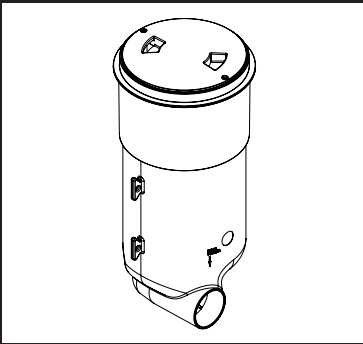


Paralevel

Automatic Water Leveler

Plumbing Manual



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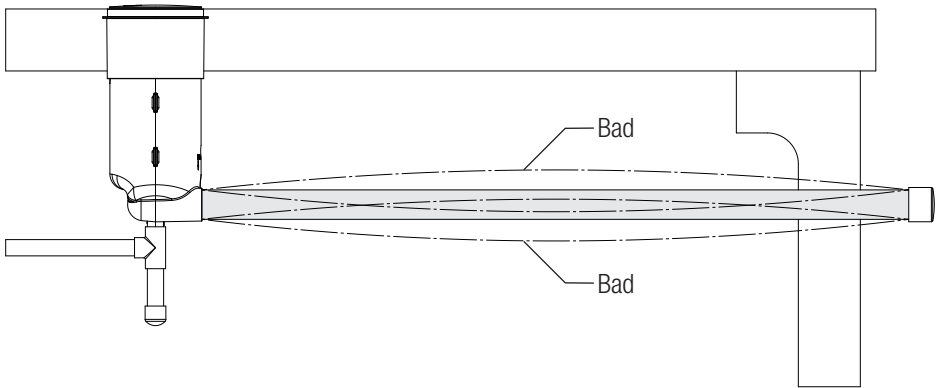
Overview

System Design

The Paralevel is designed to control the water level in a swimming pool or spa. The "Posi-Click" control makes adjusting the water level very easy. Four clicks (or one revolution) of the adjustment wheel changes the water level by $\frac{1}{4}$ ". The Paralevel uses "Smart Sensing", eliminating rapid cycling of the device even when the pool is being used. The balance line must be plumbed with $\frac{1}{2}$ " pipe. The water line can be plumbed with $\frac{1}{2}$ " or $\frac{3}{4}$ " pipe. The Paralevel can also be plumbed with $\frac{1}{2}$ " pipe for overflow protection.

Paralevel Layout & Design Criteria

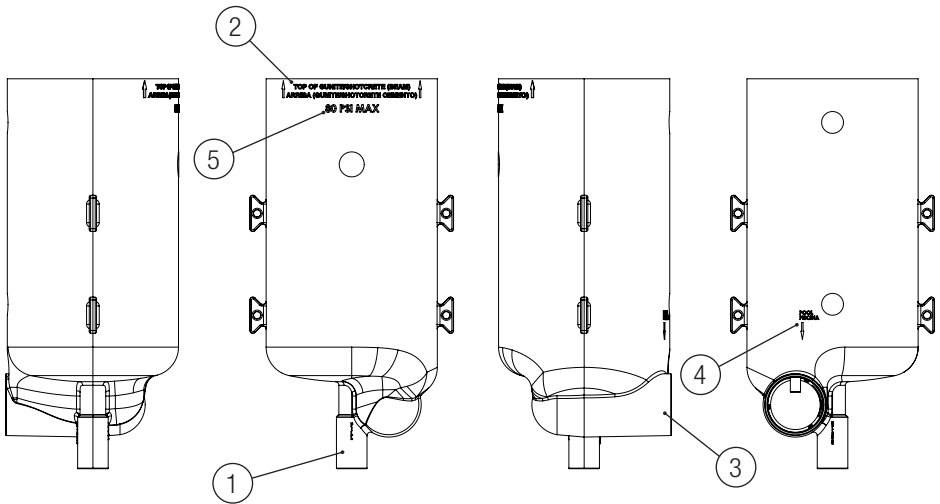
1. Paralevel should be level and plumb.
2. The Paralevel main housing is engraved with "TOP OF GUNITE/SHOTCRETE (BEAM)". The top of the Paralevel housing should be positioned at the same elevation as the pool shell, assuming 3" above final water level.
3. Maximum water pressure is 80 psi.
4. The fill rate at 50 psi is 120 gph (2880 gallons per day).
5. **WARNING** - Balance line and overflow line must be plumbed straight. Failure to keep the run of pipe straight may cause an airlock.



