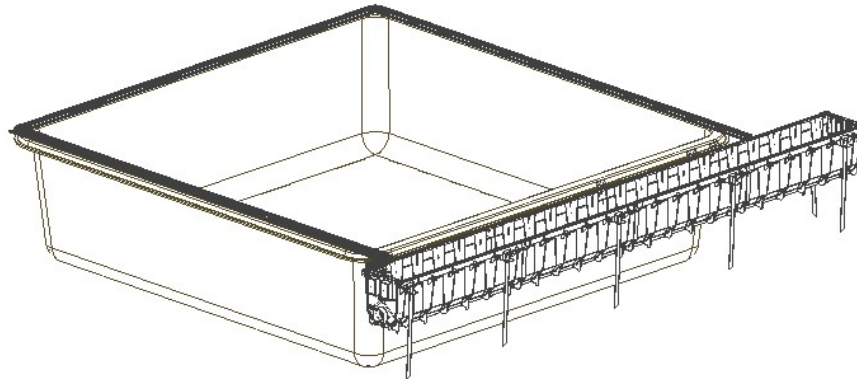




# Fiberglass Pool—Molded Auto-Cover Housing With Standard Brackets Installation Instructions



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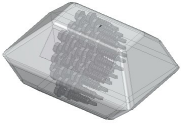
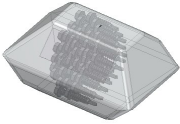
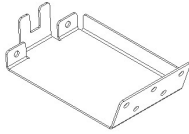
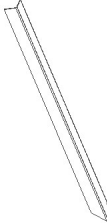

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** WARNING! IMPORTANT SAFETY INSTRUCTIONS:**

- READ AND FOLLOW ALL INSTRUCTIONS
- Installation shall only be performed by an pool installation technician. Improper installation could lead to bodily harm and failure of the components. Electrical conduit and lines shall be installed by a certified electrician.
- Proper protective equipment should always be worn during installation.
- Follow all tool manufacture safety guidelines and use safe tool practices.
- These instructions are specific to the housing brace & housing installation. All other installation instructions should be followed.
- File away any exposed sharp edges. Failure to do so could lead to injury.
- Every housing must be installed with a drain. Failure to have a drain may void warranties

## Parts Description

1	2	3	4	5	
					

### **Parts List** Quantities May Vary Based on Pool Width

1. A1721—60pk #12 x 1in. HHW tek Screw (H9777) - QTY: 1
2. A1746—30pk Screw HHW tek #10 x 1in. Zinc (H9659)—QTY: 1
3. M3951—Fiberglass Pool Molded Housing Mounting Bracket—Classic Sheet Metal Version—QTY: 7
4. M9793—Housing Support Stake—QTY: 7
5. L3999—Fiberglass Classic Installation Instructions with stand off brackets

