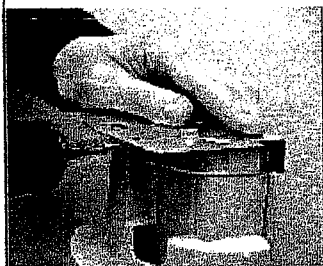
- 3** Install the top plate with the front lip in between the upright and the resin collar.



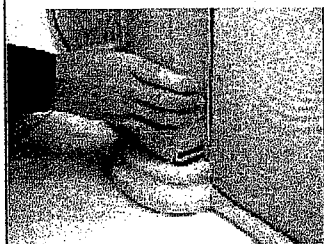
- 4** Make sure the back tabs are inside the slots in both sides of the top plate.



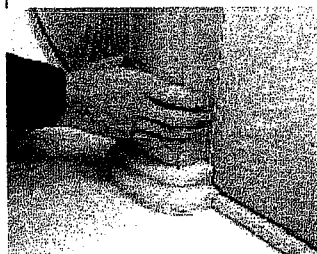
- 5** Attach using the screw.....



- 6** Squeeze the upright into the resin bottom plate.



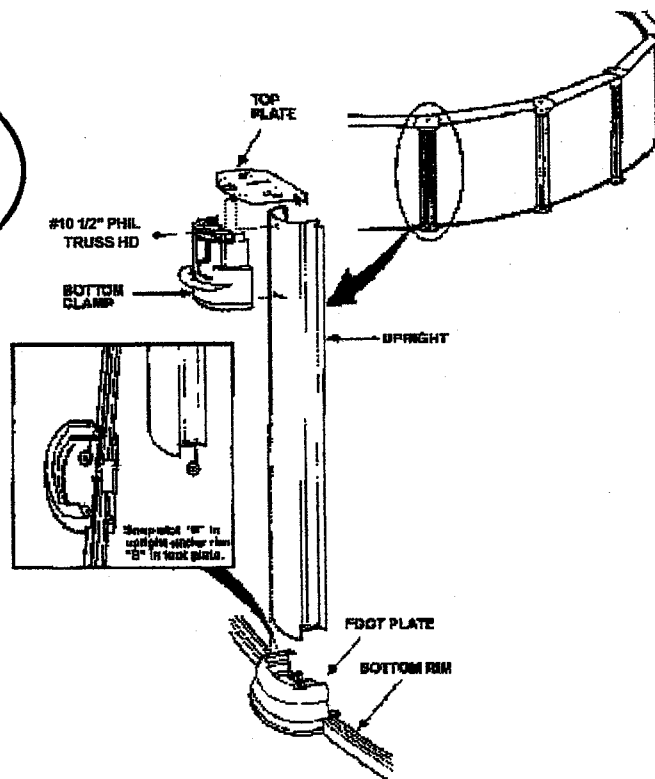
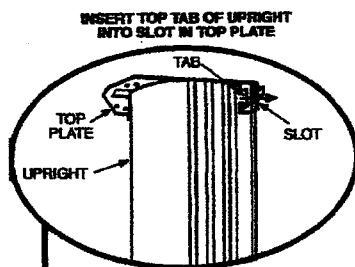
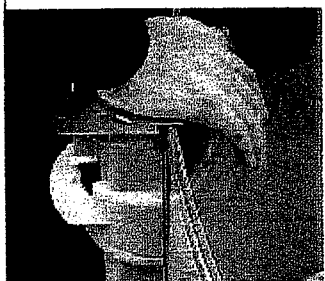
- 7** Don't snap up completely.



- 8** Make sure the back lip of the top plate is behind the stabilizer and press down.



- 9** You will hear the snap on the bottom of the upright and then the top plate becomes flush with the stabilizer.



HELPFUL INSTALLATION HINT:

Once you have installed the top plate to the upright, use thin nose pliers to bend the tabs.

This extra step will keep the upright and top plate locked together adding stability to your pool.

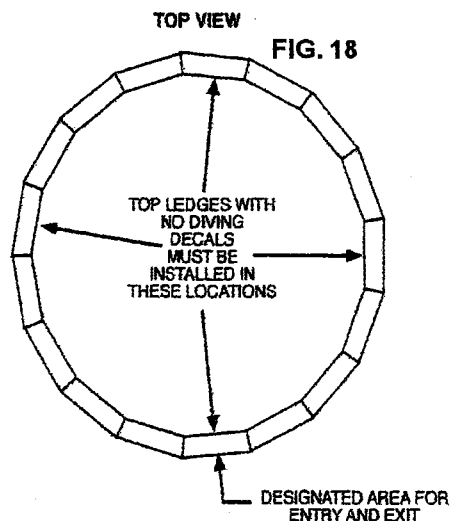
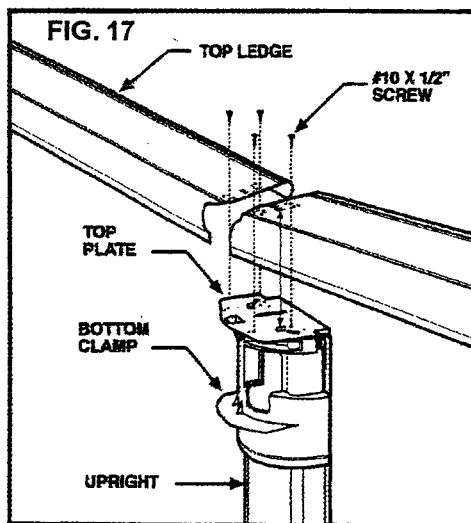
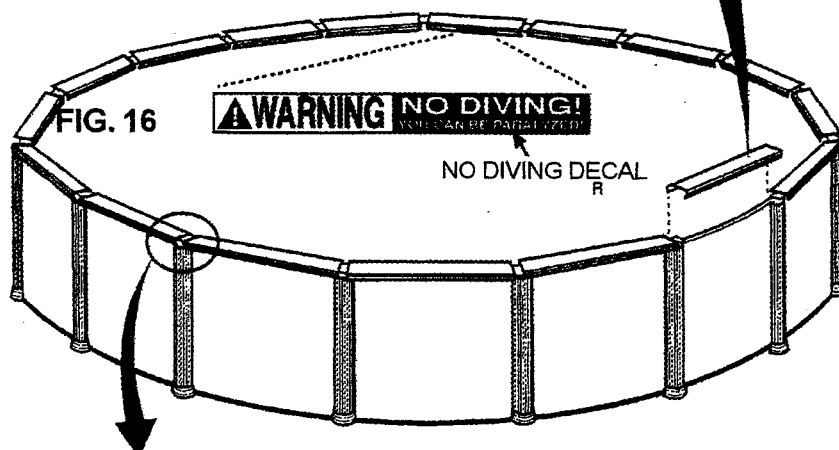
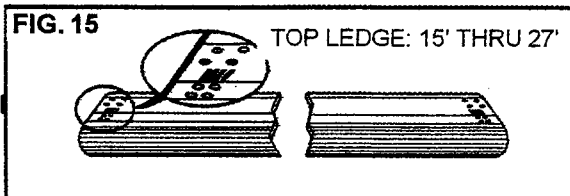
Step 8. INSTALL TOP LEDGE

15' THRU 27' POOLS:

- Top ledges are numbered on each end to correspond to the pool diameter (FIG. 15). Use the numbered slots that correspond to your pool diameter.

Note: 27' pools use slots numbered 24 on one side and 21 on the other side.

- Fasten each top ledge with four #10 x 1/2" sheet metal screws as shown (FIG. 17). If uprights lean in or out when pool is filled with water, adjust several top ledges by moving them to the next slot.



Step 9.

INSTALL NO DIVING DECALS

Place the NO DIVING warning decals on the top ledges (FIG. 16). Place one of these decals at the entry/exit of your pool; install the second decal directly across the pool from the entry/exit location (FIG. 18). Install the remaining two decals at 90° to entry/exit as shown in FIG. 18.

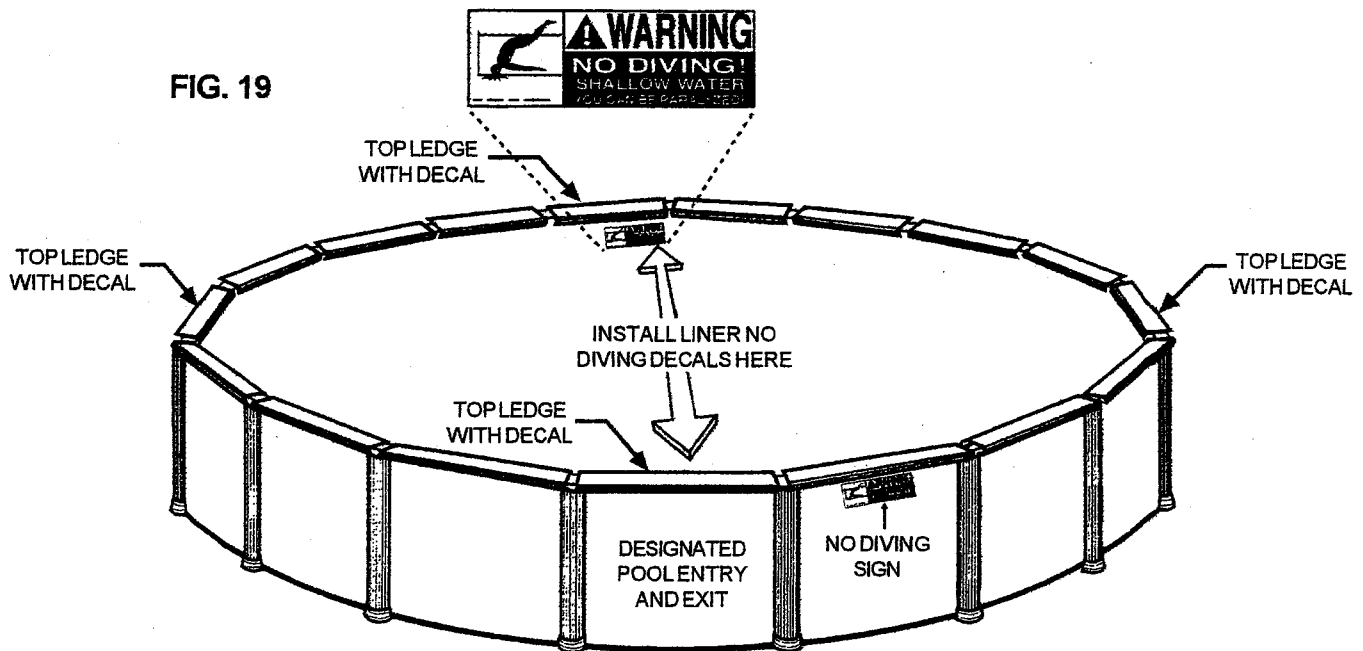
When pool is filled with water to correct skimmer level, install the two NO DIVING warning decals which you set aside earlier.

- Apply decals to the liner just above the maximum water level and just below the top ledge.
- Install one decal at the entry/exit location. Install second decal directly across the pool from the entry/exit location (FIG. 19).

Step 10. INSTALL NO DIVING SIGN

Your 9" x 11" NO DIVING sign must be posted in plain sight near your pool entry/exit location to remind pool users of the importance of this safety information.

If you are not installing a fence or a deck on which to post your sign, you may attach it to the pool top ledge (FIG. 19). Drill 1/8" diameter holes in the outside of the top ledge (adjacent to the entry/exit location) and fasten sign with the enclosed attachment wires.



Step 11. INSTALL LEDGE COVERS

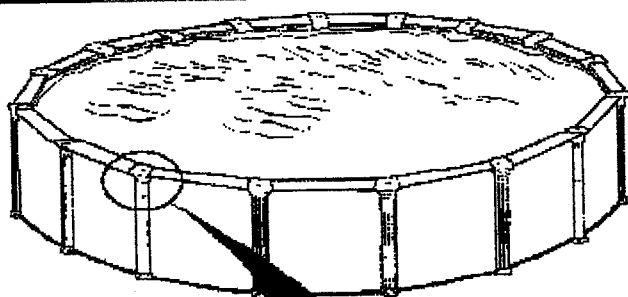
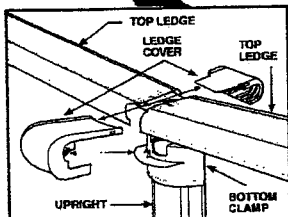
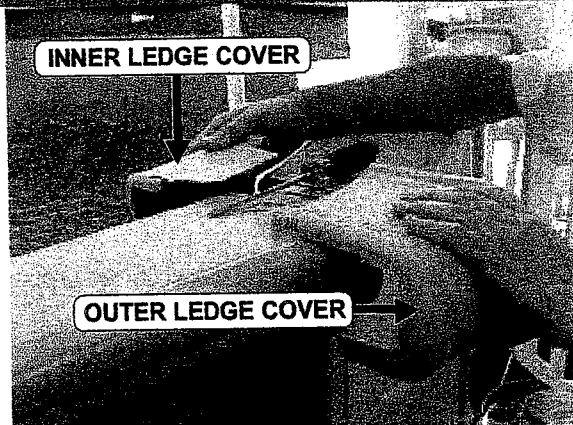


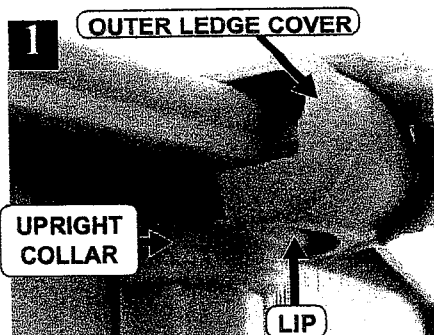
FIG. 20



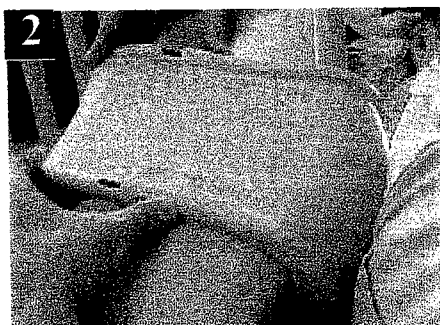
Follow these instructions to install ledge covers.



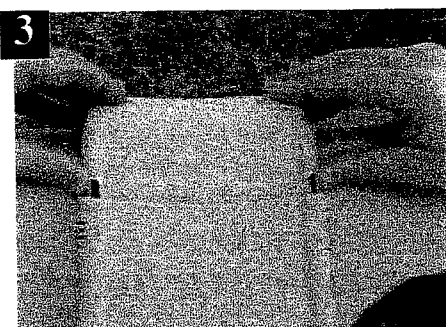
To install a ledge cover on your Portico upright, you need: an inner ledge cover #01072, an outer ledge cover #01071, a screw driver less than 1/4" FLAT BLADE



Make sure you insert the lip on the upright collar into the slot on the outer ledge cover.



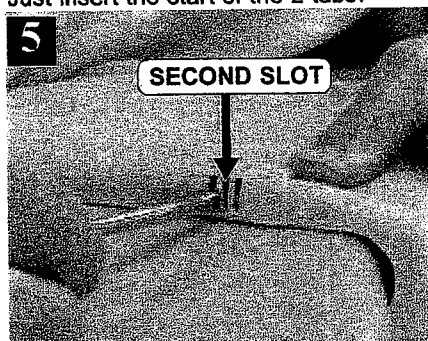
Place the inner ledge cover in line with the outer ledge cover. Use your body to maintain the outer ledge cover in place. Just insert the start of the 2 tabs.



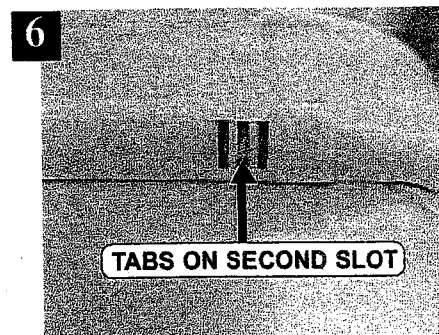
Push the tabs in, in order to engage the tabs on both sides.



Press the top outer ledge cover downward with your thumbs in order to catch the ribs located inside the outer ledge cover and then push the inner ledge cover in until you reach the first slots on each side (see next picture)

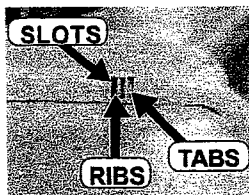


Using the screw driver, push the tab in gently in order to clear the rib. Push the inner ledge cover in until you reach the second slot.



Repeat the same operation again to reach the third slot if needed. If you want to remove the cover, make sure you use a screw driver to push the tabs in. You may break the ribs if you don't do so.

DON'T PUSH TO REACH THE SECOND SLOTS, YOU MAY BREAK THE RIBS



BE SURE: Follow all safety instructions in the special safety section packed with these assembly instructions. It is important to follow necessary health regulations concerning chlorination, circulation, and cleaning of your pool. This maybe done by using a filter and the proper chemical treatment procedures. Your pool dealer has a complete line of filters and accessories with complete instructions on their use. For further information on care, maintenance, and winterization of your pool, refer to pool care booklet. Be sure to follow all safety instructions in same booklet. Preserve the finish of your pool frame by waxing it at least twice a year.

Pool Maintenance

Your pool has a "winterized" liner which means you should never have to take the pool down or drain it. To get your pool ready for winter follow each of these important steps:

1. Winterizing Your Pool

- a. Vacuum and clean the pool. Remove and clean the filter system. Remove ladders and all movable objects from the pool area.
- b. Add chemicals according to manufacturer's recommendations for winterizing your pool. During cold months and with the pool covered, chemicals will last much longer than in summer and will give you winter long protection against algae and bacteria buildup.
- c. Lower the level of water 6" below the bottom of the thru-the-wall skimmer. Put winterizing cap (available from Customer Service) into thru-the-wall return fitting then install winter plate on skimmer. Check and readjust this level after any heavy precipitation. Remove filter and accessories excluding fittings which are attached to the pool, and store filter according to the instructions.
- d. Look at all painted metal parts for scrapes or scratches. Sand and paint these.
- e. Check the gaskets on all thru-the-wall fittings for leakage or deterioration. These gaskets may need to be replaced.
- f. Cover your pool with a winter cover to inhibit drownings and assist in pool maintenance. Use flotation pillows to raise the cover at the center to help drain off water, and keep leaves and other debris from gathering. (Cover must be tamper proof and meet CPSC Standard ES13.) **Never allow children to walk or play on pool cover. Entrapment or drowning may occur!**

2. How to Prepare Your Pool for Spring

- a. Use a leaf skimmer to remove debris.
- b. Reinstall the filter and run continuously. Watch pressure carefully and clean filter when necessary.
- c. Super Chlorinate immediately.
- d. Vacuum the pool.
- e. Test the water for pH balance.