Plumbing Overview

1. **Fill port** - This port accepts 1/2" pipe in the socket or a 3/4" coupler on the outside. using a 3/4" SxS fitting fill line from the water supply. Be sure to install a shut off valve and approved vacuum breaker per local codes between the water supply and the Paralevel.
2. **Top of Gunite/shotcrete (Beam)** - This is the top of the pool shell assuming 3" above final water level.
3. **Overflow** - If an overflow is required, simply plumb a T-fitting to the balance line of the housing. A 2" line is recommended as it will make air locks less likely.
4. **Pool** - This is the balance line into the pool. The fill water flows into the pool from this line. This may be plumbed with 1 1/2" PVC pipe.
5. **80 psi Max** - This is the maximum water pressure to be used with the Paralevel.

NOTE: MAKE ALL PLUMBING CONNECTIONS WITH PVC PIPE AND PVC PRIMER AND GLUE.

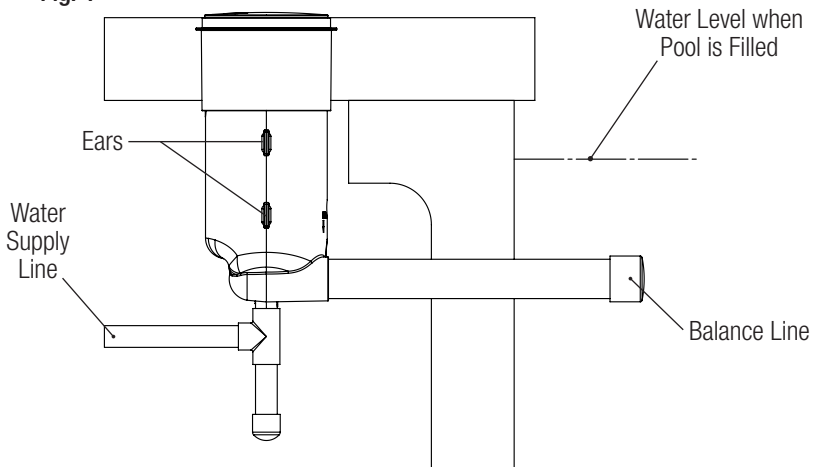


Plumbing Methods

Straight Into the Pool

1. Paralevel should be installed plumb and level with the top of the housing set even with the top of pool beam (standard 3" water clearance).
2. Use the "ears" on the sides of the main housing to securely tie to form boards or stakes. (Fig. 1)
3. During construction the Paralevel housing must be covered with plastic and/or tape to prevent debris from falling inside.

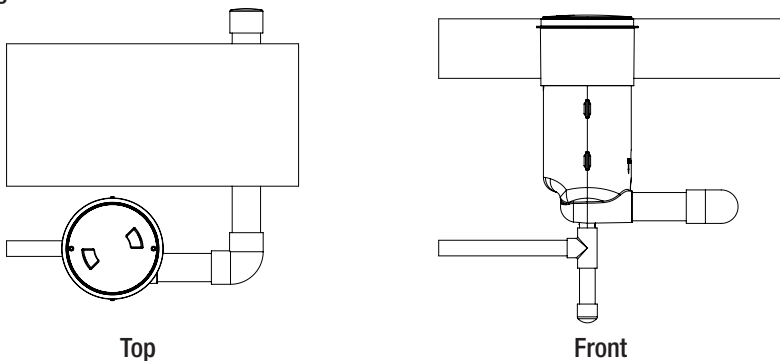
Fig. 1



90° to Pool

This will be the preferred plumbing method when an overflow is required (Fig. 2). See page 7 for overflow installation plumbing.

