

# DETERGENT PUMP INSTALL INSTRUCTIONS

## 20545 KIT

The install kit comes with all the parts necessary for install either inside the dishwasher or mounted on the wall.

The parts are:

- 1 x peristaltic type pump
- 1 x Filter
- 1 x Injector
- 14ft x Clear Tubing (4m)
- 1 x Mounting Bracket
- Hardware to mount the pump inside the dishwasher
- Hardware to mount the pump on the wall



There are two ways this pump can be installed, inside the dish machine or on the wall next to the dish machine. In both cases, it is highly recommended that the pump kit be installed before the tabling is secured to the dishwasher. This is especially true if this is a corner installation.

However, if the dishwasher is already secured to the tabling, all is not lost. Only the corner installation will be problematic. The tabling located in front of the dishwasher should lift about an inch to clear the front bottom panel.

### Internal Install option

This is to install the detergent pump inside the dishwasher and be hidden from view where only the tube that goes into the detergent container will come out the bottom of the unit.



### Steps:

1. Remove front bottom panel. This can be

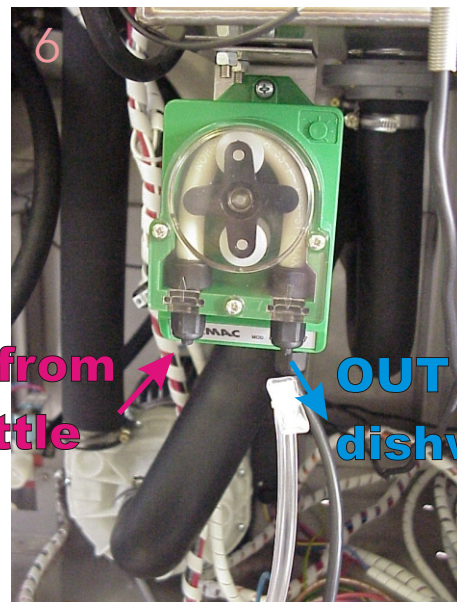
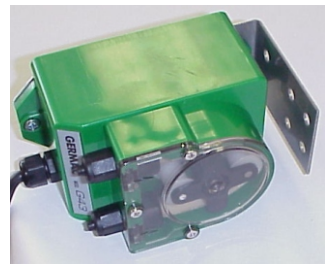
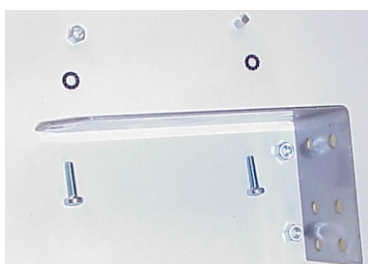
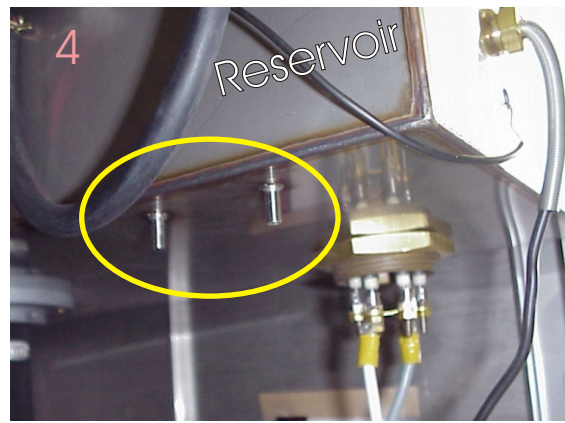
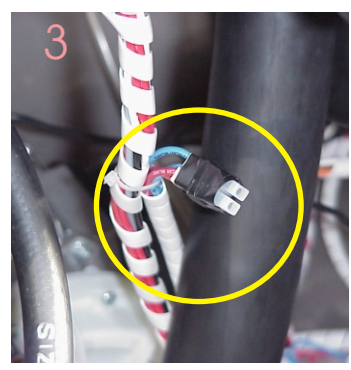
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done by unscrewing two Phillips type (+) screws at the bottom, pulling from the bottom, and lifting the panel.

