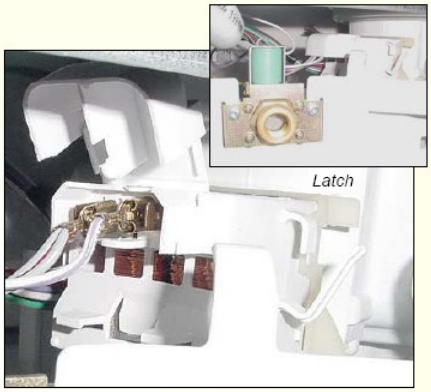
Part # 5 -- Drain Pumps

Drain pumps are mounted to sumps in the front of dishwashers -- they're easily accessible from the front of dishwashers by removing toe kicks.



To remove & install drain pump:

Tools needed: small flat blade screwdriver (for locking terminals).

- Remove toe kick/base cover, pull up terminal cover and disconnect wires (using screwdriver to unlock locking terminals).
- To remove pump, pull latch (on circular collar) & rotate pump clockwise (cw). To install new pump, insert @ 2:00 position & rotate counterclockwise (ccw).
- Clean water & debris from base, then check float operation.
- Connect wires, then install base cover & toe kick.

TIP: Often improper installation issues cause dishwashers to not drain properly, not drain pump problems.

NOTE: Drain pump is rated 120V, 60 Hz, 35W, 0.85A.

NOTE: Standard 6-vane drain pumps (# **167082**) are quieter and smoother than 4-vane pumps. Drain pumps used in installations (in Washington State) with Johnson Tees must use stronger 4-vane pumps (# **184178**). 4-vane pumps will be slightly noisier, which is normal.

DRAIN HOSE INSTALLATION TIPS:

- Must have drain hoses with high loops (min. 20" high) or drains with air gaps.
- Drain hoses can be up to 10' long – can add up to 4' to dishwasher hose.
- Secure drain hoses to rear of dishwashers with non-metal bands.
- Make sure drain hoses aren't kinked.

Service Tips – Improving Pump Flow

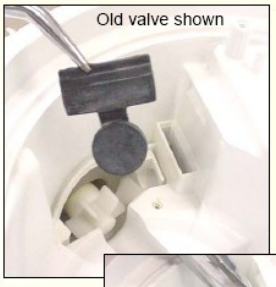
Using air gaps or (min. 20") high loops is crucial to prevent drain pump cavitating and siphoning.

Cavitating may occur in any type of pump when impellers spin faster (from low inlet or outlet pressure), creating air pockets around impellers. Cavitating pumps can be noisy. Air gaps/high loops keep water contacting pump outlets, preventing air pockets from forming.

Siphoning may occur in any type of drain pump when low water flow allows a siphon (suction) to develop, pulling waste water back into the pump. Sump check valves along with air gaps/high loops prevent siphons from being created.

During mid 2003, drain pump covers were changed to improve water flow and resistance to jamming. Part # is still **165263**.

Drain pump performance can be optimized if these parts are replaced when drain pumps are replaced.



During mid 2003, check (backflow) valves were changed to provide superior leak resistance. The new material is leak proof. Part # is still **165262.**