Fig. 2



Distance from Pool

1. The Paralevel can be placed adjacent to the side of the pool (Fig. 3), in the deck or at the equipment pad (Fig 4) as long as straight and level pipe runs can be maintained.
2. There cannot be any place where the pipe rises and falls possibly creating an air lock. See Paralevel layout and design criteria (page 1).

⚠ CAUTION - It is recommended that a separate shut off valve and approved vacuum breaker, per local codes, be plumbed in between the supply water source and the Paralevel housing.

Fig. 3

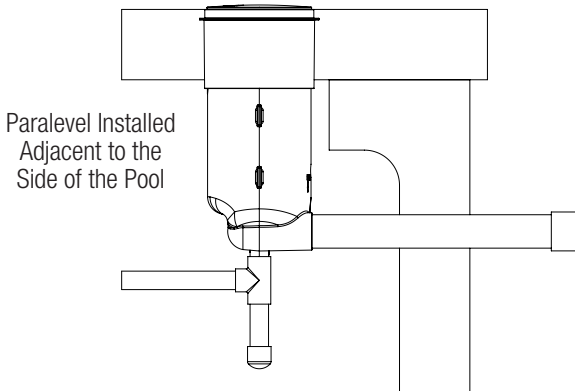
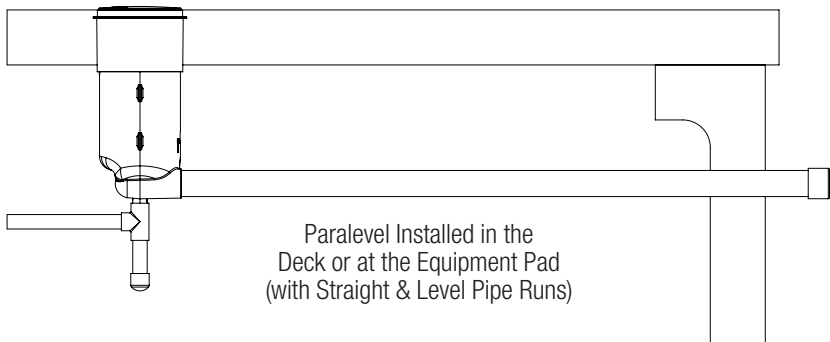


Fig. 4





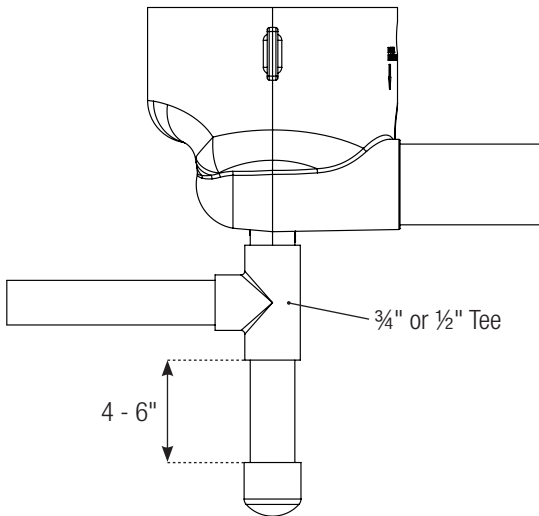
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"T" Configuration Debris Trap (Optional)

A "T" configuration at the fill port is recommended (Fig. 5).

IMPORTANT - This recommended "T" configuration **CANNOT** be used in conjunction with winterization. Use a standard elbow in its place if winterization is required.

