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## 862 Series Outlet Boxes for Wood & Concrete Floors

### INSTALLATION INSTRUCTIONS

Installation Instruction No.: 43367R2 – Updated August 2006

**IMPORTANT: Please read all instructions before beginning.**

#### Products Covered:

**Floor Box Only:** 862

**Floor Box & Cover:** 862CK-1/2, 862TCK-1/2, 862CKAL-1/2, 862TCKAL-1/2

**Floor Box, Cover & Receptacle:** 862DB, 862C, 862GFI, 862TGFI, 862SP, 862TSP, 862TCAL, 862TAL, 862GFICAL, 862TGFIAL, 862SPCAL, 862TSPAL

#### APPLICATIONS:

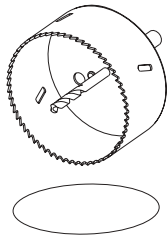
862 Series Floor Boxes can be installed in either a wood floor or a concrete floor on-grade application. When mounting wire to the 862 Series Floor Box, use the appropriate 3/4" trade size cable connector. When mounting rigid plastic conduit to the 862 Series Floor Box, use a male PVC conduit fitting adapter.

#### NOTES:

- Wire cable connectors and conduit fitting adapters are not included.
- Purchase kit (862KIT) when installing in a concrete floor. Kit includes a mud cap, gasket, and two 3/4" trade size male PVC conduit fitting adapters.

### BOX INSTALLATION – WOOD FLOOR

1. Determine the floor box location. (Make sure the placement does not interfere with obstructions below such as floor joists, HVAC duct, light fixtures, etc.) For a flush installation in hardwood or tile floors when using the tile version covers – cut a 4 1/2" [114mm] diameter, (See Table 1 – Depth of Cut "A") deep step in the finished floor covering. **DO NOT CUT THROUGH THE FLOOR.** (See Alternate method of cutting Step #4)



2. Using the pilot hole from step 1 drill a 3 3/4" [92mm] hole through the floor. Carefully remove the material on the depth of cut ledge by chipping it away with a chisel or flat screwdriver blade.



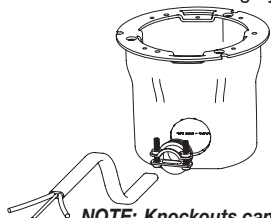
4. Alternate method of cutting 3/8" [10 mm] step in wood floor. Drill a hole through the wood flooring using a 3 3/4" [92mm] hole saw. Determine the depth of cut needed for your application using Table 1 or Table 2. Set the router to the correct depth of cut and use a rabbeting bit with a 3/8" [10 mm] rabbet to route the step into the wood floor.

3. When mounting on carpet, cut a 4 1/2" [114mm] diameter, (See Table 2 – Depth of Cut "B") deep step in the sub-floor to leave a 1/8" [3.2 mm] gap to sandwich the carpet between the cover and the floor. If your carpet is thicker or thinner than 1/8" [3.2 mm], adjust the numbers in Table 2 accordingly. Remove the material on the depth of cut step by chipping it away with a chisel or flat screwdriver blade.

5. Pull the nonmetallic sheathed cable or armor-clad cable up through the hole.

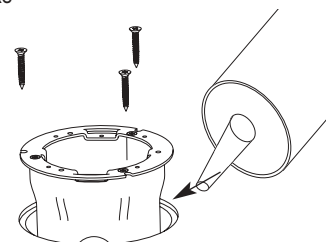


6. Remove the appropriate 3/4" trade size knockout and attach a cable connector to the box. Attach the wiring system to the box.



**NOTE: Knockouts can be scored with a razor knife for easier removal. If pass through wiring is desired, use one of the side knockouts and the bottom knockout unless you have access to make connections to the box from under the floor.**

7. Orient the box to the desired rotation and push it into the hole. Adjust the box to make sure the receptacle will be parallel or perpendicular to any adjacent walls. Use three #6 x 3/4" wood screws provided to attach the box to the floor. Caulking or grouting around the metal ring on the box once mounted in the floor is required to maintain scrubwater compliance.

