



Cable Drain for Walk in Bathtubs

**with Door Drain
DC100-XX**

Installation Instruction Manual

For Use By Qualified Service Personnel ONLY.



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For information on NuWhirl Instructions, see:
www.nuwhirl.com/docs/product-instructions.html

WARNING: Use and follow these instructions along with all instructions that have been provided.

Save these instructions.

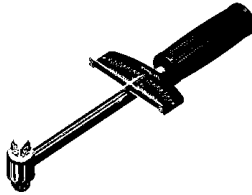
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Figure 1: Tools Needed for Installation



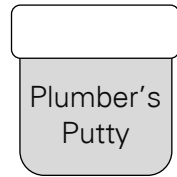
Wrench

Wrench tighten all connections and fittings to one quarter turn past hand-tight.



Torque Wrench

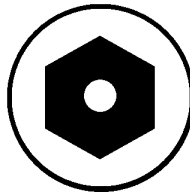
Capable of reading 35-40 in.lbs.



Plumber's Putty



PVC Pipe Cutter



5/16" Hex Socket



PVC Cement



Silicone Sealant & Gun



Tape Measure



Figure 2: Parts List

Part Number	Part Name	Part Quantity
1	Handle Stem	1
2	O-Ring	1
3	Overflow Drain Handle	1
4	Overflow Nut	1
5	Overflow Plate	1
6	Overflow Gasket	1
7	Overflow Body	1
8	1-1/2" PVC Overflow Pipe	Not included in kit
9	1-1/2" Sanitary Tee	1
10	1-1/2" PVC Drain Pipe	Not included in kit
11	Barbed Coupler	1
12	Drain Shoe	1
13	Door Drain Hose And Check Valve	Not included in kit
14	Door Drain	Not included in kit
15	Door Drain Cap	Not included in kit
16	1-1/2" PVC Drain Pipe	Not included in kit
17	Stopper	1
18	Hollow Drain Screw	1
19	Drain Shoe Gasket	1
20	Drain Strainer Gasket	1
21	Drain Strainer	1

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Figure 3: Overview Diagram

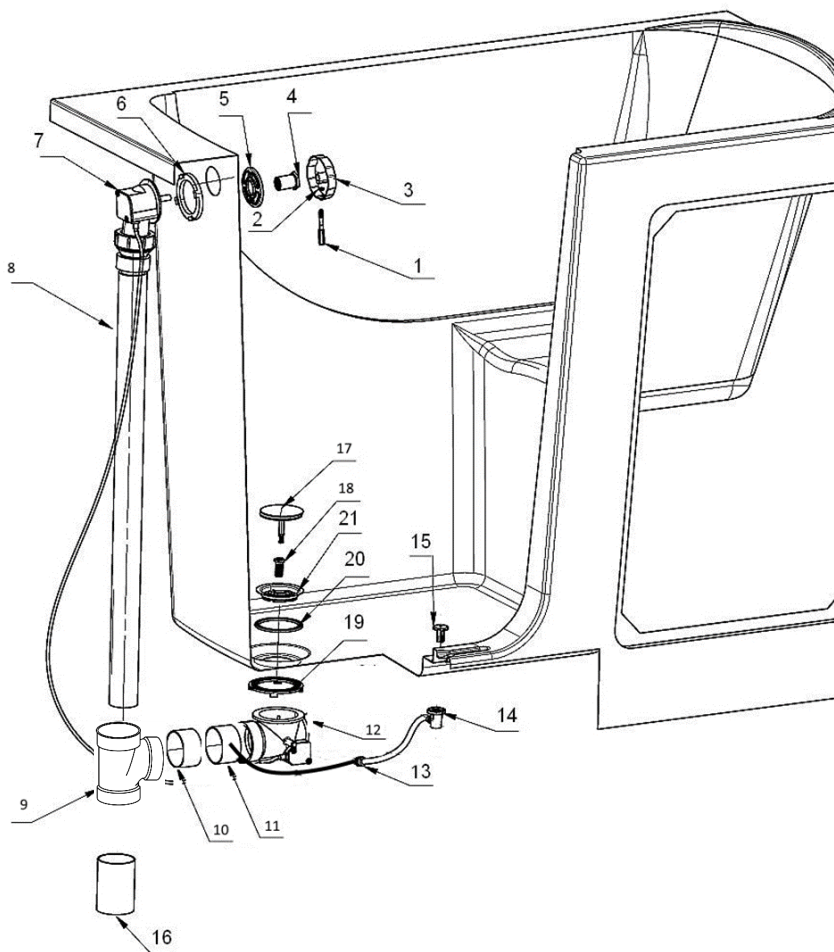
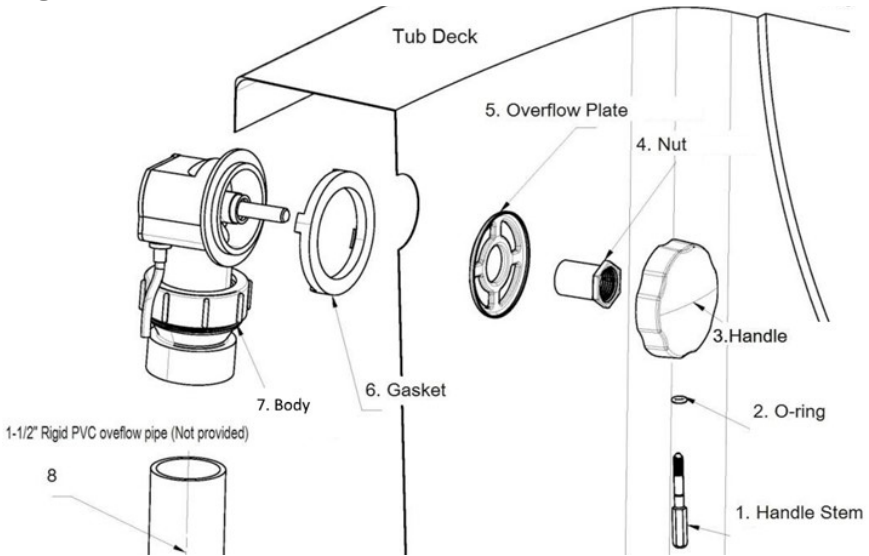


