

MidnightSUN
hot tubs • pools • leisure

Above Ground Pool

Quick Reference Guide





Welcome to the Midnight Sun family! The following guide is to help you understand what's involved in building your new above ground pool.

Your above ground pool installation will require the following input from you.

1. To mark the desired location of the pool and equipment
2. To order the necessary sand for the size of your pool
3. To check with your local codes office for permits and other requirements

You can follow our "Before Installation Guide" to walk you through step-by-step. It can help answer questions you might have during the process.

Like any outdoor construction project, unforeseen circumstances may occur (*weather, scheduling, ground conditions, etc.*).

Our staff will reach out to you and schedule a day that is convenient for your installation within days of your finalized purchase.

If you have any questions, at any point in the process, please reach out to your local store's service department:

Midnight Sun

Brainerd Store call **218-833-1000**

Bemidji Store call **218-759-8518**

Website: www.mnspas.com

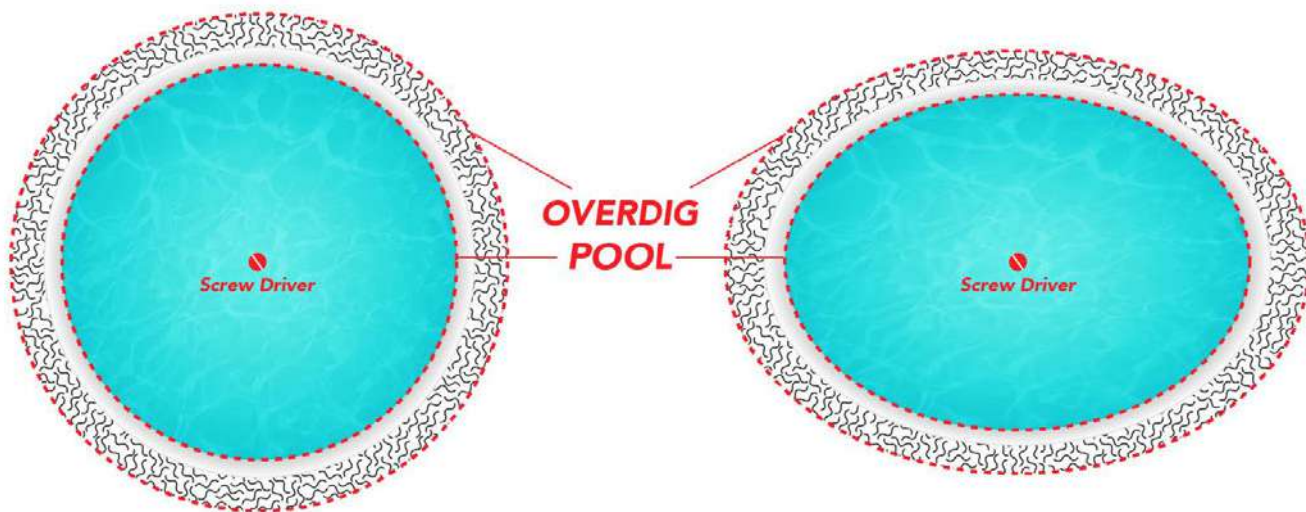
Before the Installation

To begin, make sure that the pool site is not within 15' of any overhead **power lines**, and 10' from any trees. The pool cannot be built over any part of a **septic system**, and you are responsible for making sure the pool is not infringing on any property lines, easements or built over any utility lines.

Note: Required distances from property lines vary in every community. Most of this information can be obtained when you get your permit.

Round Pools: Once you have chosen your site, place a screwdriver into the ground at the center of the pool. Secondly, measure a section of string that is half of the diameter of your pool, plus and extra 2'. For example 24' pool would require a 14' string. The extra 2' is for the over dig of the pool site. We will need to have a minimum of 2' around the pool to have the room for proper installation. Next, tie one end of the string to the screwdriver, and while pulling the string tight, walk the circumference of the pool, and mark it with several stakes or paint.