3. General Maintenance

If you don't use a floating chemical dispenser or chlorine feeder, you must thoroughly dissolve the chemicals. This must be done outside the pool before you use them. Then pour slowly into the water as you walk around the pool. If chemicals are not dissolved first they can cloud the water. They can also shorten the filter cycle and damage the liner. The right pH and chlorine content are very important. Follow chemical manufacturer's instructions for proper use of pool chemicals.

Keep the filter running when adding chemicals. The only way to clean your pool is by filtering and using chemicals, NOT by draining your pool and

filling it again. Draining your pool completely may result in liner shrinkage.

Wax your pool - Your pool is exposed to corrosive conditions. Help preserve the finish by waxing the metal parts with a good automotive wax at least twice a year.

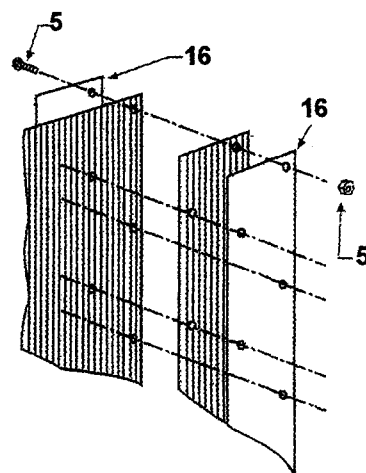
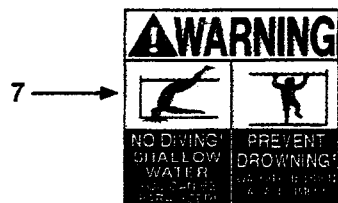
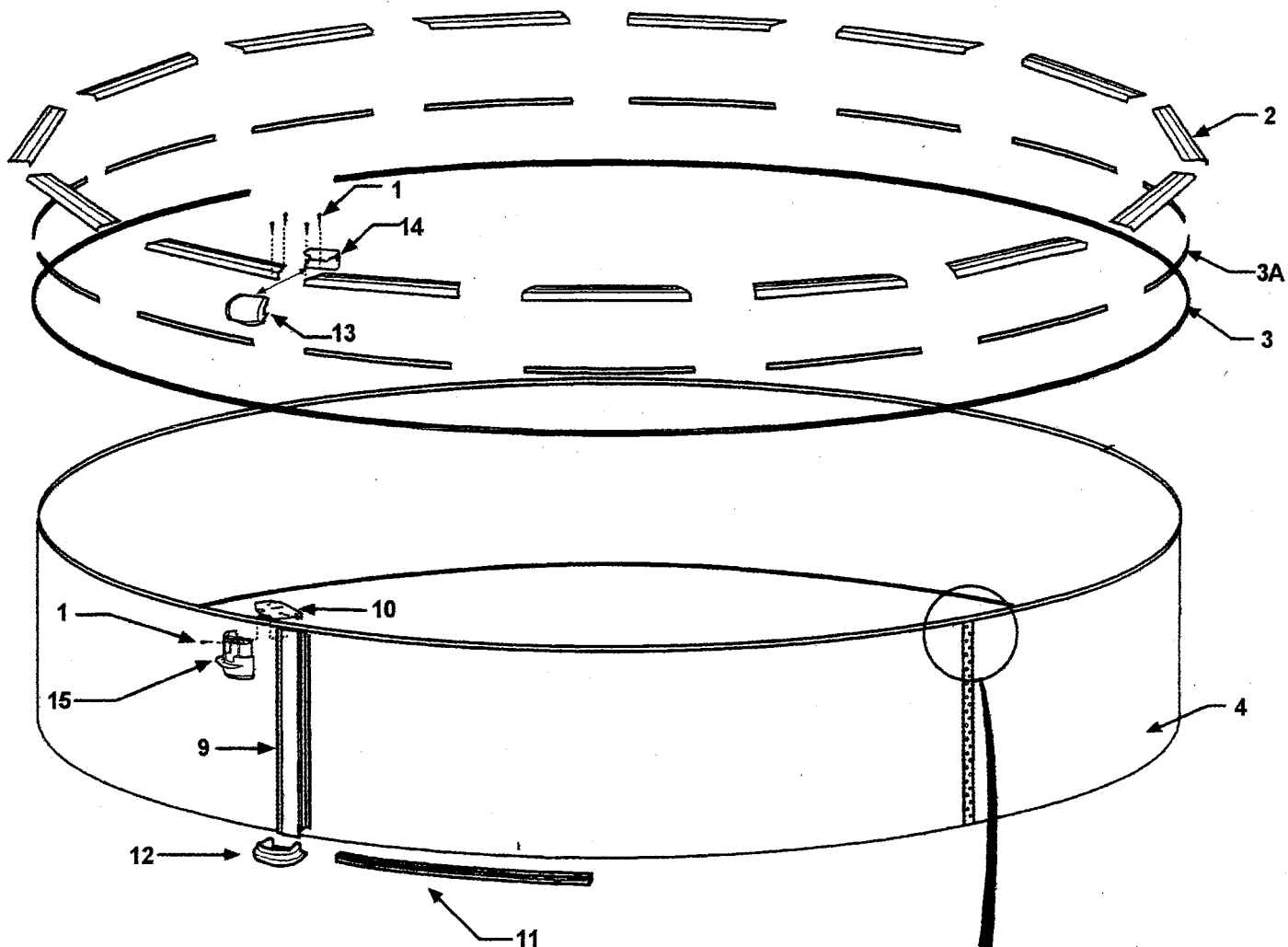
Periodically check wall at skimmer/return to make sure there are no leaks.

NOTE: The chemicals added to your pool is for sanitizing the water in your pool. The filter is used for cleaning the water in your pool.

Check the metal parts periodically for rust spots. If touch-up is required:

- a. Scrape any loose, flaking paint.
- b. Wipe any bare metal with turpentine or mineral spirits.
- c. Prime bare metal areas with an Anti-Rust primer, or equivalent.
- d. Topcoat with Anti-Rust enamel.

REPAIR PARTS ROUND POOLS



REPLACEMENT PARTS (*Not shown)

KEY NO.	8'		12'		15'		18'		21'		24'		27'		DESCRIPTION	KEY NO.
	P/N	QTY	P/N	QTY	P/N	QTY	P/N	QTY	P/N	QTY	P/N	QTY	P/N	QTY		
1	76511	40	76511	72	76511	88	76511	104	76511	120	76511	136	76511	152	#10x1/2" Sheet Metal Screw	1
2	02998	8	02247	9	02248	11	02249	13	02249	15	02249	17	02249	19	Top Ledge Taupe	2
3	30036	7	30036	9	30036	11	30036	14	30036	16	30036	18	30036	20	Coping	3
3A	05074	8	05076	12	05077	15	05078	18	05080	21	05081	24	05082	27	Stabilizer	3A
4	**	1	**	1	**	1	**	1	**	1	**	1	**	1	Wall	4
5	35184	1	35184	1	35184	1	35184	1	35184	1	35184	1	35184	1	Wall Bolt Pack 48"	5
5	35043	1	35043	1	35043	1	35043	1	35043	1	35043	1	35043	1	Wall Bolt Pack 52"	5
6	96005	4	96005	4	96005	4	96005	4	96005	4	96005	4	96005	4	Decal - "No Diving" Top Ledge	6
7	96001	1	96001	1	96001	1	96001	1	96001	1	96001	1	96001	1	"No Diving" Sign	7
8	96002	1	96002	1	96002	1	96002	1	96002	1	96002	1	96002	1	Decal - "No Diving" Wall & Liner	8
9	10137	8	10137	9	10137	11	10137	13	10137	15	10137	17	10137	19	Upright 48" Taupe	9
9	10138	8	10138	9	10138	11	10138	13	10138	15	10138	17	10138	19	Upright 52" Taupe	9
10	03019	8	03019	9	03019	11	03019	13	03019	15	03019	17	03019	19	Top Plate	10
11	05948	8	05306	9	05305	11	05265	13	05266	15	05267	17	05268	19	1" - Rim Taupe	11
12	04013	8	04013	9	04013	11	04013	13	04013	15	04013	17	04013	19	Bottom Plate Taupe	12
13	01071	8	01071	9	01071	11	01071	13	01071	15	01071	17	01071	19	Ledge Cover (Outer) Taupe	13
14	01072	8	01072	9	01072	11	01072	13	01072	15	01072	17	01072	19	Ledge Cover (Inner) Taupe	14
15	01073	8	01073	9	01073	11	01073	13	01073	15	01073	17	01073	19	Bottom Clamp	15
16	09027	2	09027	2	09027	2	09027	2	09027	2	09027	2	09027	2	Reinforcing Bar 48" Pool	16
16	09020	2	09020	2	09020	2	09020	2	09020	2	09020	2	09020	2	Reinforcing Bar 52" Pool	16
*	97200	1	97200	1	97200	1	97200	1	97200	1	97200	1	97200	1	Owner's Manual	*

NOTES:

E-Mail: msservice@zap.zodiac.com
Website: <http://www.zodiacamericanpools.com>

PART NUMBER* *PART DESCRIPTION* *NAME OF ITEM* *MODEL NUMBER* *POOL SIZE
DATE PURCHASED

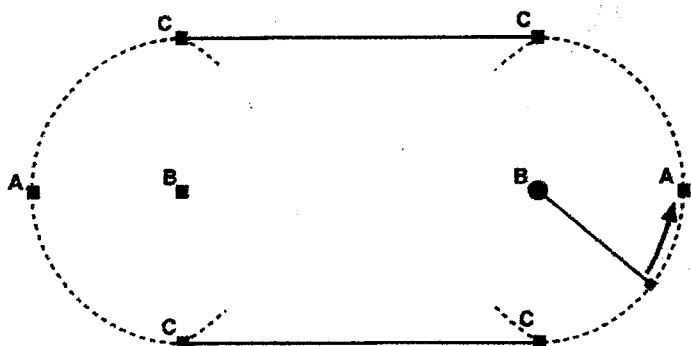
OVAL POOLS

Step 1. MARK OFF POOL AREA AND REMOVE SOD

Using the chart below and **Figure 1**, mark off pool area as shown. Measure carefully and drive pegs into the ground where indicated.

- Insert "A" pegs as shown (A to A) and connect with a string.
- Measure (A to B) and insert "B" pegs.
- Tie a loop at one end of a string and drop it around a "B" peg. Stretch the string out to the closest "A" peg and attach a marking stick. Mark off a semicircle on both ends of the pool as shown, using flour, spray paint or something similar which is easily visible.
- Tie string from "C" to "C" on each side of pool and mark along string line as shown in Fig. 1.
- Remove all sod, sticks, stones, and roots within the marked pool area. Carefully remove and replace "A" and "B" pegs when digging.

FIG. 1



NOTE: Keep "B" Pegs in during installation as a measuring guide. Take pegs out when you are ready to install liner.

POOL SIZE	AREA NEEDED FOR POOL	MEASUREMENTS PEG TO PEG	
		A TO A	A TO B
8 x 12	10' x 14'	14'	5'
10 x 15	12' x 17'	17'	6'
12 x 18	14' x 20'	20'	7'
12 x 24	14' x 26'	26'	7'
15 x 24	17' x 26'	26'	8'6"
15 x 30	17' x 32'	32'	8'6"
18 x 33	20' x 35'	35'	10'

Step 2. LEVEL POOL AREA

Unless you have access to a surveyor's level, the best, most accurate way to level the ground is with a straight plank (2 x 4 will do but it should be straight) and a carpenter's level (Figure 2). Find the lowest spot within the pool area and level the ground to the lowest point. Dig away the high areas - do not fill in low areas (Figure 3).

REMEMBER: You must also provide a three foot level area outward from the pool frame so the pool wall will serve as a barrier to toddlers.

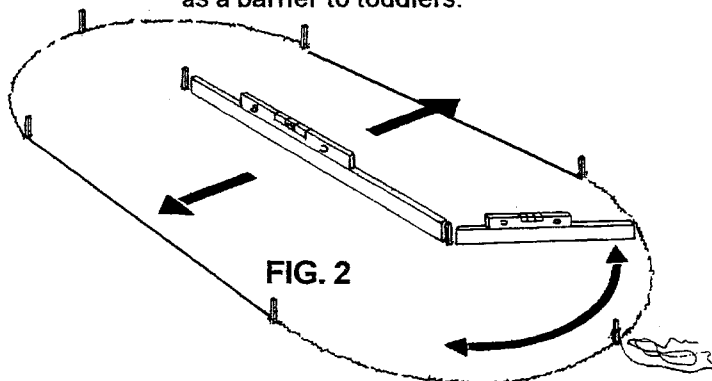


FIG. 2

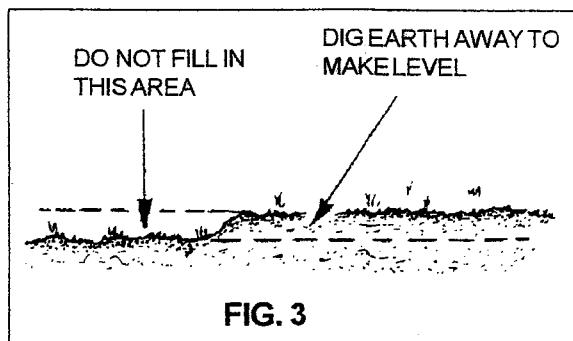


FIG. 3

BE SURE: Recheck the level of entire pool area. The success of installation depends upon how well this is performed.

Step 3. TRENCH LOCATION FOR OMEGA BEAMS

Using the chart for your pool below, remove all sod, sticks, stones, and roots to form an 8" wide by 4" deep by 54" long trench as shown. Level trench and place a block at the inner and outer ends of trenches. Be sure the tops of the blocks are flush with the ground surface in the trench. (See Figures 4A, 4B, 4C and 4D)

(FOR 12' X 24', 15' X 24', 15' X 30', AND 18' X 33' POOLS) NOTE: Place concrete blocks between Omega beams to insure proper support. Make sure there is solid ground under the rims and the tops of the concrete blocks are level with the ground (See pictures below).