Figure 4: Overflow Installation

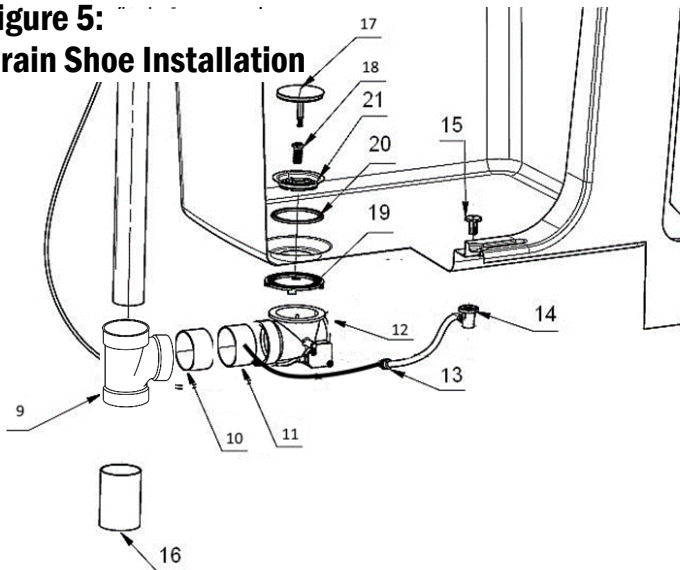


1. Refer to Figure 4 from above. Hole saw size is 2 5/8 inches.
2. Apply Overflow Gasket (6) onto the face of the Overflow Body (7), oriented as shown.
3. Position the Overflow Body (7) behind the tub's overflow hole.
4. Place Overflow Plate (5) from inside the Tub onto the Stem of the Overflow Body (7).
5. Place the Overflow Nut (4) onto the Overflow Body Stem (7). Using a wrench, fasten it snugly (do not overtighten!).
6. Rotate the Brass Stem of the Overflow Body (7) so that the flattened portion is facing down.
7. Apply the O-Ring (2) onto the Handle Stem (1).
8. Apply Overflow Drain Handle (3) onto the brass Stem of the Overflow Body (7), with the opening for the Handle Stem facing down. Leave an approximate 1/8" (3mm) gap between the Knob and the Overflow Plate, to allow the tub water freely into the overflow.
9. The Handle Stem (1) serves as a set screw to secure the Handle (3). Insert it and partly thread by hand. Align it with the flattened portion of the Brass Stem noted in Step 6 and hand-tighten. Using the Socket and Torque Wrench, carefully tighten it to approx. 35-40 in.lbs.
WARNING: Overtightening may result in breakage while insufficient tightening may result in the drain becoming inoperable.
10. Test it for smooth operation.