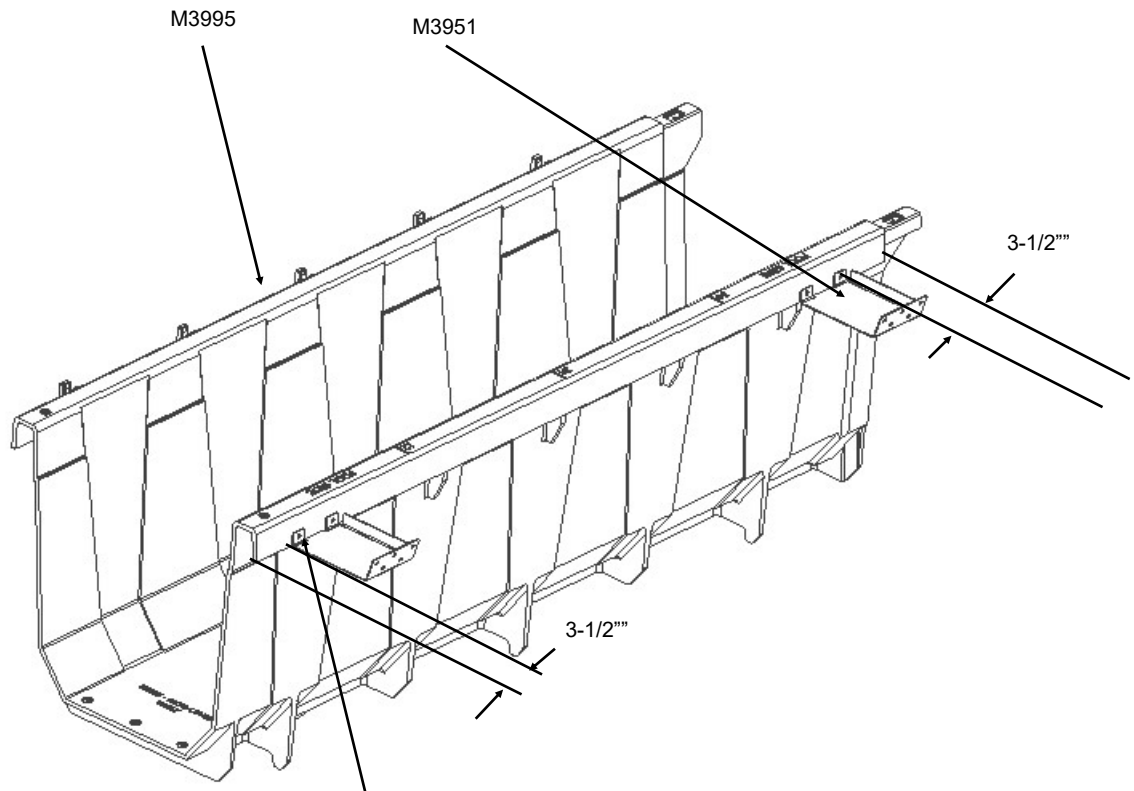
### **Tools Required**

- Cordless drill
- Square Bit—Size #2 SQ2
- Flat File
- Tape measure
- Marker
- Sawzall or Handsaw
- 18" (or longer) Bubble Level
- Shovel
- Right Angle Square

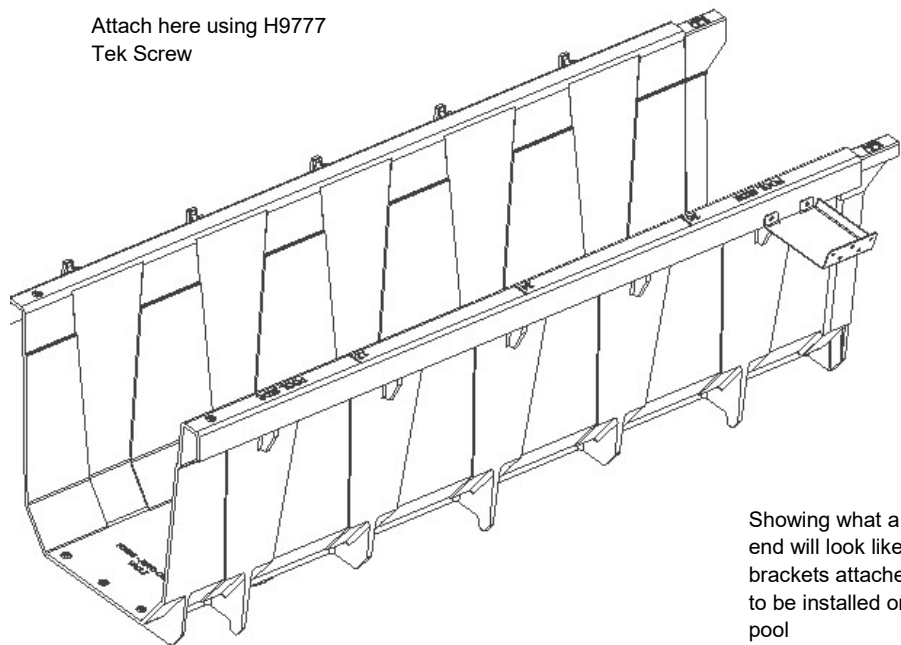
# Installation Procedures

**NOTE:** Follow all *Latham Fiberglass Pools Installation Guide* instructions! The pool will have been set in place prior to step 1 of these instructions and the encapsulation will have been attached to the pool wall..

**Step 1:** Install M3951 mounting brackets to M3995 housing using self drilling screw H9997. The side with the 36.0" offset will only have the bracket attached to one side. There will generally be two brackets per housing section. Install 3-1/2 in. from each end of housing. The brackets get attached to the side of the housing marked "POOL SIDE".



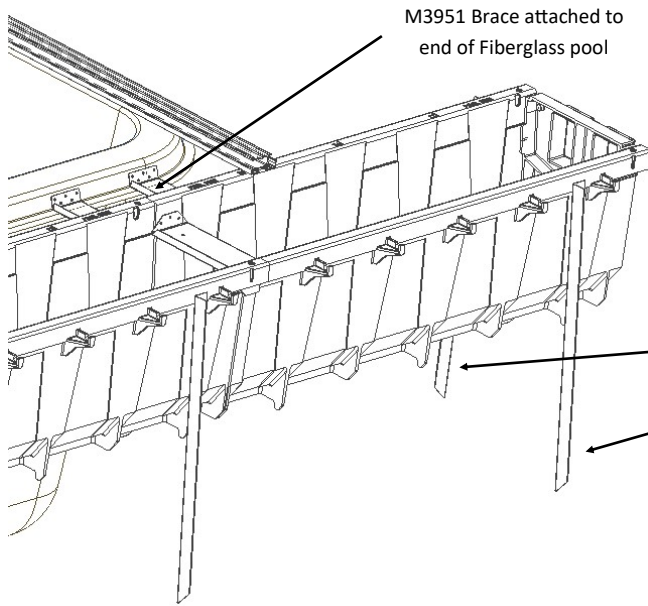
Attach here using H9777  
Tek Screw



Showing what a 36" motor end will look like with brackets attached ready to be installed onto the pool