FIG. 4A

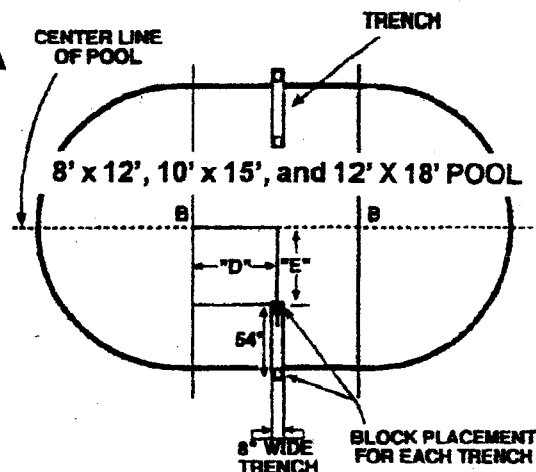


FIG. 4B

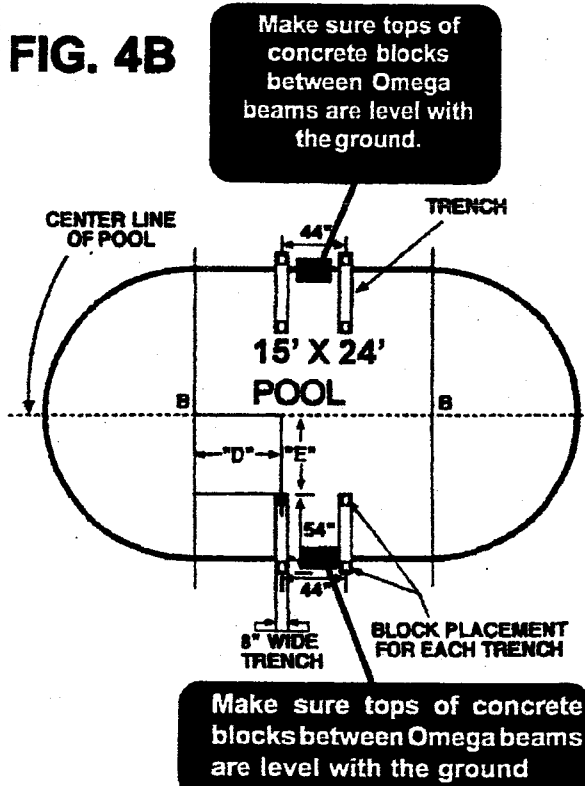


FIG. 4C

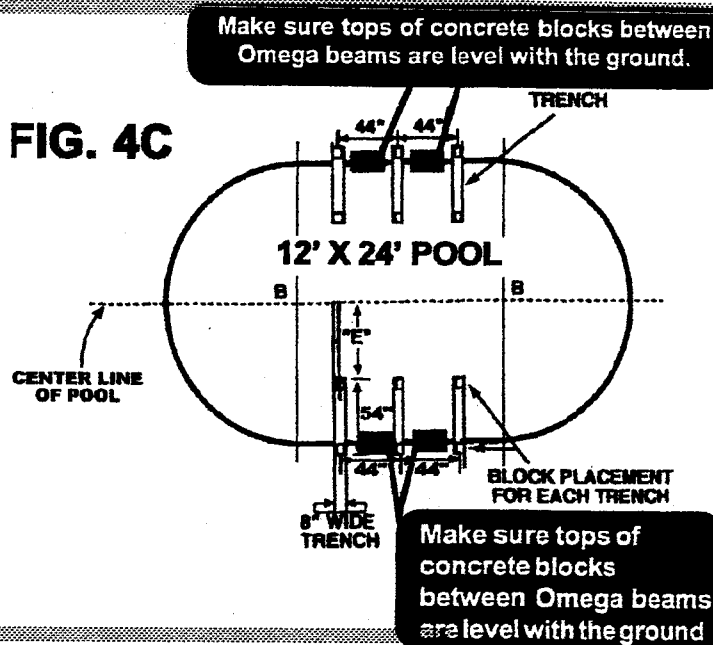
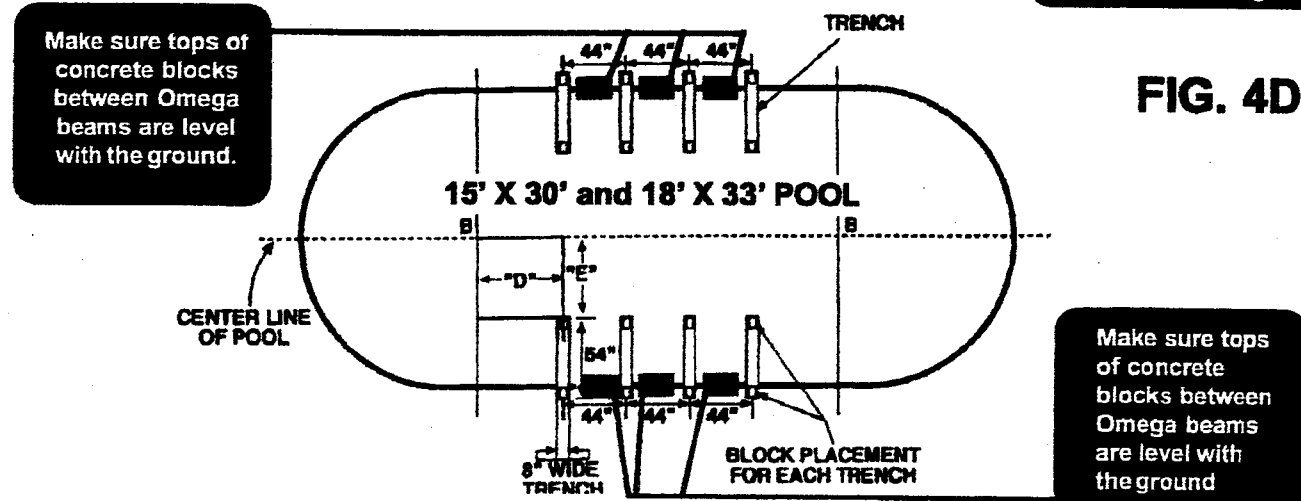
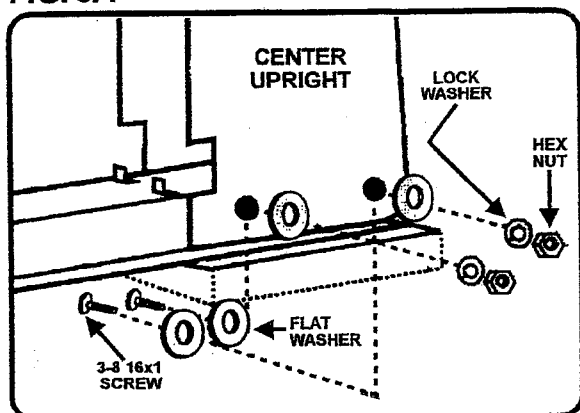


FIG. 4D



Step 4. ASSEMBLE SUBSTRUCTURE

FIG. 5A



CAUTION

These bolts have been designed for this specific pool application. **DO NOT SUBSTITUTE.** Pool collapse may occur if you substitute!

If bolts are missing, please contact Customer Service. (See cover page for Customer Service address and telephone number).

A. Attach each side support to an Omega beam using 4 ea. 3/8-16 x 1" bolts ea., 8 ea. flat washers, 4 ea. 3/8 lock washers, and 4 ea. 3/8 hex nuts as shown in Figure 5A. When you attach side support to Omega beam, make sure they are fastened securely.

B. Cut a 12" piece off the styrofoam block (save for later use, see Fig. 8E) and insert the longer piece into the Omega, making sure the foam is flush with outside edge of the Omega. Carefully place one assembly in each trench (See Fig. 5B).

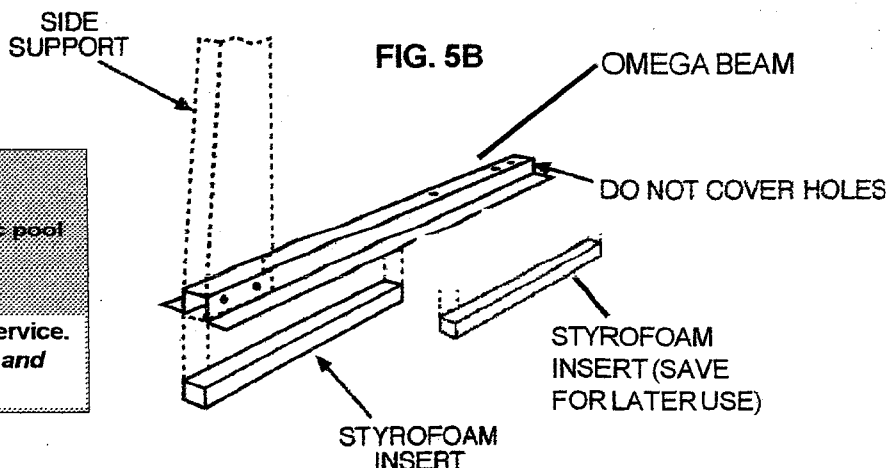
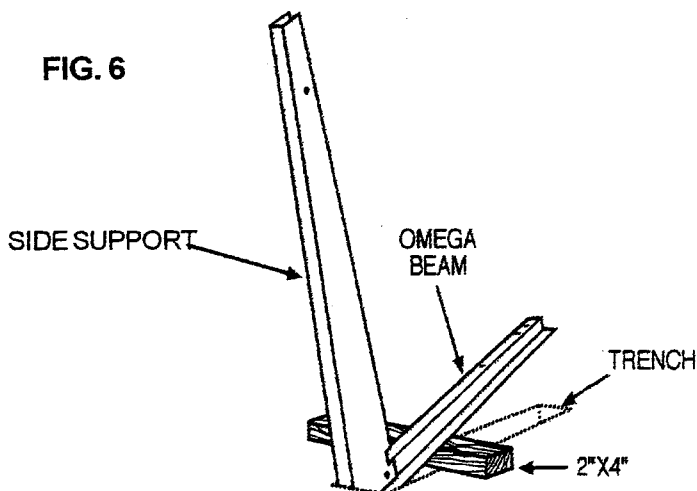


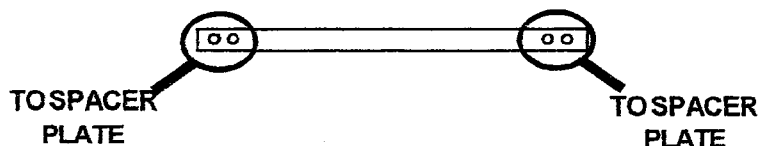
FIG. 6

C. Lift and support each inside end of the Omega with a piece of 2" x 4" spanning the trench for easier installation (See Fig. 6).

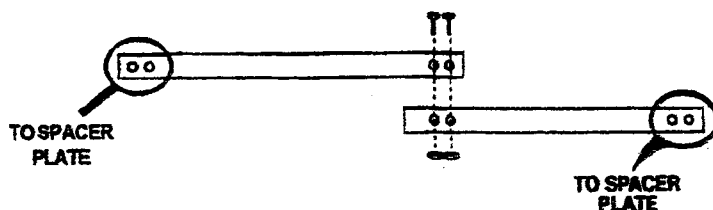


No tie bar assemblies for the 8' x 12', 10' x 15' pool. Bolt directly to Omega beams per instructions below and per Fig. 7D (8' x 12', 10' x 15', pool).

812, 1015 CONFIGURATION



1224 and 1218 CONFIGURATION

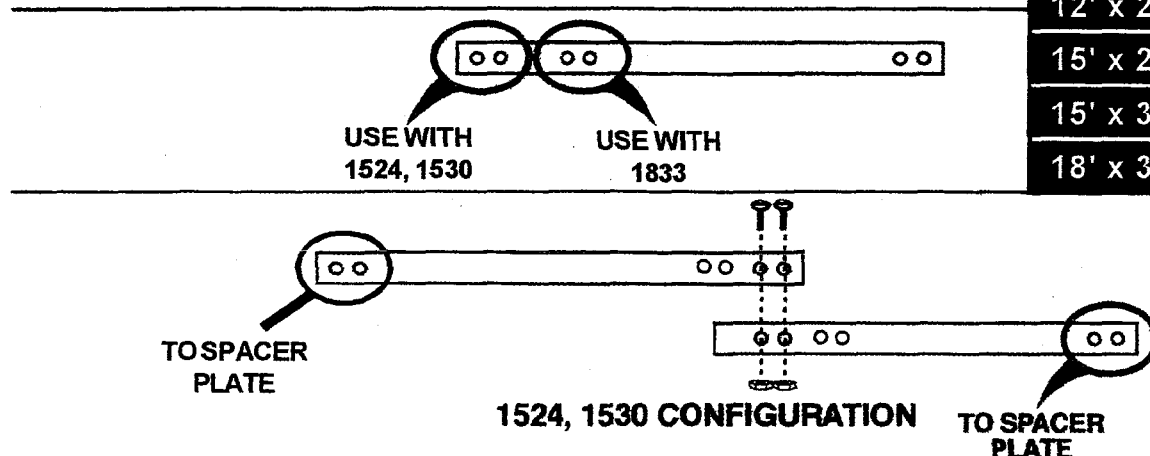


Step 4. ASSEMBLE SUBSTRUCTURE CONT'D..

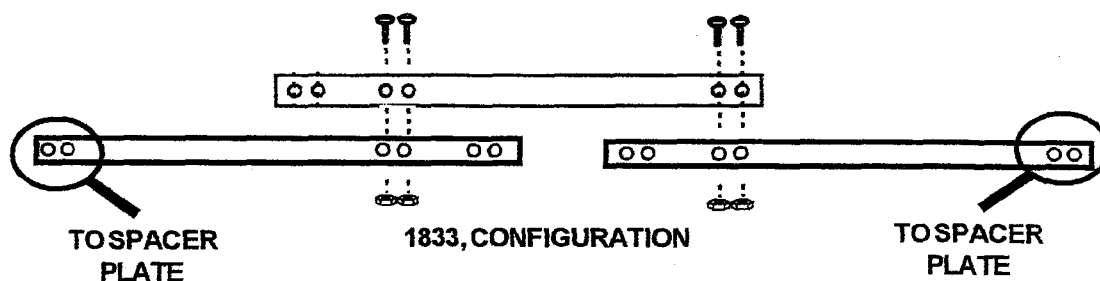
IMPORTANT NOTE: Fasten all hardware securely.

One end of every strap has 4 holes. See pictures below for correct hole usage (See previous page for the 8' x 12', 10' x 15', and 12' x 18' pools).

POOL SIZE	NUMBER OF STRAPS
8' x 12'	1
10' x 15'	1
12' x 18'	2
12' x 24'	6
15' x 24'	4
15' x 30'	8
18' x 33'	12



NOTE: Some 15' straps only have 4 holes, use the outside holes for assembly if you have these straps.



A. RIM CONNECTOR INSTALLATION:

Rim connector will bend to conform to the shape of the pool.

- 1 Insert rim connector into short (41") rim.
- 2 Rims and rim connector should be assembled as shown here.
- 3 Place assembly in the center of the upright.

B. Lay spacer plates between side supports with the lip side down (Fig. 8B). Do not attach at this time. Spacer plates will overlap on the 12' x 24', 15' x 24' and 18' x 33' pools. For the 8' x 12', 10' x 15', and 12' x 18' pools, lay out as shown in Figure 7.

C. Secure the tie bar joiner and spacer plate to each Omega using 1 ea. #14 x 5/8" self-tapping screw and 2

ea. 5/16-18x3/4" truss head machine screw and 5/16-18 hex nuts (Fig. 8B). Refer to the tie bar joiner assembly diagrams shown above. At this time do not connect the tie bar joiners. Complete one side before beginning the other in the center of the pool.

D. Insert the small piece of styrofoam you cut off earlier and insert it into the Omega making sure that the end of the styrofoam is flush with the inside end of the Omega.

E. Remove 2" x 4" supports and secure the tie bar joiner assemblies using 5/16-18x3/4" truss head machine screw and 5/16-18 hex nuts (Fig. 8C).

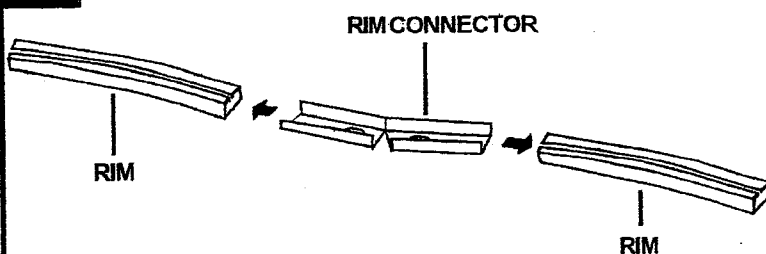
IMPORTANT: F. Fill in and tamp down any open area around the inside of the Omegas including the spacer plates. If this is not done properly it may cause craters (space gaps) in your liner.

RIM CONNECTOR INSTALLATION:

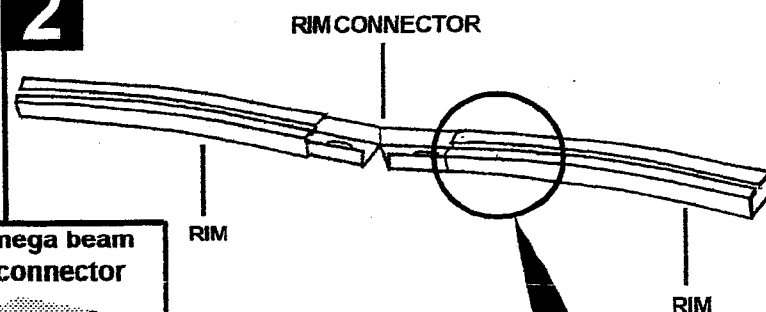


Rim connector will bend to conform to the shape of the pool.

1



2



3

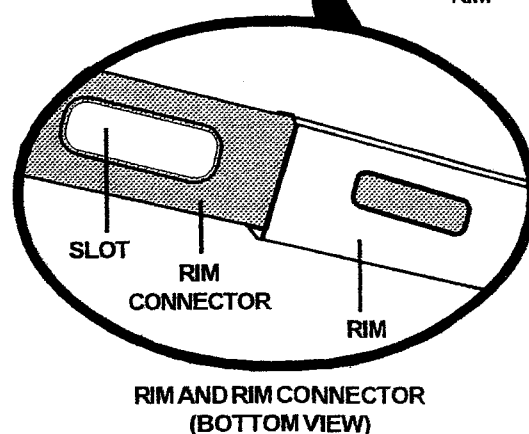
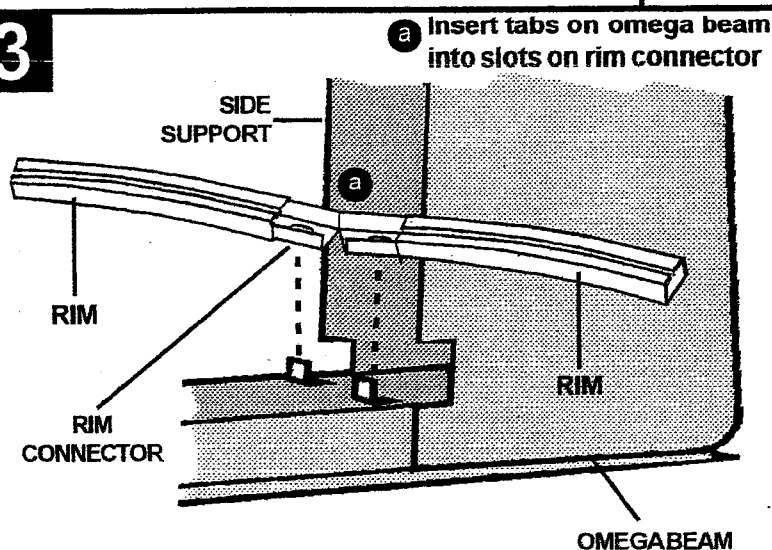
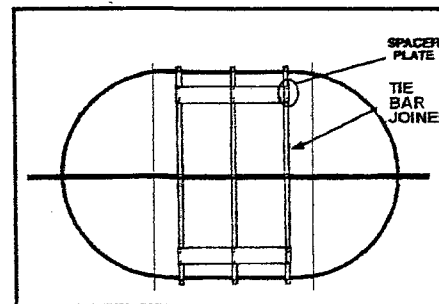
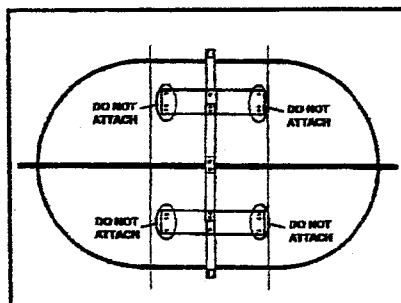
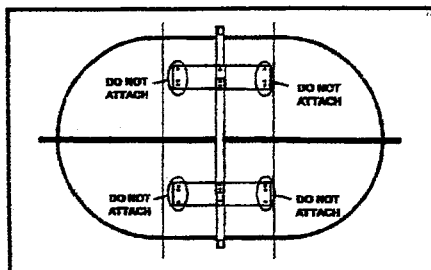


FIG. 7

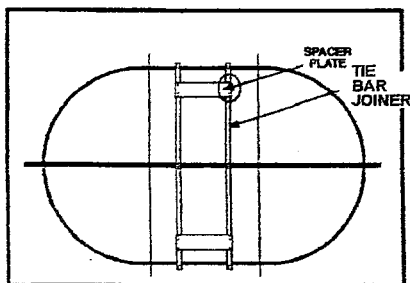
12' x 18' POOL

12' x 24' POOL

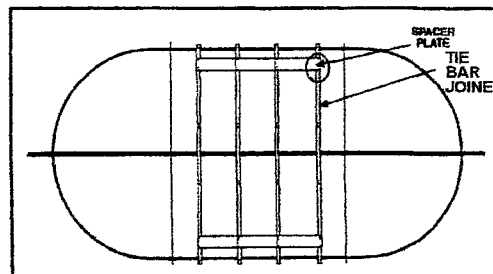
8' x 12' and 10' x 15'



