

# Drain Installation Instructions

***The most important tool to use when installing a drain is a licensed plumber. Most manufacturers will not accept warranty claims on items not installed by a licensed plumber.***

Note: We are providing general guidelines for a standard installation as we cannot account for the individuality of the site or items you may be working with.

For new construction or remodel the rough in for the drain hole on the floor is a plumb line from the center of the roll rim on the tub to the floor centered on the overflow hole on the tub.

Rough in 1 1/2" male IPS trap adaptor with 1/2" to 1" of threads above the finished floor.

Most of our drains are 1 3/8" to replicate the original size tub drains. To connect these sets with a 1 1/2" drain use the included 1 3/8" x 1 1/2" square cut reducing washer and 1 1/2" x 1 3/8" slip joint nut (#14).

For installation of faucet and supply lines please see our help section.

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## Tools Needed

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1 1/2" Tubing Cutter



Strap Wrench



P.O. Tool or  
Tub Shoe Remover



Smooth Jaw Pliers



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800017

800222

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Plumber's Putty



800121

Plumber's putty should not be used for installation on acrylic tubs or supercoated brass. The manufacturer recommends using a bead of silicone on the tub shoe flange.

Thread Sealant  
(liquid form)



*Use liquid Thread Sealant ONLY if your tub shoe or overflow is not already put together.*

Liquid thread sealant should not be used for installation on supercoated brass. (The manufacturer recommends using teflon tape on the threaded connections.)

Hacksaw



Teflon Tape



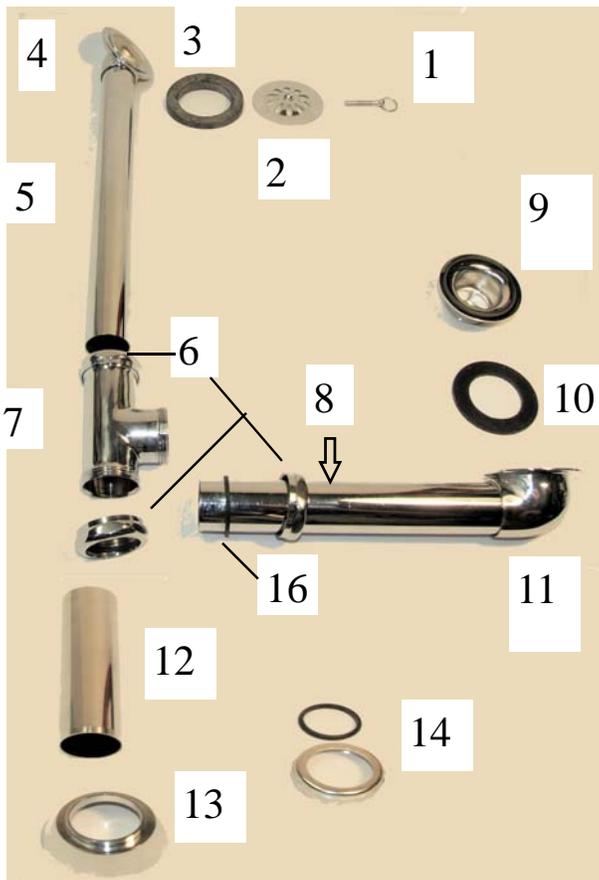
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Silicone



800268

# Drain Parts Description



- 1: Face Plate Screw
- 2: Face Plate
- 3: Overflow Washer (soft foam)
- 4: Overflow Head
- 5: Overflow Tubing
- 6: 1 3/8" Slip Joint Nuts
- 7: Tub Tee
- 8: Tub Shoe
- 9: Tub Shoe Strainer
- 10: Tub Shoe Washer (flat)
- 11: Shoe Head
- 12: Drain Tube Connection (Tail Piece)
- 13: Floor Escutcheon
- 14: 1 1/2 x 1 3/8 Slip Joint Nut and Washer (you may or may not use this piece)
- 15: Stopper and Chain (not shown)
- 16: 1 3/8" Slip Joint Washer

Steps 1 and 2 are for drains other than our drains.

If you purchased your drain from us you may skip to Step 3.

If unsure compare your tub shoe and overflow head/tube with the pictures below.