Oval Pools: Oval pools are done in about the same manner. Keep in mind that, due to the side braces on an oval Pool, the "overdig" requires the dimensions of the pool, plus 7' on the width, and 4' on the length. For example, an 18' x 33' oval would be staked out at 25' x 37'. Stake out, or paint, the area as best you can, and the installer will verify and square up the site for you.



Remember these keys questions: Approximately how far out of level is the pool site (inches)? Are there overhead power lines near the pool site? Are there underground utilities? Are there any trees or tree stumps near the pool site? Do you have a septic system?

Before Installation Check List

- ☐ **Underground Lines:** Locate and clearly mark electric, phone, cable, any other utility lines, septic tank or field lines on or near pool site prior to excavation.
- ☐ **Permits:** Check with local, county and state codes department and provide any permits required to issue complete compliance with all code ordinances.
- ☐ **Pool Plus Pump & Filter Location:** Locate and mark the pool site and filter location prior to excavation and in accordance with all state and local codes. Remember to follow the steps above in laying out your pool.
- ☐ **Find Our Access:** Provide 8' access path for excavation equipment. Midnight Sun will not be responsible for damage to the yard, driveway, or any obstacles in access path.
- ☐ **Sand Material:** Order and pay for fine mason sand and arrange for delivery. Sand is to be placed within 20' of pool site, but not directly on the area to be excavated.

Sand Requirement:

POOL SIZE	SAND TO ORDER	POOL SIZE	SAND TO ORDER
15' Pool	4 tons of sand	27' Pool	9 tons of sand
18' Pool	5 tons of sand	30' Pool	10 tons of sand
21' Pool	6 tons of sand	33' Pool	12 tons of sand
24' Pool	7 tons of sand	15'x 30' Pool	10 tons of sand
12' x 23' Pool	8 tons of sand	18'x 33' Pool	12 tons of sand

AFTER INSTALLATION

- ☐ **Fill Pool:** Furnish water and fill the pool to the proper level (approximately 1/2 way up the skimmer opening) before starting filter system.
- ☐ **Install Steps:** Placement of steps (if purchased) into the pool after filling with water. (Note: we **DO NOT** install the steps during installation. We will leave the steps a few feet away from the pool) It is the homeowner's responsibility to put the steps in the water.
- ☐ **Grading Services:** Grade, remove, spread and/or backfill any excess dirt or sand left around the pool. (Note: we DO NOT provide grading or haul off services in our installation) This is the homeowner responsibility.
- ☐ **Extra Services:** Pay for any excavation beyond what is included. Requests for additional work must be made prior to installation. Payment is to be made to the excavator.
- ☐ **Pool Safety:** Teach pool safety to family and guests, specifically NO DIVING, SHOIVING, PUSHING or HORSE PLAY. Install and use alarms and all other safety devices ensuring compliance with all safety regulations.

Note: MIDNIGHT SUN IS NOT RESPONSIBLE FOR WATER REPLACEMENT FOR ANY REASON.

Electrical Requirements

The customer must provide a 20 amp 110v power source for the filter that is protected by a Ground Fault Circuit Interrupter (or G.F.C.I.). This service should be provided by a qualified electrician in accordance with state and local codes after the pool has been installed. This specifically includes a pool alarm, as required by Minnesota State Codes. **Note: An extension cord does not meet electrical codes and will void the pump manufacturer's warranty. You will need to schedule your electrical the DAY OF or AFTER the pool is installed, not before.**

Installation Photos

Most homeowners would like to know what their project will look like after installation. Below are some great photos of our installation and what to expect after the project is completed.



This is left over pool sand on the job site. It is more cost-saving to order more sand and have a little left over then to order and pay another delivery charge if you don't have enough.



This pool had a very small slope, but you can see how much dirt is left behind. Additional excavation, grading and dirt work beyond that which is required for leveling the pool site is available by bid only.



Some jobs have a little rock in the ground when we dig, so be aware that your yard could be the same.