15' x 24' POOL

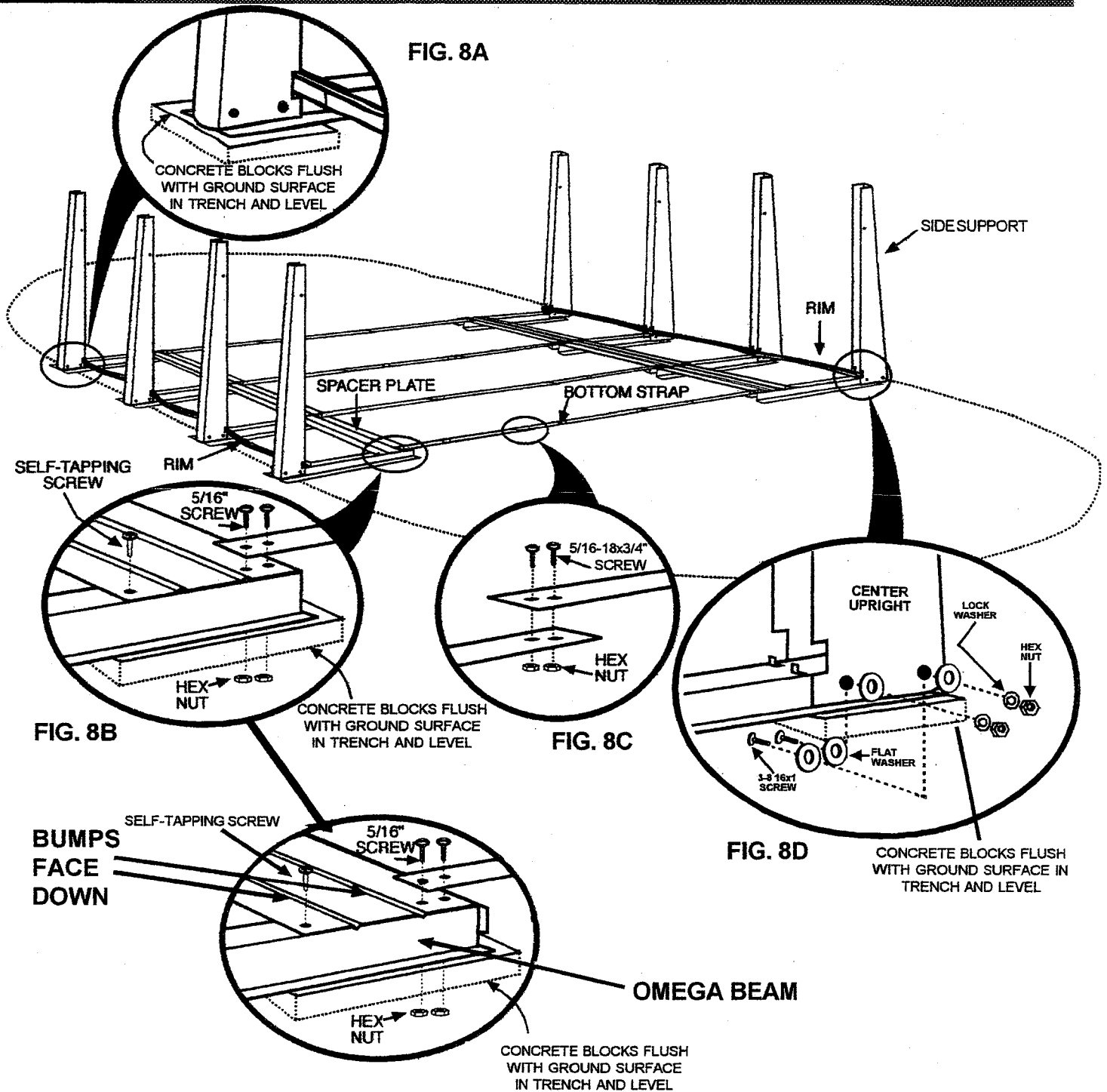


15' x 30' and 18' x 33' POOL



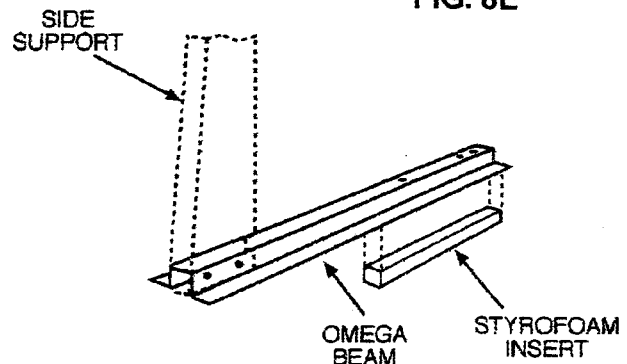
Step 5. ASSEMBLE SUPPORT STRUCTURE

FIG. 8A



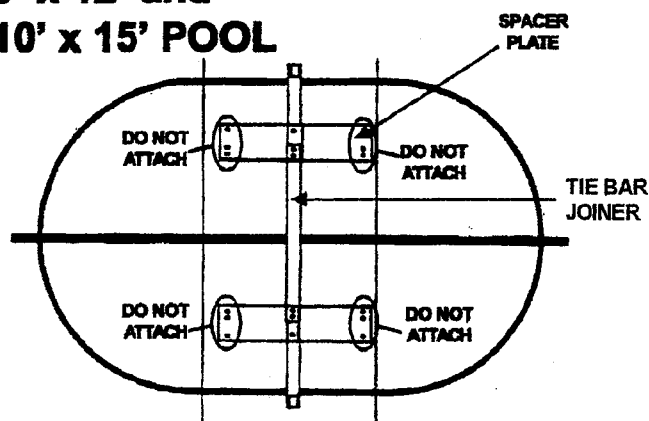
Insert the other 12" block of styrofoam (which was set aside earlier) into the front end of the Omega Beam. Make sure the foam is flush with the outside edge of the Omega Beam (Fig. 8E).

FIG. 8E

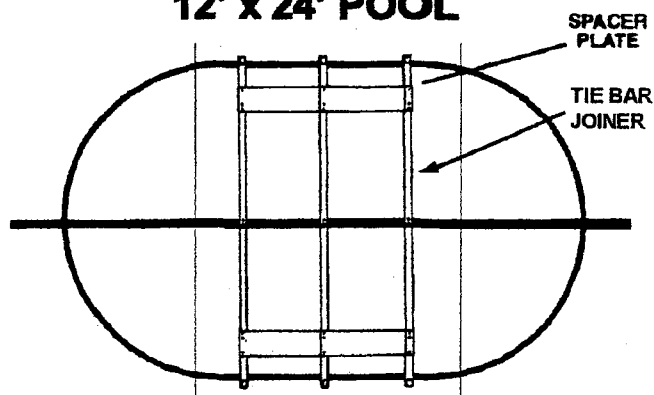


Step 5. ASSEMBLE SUPPORT STRUCTURE CONT'D...

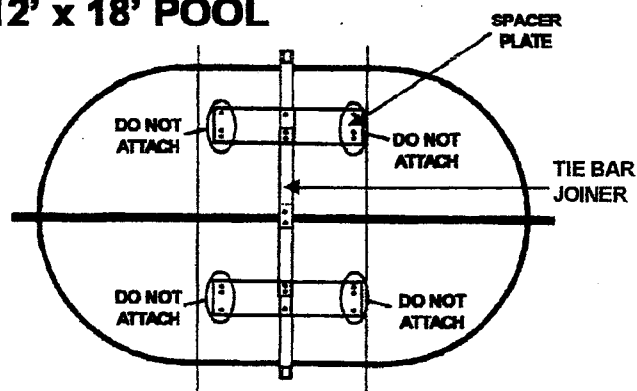
**8' x 12' and
10' x 15' POOL**



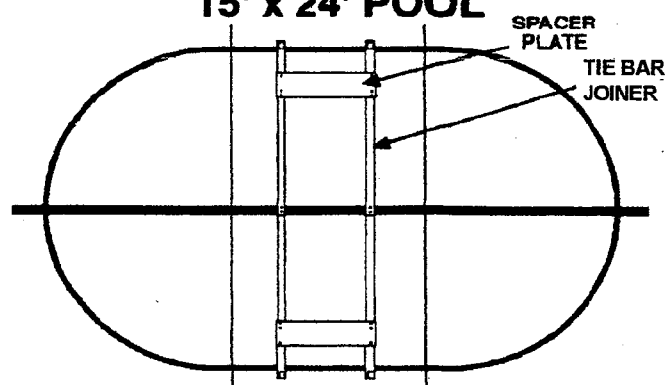
12' x 24' POOL



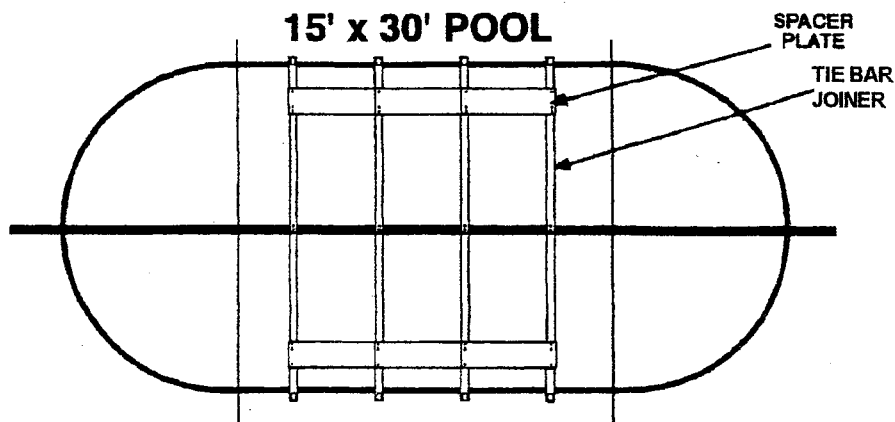
12' x 18' POOL



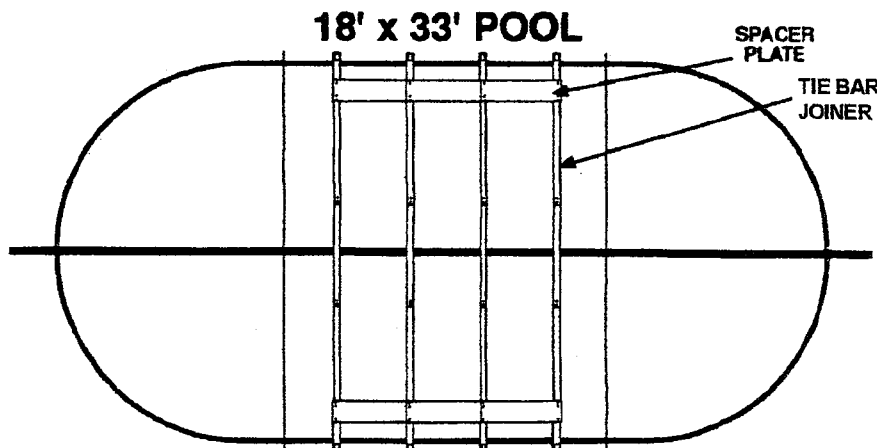
15' x 24' POOL



15' x 30' POOL



18' x 33' POOL



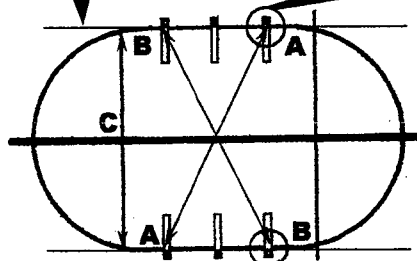
The diagrams
on this
page
show a
bird's eye
view of
pool
assembly
to this
point.

POOL SIZE	APPROXIMATE DIAGONAL DISTANCE A	APPROXIMATE DIAGONAL DISTANCE B	APPROXIMATE DISTANCE C
8' x 12'			7' 9-7/8"
10' x 15'			9' 11-1/2"
12' x 18'			11' 7-1/2"
12' x 24'	13' 11-1/4"	13' 11-1/4"	11' 7-1/2"
15' x 24'	15' 6-3/16"	15' 6-3/16"	14' 11-7/8"
15' x 30'	18' 9-1/2"	18' 9-1/2"	14' 11-7/8"
18' x 33'	21' 3"	21' 3"	17' 11-1/2"

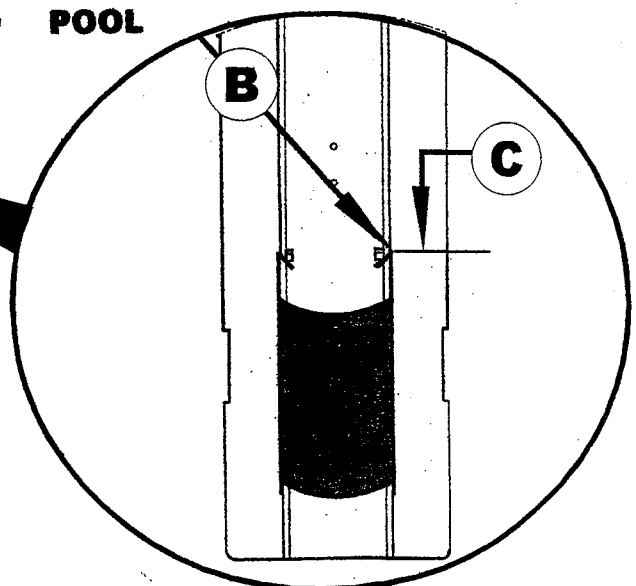
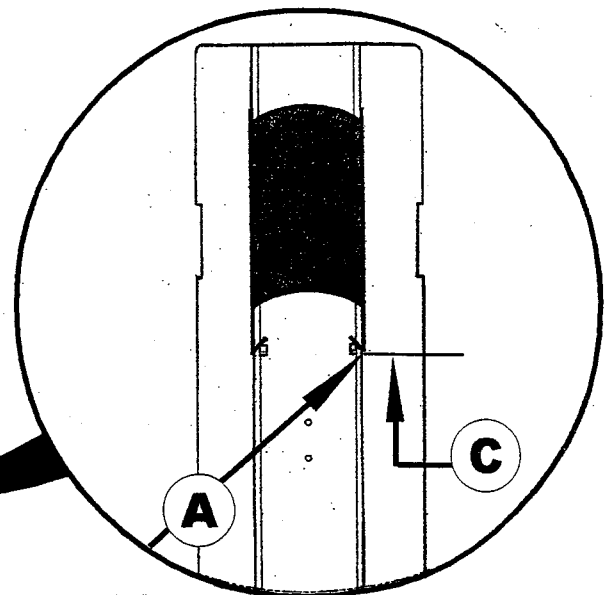
Note:

Check length and "squareness" of strap assemblies across the pool as shown by the pictures to the right. Diagonal measurements must be the same from all points [within + or - .5" (1/2 inch)]; assemblies must be level in all directions.

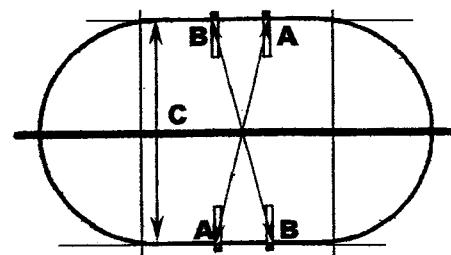
UPRIGHTS ARE STRAIGHT ALONG THIS LINE.



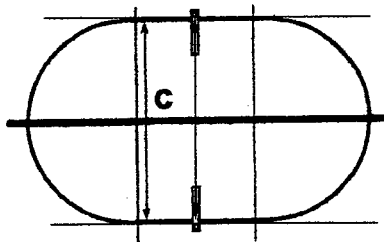
12' x 24' POOL



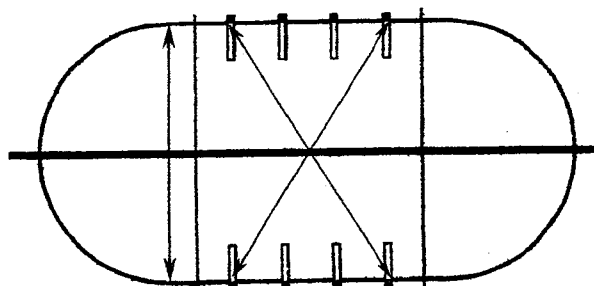
15' x 24' POOL



**8' x 12'
10' x 15'
12' x 18'
POOL**

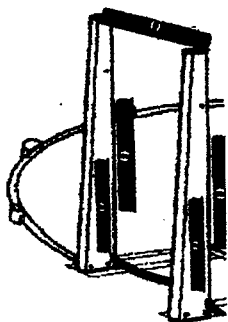


15' x 30' & 18' x 33' POOL



Note:

Check pool level in both directions with a line level as shown here. The pool must be level within + or - .5" (1/2 inch).



Step 6. ASSEMBLE UPRIGHTS/CURVED ENDS

A. The curved end section of your pool is made with three types of rims: straight rims (A), end rims (C) and transition rims (B) (see chart on next page). The straight rims measure 41" long transition rims measure 42.5" long and the end rims are longer but vary in length depending upon your pool size (see chart on next page)

B. The transition rims are used next to the side supports and the end rims are used to complete the semicircle. Reference chart on next page. Snap the rims into the bottom plates engaging all tabs as shown in Figure 11. Where rims meet the side supports, insert rims into the connector at the base of the side support.

C. Using your tape measure make sure the distance from "B" to each bottom plate is equal (Fig. 9). This will ensure that the curved ends of your pool are round.

D. Insert concrete blocks at each bottom plate - blocks must be flush with the ground surface at the top of the block and level in all directions. Blocks must be level with each other and to the top of the Omega side support structure. (Figure 12)

E. Check level of your pool frame. It is not difficult to make adjustments now. Spending a few extra minutes now may save you hours of unnecessary work later. It is also important to recheck the pool for roundness again as shown in Step C above.