Fig. 5



Pressure Testing

Waterline Pressure Test

1. Install pressure test cap with large AND small seals (Fig. 6a and 6c).
2. Tighten cap using removal tool (Fig 6b).

Fig. 6a

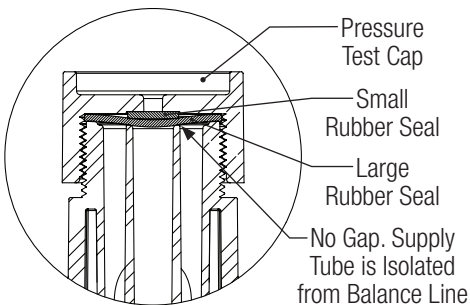


Fig. 6b

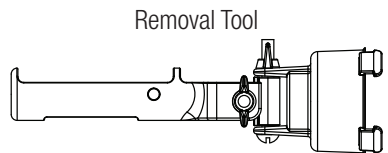
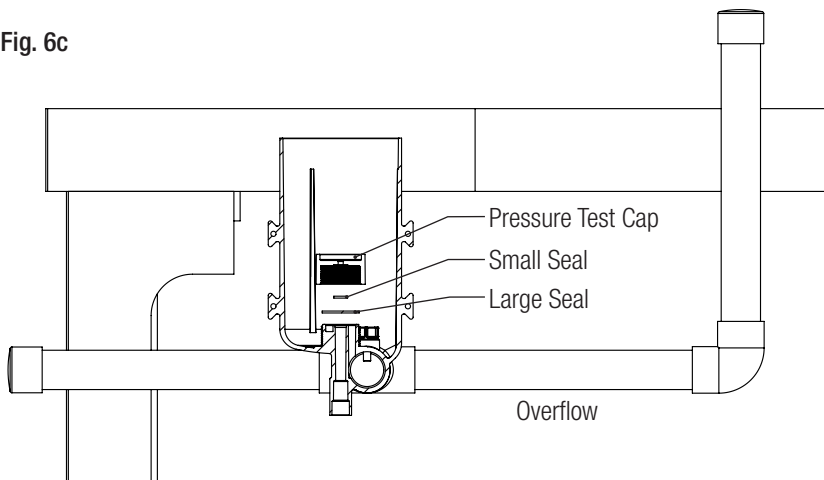


Fig. 6c



Overflow & Balance Line Pressure Testing

1. Install pressure cap with large seal only (Fig. 7a and 7c).
2. Tighten cap using removal tool (Fig. 7b).
3. Install small pressure cap with O-ring using a 3/8" socket extension (not included).

Fig. 7a

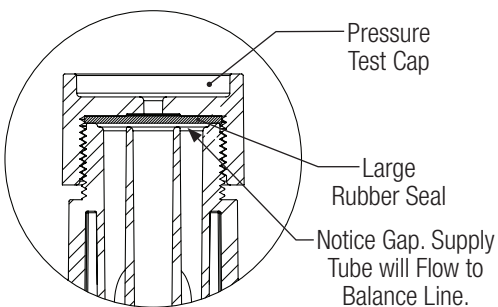


Fig. 7b

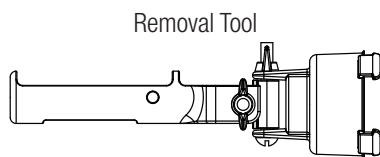
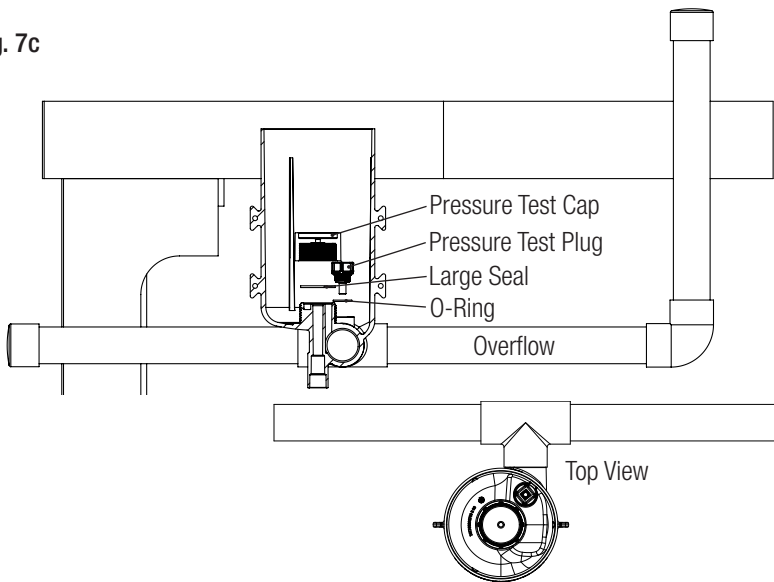