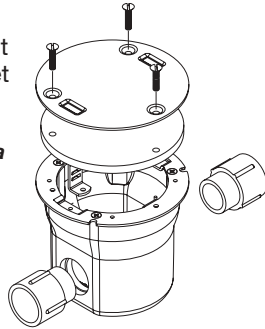


# BOX INSTALLATION – CONCRETE FLOOR ON-GRADE

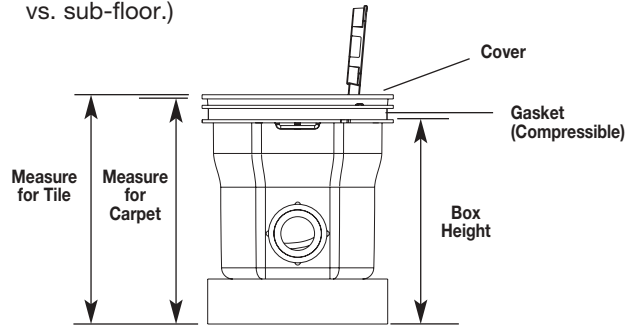
1. Purchase Kit No. 862KIT.

2. Attach the desired number of conduit connectors, the mud cap, and gasket to the 862 Series Floor Box.

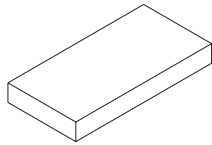
**NOTE:** Knockouts can be scored with a razor knife for easier removal.



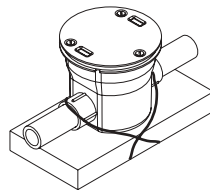
3. Determine the needed height the box will sit below or above the concrete screed line so that a flush assembly can be achieved once the cover is attached to the box and the finished tile or carpet flooring is in place. (Use Table 1 and Table 2 as guides. Pay particular attention to where the depth of cut measurement is taken – finished vs. sub-floor.)



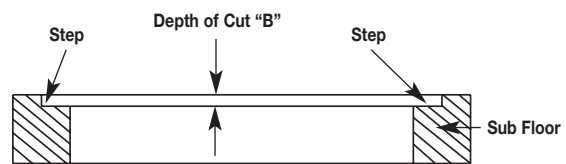
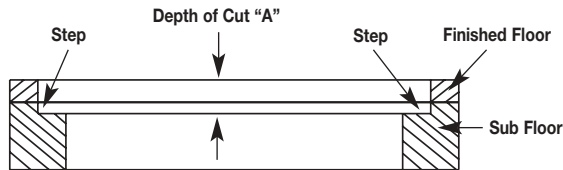
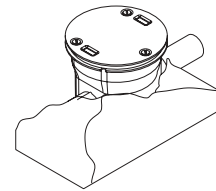
4. For mounting on grade, level a concrete block taking note of the box height with mud cap and the desired finished (tile or carpet) floor height above the screed line.



5. To prevent box from floating during concrete pour, the box should be attached to the block. One method would be to clamp the box to the block using wire.



6. For additional security, use a small amount of cement around the box to lock it in place before the final pour.



**TABLE 1 – DEPTH OF CUT “A”**

DEPTH OF CUT IN FINISHED FLOOR FOR FLUSH MOUNTING IN TILE			
COVER	Inches	[mm]	Fraction
895T	0.375	[9.5mm]	3/8
895TGFI	0.375	[9.5mm]	3/8
895TSP	0.312	[7.9mm]	5/16
896TCK-1/2	0.187	[4.7mm]	3/16
895TCAL	0.375	[9.5mm]	3/8
895TGFIAL	0.375	[9.5mm]	3/8
895TSPAL	0.312	[7.9mm]	5/16
896TCKAL-1/2	0.187	[4.7mm]	3/16

**TABLE 2 – DEPTH OF CUT “B”**

DEPTH OF CUT IN SUB-FLOOR FOR CARPET MOUNTING (1/8" Gap for Carpet)			
COVER	Inches	[mm]	Fraction
895	0.156	[3.9mm]	5/32
895GFI	0.156	[3.9mm]	5/32
895SP	0.0625	[1.5mm]	1/16
896CK-1/2	No Cut Needed		0
895TAL	0.156	[3.9mm]	5/32
895GFICAL	0.156	[3.9mm]	5/32
895SPCAL	0.0625	[1.5mm]	1/16
896CKAL-1/2	No Cut Needed		0

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