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# CONNECTION INSTRUCTIONS

## PUMP AND MASTER RELAYS

### 400 SERIES PADDLE SWITCH CONTROL LEVELING SYSTEMS

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Because of mounting issues, it is recommended to replace both relays at the same time. It will be necessary to purchase the appropriate band clamp for the diameter of the motor on the existing pump. New cables and jumper wires may need to be purchased if the existing equipment is corroded or is not long enough.

Relays are labeled "MASTER" or "PUMP" and must be wired correctly according to the diagram below. Damage to the relays or other system components may result from improper wiring.

**It is important the pump has a good, solid frame mount to supply ground for the motor and relays. It is recommended to remove the pump mounting bolts and clean corrosion from the pump mount. It is a good idea to use new bolts and lock washers. Protect the pump mount and bolts from corrosion when repair is complete.**

Pump motor stud may be in a different location than shown.

Relays may be rotated to different positions on the pump motor.

Lock washers are to be installed between the wire ring terminal and the relay surface.

\*The master relay ground may be connected to the pump motor or a good frame ground.

After repair is complete, the connections on the relays and pump motor should be protected from corrosion.

**It is important to label and note wire locations before removing existing relays. Improper wiring can cause component damage.** Specific wiring diagrams for the 400 series system are in the ML7879 repair manual and can be from [www.hwh.com](http://www.hwh.com) or from HWH technical service at 800-321-3494 or 563-724-3396.