Fig. 7c

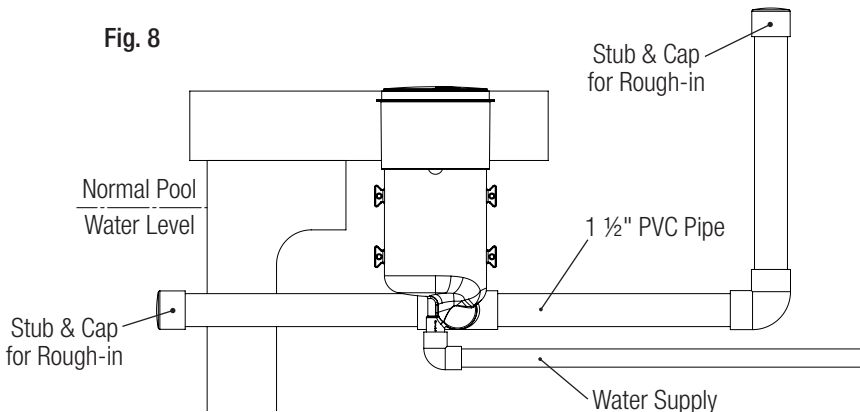


Overflow Installation

Basic Overflow/Balance line rough-in.

1. 1 ½" or 2" PVC schedule 40 pipe should be used.
2. Overflow can be set as close to or as far away from pool as necessary as long as straight and level lines can be maintained.
3. Pool water from overflow must be disposed of in accordance with state and local codes.
4. Can be plumbed into a drain sump.
5. Can be plumbed into a deck drainage system.
6. Must be capped off if not used.

Fig. 8



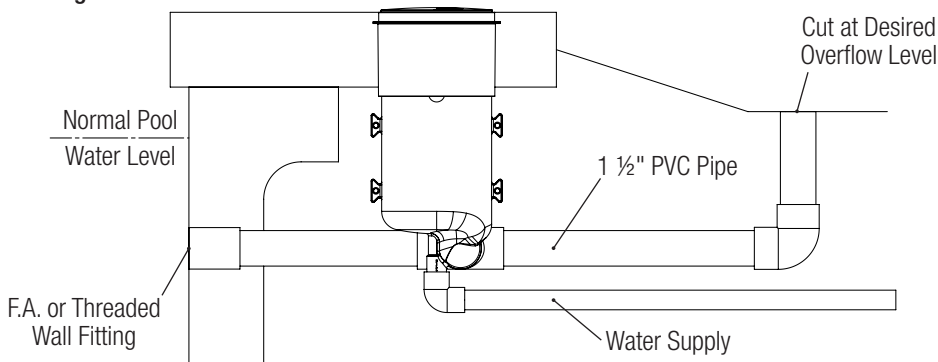


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Overflow Installation Method 1

1. Simplest installation method.
2. Cut pipe at desired overflow level (see page 10).
3. This method shouldn't be used in areas where pool is winterized.