Hint: All sand should be placed inside the pool area before installing the pool wall.

Foot Plate and Rim Installation

1 *footplate*

2 *foot plate and rim (bottom view)*

1 Push the rim through the foot plate behind the lip until it stops.

2 Pull the rim in the opposite direction. The tab on the foot plate will lock into the slot on the rim.

Follow steps 1 and 2 for each foot plate installation.

If the tab breaks off the foot plate while installing the rim, continue the installation.

NOTE: The tab of the bottom plate is NOT a structural part of the pool.

POOL SIZE	DISTANCE B	APPROX. RIM TO RIM MEASUREMENT A	POOL SIZE	DISTANCE B	APPROX. RIM TO RIM MEASUREMENT A
8' x 12'	4'	.875"	15' x 24'	7'6"	1"
10' x 15'	5'	.875"	15' x 30'	7'6"	.25"
12' x 18'	6'	1"	18' x 33'	9'	1.375"
12' x 24'	6'	.5"			

FIG. 9

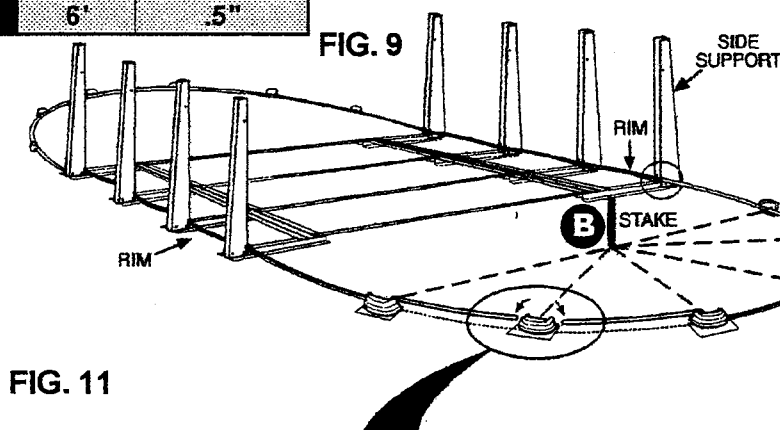


FIG. 11

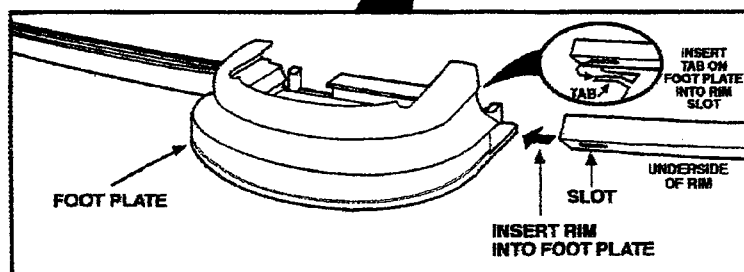
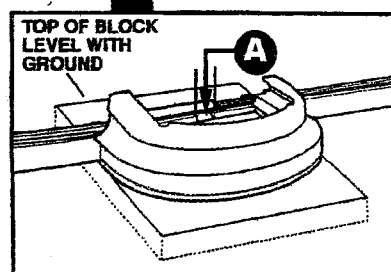
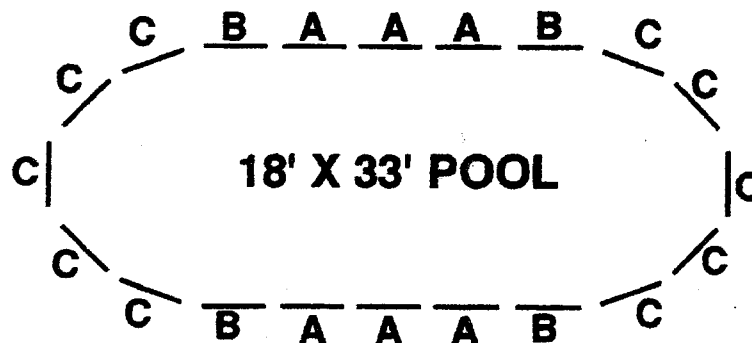
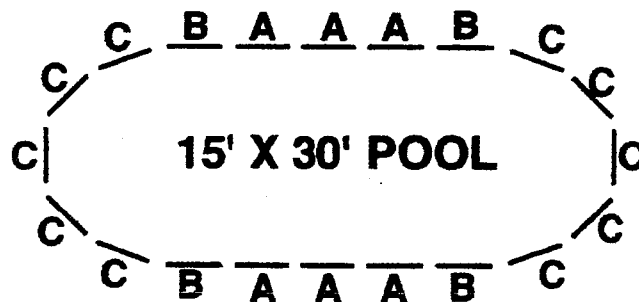
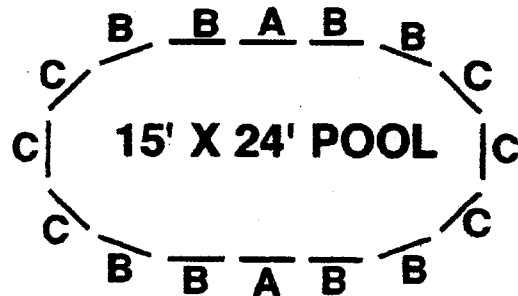
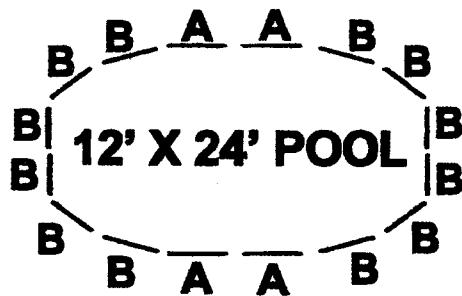
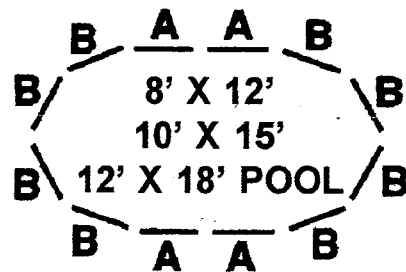


FIG. 12



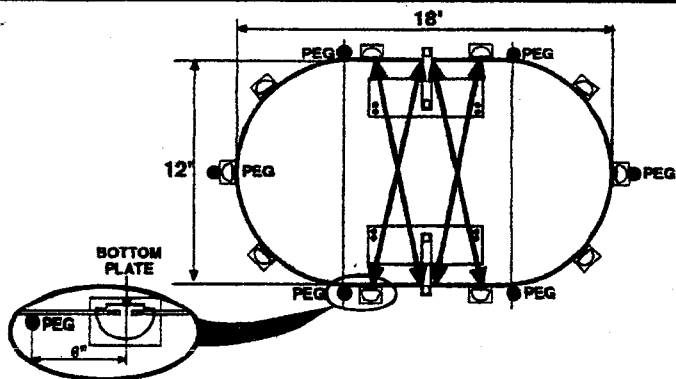
BOTTOM RIM LAYOUT

POOL SIZE	BOTTOM RIM LAYOUT		
	A	B	C
8' x 12'	35"	31.75"	
10' x 15'	42.5"	39.5"	
12' x 18'	52.250"	46.750"	
12' x 24'	41"	45.00"	
15' x 24'	41"	42.5"	56"
15' x 30'	41"	42.5"	48.5"
18' x 33'	41"	42.5"	58.5"

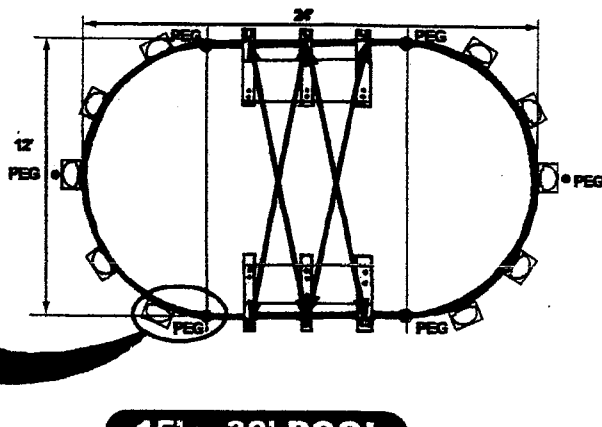


Check pool in diagrams shown below to insure consistent measurements between like points shown by arrows.

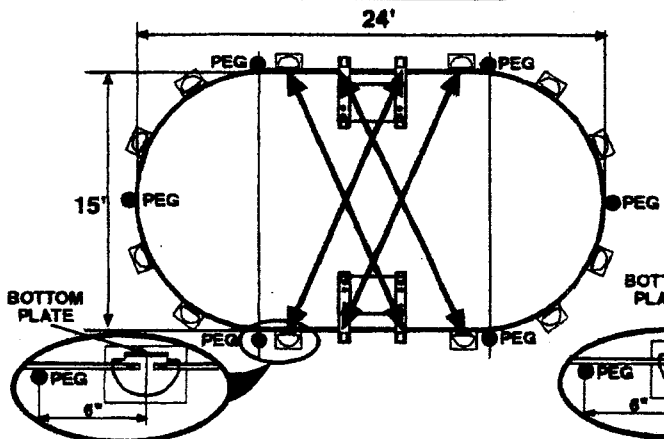
8' x 12', 10' x 15' and 12' x 18' POOL



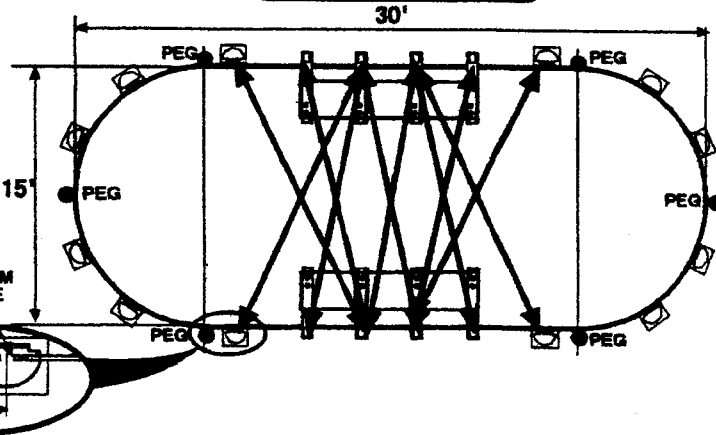
12' x 24' POOL



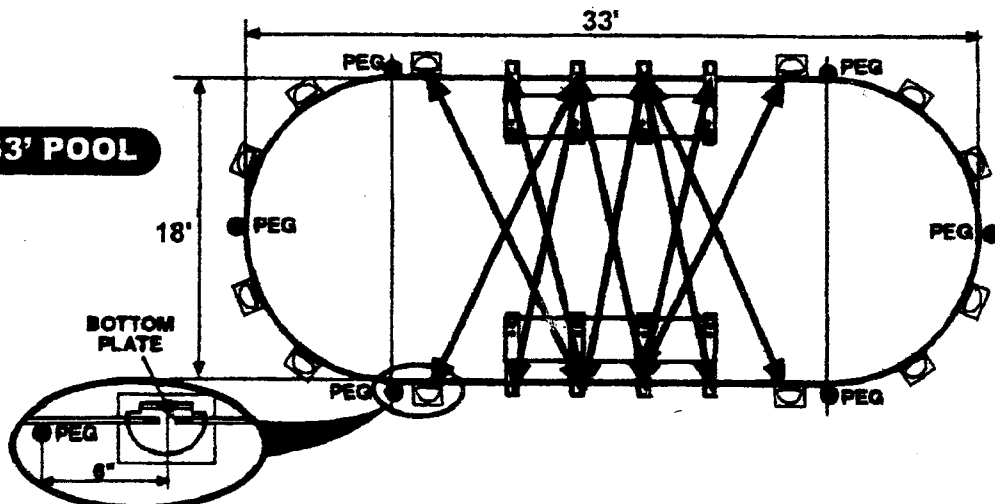
15' x 24' POOL



15' x 30' POOL



18' x 33' POOL



Step 7. INSTALL POOL WALL

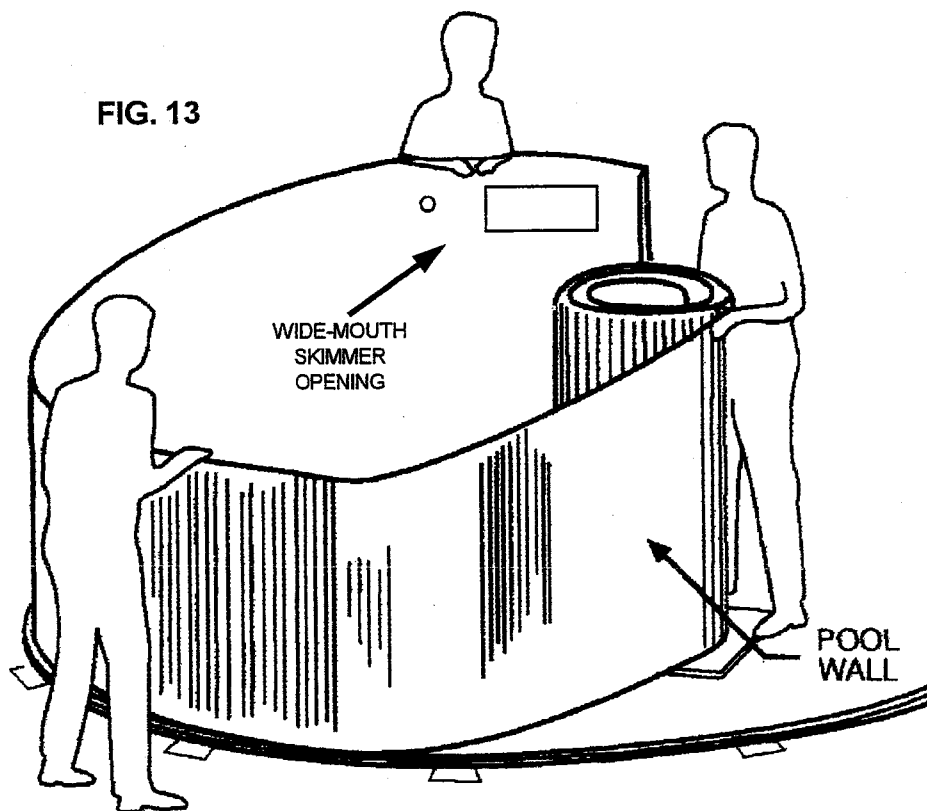
HELPFUL HINT

It is best to have several helpers stabilize the pool wall during installation. If you are not able to get any "extra hands" you may use "S" hooks, cord, and stakes instead. Make sure you place some duct tape on the "S" hooks to prevent them from scratching your pool wall.

⚠ WARNING

WALL CAN UNCOIL ABRUPTLY WHEN BANDS ARE CUT. MAKE SURE YOU HAVE A FIRM GRIP ON THE WALL BEFORE CUTTING BANDS.

FIG. 13



Note, prior to installation of your pool wall, it is important to note for best skimming results, filter/skimmer must be located on either end of the oval pool.

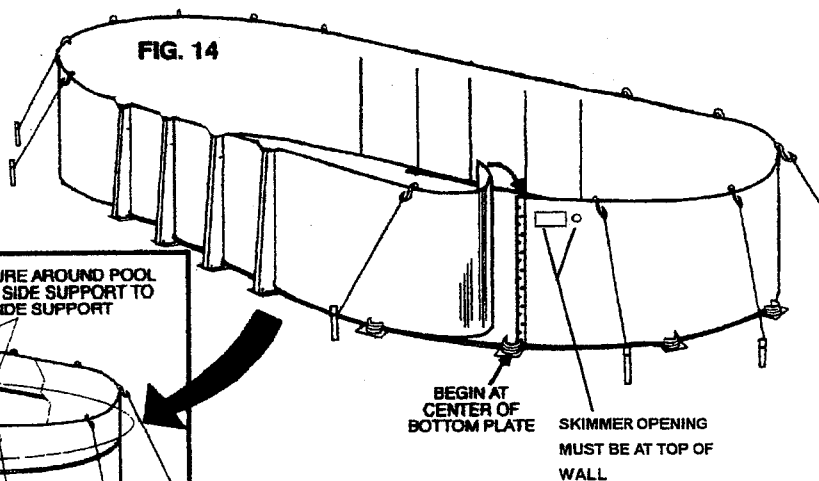
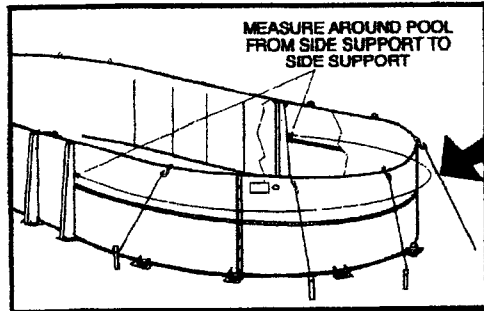
- a. Set coiled pool wall on a 2'X2' cardboard inside the pool area (FIG. 13). Make sure the wide-mouth skimmer opening is at top of wall.
- b. The wide-mouth skimmer knockouts begin approximately 7" from the beginning of the pool wall. Begin wall installation at the foot plate 12" from where your filter will be located.
For best skimming results, filter should be located on either end of the oval pool

As wall is uncoiled, guide the bottom edge into the rim groove until wall ends overlap and the holes align. If ends overlap too much, gently nudge rims toward outside of pool. If ends do not meet, gently nudge rims toward inside of pool (FIG. 14).

- c. As you are joining the wall ends, attach the reinforcing bars on the outer sides of the pool wall using the 5/8" machine screws and hex nuts as shown in Fig. 15 - insert screws from inside of pool. Nuts and washers **MUST** be on outside (FIG. 15). To eliminate burrs on screw heads, hold screws in place with a screwdriver and then turn the nuts to tighten. Tighten the nuts to a minimum torque of 70 inch pounds. File off any burrs on screw heads and cover the inside wall joint with heavy tape.

Step 7. INSTALL POOL WALL CONT'D...

