

TUFF POOLS

RECTANGLE ASSEMBLY

Positioning

To ensure maximum enjoyment and efficiency, consider the following steps when selecting the desired location of your pool.

- Select a location that receives maximum sunlight for increased heat and extended use.
- Select a location with as little wind exposure as possible to minimize heat loss.
- Be aware of the amount of trees and shrubbery around your pool to limit the amount of debris.
- Select a location with accessibility to water and electric sources.
- Consider privacy when selecting a location.

Ground Preparation

NOTE: PLEASE REVIEW THE ATTACHED REFERENCE SHEET (#1) FOR POTENTIAL “**SOFT GROUND**” INSTALLATIONS.

- The surface the pool is to be assembled on, must be firm and level. The pool must be installed as level as possible, within 2”- 3” of level (from the highest point to the lowest point of the pool). If you are going to be 2”– 3” off level, be sure to install the skimmer on the lower side to ensure you skimmer will not suck air into the pump.
- If the ground is not level, take the earth from the high side of the surface; do not add earth to the lower area of the surface.
- Once the surface is level, clear any debris or sharp objects that may be uncomfortable to walk on, or could potentially puncture the liner. A foam flooring may be added under the liner for additional comfort. *See your dealer for details.*
- The supporting legs (Struts-G) burden much of the weight of the pool and may need additional support in “soft ground” installations, or in areas that may experience excess ground water. A 2”x 8” x 22” piece of pressure treated lumber installed under each support leg and leveled with the ground is very effective. Make sure the entire base of each leg (strut G) is on the 2” x 8” lumber; any over-hang may result in bending of the leg. A concrete slab (not a paver) of the similar dimensions may be used as well. Please note that any support(s) added under the pool structure must be sunk so that the top of the support is level with the ground surface. Lifting the struts or frame in any manner may cause excessive stress on the liner and frame, and may void the pool warranty. (See Attachment #1 or visit Tuffpools.com, click on Assembly, then click on Tips for a picture of this procedure)

Parts For Assembly

Your pool is comprised of various parts according to the size and model selected. Therefore, before proceeding with installation, ensure that all necessary parts are present and group like parts.

Items included:

| Description | Quantity |
|-------------------------------|---|
| (A) Liner | 1 |
| (B) Top 130 cm straight tubes | see next page for quantity |
| (C) Top 60 cm straight tubes | 4 |
| (D) Top corner tubes | 4 |
| (E) Bottom corner tubes | 4 |
| (F) Straight bottom tubes | (same as B) see next page for quantity |
| (G) Struts | (equal to B+C) see next page for quantity |
| (*) Vinyl bag with directions | 1 |

Pool Assembly

- Unfold and spread out liner (A) on prepared area.
- Align the legs (G) with cut outs at top of liner.
- Connect bottom tubes (F) to struts (G) one at a time. Remember to feed the corner bottom tubes (E) through the straps before connecting.
- Connect the (B) and (C) tubes together according to your specific model (refer to model chart on next page for details)
- Please note that the (C) tube (shorter tube) is always the last tube on the right when facing the pool wall. See fig. 1.
- Feed the connected tubes into the corresponding sleeves of the liner. Remembering to align top rail slots with matching cut outs in liner. Align slots in top rail with corresponding struts (G) and insert.
- Insert and connect the top corner tubes (D). It may be helpful to insert both ends of corner tube (D) into the corresponding liner sleeves, followed by pulling back and connecting one side at a time to top rail.
- Ensure all tubes are connected correctly and that the struts are perfectly aligned.
- Refer to your Installation Video for more details on this procedure.

