
CONNECTION INSTRUCTIONS

MASTER RELAY

TOUCH PANEL CONTROLLED COMPUTERIZED SYSTEMS

A master relay (continuous duty) is used on most touch panel controlled, computerized, automatic HWH hydraulic leveling systems. The replacement relay may look and mount differently than the existing relay. The existing band clamp should work with the replacement relay. **These instructions will not work for the 400 series paddle switch systems.** Refer to MI15.2013 at www.hwh.com for 400 system connection instructions.

The master relay is a continuous duty relay. **DO NOT** connect a master relay directly to the pump motor. This could damage the relay.

The two large posts are the input and output terminals. Either post can be used for input or output.

The two small posts are for the relay coil. One post must connect to ground. The other post is connected to the switched +12 control wire. Either post can be used for ground or control.

The diagram below shows the basic wiring for a master relay. Additional wiring may be present on vehicles equipped with HWH slide-outs or other HWH hydraulic equipment. **It is important to label and note wire locations before removing existing relays. Improper wiring can cause component damage.** Specific wiring diagrams can be obtained from www.hwh.com or from HWH technical service at 1-800-321-3494 or 1-563-724-3396.

Important: Some HWH hydraulic leveling systems do not have a HWH control system. Relays on these pumps are wired differently. Refer to the vehicle manufacturer for specific wiring instructions for these systems.

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

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

The black 6800 wire may or may not be fused.

On older models, the 8500 wire may be red.

6230 (White) ground wire from harness or 725 I/O module on pump/manifold assembly
This wire may connect to the ground stud on the side of the pump or go directly to a frame ground or pump mounting bolt. It may also connect to a ground stud on the pump motor.

6800 (Black) wire from harness or 725 I/O module on pump/manifold assembly. This wire may or may not be fused.

8500 (Black) wire from harness or 725 I/O module on pump/manifold assembly. Switched +12 control. This may be a red wire on 510 systems and early 610 systems.