This is a great picture of your pump and filter. Notice the dirt ground after digging out the pool. This is very common, and most homeowners plant seed and straw to grow back the grass after installation.



This picture shows where a homeowner asked us to move the dirt to the end of his property. This can be done by paying the excavator directly after the pool is installed. A local bobcat operator can be found to move dirt and grade your yard after the build for an affordable rate.

Installation with an Existing Deck

If you have an existing deck around your pool, we can still install a new pool. The illustration below shows what your new pool will look like if your pool size is different, and also the 6 inch gap that may be left when installing the same size pool. Even when replacing an identical size pool, difference in manufacturers and pool models often vary slightly in dimensions or number of uprights. This can result in the need for a carpenter to modify your deck before or after the installation.



Smart Steps

The placement of steps (if purchased) into the pool after filling with water is your responsibility. (Note: we **DO NOT** install the steps during installation.) We will leave the steps a few feet away from the pool. The reason for this is that you have to wait until the pool is 100% filled before putting the steps in the pool. Since the homeowner fills the pool, this is your responsibility to put the steps back in the water.

STEP BY STEP ASSEMBLY INSTRUCTIONS

Step 1 - Platform and Handrail Assembly

Locate the left and right Handrail Assemblies (A) and the Platform (B). Secure the Handrail.

Step 2 - Adjustable Support Feet Preparation

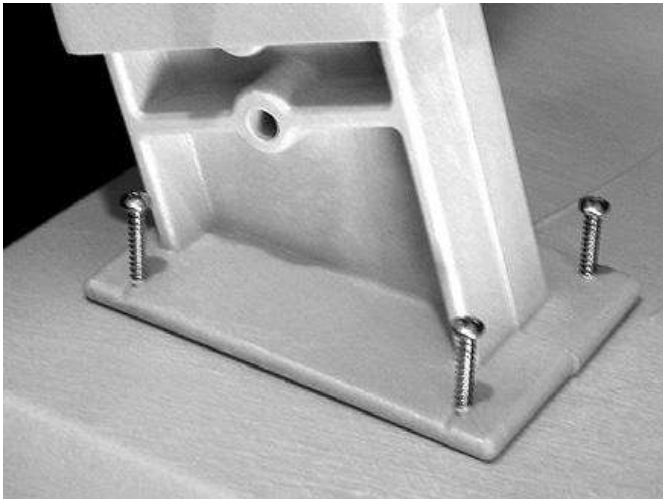
Insert the Adjustable Support Feet (C) into the Handrail Assembly sockets as shown in the diagram. DO NOT INSERT HARDWARE AT THIS TIME.

Step 3 - Platform Support Tubes

Locate the Support Tube sockets on the underside of the Platform (B) and insert one end of each Support Tube. Place the Support Tube Base (H) on the ground and insert other end of Adjustable Support Tube (G) in Support Tube Base (H). DO NOT SECURE WITH HARDWARE AT THIS TIME.

Step 4 Secure the Adjustable Support Feet

Position the in-pool step and the ladder assembly as shown in Fig.1 below. Secure the Adjustable Support Feet (C) to the top step using eight (8) 1" Pan Head screws (S), one in each corner of each Adjustable Support Foot (C) (Fig. 2). Screw positions are noted by notches in the Adjustable Support Foot (C). DO NOT SECURE ADJUSTABLE SUPPORT FEET TO HANDRAIL ASSEMBLY AT THIS TIME.



Step 5 Cut to Fit

Depending upon pool wall height, it may be necessary to cut the Adjustable Support Feet (C) or the Comfort Incline Extensions if using model 200740T. At this time the Adjustable Support Tubes (G) may also need to be cut. The Platform (B) must be flat and level over the pool top rail. Measure from the underside of the Platform (B) to the ground.

Compare with the distance from the pool bottom to the surface of the top rail. The Platform (B) should be flat and level on the pool top rail. Remove Ladder Handrail Assembly (A) from secured Adjustable Support Feet (C) if using Model 200600T or 200400T.