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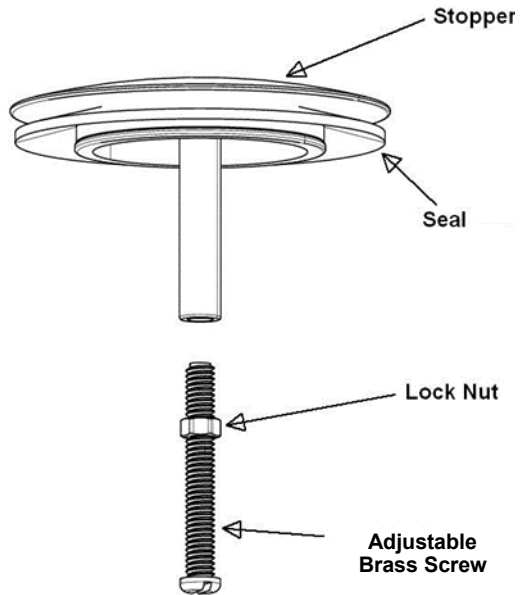
Figure 5:
Drain Shoe Installation



1. Refer to Figure 5 from above.
2. Apply plumber's putty or silicone sealant on both flat sides of the Strainer Gasket (20), and apply it aligned with the pre-cut drain hole on the bottom of the Tub.
3. Apply plumber's putty or silicone sealant to both sides of the Drain Shoe Gasket (19), and apply it to the Drain Shoe (12).
4. Hold the Drain Shoe against the bottom of the Tub aligned to the drain hole that is pre-cut in the Tub, with the pipe connection facing the overflow side. Ensure that the Drain Cable is routed smoothly and evenly for proper operation.
5. Install the Drain Strainer (20), and fasten it to the Drain Shoe (12) with the Hollow Drain Screw (22), using a suitable screwdriver or wrench (do not over-tighten).
6. Dry fit the Barbed Coupler (11) to the Drain Shoe (12), with the Barb horizontal and facing towards the Door Drain.
7. Dry fit the Drain Pipe (10), Tee (9), Overflow Pipe (8), to the Overflow Body (7), and the Drain Pipe (16) to the Drain Trap (not shown).
8. Once you are satisfied with the set-up, disconnect and glue each joint with suitable PVC Pipe Cement.
9. Connect the Door Drain Pipe (13) to the Barbed Coupler (11), and clamp it. Route and secure the pipe so that there are no sags, and it drains easily.
10. Test the drain for smooth operation.

Figure 6: Stopper Adjustment

1. Refer to Figure 6 to the right.
2. Loosen the Locknut, and extend the Screw as far as practical.
3. Install the Stopper in the Bath Drain, and rotate Overflow Drain Handle counter-clockwise to the "fully closed" position.
4. If the Stopper Seal is not fully seated on the Drain Strainer Seat, remove the stopper assembly and adjust the Stem Screw clockwise to shorten it. Repeat until it seats correctly.



5. Rotate Overflow Drain Handle clockwise to the "fully open" position, and see if the Stopper interferes with the opening of the Tub Door. If it does, remove the Stopper and adjust the Stem Screw clockwise to shorten it. Repeat until it clears the door.
6. Operate the Drain "fully open" and "fully closed" to verify correct operation.
7. Once you are satisfied, remove the Stopper and secure its Locknut, being careful to avoid rotating the Stem Screw.
8. Once the pipe cement has cured, run some water with the drain open, and check for leaks.
9. Close the drain, and partly fill the tub. Turn it off, and check/listen for leakage.
10. Completely fill the tub to the overflow, and check for leaks.
11. Turn the water off, and verify that the Drain opens (and remains open) under the full load of water by operating it several times.
12. With the tub full, review and demonstrate the operation of the drain with the customer, using the Handle Stem for added leverage if needed.