## Step 1 Assembly of the **Tub Shoe Head** (#11) to the connecting tube (#8).

Apply a liberal amount of Thread Sealant or Teflon Tape to the threaded area on the connecting tube (#8). Screw the connecting tube onto the Tub Shoe Head (#11). Use the strap wrench on the tube and attach the smooth jawed pliers to the shoe to hand tighten, plus a 1/4 turn. (Do not over tighten! We do carry replacement threaded tube. The 12" threaded on both ends 1 3/8" tube part # is 400564. You cut to fit.)



## Step 2 Assembly of the **Overflow Head** (#4) to the **Overflow Tube** (#5).

Apply a liberal amount of Thread Sealant on the threaded area of the overflow tube. (Use Teflon Tape instead of Thread Sealant if the finish is supercoated brass.) Screw the Overflow Head (#4) to the Overflow Tube (#5). Apply the strap wrench to the Overflow Tube and attach the Smooth Jawed Pliers to the Overflow Head to hand tighten plus a 1/4 turn. (Note: over tightening will strip the threaded area.)



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This is what you want them looking like before you start to install the drain

### Step 3 Connecting the **Tub Shoe Assembly** (# 8 & 11) to the drain hole on the tub, the **Tub Tee** (# 7), and to the trap adaptor on the floor.

- A. Place the Tub Shoe Assembly (#8 & 11) onto the bottom of the drain hole on the tub and from inside the tub screw the Tub Shoe Strainer (#9) in loosely . (Fig 1) . Fig. 1-A shows assembly without the tub between the shoe and the strainer.
- B. Place the Tub Tee (#7) above the trap adaptor (floor drain hole) to get an accurate measurement of the length to cut the tube. Be sure the longer end of the Tub Tee is facing upward. (Fig. 2)
- C. Place the connecting tube against the Tub Tee and mark the tube as indicated by the blue arrow in Fig. 2.

Fig. 1 Fig. 1-A



- D. Unscrew the Tub Shoe Strainer (#9) and remove the Tub Shoe. (It is easier to cut the tube if you remove it from the tub.)
- E. Use the tubing cutter and cut the pipe. (Fig. 3) This is when a sharp cutter wheel comes in handy.
- F. Take plumber's putty and roll it into a 3/8" thick rope and apply it to the underside of the Tub Shoe Strainer. (Fig. 4) Note: plumber's putty is not to be used on acrylic tubs or supercoated brass. The manufacturer recommends a bead of silicone.

Fig. 2



Fig. 3



Fig. 4



Fig. 5

- G. Place the Tub Shoe Washer (# 10) with the ribbed side facing up on top of the Tub Shoe. Hold the Tub Shoe under the drain hole in the tub with the ribbed side of the Washer against the outside bottom of the tub. (Fig. 5)



- H. From inside the tub drop the Tub Shoe Strainer into the Tub Shoe and begin to screw in using the P.O. Tool/ Tub Shoe Remover. (Fig. 6) Fig. 1-A shows assembly without the tub between the shoe and the strainer.

Fig 6.



I. Using the P.O. Tool/ Tub Shoe Remover tighten to hand plus 1/4 turn. (Fig. 7) Remove the excess plumber's putty that will ooze out.

Fig. 7



J. At the cut end of the Tub Shoe (#8), slide a 1 3/8" Slip Joint Nut (#6) onto the tube with the threads (grooved end) facing away from the tub. (Fig. 8)

Fig. 8



K. Slide on the 1 3/8" Slip Joint Washer (#16). (Fig. 9)

L. The Tub Tee is then screwed to the connecting pipe using the Slip Joint Nut. Before tightening be sure the longer side of the Tub Tee is pointing in the upward direction in order to give you enough room to adjust the overflow tube receiver. (Fig. 9)

Fig. 9



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## Step 4 Connecting the **Tub Tee** (#7) to the **trap adaptor** (floor hole drain)

To obtain a cutting measurement for the Tail Piece (#12) you will need to determine the length from your trap adaptor (floor hole drain) to the Tub Tee (#7). Sample images of trap adaptors you may have in your home are pictured below. Fig. 10, 11, 12

Fig. 10 ABS



Fig. 11 Brass



Fig. 12 PVC



- Remove slip joint nuts and washer from the trap adaptor on the floor and set aside.
- Place Tail Piece (#12) in trap adaptor with the threaded end up.
- Measure and mark the Tail Piece to the blue line on the Tub Tee as shown in Fig. 13.