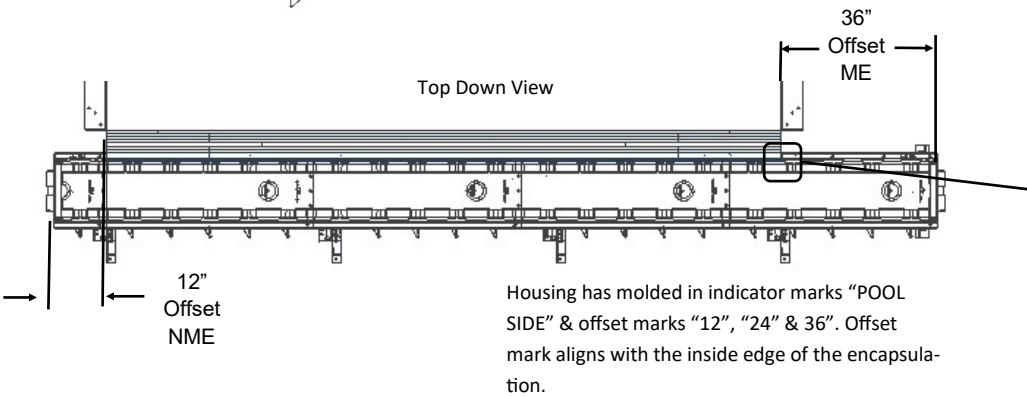
# Installation Procedures

**Step 2:** Attach housing with pre-attached brackets to end wall of the fiberglass pool with H9777 tek screws. Always begin the installation from the RIGHT side and work to the LEFT. Housing can be installed one M3995 molded housing section at a time.



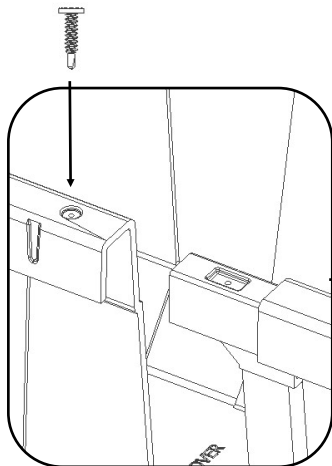
**Note:** May require digging out excess earth to make room for housing offsets.

M9793 Stakes will be used to support the motor end of the housing.

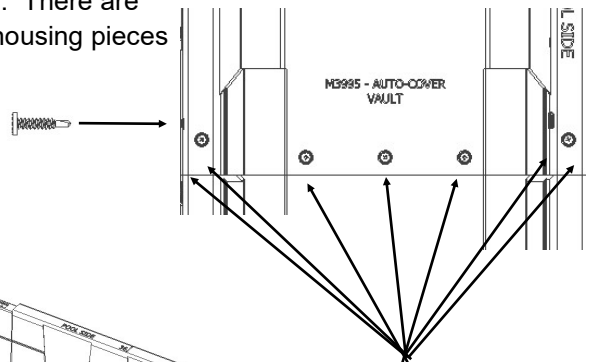


Housing has molded in indicator marks "POOL SIDE" & offset marks "12", "24" & "36". Offset mark aligns with the inside edge of the encapsulation.

**Step 3:** Fasten all housing pieces together using the H3991 screws. There are molded in indicator marks where the screws will attach the M3995 housing pieces together. Screws come with housing kit.



Housings interlock with one another and are fastened in place with screws.