FIG. 14-A



⚠ WARNING

POOL WALL MUST BE INSTALLED WITH ONE REINFORCING BAR ON THE INSIDE AND ONE ON THE OUTSIDE. FAILURE TO INSTALL BOTH BARS AS SHOWN WILL CAUSE COLLAPSE OF POOL!

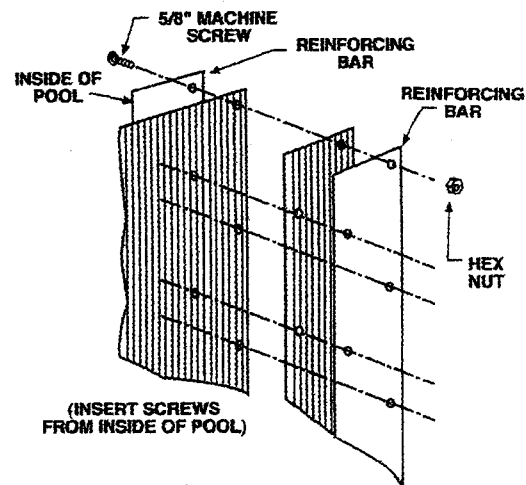
Tighten all nuts - do not omit any screws in wall joint.

Check the entire substructure for sharp edges or corners. These areas must be covered with heavy cloth or duct tape.

Pool must be level. Check pool level at several locations. If level varies 1" or more dismantle the pool wall and re-level the entire bottom framework.

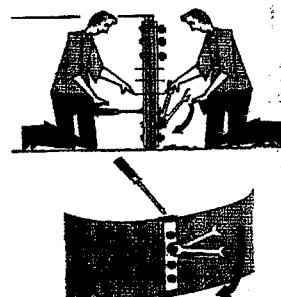
Balancing the pool wall. It is important to have your pool wall in evenly to ensure the proper fit of the top ledges. To do this you must measure from the last side support around the perimeter to the side support on the opposite side. Then do the same to the other end of the pool, make sure the two measurements are equal within + or - .5" (1/2 inch). If they are not, adjust the wall accordingly. (See Fig. 14-A).

FIG. 15



⚠ CAUTION

DO NOT USE PLIERS TO TIGHTEN WALL BOLTS. USE BOX END OR OPEN END WRENCH TO TIGHTEN ALL BOLTS SECURELY. IMPROPER WALL ASSEMBLY MAY CAUSE POOL TO COLLAPSE WHEN FILLED WITH WATER.

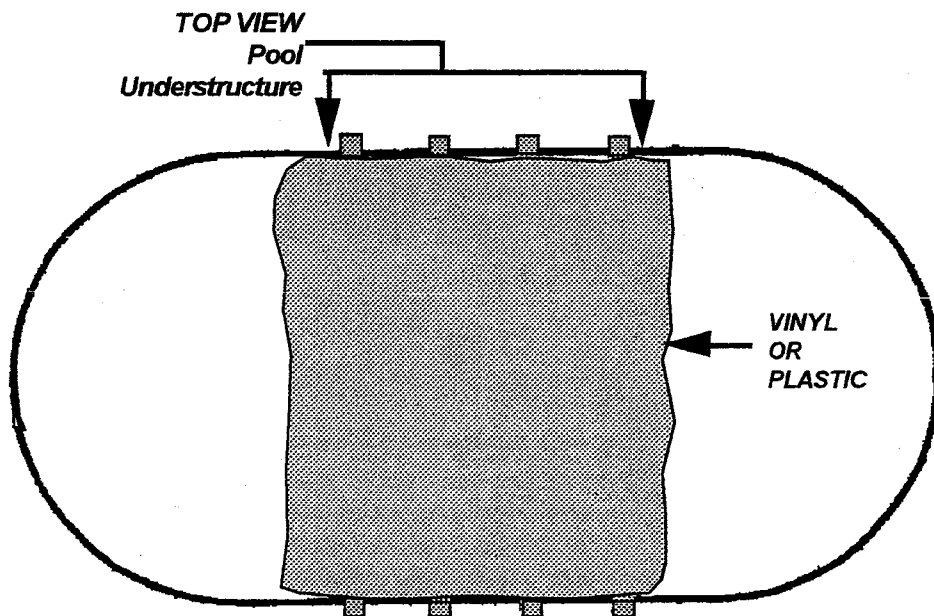


IMPORTANT:

Follow these steps before adding sand to pool bottom or building cove.

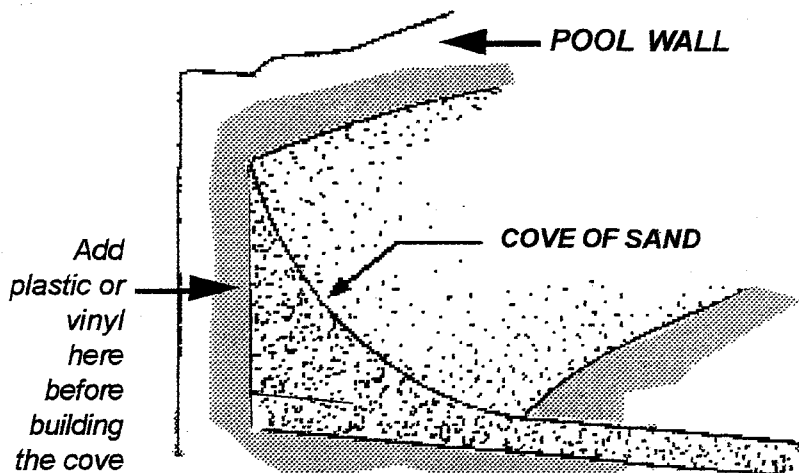
1.

COVER THE POOL UNDERSTRUCTURE WITH VINYL OR PLASTIC. THIS WILL HELP PREVENT SAND DISPLACEMENT WHICH MAY EXPOSE THE LINER TO THE UNDERSTRUCTURE OF THE POOL AND DAMAGE THE LINER.

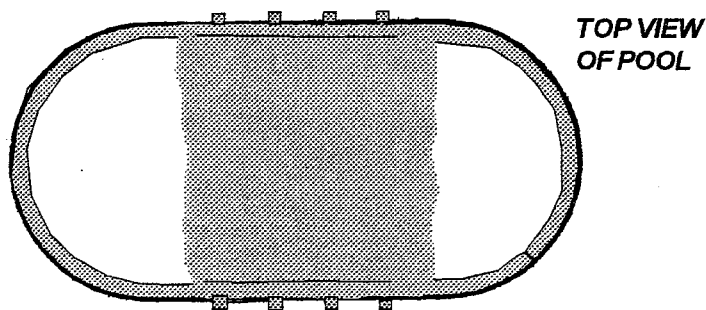


2.

COVER THE WALL AND POOL FLOOR AREA WITH VINYL OR PLASTIC (APPROXIMATELY 12" IN WIDTH) BEFORE BUILDING A COVE AROUND THE POOL. THIS WILL HELP TO PREVENT SAND LOSS AND THE POOL LINER FROM GOING UNDERNEATH THE POOL RIMS WHICH MAY DAMAGE THE LINER.



Cover the pool understructure and wall area with vinyl or plastic as shown here. Follow the instructions on page 22 to build a cove and add layer of sand to pool bottom.



Step 8. BUILD A COVE AROUND INSIDE BASE OF POOL

- a. For a U-Bead liner, build a 5" cove of firmly packed masonry sand around the inside base of the pool frame (FIG. 16). USE DAMPENED SAND ONLY! DO NOT USE PEAT MOSS OR ANY TYPE "POOL BASE" MATERIAL. The cove is absolutely necessary as it prevents the liner from creeping underneath the wall and rupturing.

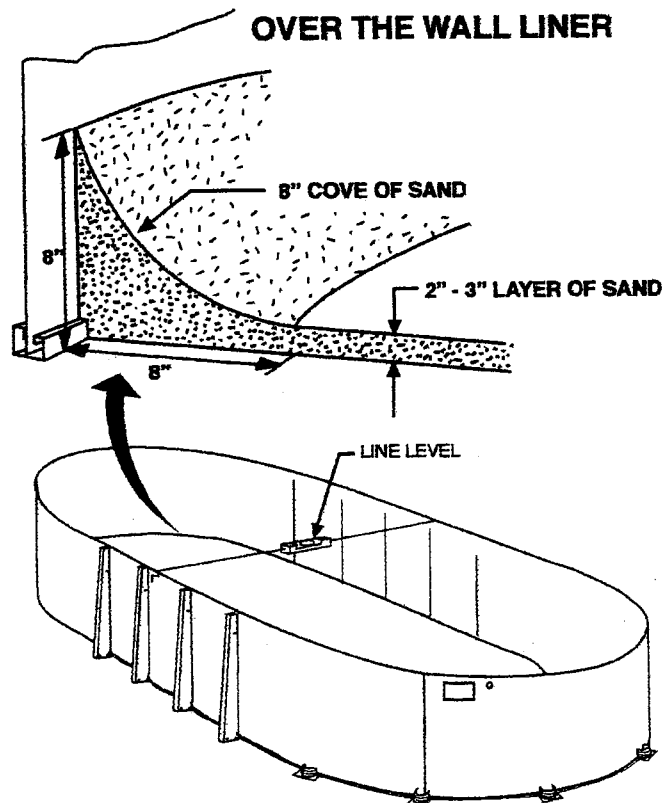
FOR AN OVER THE WALL LINER: Use an 8" cove if using an over the wall liner (FIG. 16).

NOTE: Commercially manufactured pool coving may be substituted for sand providing it does not contain ionomer foams (These materials are not compatible with PVC). Should you have any questions please consult your pool dealer or the pool cove manufacturer for the material composition of the coving.

- b. Spread a 2" - 3" layer of sand over the entire pool area and tamp down or use a lawn roller if available (FIG. 16).
- c. Periodically check the base of your pool to be sure the cove is firmly packed.
- d. After tamping or rolling pool base, use the push broom to smooth out the lines or foot prints in the pool base.

IMPORTANT: Certain types of commercial substances referred to as "Pool Base" can cause damage to your pool liner. This manufacturer will not be responsible for damage resulting from the use of such materials.

FIG. 16



BE SURE:

The cove is a vital structural element of your pool. DO NOT OMIT!
Check that the pool is level

Step 9. INSTALL LINER

NOTE: Refer to the instructions that came with your liner. If you are using an Ovation liner, the instructions are in the liner package.

a. When installing an over-the wall-liner (with no bead), place metal stabilizers over the coping as shown in Fig. 17. Gently tap each stabilizer into place with a rubber mallet or a block of wood. Install the 40" long stabilizers around the curved ends of the pool. Overlap each stabilizer as shown in Fig. 17; See chart below for approximate stabilizer overlap. For oval pools, install one stabilizer between each upright on the straight side. For a 15' x 24' pool, use two and overlap.

NOTE: Do not place stabilizers behind side supports! The stabilizers fit **BETWEEN** the side supports.

STOP! If you have installed a "HUNG" or "U-BEAD" liner, complete frame assembly steps 9 and 10 before adding water.

b. When installing a U-Bead Liner, install metal stabilizers over the bead as shown in Fig. 17-A.

c. **NOTE:** Before adding water, insure that marking stakes are still in place on the outside of the pool wall.

d. Start adding water; immediately begin smoothing out wrinkles as the weight of the water pushes the liner into place.

e. When water reaches about 16" in depth carefully measure the distance between the water level and the top ledge of the pool wall at several points. These measurements should not vary more than 1". If they vary more than 1" you must drain your pool and properly level it using the instructions in your pool owner's manual. **NOTE: If your pool is out of level, your warranty will be void and the manufacturer will not assume responsibility for any personal injury or property damage.**

f. Continue to fill with water as you assemble the remaining parts of your pool. If you have purchased a thru-the-wall skimmer, stop filling pool when the water level is 20" - 22" from the top of the wall. Refer to instructions packed with the skimmer for assembly of skimmer.

FIG. 17-A

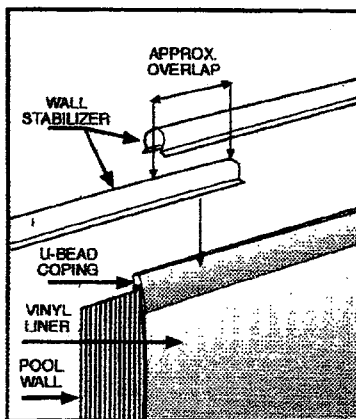
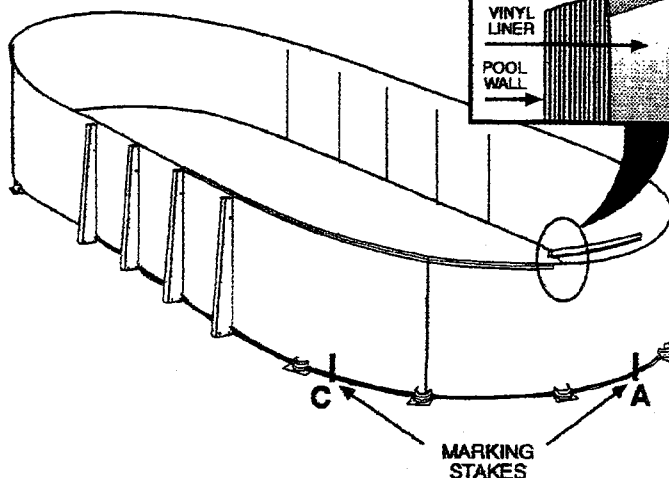
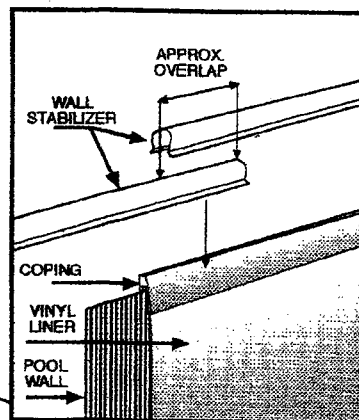


FIG. 17



POOL SIZE	APPROXIMATE DISTANCE TO OVERLAP STABILIZERS
8' x 12'	6-1/2"
10' x 15'	4-3/4"
12' x 18'	3"
12' x 24'	6"

POOL SIZE	APPROXIMATE DISTANCE TO OVERLAP STABILIZERS
15' x 24'	2"
15' x 30'	3-1/2"
18' x 33'	5"

CAUTION

Liner is heavy-do not attempt to install it yourself.

Pull liner gently-avoid sharp tugs.

Do not cut or trim edges of liner.

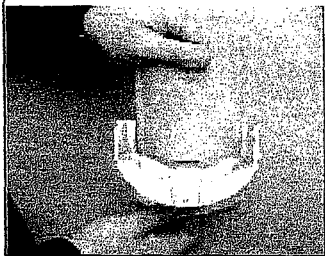
All seams must be straight.

The bottom round seam should be positioned evenly around the inside circumference of the pool.

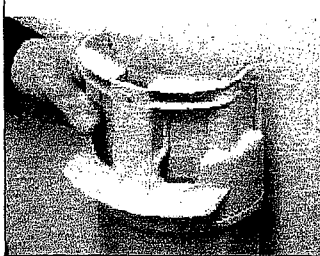
Prior to installation, do not leave the liner exposed to direct sunlight.

Step 10. ASSEMBLE/STRAIGHT

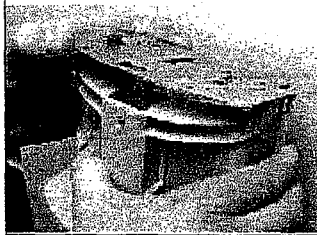
- 1** Insert the tab inside the upright.



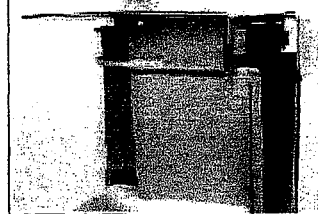
- 2** Rotate the collar against the upright.



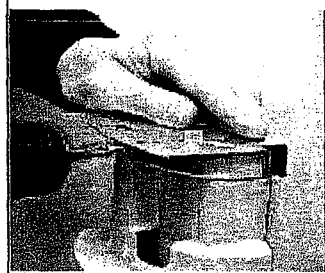
- 3** Install the top plate with the front lip in between the upright and the resin collar.



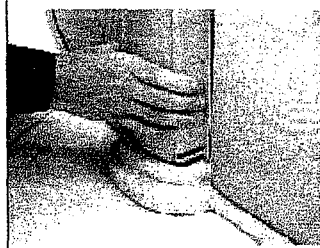
- 4** Make sure the back tabs are inside the slots in both sides of the top plate.



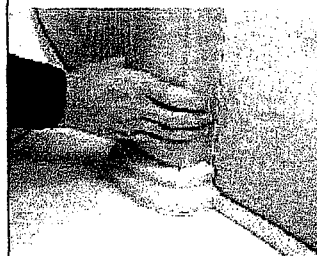
- 5** Attach using the screw.....



- 6** Squeeze the upright into the resin bottom plate.



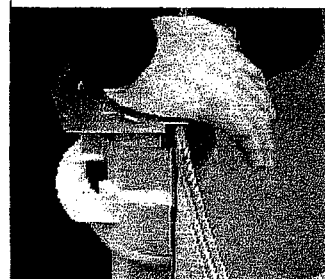
- 7** Don't snap up completely.