Fig. 9



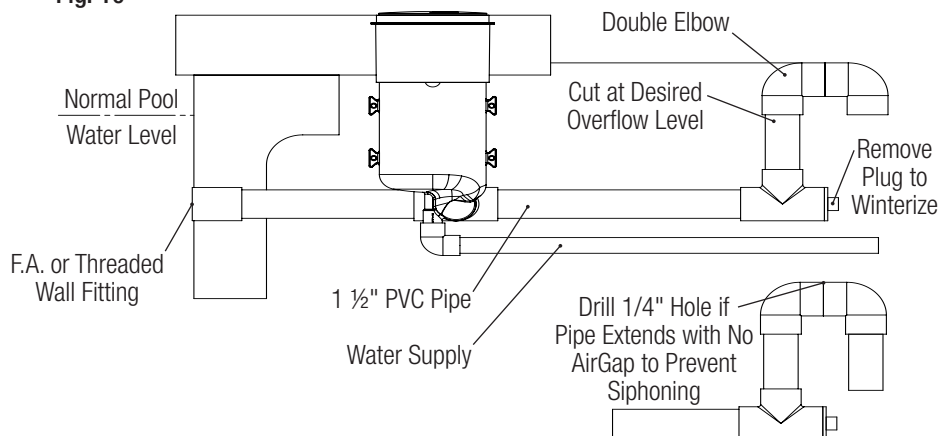
Overflow Installation Method 2

Recommended for areas where pool will be winterized.

1. Cut pipe at desired overflow level (see page 10).
2. Add double 90° elbows to guide overflow into a drain sump.
3. Do not glue elbows to allow for future overflow adjustment.
4. There must be an air gap between end of overflow pipe and drain sump to prevent siphoning.
5. Drill 1/4" hole in top or side of pipe as shown if pipe extends into drain sump without an air gap.

⚠ WARNING: if pipe extends into drain with no venting, siphoning will occur.

Fig. 10



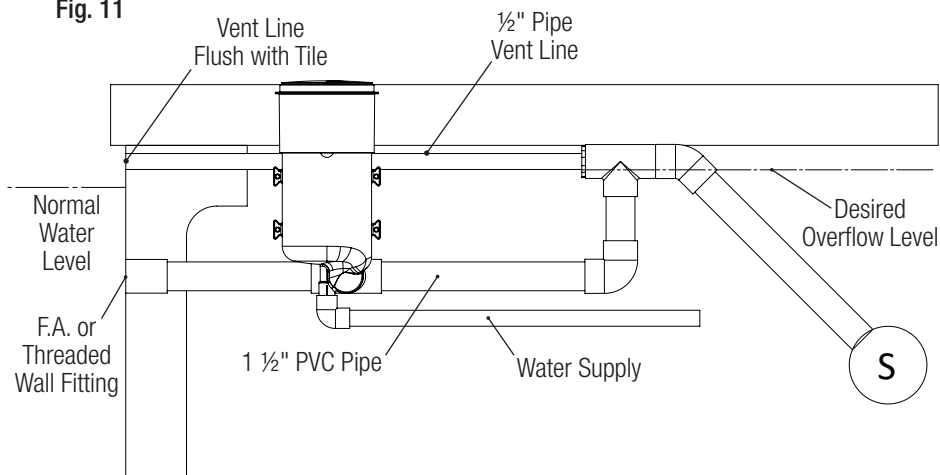


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Overflow Installation Method 3

1. Vent line is flush with tile.
2. Cut pipe at desired overflow level (see page 10).
3. Can be installed under the deck.

Fig. 11

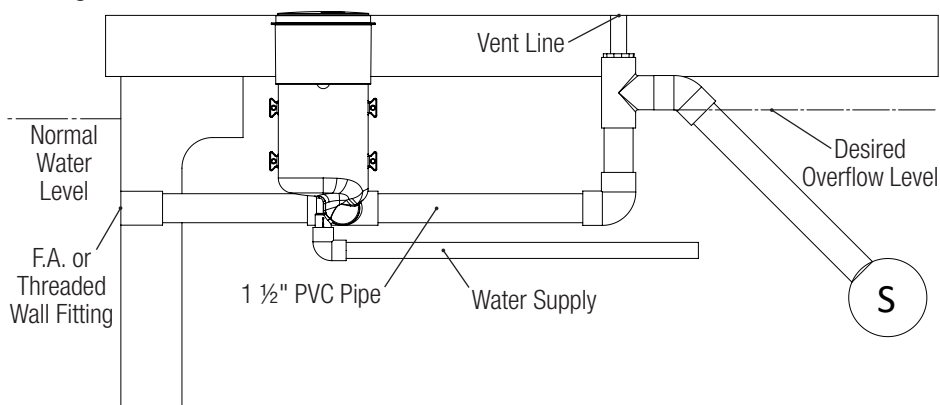


Overflow Installation Method 4

1. Vent line goes up through deck.
2. Cut pipe at desired overflow level (see page 10).
3. Can be installed under the deck.