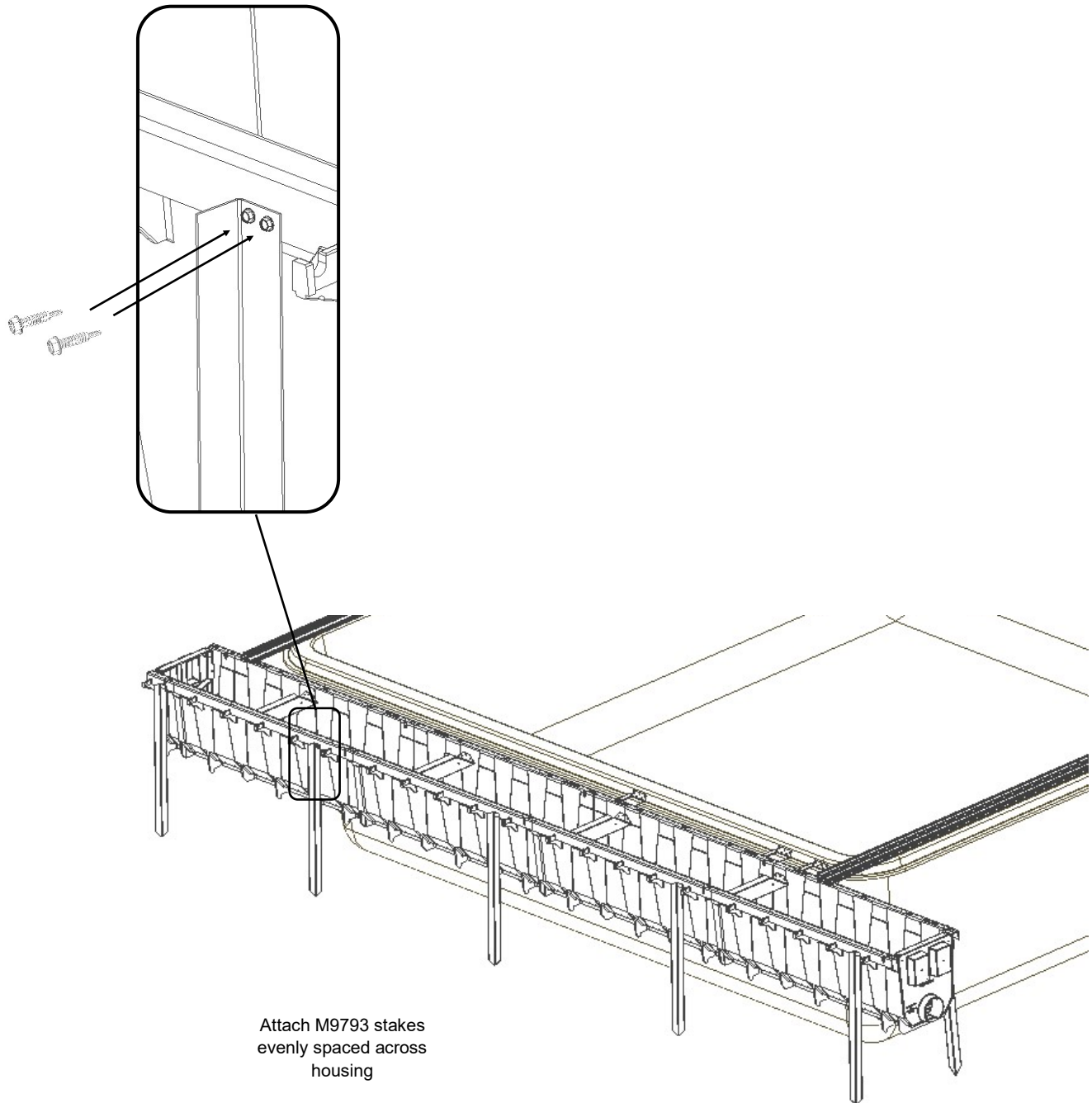


Screws are fastened into the molded in marks on the housing joints, locking the two pieces together.

## Installation Procedures

**Step 4:** Attach M9793 stakes to housing. On the 36" motor end cantilevered housing, use two M9793 stakes to support the end, one on each side of the housing. **Note: This may require excavation to attach braces and stakes.**

The stakes are driven into the earth using a sledge hammer and fastened to the brace using a **minimum** of 2 screws in each stake. With braces attached level and straighten housing end. Stakes will be attached 1" down from top of housing to allow room for riser extrusion.



# Installation Procedures

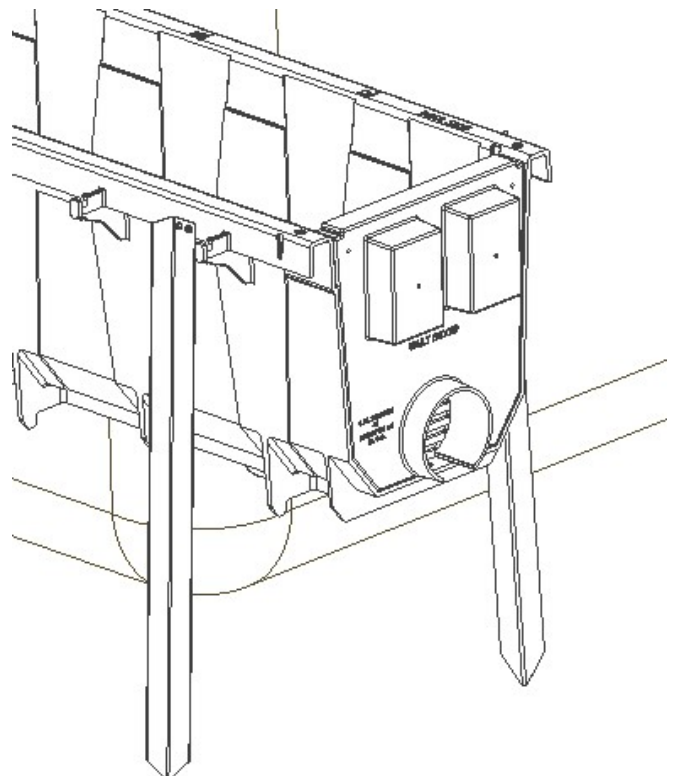
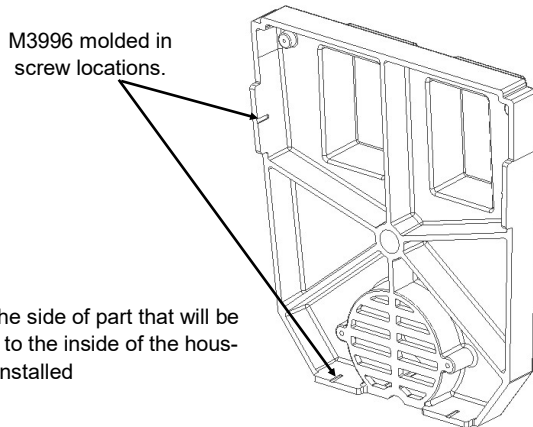
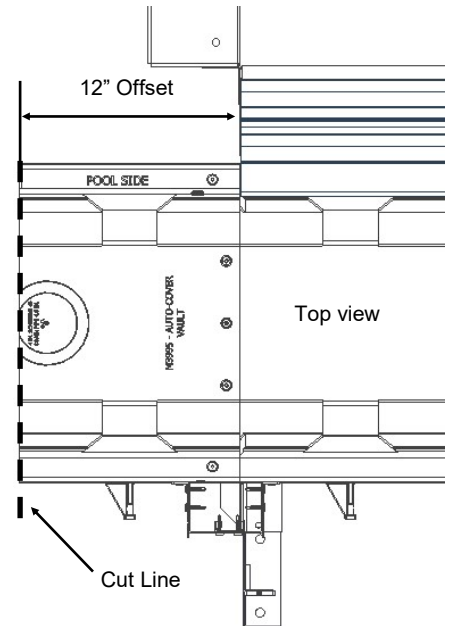
**Step 5:** Mark and cut housing to length. Attach both M3996 molded endcaps.