2. Locate clear tubing inside the dishwasher. This tubing can be found laying at the bottom of the unit. The end of the tube is tied.
3. Locate the electrical connection. These wires can be found tied with a wire harness in the center of the unit. The ends of the connectors are usually attached with electrical tape.
4. Locate mounting screws. Those are located under the wash reservoir, next the wash heater.
5. Take mounting bracket and secure pump to it using mounting screws. Install the assembly to the mounting screws, under the wash reservoir.
6. Cut end piece of tubing and connect to pump output.

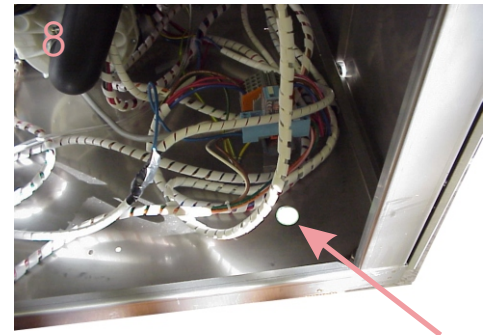
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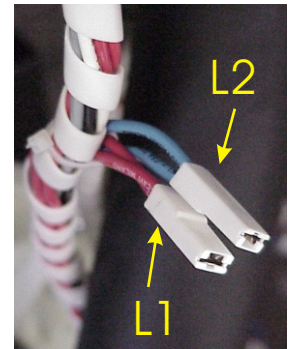
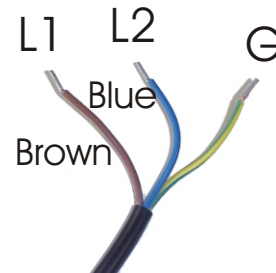
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7. Take the tubing that was supplied in the kit and connect to pump intake.
  8. Pass tubing through bottom opening and next to dish machine.
  9. Connect filter to the end of the tubing.
  10. Unravel the electrical connection. Connect the blue wires together and the brown and red together. The ground wire should be connected to the base of the dishwasher. Secure connections.
- Done



Hole



### Wall mount option

#### Steps:

- Remove front bottom panel. This can be done by unscrewing two Phillips type (+) screws at the bottom, pulling from the bottom, and lifting the panel.
  - Locate clear tubing inside the dishwasher.
  - Locate the electrical connection.
  - The detergent pump should be on the Right side of the dishwasher because there is not enough tubing and wiring for the other side. The pump should be just above the dish-tabling, about 6 inches.
  - Mark on the wall where the pump will be installed and put in the anchors.
  - Mount pump on the wall with the screws. The electrical wire should be facing downward.
  - Make hole in back cover, 5 inches inside the panel and about three inches down. The hole diameter should be ½ inch.
  - Cut end piece of tubing and connect to pump output
  - Take the other tubing and connect to pump intake
  - Pass tubing through the new opening and next to dish machine.
  - Connect filter to the end of the tubing.
  - Unravel the electrical connection.
  - Connect the blue wires together and the brown and red together. The ground wire should be connected to



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the base of the dishwasher. Secure connections.  
Done

## **Chemical Products**

Two different products are needed for the correct use of the washer: A detergent and a rinse agent. These two products are available in liquid form or powder. A clear plastic tube for each pump is at the base of the machine is for the rinse agent.

The products are a Sodium Hydroxide for the detergent and a surfactant isopropanol for the rinse. NEVER use a chlorinated base product like a sanitizer for the rinseaid pump. An alkaline solution like Jet-Dry is good. Quantities will vary with water quality but as a guideline there should be 200 ppm for the detergent and 50 ppm for the rinse-agent. Those products are available from any chemical company. If you need, we can refer you different companies.

Should you run out of these products, you can use residential brand product as a temporary measure. Do NOT use soap that produces suds. Use those products that are sold for dishwashers. Good quality chemical product will improve the washing.

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### Adjusting the Detergent Soap

The pump is factory adjusted to about 1/3 of capacity.

To change the setting;

- Remove the cap that covers the adjustment screw
- Using a small screwdriver, turn the screw clock-wise for more and vice-versa.
- Adjustment is best done during the fill cycle and the rinse cycle.

### Specs

- max. delivery 3,0 l/h
- Uses a thermoplastic tube for detergent (20xxx)