Step 6 Position Step or Ladder in the Pool & Ladder Assembly in Final Position

Position the in-pool step in the final desired position and weight down as per the step instructions. Position the ladder assembly over the pool wall and confirm the Platform (B) is flat and level over the pool wall. Secure the Adjustable Support Feet (C) or the Comfort Incline (200740T) to the Handrail Assembly (A) using two (2) 2-1/4" Phillips Head Bolts (P), 1/4" Flat Washers (R) and 1/4" Acorn Nuts (Q).



Step 7 Secure Assembly to Pool Top Rail

Using the Ladder Secure Straps (I), begin inserting one of the straps as shown in Fig. 3 below. Continue to weave the strap as shown in Fig. 4. With Platform (B) flat and level to the pool top rail, feed the end of the strap under the pool top rail and secure it to the clasp on the other end of the strap as shown in Fig. 5. Pull tight and repeat with other Ladder Secure Strap (I).



Step 8 Apply Hardware to Support Tubes

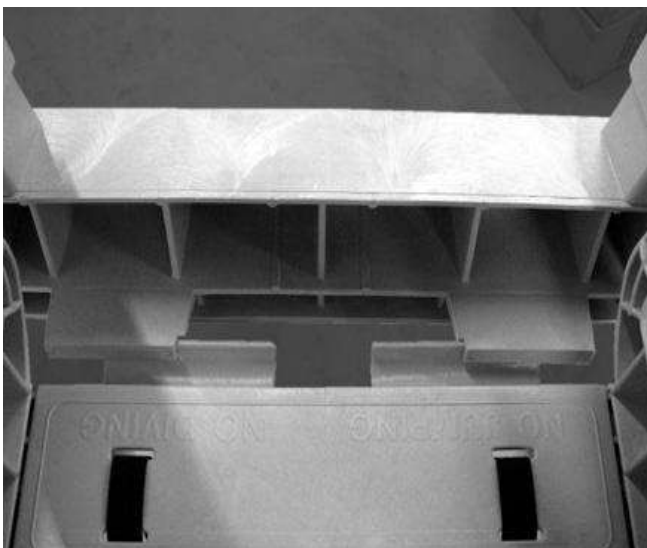
After confirming secure fit of Adjustable Support Feet (C) and Adjustable Support Tubes (G); secure Adjustable Support Tubes (G) to Platform (B) using two (2) #14 x 3/4" Tapping Screws (M) and to the Support Tube Base (H) using four (4) #14 x 3/4" Tapping Screws (M).

Step 9 Outside Ladder Body

Secure the Ladder Foot Extension (E) to the Outside Ladder Body (D) using four (4) 3/8" x 4" Carriage Bolts (J), 3/8" Flat Washers (L) and 3/8" Hex Nuts (K). Adjust to fit your pool height. It is recommended to position a patio block under the Ladder Foot Extension (E) for support.

Step 10 Lift-N-Lock Outside Ladder Body

When your entry system is not in use, swing up and remove the Outside Ladder Body (D). Lift the Outside Ladder Body (D) and Foot Extension Assembly (E) so that you can position the tabs on the Ladder Foot Extension (E) onto the hooks of the Platform (B) as shown in Fig. 6. Then snap the tabs on the sides of the Outside Ladder Body (D) into the slots on the outside of the Handrails (A) as shown in Fig. 7.



Filling Instructions

Pool liners are designed to stretch slightly as they fit the pool during filling. Weather conditions and air temperature directly effect the pace in which the filling can be completed. If the pool is filled at night, or too quickly during the day without sunlight reaching the pool, the liner can buckle the wall or pull down causing a sag in the wall pattern. These are not usually structural problems. However, they are unattractive. The installation guarantee does not cover the liner sags or wall buckles caused by improper filling. We have included detailed suggestions below to help prevent these issues from happening.