- ME—Motor end standard offset is 36"
- NME—Non motor end standard offset is 12"

**Note: Housing will be cut down on the left side offset.** Measuring from inside pool wall measure out desired offset and make a mark onto the M3995 housing. Transfer these cut marks across housing using tape measure and square, creating a cut line. Using a Sawzall or handsaw cut off excess material.

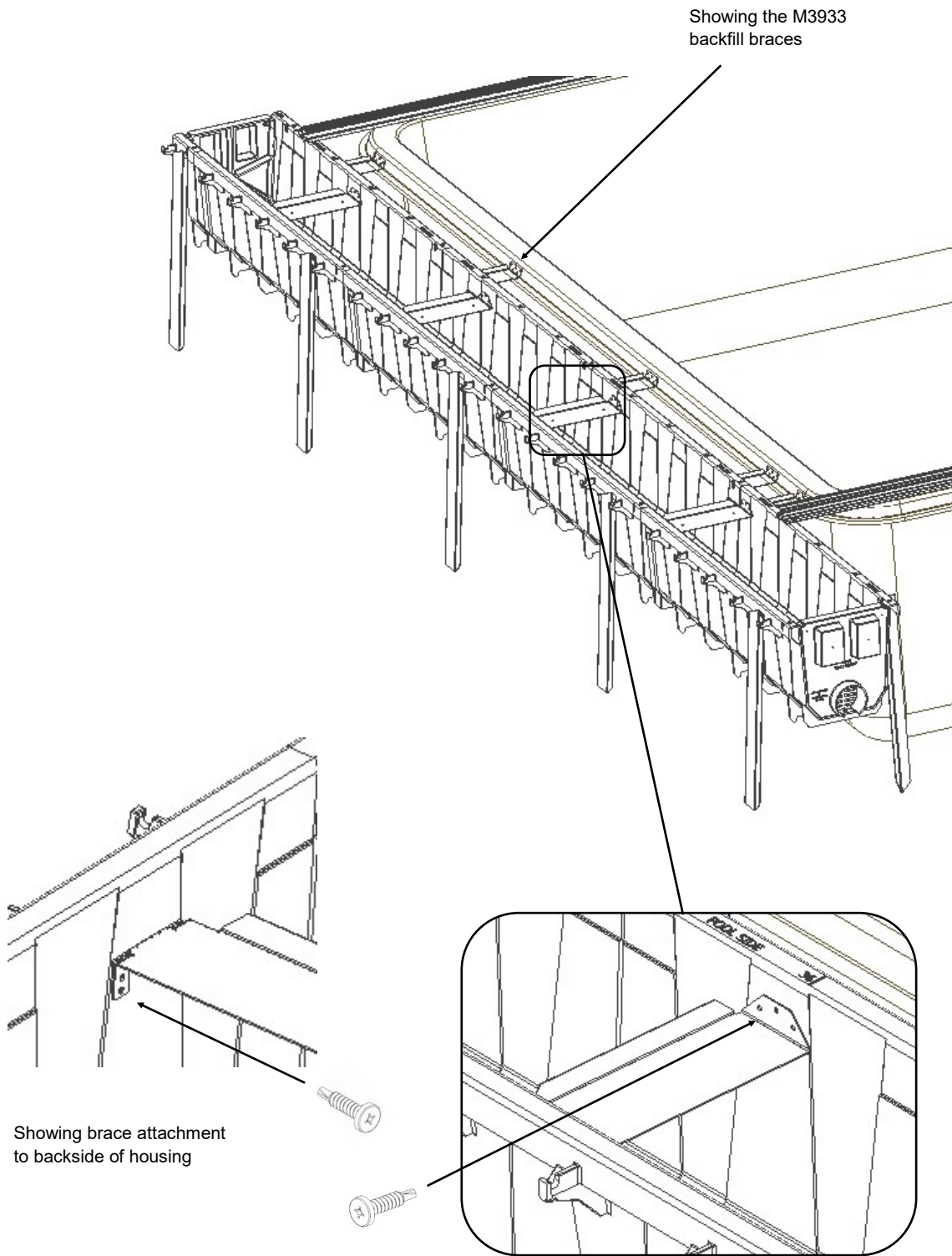
**Note: If excess housing material is minimal removing the excess may not be required. Excess can be backfilled and buried.**