⚠ WARNING - Pipe must be straight to prevent an air lock (as shown on page 1).

Fig. 12





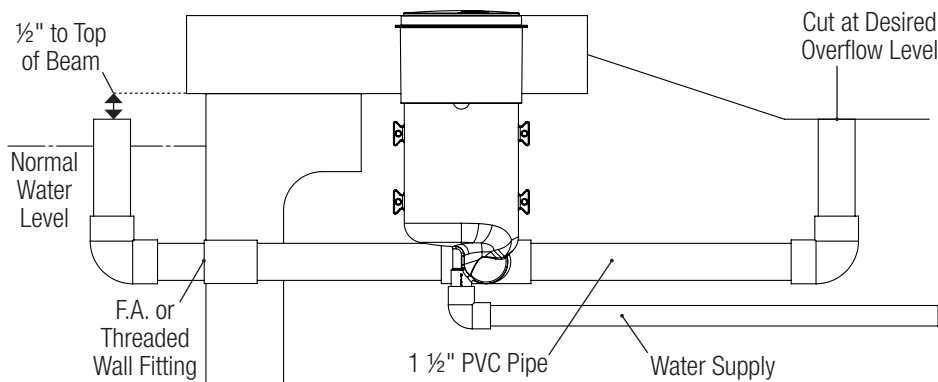
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Paralevel Overflow Set Level

Follow the steps below to ensure that the overflow is set at the proper level. These instructions work with the deck installed or not. If deck is installed the overflow connection must be made outside the deck.

1. Cut off the balance line rough plumbing stub inside the pool.
2. Install a female adapter or threaded wall fitting for final finish. Alternately if a FA is not used or this step is performed in advance of final finish prep; the balance line can be cut long. Skip to step 4.
3. Thread a pipe nipple into the fitting.
4. Attach a 90 degree elbow and a standpipe to the threaded fitting.
5. Measure and cut the standpipe to the desired overflow level (example 1 ½" below the top of beam a 1 ½" pipe will fit below the deck. This will allow the pool to overflow approximately 1 ½" before spilling out the overflow pipe. If using 2" pipe drop to 2" below beam which will allow the pool to over fill 1" before spilling.)
6. Cut the standpipe on the exterior of the pool within a few inches above the desired spill level.
7. Fill the pipe with water and allow it to settle level to the temporary standpipe inside the pool.
8. Cut the exterior stub to match the level of the water in the pipe.
9. Remove the temporary standpipe on the interior of the pool by turning the threaded pipe out of the fitting.

Fig. 13





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Water Level Preset Procedures

This method can also be used to preset the float leveler if the pool is not full of water.

1. Turn on the water supply and flush the feed line to the Paralevel.
2. After the overflow is set cut the standpipe on the interior of the pool even with the desired water level in the finished pool.
3. Install the Paralevel float assembly per the instructions in the manual.
4. Turn on water supply.
5. Set the water level to shut off when the canister fills to the top of the standpipe.
6. Turn off the water supply.
7. When the pool is complete fill with water to almost full, remove the hose and allow the Paralevel to complete the fill to the preset mark. This will eliminate the need to watch the pool closely so it won't overflow on initial fill and can help ensure the pool will be full when startup is scheduled.