32-65 Degree Filling:

During the final stages of installation, the installers will begin to fill the pool to seat the liner. They will remove any folds from the packaging and position the liner evenly around the wall and floor. After the installers have left, continue filling the pool until you reach a total of 6 inches. Please do not continue to fill the remainder of the pool for the rest of the day. The following days if weather allows, begin to add 2 to 3 inches of water each day.



Special Instructions:

- A. Only add water on days that direct sunlight is reaching the pool.
- B. Do not add more than 3 inches unless the water is 65 degrees. If it is above 65 degrees and direct sunlight is reaching the pool, do not add more than 6 inches.
- C. Continue this process until you reach a total of 24 inches. After 24 inches you may fill the remainder of the pool. Only add water on the days that have direct sunlight reaching the pool.

65 & Warmer Filling:

During the final stages of installation, the installers will begin to fill the pool to seat the liner. They will remove the folds from the packaging and position the liner evenly around the wall and floor. After the installers have left, continue filling the pool until direct sunlight is no longer reaching the pool. Please DO NOT continue to fill the pool for the remainder of the day. The following day (if the sun allows), begin to add water as direct sunlight is reaching the pool each day.

Special Instructions:

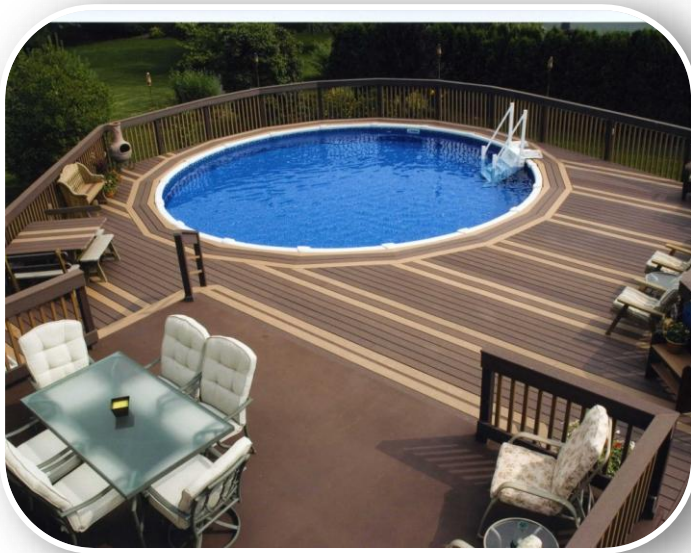
- A. Only add water on days that have direct sunlight reaching the pool.
- B. If the temperature is above 65 degrees and direct sunlight is reaching the pool, you may continue filling the pool until direct sunlight is no longer reaching the pool.
- C. Continue this process until you reach a total of 24 inches. After reaching 24 inches, you may fill the remainder of the pool.

Other Important Information:

Midnight Sun does NOT recommend 'Quick Filling' methods, such as water tanker, fire hydrant and/or multiple hose use. If these methods are the only source of filling available, please do not attempt to fill the pool unless the temperature is above 75 degrees and direct sunlight is reaching the pool. Also, please request the lowest level of water pressure is used during the filling.

DO NOT ENTER THE POOL AND/OR STAND ON THE LADDER/STEP SYSTEM BEFORE THE POOL IS COMPLETELY FULL OR THE SAND BOTTOM WILL BE COMPROMISED (I.E. FOOTPRINTS, HEEL INDENTIONS, ETC.). THE INSTALLATION GUARANTEE DOES NOT COVER THESE OCCURRENCES. LINER DAMAGE CAUSED BY NUTGRASS, INSECTS, NEGLIGENCE OR ACTS OF GOD ARE NOT COVERED UNDER ANY WARRANTY.

YOU ARE NOW READY TO ENJOY YOUR ABOVE GROUND POOL!



On behalf of everyone at Midnight Sun, we would like to take a moment to thank you for choosing us to be your swimming pool installer. The building of an above ground swimming pool can be an exciting and quick process.

For any future service or operational needs, contact our Service Department:

Midnight Sun

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