Attach the two M3996 molded endcaps. The caps are orientated flush to the end of the housing as shown in the model. There are molded in indicator locations where the H3991 Screws will be placed using a drill and SQ2 square drill bit. Additional screws can be added as necessary. Use right angle square to ensure M3996 end caps are square to the housing.

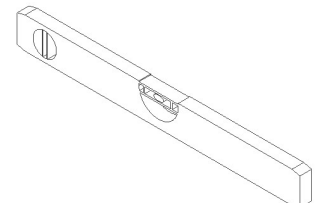


# Installation Procedures

**Step 6:** Attach M3933 Backfill Support Braces using H3991 screws. Minimum of two screws per side of brace. Evenly space braces across housing.



**Step 7:** Level and straighten the housing front to back and side to side. Failure to do this at this step can lead to complications in the rest of the installation.



# Installation Procedures

## **Step 8:** Electrical, drain & optional re-bar (not provided) installation.

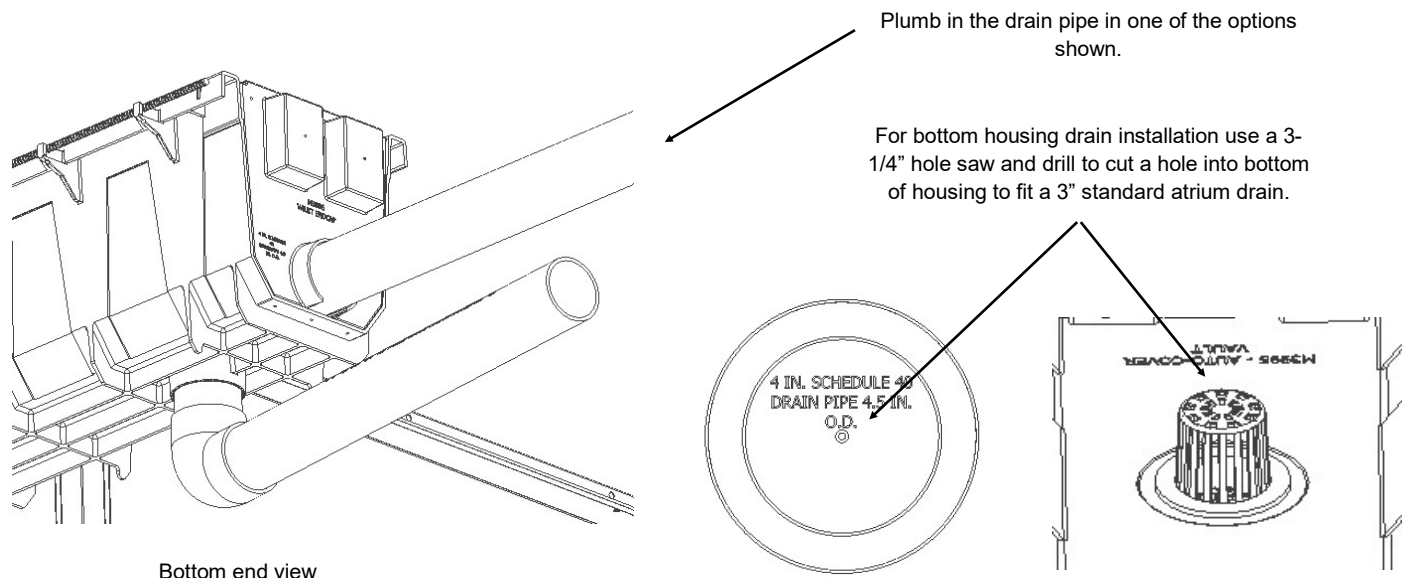
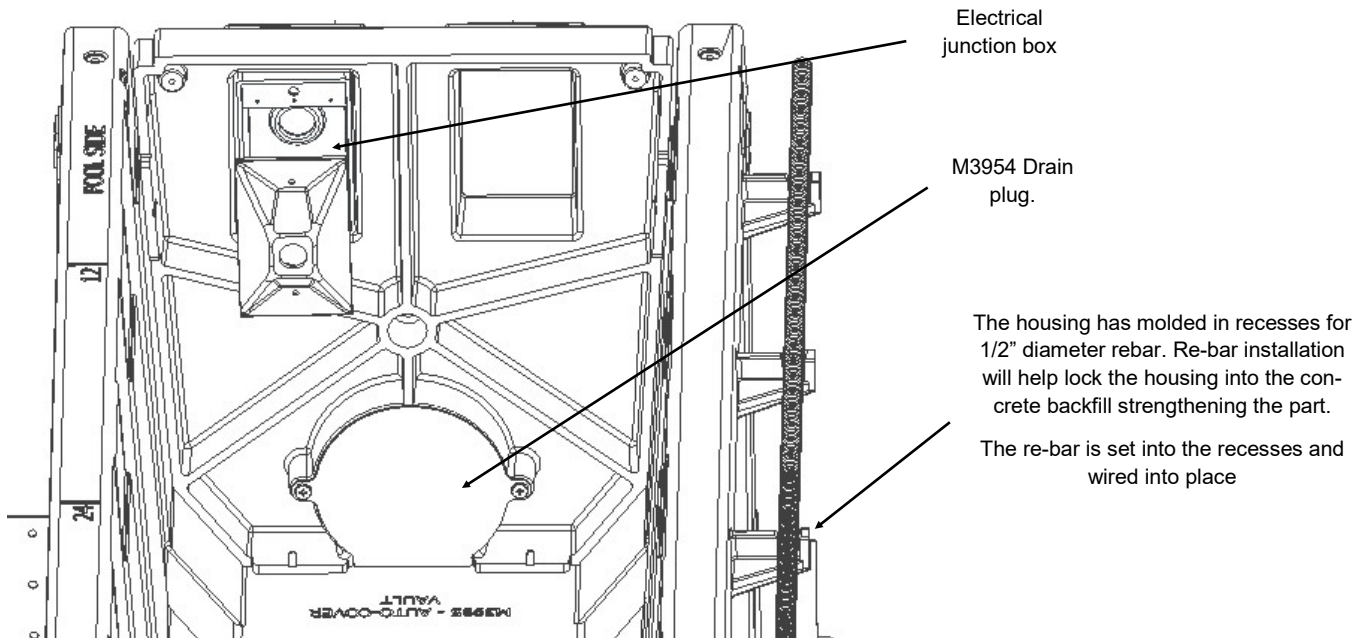
The M3996 molded endcap has a molded in recess specifically for a single gang junction box. The housing kit includes this junction box and lid. **Note: The box and lid are to be installed by a certified electrician in compliance with national and local codes.**