Fig. 13



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D. Remove the Tail Piece (#12) from the floor and using the tubing cutter cut the Tail Piece where you marked it. (Fig. 14) Discard the threaded end as the threads are not necessary.

Fig. 14



E. Choose the proper Slip Joint Nut and Washer:

- If the trap adaptor is 1 1/2" use the 1 1/2" x 1 3/8" Slip Joint Nut and Washer (#14) included with the kit.
- If the trap adaptor is 1 3/8" use the Slip Joint Nut and Washer you removed from the trap adaptor and set aside in step A.

F. Take the Tail Piece and slide it into the trap adaptor. Using the Nut and Washer you selected in step E slide onto the tail piece the Washer and then the Slip Joint Nut with the threaded end toward the floor. Tighten the Slip Joint Nut and Washer onto the trap adaptor. Fig. 15 shows assembly to this point.

Fig. 15



G. Slide the Floor Escutcheon (#13) onto the Tail Piece. This is a decorative piece to cover the rough in to the floor. (Fig. 16)

Fig. 16



H. Slide a Slip Joint Nut (#6) with the threaded end up and then a Washer (16) on the top of the Tail Piece and connect it to the bottom of the Tub Tee.

I. Hand tighten the Slip Joint Nut and Washer up to the Tub Tee. Fig. 17 shows the assembly to this point.

Fig. 17



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## Step 5 Connecting the **Overflow Head/Tube** (#4& 5) to the **Tub Tee** (#7) and the **Overflow Drain Hole** on the tub.

A. For measuring purposes attach the Overflow Plate Head Assembly (#4 & 5) to the overflow drain hole on the tub. With the Head/Tubing Assembly on the outside of the tub, and the tubing facing the floor, match the Head to the overflow hole on the tub and loosely screw the Face Plate (#2) to the Overflow Head using the Face Plate Screw (#1). Be sure the Face Plate covers the entire overflow hole on the tub in order for your measurement to be accurate.

Fig. 18



B. With the tube next to the Tub Tee (#7) measure and mark the farthest point the tube will fit inside the Tub Tee. See the blue line on Fig. 18 and Fig. 19.

Fig. 19



C. Remove the Overflow Head/Tubing Assembly from the overflow drain hole by unscrewing the Face Plate Screw. Using the tubing cutter cut the Overflow Tube where you marked it in step B. (Fig. 20)

Fig. 20



- D. Slide a 1 3/8" Slip Joint Nut with the threaded end facing down and then a 1 3/8" Slip Joint Washer onto the cut end of the Overflow Tubing.
- E. Place the cut end of the Overflow Tubing into the Tub Tee (#7) and slide the Washer and Slip Joint Nut into place and hand tighten.
- F. Place the beveled Overflow Washer (#3) onto the overflow plate head with the wider end of the Washer towards the floor.
- G. While holding the Overflow Washer on the Head place the Washer and the Head against the outside of the tub on the back side of the overflow hole. (Fig. 21)
- H. From inside the tub attach the Face Plate (#2) with the Face Plate Screw (#1). (Fig. 22) It is likely the Face Plate Screw will be too long and will need to be cut to fit. Make sure the Screw is all the way in and the Overflow Plate is pushed onto the tub. Carefully measure and cut off the excess of the screw using a hacksaw. (Fig. 23) (Remember it is better to leave a margin for error by cutting the Screw too long as you can always make an additional cut if needed.) Reattempt assembly using the cut Screw until the Overflow Plate Head/Washer Assembly fits snugly against the outside tub wall and the Face Plate fits against the inside overflow drain hole.

Fig. 21



Fig. 22



Fig. 23



## Step 6 Tighten all connections and test!

Using the strap wrench tighten all of the Slip Joint Nuts to hand tight plus 1/4 turn. You can use Smooth Jawed Pliers, but be careful, it can leave marks on your new finish. (Fig. 24) Make sure all connections are tight. A water test is recommended at this point.



Fig. 24

## Complete Assembly (Without the tub.)



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