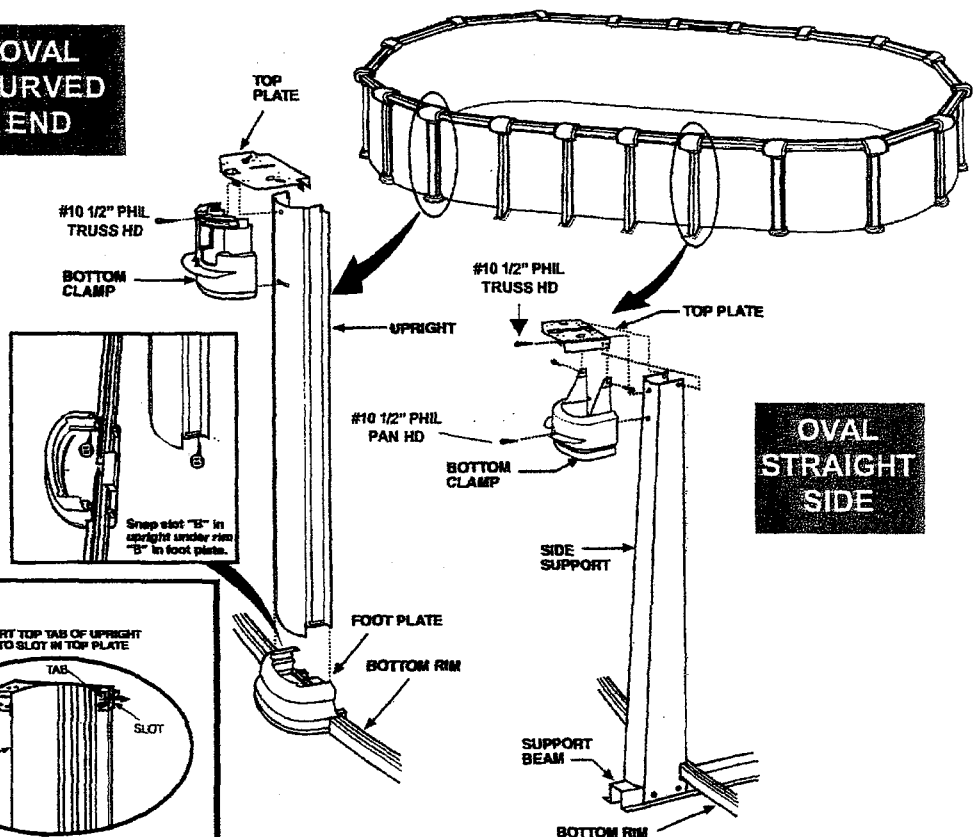
- 8** Make sure the back lip of the top plate is behind the stabilizer and press down.



- 9** You will hear the snap on the bottom of the upright and then the top plate becomes flush with the stabilizer.



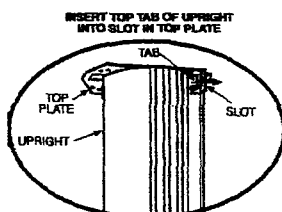
**OVAL
CURVED
END**



**OVAL
STRAIGHT
SIDE**

HELPFUL INSTALLATION HINT:

Once you have installed the top plate to the upright, use thin nose pliers to bend the tabs. This extra step will keep the upright and top plate locked together adding stability to your pool.



Step 11. **INSTALL TOP LEDGES**

FIG. 19

TOP LEDGE - 15' THRU 18' POOLS

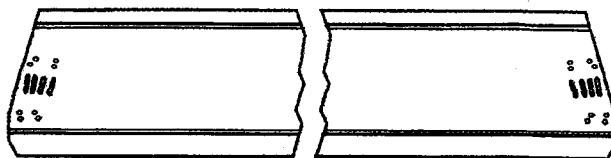


FIG. 20

TOP LEDGE - STRAIGHT SIDE

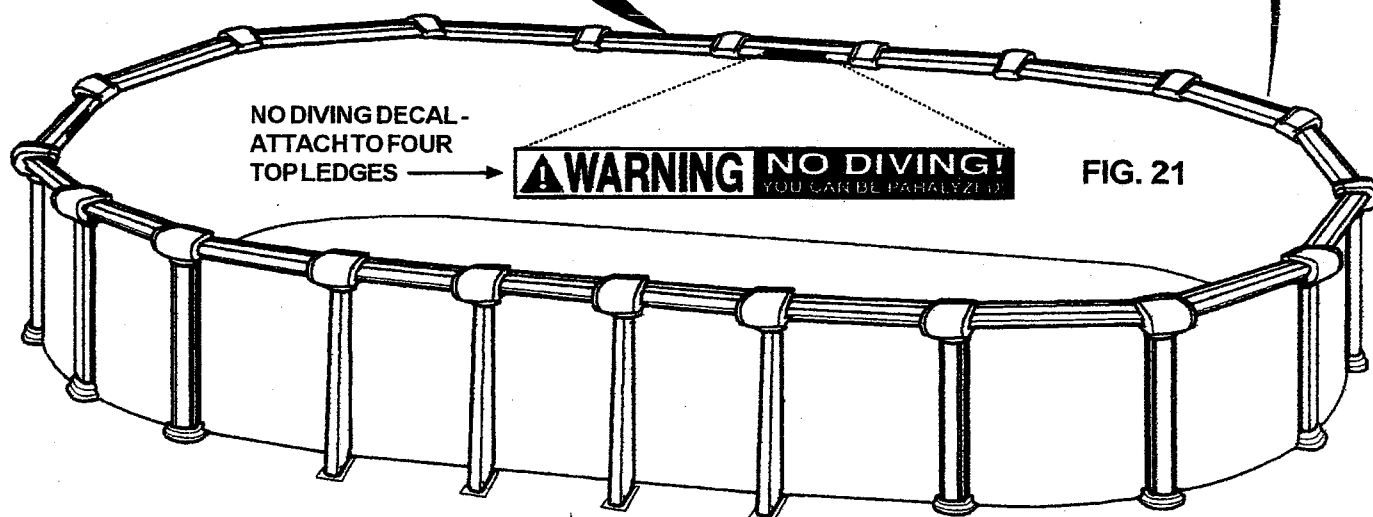
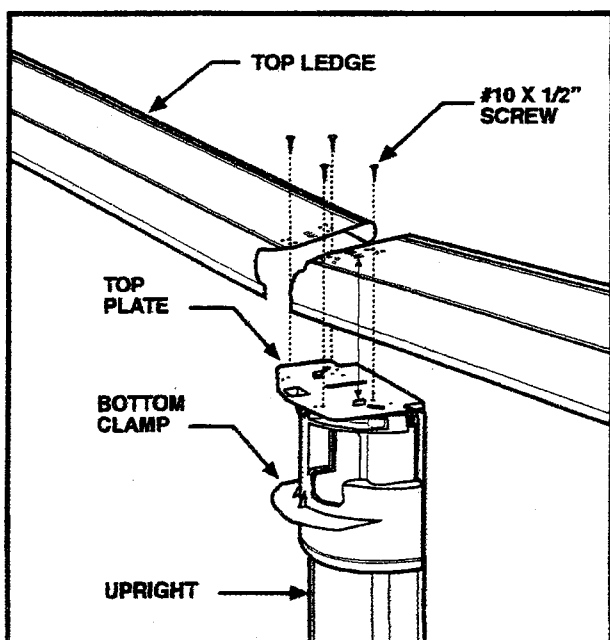


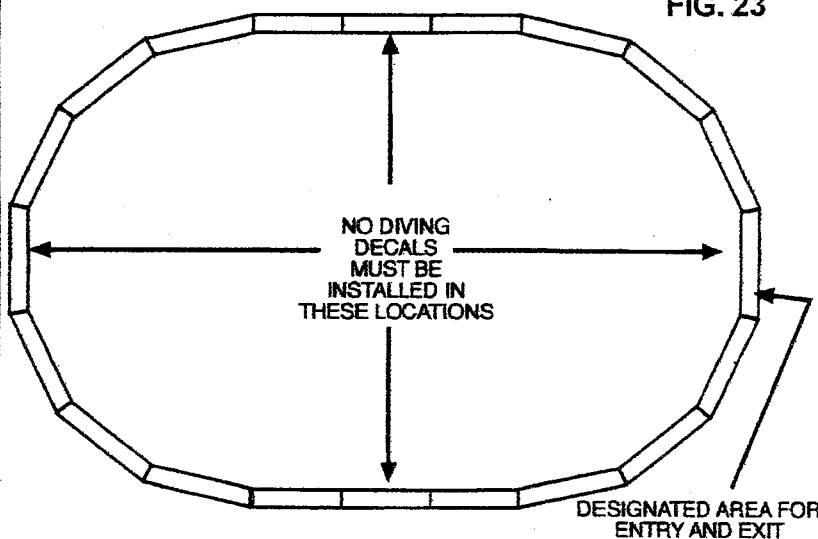
FIG. 21

FIG. 22



TOP VIEW

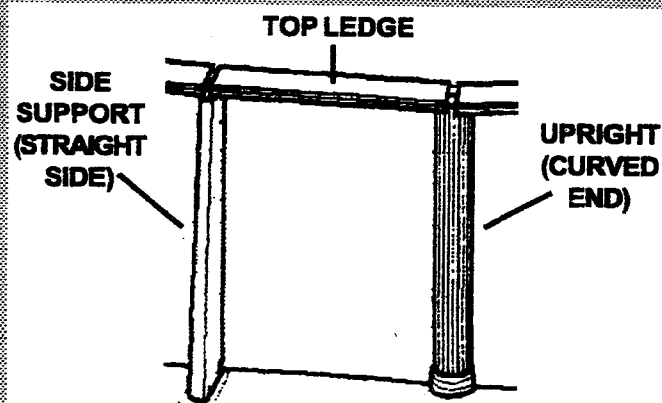
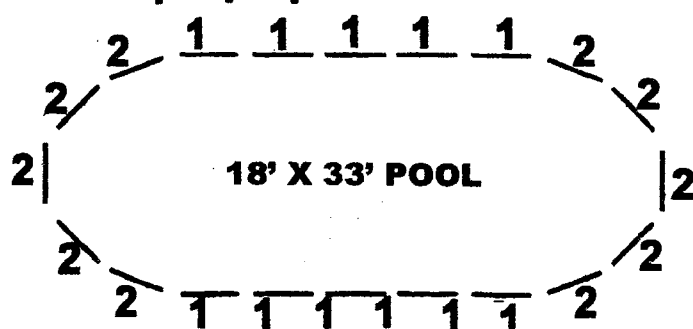
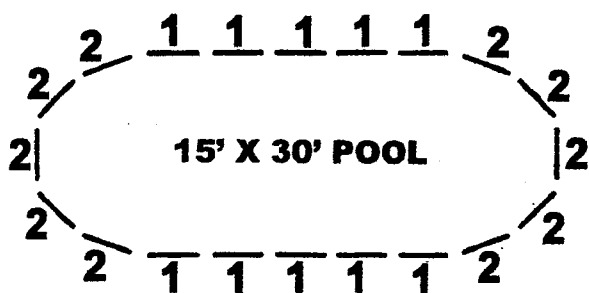
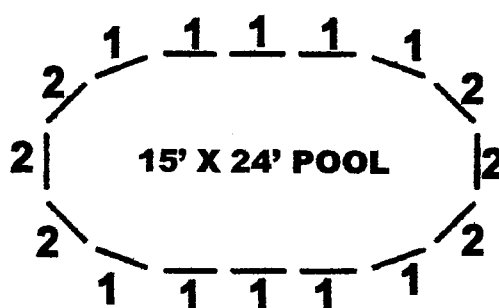
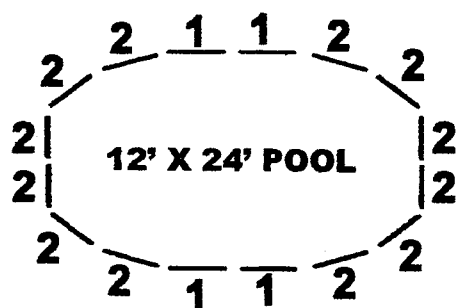
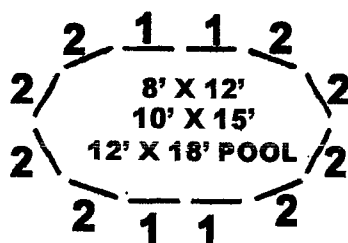
FIG. 23



Step 11. INSTALL TOP LEDGES (CONTD.)

POOL SIZE	TOP LEDGE LAYOUT	
	1	2*
8' x 12'	35.219"	31.50"
10' x 15'	42.135"	40.750"
12' x 18'	51.906"	47.500"
12' x 24'	42.135"	45.500"
15' x 24'	42.135"	55.570"
15' x 30'	42.135"	48.500"
18' x 33'	42.135"	58.750"

***Use tab marks on top ledges according to pool size (FIGURES 19 and 20)**



For all size pools, the top ledges may need to be drilled for mounting between the straight side (marked #1) and curved end (marked #2). These ledges are located between last side support (straight side) and first upright (curved end). See top ledge layout diagram above and Fig. 22.

Step 12. INSTALL NO DIVING DECALS

Place "NO DIVING" decals on the top ledges (Figures 21 and 23). Place one of these decals at the entry/exit of your pool (Figure 23). Place the second decal directly across the pool from the entry/exit location (Figure 23). Place the remaining two decals at 90° to entry/exit as shown in Figure 23.

When pool is filled with water to correct skimmer level, install the two NO DIVING warning decals which you set aside earlier.

- Apply decals to the liner just above the maximum water level and just below the top ledge.
- Install one decal at the entry/exit location. Install second decal directly across the pool from the entry/exit location (Figure 24).

Step 13. INSTALL NO DIVING SIGN

Your 9" x 11" NO-DIVING sign must be posted in plain sight near your pool entry/exit location to remind pool users of the importance of this safety information.

If you are not installing a fence or a deck on which to post your sign, you may attach it to the pool top ledge (Figure 24). Drill 1/8" diameter holes in the outside of the top ledge (adjacent to the entry/exit location) and fasten sign with the enclosed attachment wires.

FIG. 23

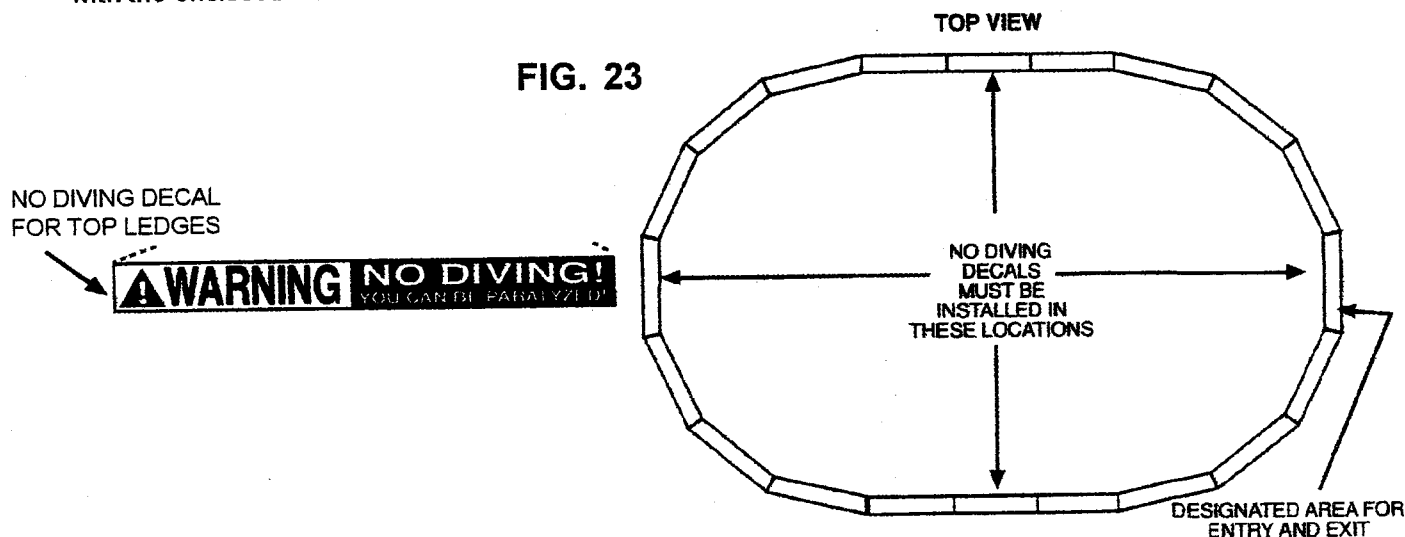
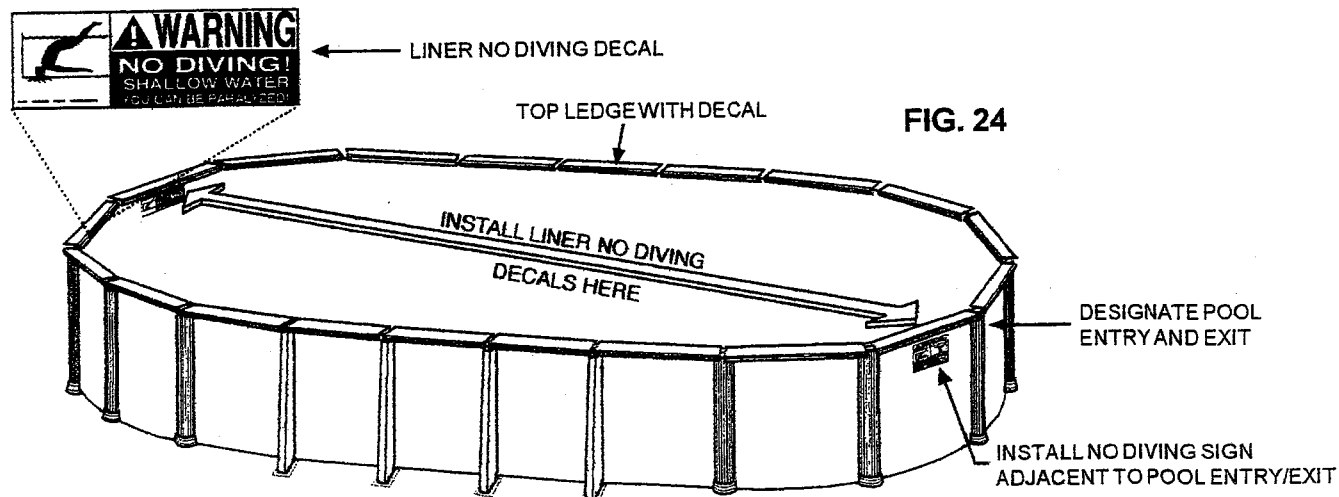


FIG. 24



Step 14. INSTALL LEDGE COVERS

Follow these instructions to install ledge covers.