**Note: A drain is required with every housing installation!** The housing has multiple molded in drain ports in the M3996 end caps and M3995 housings. The drain port on part M3995 housing are to be used as the standard option on all housings. The drain should only be installed into the endcap when the first option is unavailable.

Drain components are not provided with the housing installation kit and must be provided by the installer. **Note: Drain size: 4" schedule 40 drain pipe.**

Attach drain pipe to housing using H3991 self drilling screws. Drain installation should follow pipe manufactures recommendations. Use RTV silicone to create a watertight fitting.

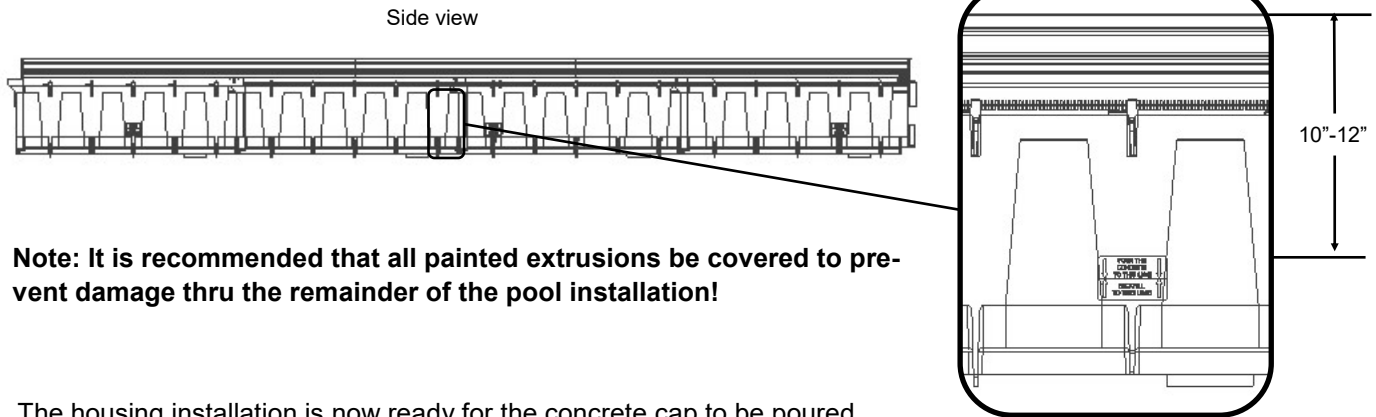
If end cap drain not being used, install M3954 drain plug onto each end of the M3996 housing using two H3991 screws. RTV silicone can be used if a water resistant fitting is desired.