Model Charts

| <u>Pools</u> | <u>Long Side</u> | <u>Short Side</u> |
|---------------------|-------------------------|--------------------------|
| 9x13 | B+B+C | B+C |
| 9x17 | B+B+B+C | B+C |
| 9x21 | B+B+B+B+C | B+C |
| 13x17 | B+B+B+C | B+B+C |
| 13x21 | B+B+B+B+C | B+B+C |
| 13x25 | B+B+B+B+B+C | B+B+C |
| 13x31 | B+B+B+B+B+B+C | B+B+C |
| 13x47 | B+B+B+B+B+B+B+B+B+C | B+B+C |
| 17x31 | B+B+B+B+B+B+C | B+B+B+C |
| 17x34 | B+B+B+B+B+B+B+C | B+B+B+C |

Skimmer Assembly

- Slip skimmer gasket onto each side of the supporting pocket, making sure to align the holes with each other.
- Put the skimmer into the pocket with the throat against the gasket.
- Align and place the frame on the outside of the gasket and affix by using provided screws.
- Snap in Weir door, add basket and push the lid into place. Only use the included skimmer plate if using a Vacuum or Suction Cleaning system (i.e. Starfish, Aqua Bug, etc...)

Connecting Skimmer Wall Fitting (see Attachment #2)

***CUT ONLY INSIDE ROUND REINFORCED DESIGNATED AREAS OF THE LINER.**

- Cut out inner portion of the round welded gasket (#2) located under the skimmer. *(Note: On some models holes may be pre-cut and require little or no trimming to fit fitting #8 through the wall)*
- Push fitting (#8) thru the wall of the pool from the inside. **MAKE SURE TO USE A GASKET (#9)** on both sides of the wall of the pool. Secure the wall-fitting nut (#10) to (#8) now sticking out of the wall of the pool. Again, make sure to have a gasket (#9) on both sides. Tighten with a large pair of channel locks. Make sure the nut is very snug but do not over-tighten, as this may crack your fitting.
- Thread the male portion on the Male Adaptor (#3) into the bottom of the skimmer. (Use provided Teflon Tape on all threads)
- Thread the male portion of the threaded 90 (#5) into the wall fitting (#8). (Use provided Teflon Tape on threads)
- Press the connection pipe (#4) into the skimmer fitting (#3) then press the other end of the pipe into the lower fitting (#5). *Note: you may have to lift slightly on skimmer to make this connection.*
- Thread the provided slide valve (#11) into the wall fitting (#10) then; thread the male portion the threaded 90 (#5) into the slide valve (#11). (Use provided Teflon Tape on all threads)

Connecting Return Wall Fitting (see Attachment #3)

***CUT ONLY INSIDE ROUND REINFORCED DESIGNATED AREAS OF THE LINER.**

- Cut out inner portion of the round welded gasket (#2) located on the corner of the pool opposite the skimmer. *(Note: On some models holes may be pre-cut and require little or no trimming to fit fitting #8 through the wall)*
- Push fitting (#8) thru the wall of the pool from the inside. **MAKE SURE TO USE A GASKET (#9)** on both sides of the wall of the pool. Secure the wall-fitting nut (#10) to threaded portion now sticking out of the wall of the pool. Again, make sure to have a gasket (#9) on both sides. Tighten with a large pair of channel lock. Make sure the nut is very snug but do not over-tighten, as this may crack your fitting.
- Thread the provided slide valve (#11) into the wall fitting (#10) then; thread the male portion the threaded 90 (#5) into the slide valve (#11). (Use provided Teflon Tape on all threads)

Plumbing from Wall Fittings to Equipment

- Thread the two male adaptors (provided with the plumbing kit) into your equipment package. One into the pump pot the other on the return port of the filter.
- Cut the provided 25' of flexible PVC to length measuring from the skimmer fittings (#5) to the equipment and then from the return fitting (#5) to the equipment. Use the provided glue to secure to the fittings.

Placarding your pool

- Place the included (8) *no diving into pool/keep children supervised at all times* stickers on all four sides of your pool on the inside and outside top rail area of your liner, before using the pool.

Caring for your Pool

- Pre-dissolve all dry chemicals before putting them into the pool. Failure to do so may result in bleaching or damaging your liner.
- Keep water balanced within NSPI standards for vinyl liner pools (see your local pool and spa retailer for details).
- Do not leave pool set up while empty.
- Do not leave pool filled with water without proper chemical treatment and pool maintenance.
- Take pool down if in an area where harsh winter weather occurs.
- When storing your pool, thoroughly clean and dry liner and carefully roll up. Store your pool in a dry safe place. Always store the hard parts and the liner in separate boxes.

***NO DIVING* into pool!
Keep children supervised at *ALL* times!**