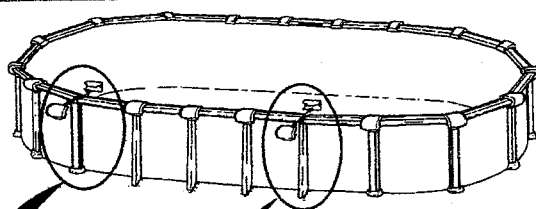


FIG. 25

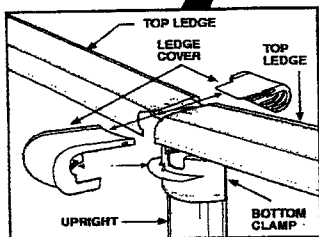
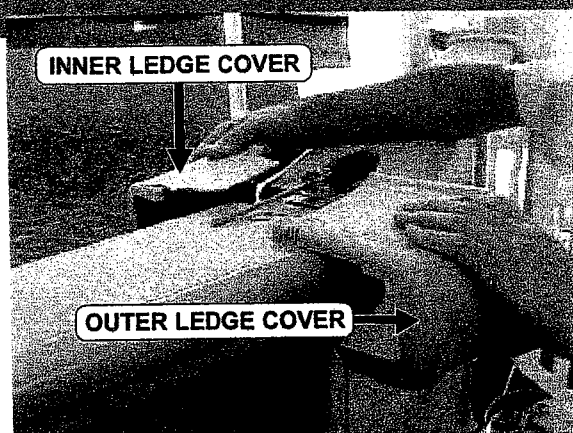
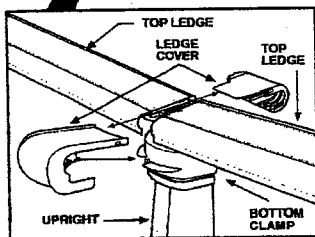
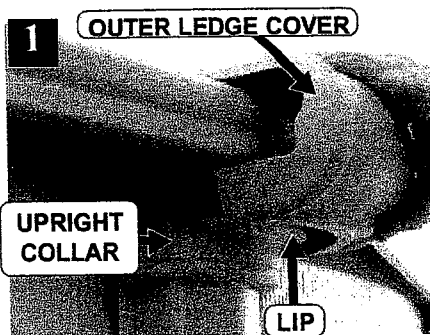


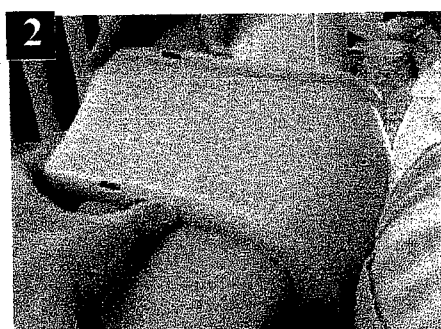
FIG. 26



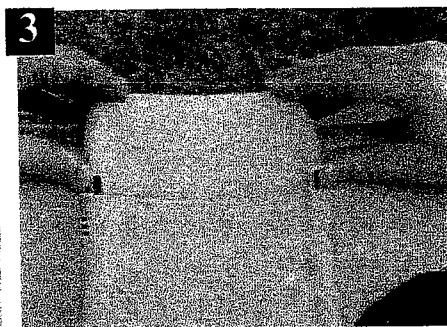
To install a ledge cover on your Portico upright, you need: an inner ledge cover #01072, an outer ledge cover #01071, a screw driver less than 1/4" FLAT BLADE



Make sure you insert the lip on the upright collar into the slot on the outer ledge cover.



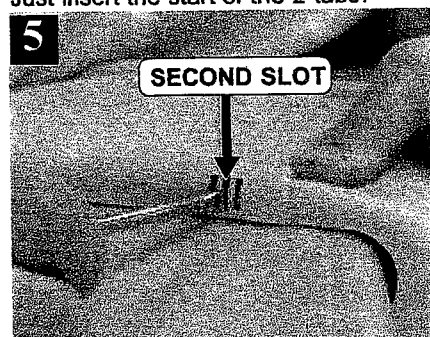
Place the inner ledge cover in line with the outer ledge cover. Use your body to maintain the outer ledge cover in place. Just insert the start of the 2 tabs.



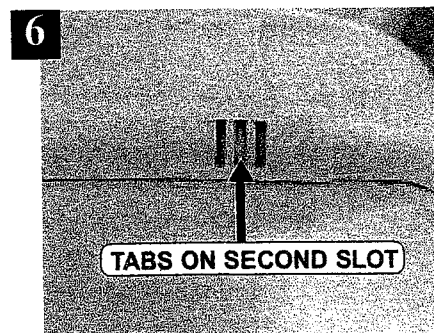
Push the tabs in, in order to engage the tabs on both sides.



Press the top outer ledge cover downward with your thumbs in order to catch the ribs located inside the outer ledge cover and then push the inner ledge cover in until you reach the first slots on each side (see next picture)

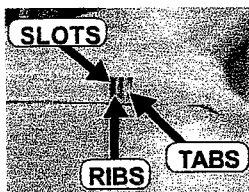


Using the screw driver, push the tab in gently in order to clear the rib. Push the inner ledge cover in until you reach the second slot.



Repeat the same operation again to reach the third slot if needed. If you want to remove the cover, make sure you use a screw driver to push the tabs in. You may break the ribs if you don't do so.

DON'T PUSH TO REACH THE SECOND SLOTS, YOU MAY BREAK THE RIBS



BE SURE: Follow all safety instructions in the special safety section packed with these assembly instructions. It is important to follow necessary health regulations concerning chlorination, circulation, and cleaning of your pool. This maybe done by using a filter and the proper chemical treatment procedures. Your pool dealer has a complete line of filters and accessories with complete instructions on their use. For further information on care, maintenance, and winterization of your pool, refer to pool care booklet. Be sure to follow all safety instructions in same booklet. Preserve the finish of your pool frame by waxing it at least twice a year.

Pool Maintenance

Your pool has a "winterized" liner which means you should never have to take the pool down or drain it. To get your pool ready for winter follow each of these important steps:

1. Winterizing Your Pool

- a. Vacuum and clean the pool. Remove and clean the filter system. Remove ladders and all movable objects from the pool area.
- b. Add chemicals according to manufacturer's recommendations for winterizing your pool. During cold months and with the pool covered, chemicals will last much longer than in summer and will give you winter long protection against algae and bacteria buildup.
- c. Lower the level of water 6" below the bottom of the thru-the-wall skimmer. Put winterizing cap (available from Customer Service) into thru-the-wall return fitting then install winter plate on skimmer. Check and readjust this level after any heavy precipitation. Remove filter and accessories excluding fittings which are attached to the pool, and store filter according to the instructions.
- d. Look at all painted metal parts for scrapes or scratches. Sand and paint these.
- e. Check the gaskets on all thru-the-wall fittings for leakage or deterioration. These gaskets may need to be replaced.
- f. Cover your pool with a winter cover to inhibit drownings and assist in pool maintenance. Use flotation pillows to raise the cover at the center to help drain off water, and keep leaves and other debris from gathering. (Cover must be tamper proof and meet CPSC Standard ES13.) **Never allow children to walk or play on pool cover. Entrapment or drowning may occur!**

2. How to Prepare Your Pool for Spring

- a. Use a leaf skimmer to remove debris.
- b. Reinstall the filter and run continuously. Watch pressure carefully and clean filter when necessary.
- c. Super Chlorinate immediately.
- d. Vacuum the pool.
- e. Test the water for pH balance.

3. General Maintenance

If you don't use a floating chemical dispenser or chlorine feeder, you must thoroughly dissolve the chemicals. This must be done outside the pool before you use them. Then pour slowly into the water as you walk around the pool. If chemicals are not dissolved first they can cloud the water. They can also shorten the filter cycle and damage the liner. The right pH and chlorine content are very important. Follow chemical manufacturer's instructions for proper use of pool chemicals.

Keep the filter running when adding chemicals. The only way to clean your pool is by filtering and using chemicals, NOT by draining your pool and

filling it again. Draining your pool completely may result in liner shrinkage.

Wax your pool - Your pool is exposed to corrosive conditions. Help preserve the finish by waxing the metal parts with a good automotive wax at least twice a year.

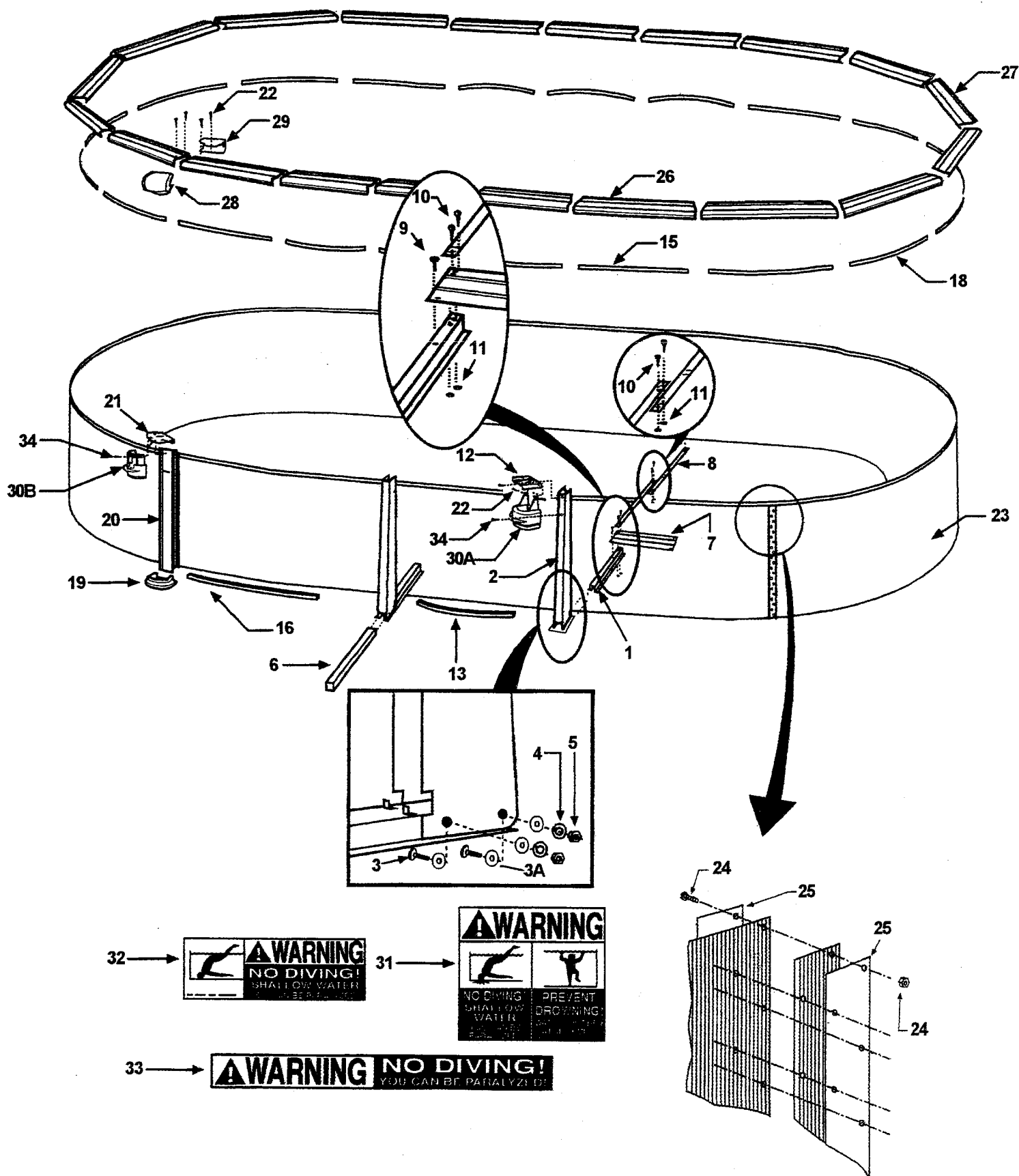
Periodically check wall at skimmer/return to make sure there are no leaks.

NOTE: The chemicals added to your pool is for sanitizing the water in your pool. The filter is used for cleaning the water in your pool.

Check the metal parts periodically for rust spots. If touch-up is required:

- a. Scrape any loose, flaking paint.
- b. Wipe any bare metal with turpentine or mineral spirits.
- c. Prime bare metal areas with an Anti-Rust primer, or equivalent.
- d. Topcoat with Anti-Rust enamel.

REPAIR PARTS OVAL POOLS



REPAIR PARTS OVAL POOL *Not shown

KEY NO.	8' x 12'	10' x 16'	12' x 18'	12' x 24'	16' x 24'	16' x 30'	18' x 33'	DESCRIPTION
1	P/N 07028 QTY 2	P/N 07028 QTY 2	P/N 07028 QTY 2	P/N 07028 QTY 6	P/N 07028 QTY 4	P/N 07028 QTY 8	P/N 07028 QTY 8	Omega Beam
2	07030 2	07030 2	07030 2	07030 6	07030 4	07030 8	07030 8	Side Support Taupe 48"
2	07032 2	07032 2	07032 2	07032 6	07032 4	07032 8	07032 8	Side Support Taupe 52"
3	74030 8	74030 8	74030 8	74030 16	74030 16	74030 32	74030 32	3/8-16 x 1" Bolts SS
3A	77013 16	77013 16	77013 16	77013 48	77013 32	77013 64	77013 64	400 ID .875 OD x .062 Flat Washers SS
4	77030 8	77030 8	77030 8	77030 16	77030 16	77030 32	77030 32	3/8 Lock Washers SS
5	75025 8	75025 8	75025 8	75025 16	75025 16	75025 32	75025 32	3/8 Hex Nuts SS
6	07029 2	07029 2	07029 2	07029 4	07029 4	07029 8	07029 8	Syfoam Block 44"
7	08033 4	08033 4	08033 4	08029 2	08029 2	08029 6	08029 6	Spacer Plate
8	08032 1	08034 1	08035 2	08035 6	08030 4	08030 8	08030 12	Bottom Strap
9	76530 2	76530 2	76530 2	76530 4	76530 4	76530 8	76530 8	#14 x 5/8" Self-Tapping Screws SS
10	76035 4	76035 4	76035 4	76035 12	76035 12	76035 24	76035 32	5/16-18 3/4" Truss Head Machine Screws
11	75015 4	75015 4	75015 4	75015 12	75015 12	75015 24	75015 32	5/16-18 Hex Nuts SS
12	03018 2	03018 2	03018 2	03018 6	03018 4	03018 8	03018 8	Top Plate (Center Support)
13				05254 4	05254 2	05254 6	05254 6	Bottom Rim Taupe (Center Support)
14	05186 2	05186 2	05186 2	05186 6	05186 4	05186 8	05186 8	Rim Connector
15		05076 4	05077 4	05077 4	05077 4	05077 8	05077 10	Top Stabilizer (Center Support)
16	05269 4	05270 4	05272 8	05944 12	05270 8	05270 4	05270 4	Transition Rim Taupe (Curved End)
17	05307 8	05271 6	05273 8	05944 12	05274 6	05275 10	05277 10	End Rim Taupe (Curved End)
18	05074 10	05075 14	05076 12	05077 14	05077 16	05077 16	05078 20	Top Stabilizer (Curved End)
19	04013 10	04013 10	04013 10	04013 10	04013 12	04013 12	04013 12	Bottom Plate Taupe
20	10137 10	10137 10	10137 10	10137 10	10137 12	10137 12	10137 12	Curved End Upright Taupe 48"
21	03019 10	03019 8	03019 10	03019 10	03019 12	03019 12	03019 12	Curved End Upright Taupe 52"
22	76511 66	76511 96	76511 96	76511 128	76511 128	76511 160	76511 160	Top Plate (Curved End)
23	** 1	** 1	** 1	** 1	** 1	** 1	** 1	#10 1/2" Phil Truss HD
24	35184 1	35184 1	35184 1	35184 1	35184 1	35184 1	35184 1	Wall
24	35043 1	35043 1	35043 1	35043 1	35043 1	35043 1	35043 1	Wall Bolt Pack 48"
25	09027 2	09027 2	09027 2	09027 2	09027 2	09027 2	09027 2	Wall Bolt Pack 52"
25	09020 2	09020 2	09020 2	09020 2	09020 2	09020 2	09020 2	Reinforcing Bar 48"
26	02250 4	02251 4	02253 4	02255 4	02255 10	02255 10	02255 10	Reinforcing Bar 52"
27	02246 8	02252 8	02254 8	02275 12	02256 6	02257 10	02258 10	Top Ledge Straight/Transition Taupe
28	01071 12	01071 12	01071 12	01071 16	01071 16	01071 20	01071 20	Top Ledge Curved End Taupe
29	01072 12	01072 12	01072 12	01072 16	01072 16	01072 20	01072 20	Outer Ledge Cover Taupe
30A	01073 10	01073 10	01073 10	01073 10	01073 12	01073 12	01073 12	Inner Ledge Cover Taupe
30B	01074 2	01074 2	01074 2	01074 6	01074 4	01074 8	01074 8	Bottom Ledge Cover Taupe
31	96001 1	96001 1	96001 1	96001 1	96001 1	96001 1	96001 1	Bottom Clamp (Curved End)
32	96002 2	96002 2	96002 2	96002 2	96002 2	96002 2	96002 2	Bottom Clamp (Straight Side)
33	96005 4	96005 4	96005 4	96005 4	96005 4	96005 4	96005 4	"No Diving" Sign
34	76044 2	76044 2	76044 2	76044 6	76044 4	76044 8	76044 8	Decal - "No Diving" Wall & Liner
*	97200 1	97200 1	97200 1	97200 1	97200 1	97200 1	97200 1	Decal - "No Diving" Top Ledges
								#10 1/2" Phil Pan HD
								Owner's Manual

NOTES:

Zodiac American Pools, Inc.

265 Industrial Blvd., Midway, GA 31320

800-338-1013

E-Mail: msservice@zap.zodiac.com

Website: <http://www.zodiacamericanpools.com>

WHEN ORDERING REPAIR PARTS ALWAYS GIVE THE FOLLOWING INFORMATION:

***PART NUMBER* *PART DESCRIPTION* *NAME OF ITEM* *MODEL NUMBER* *POOL SIZE*
*DATE PURCHASED***