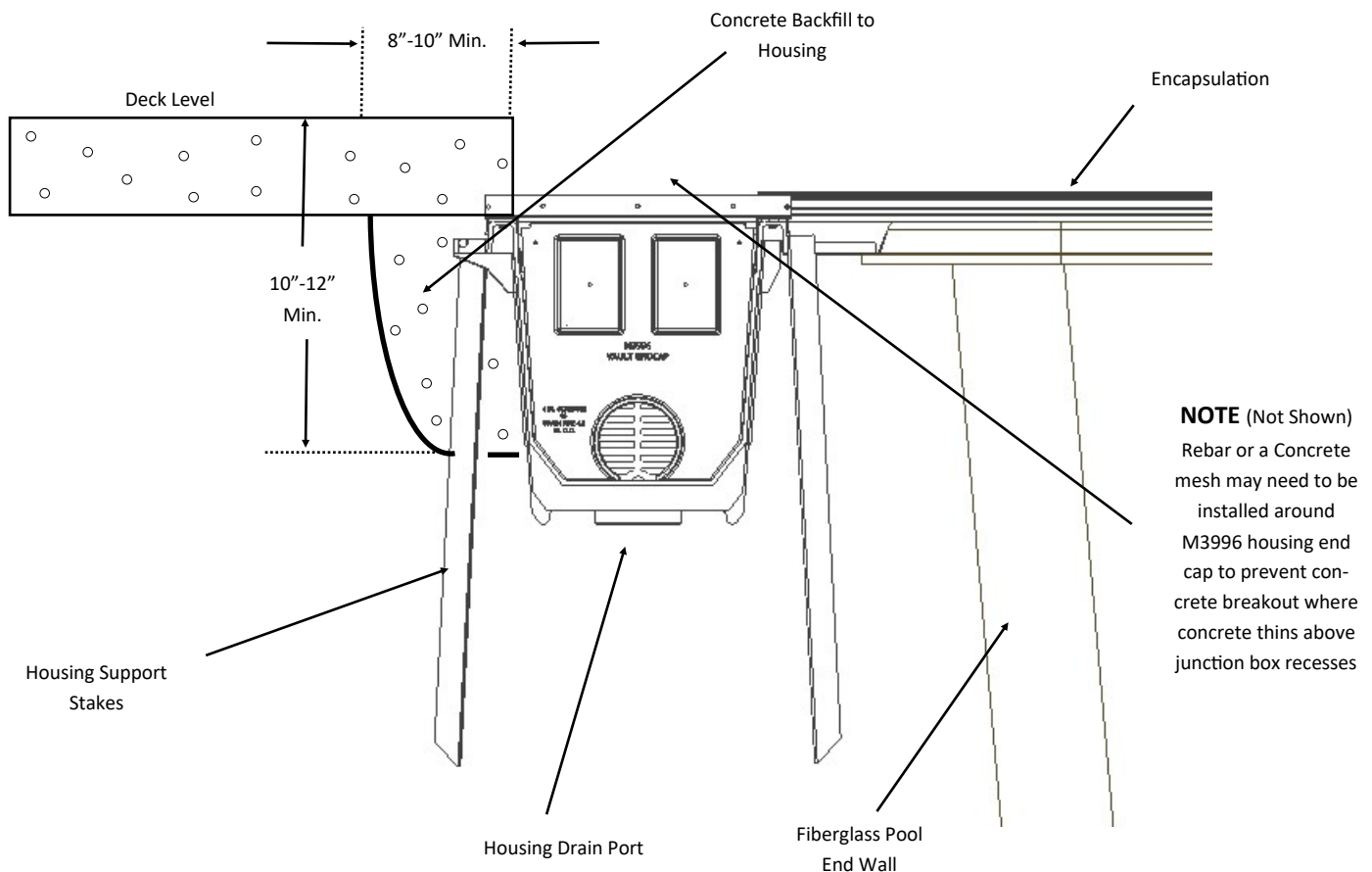
## Installation Procedures—Concrete Backfill

**Step 9:** Apply L0125 backfill stickers to housing. Measure down 10-12" from top of housing and apply stickers, evenly spaced to housing shell. **Note: This step is important to ensure the housing is properly anchored and able to withstand mechanical loads.**



**Note: It is recommended that all painted extrusions be covered to prevent damage thru the remainder of the pool installation!**

The housing installation is now ready for the concrete cap to be poured following the installation procedures found in the *Latham Fiberglass Pools Installation Guide*.



**Note: The concrete backfill is critical to lock the housing into place and to properly support the lid & lid brackets when anchored into the housing. Failure to pour this concrete cap around housing may cause housing or lid brackets to pull loose from deck.**

**Note: M3996 end cap may need re-bar or a concrete mesh installed to prevent concrete breakout where the electrical junction boxes recess out and concrete may get thin.**