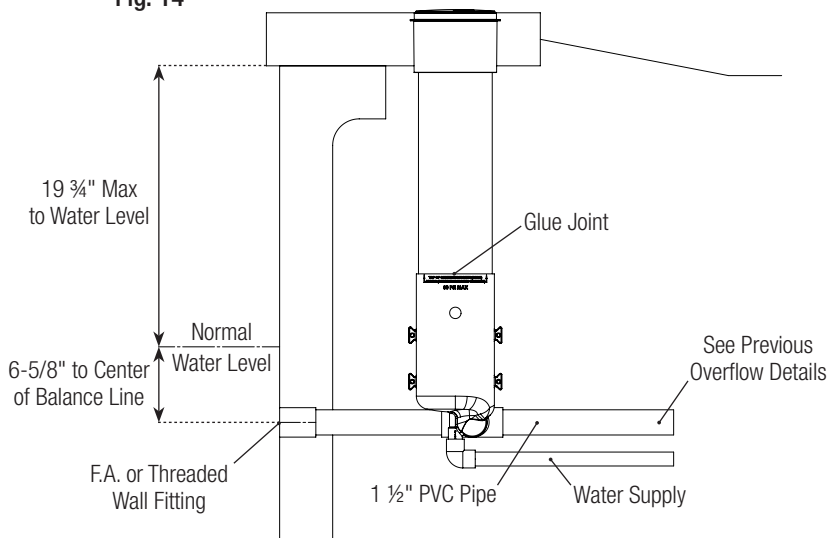
Deck Installations

⚠ WARNING - Before pouring deck make sure the Paralevel main housing has not shifted during construction

Negative Edge/Basin/Raised Deck Installations with Extension Kit

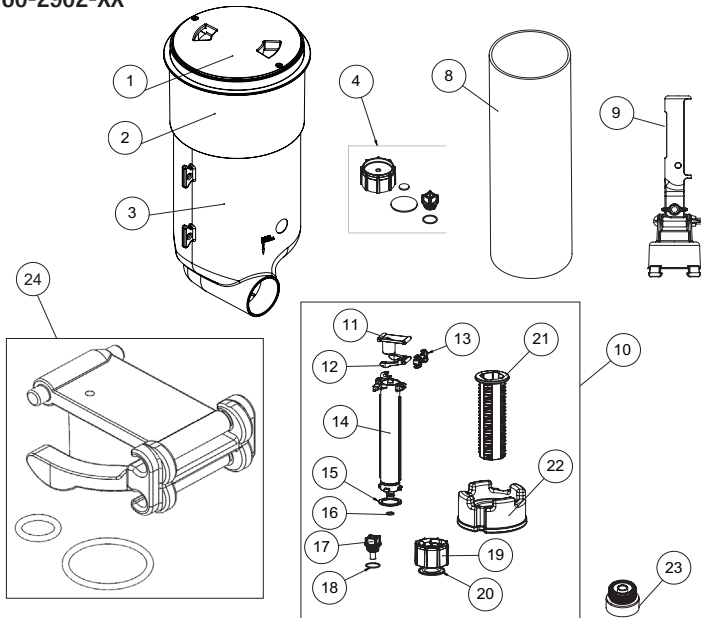
1. If required, an extension kit (005-252-1541-00) can be purchased separately.
2. The extension should be glued in place using PVC primer and gray PVC glue.
3. Use 6-5/8" from normal water level to the center of the balance line.
4. A maximum of 19 3/4" is allowed from the top of beam to the normal water level.

Fig. 14



Replacement Parts

004-760-2902-XX



No.	Part Number	Description	No.	Part Number	Description
1	005-760-2901-XX	Lid	12	Part of Item #24	Lower Lever
2	005-760-2915-XX	Deck Ring	13	Part of Item #24	Link Lever
3		Housing	14	*	Riser Tube
4	005-760-2911-00	Winterization/Pressure Test Kit	15	*	Snap Ring
*		1 1/2" NPT Cap	16	Part of Item #24	O-Ring 2-011 Viton Dur 75
*		Main Seal	17	*	Flow Plug
*		Cap Seal	18	Part of Item #24	O-Ring 2-020 EP70
*		Seal Plug	19	*	Retainer Nut
*		O-Ring 2-020 EP70	20	*	Retainer Ring
8	005-252-1541-00**	Extension Kit	21	*	Adjuster Sleeve
9	004-552-5452-00**	Tool	22	*	Float Body
10	004-760-2921-00	Start Up Kit B	23	005-761-2934-00**	Extension 1"
11	Part of Item #24	Top Lever	24	005-762-2932-00	Linkage Replacement Kit

*Parts are not available separately

**Not part of Paralevel. Order Separately.





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