

WATER PUMP OPERATION

Water Pump • MQ Part #805774

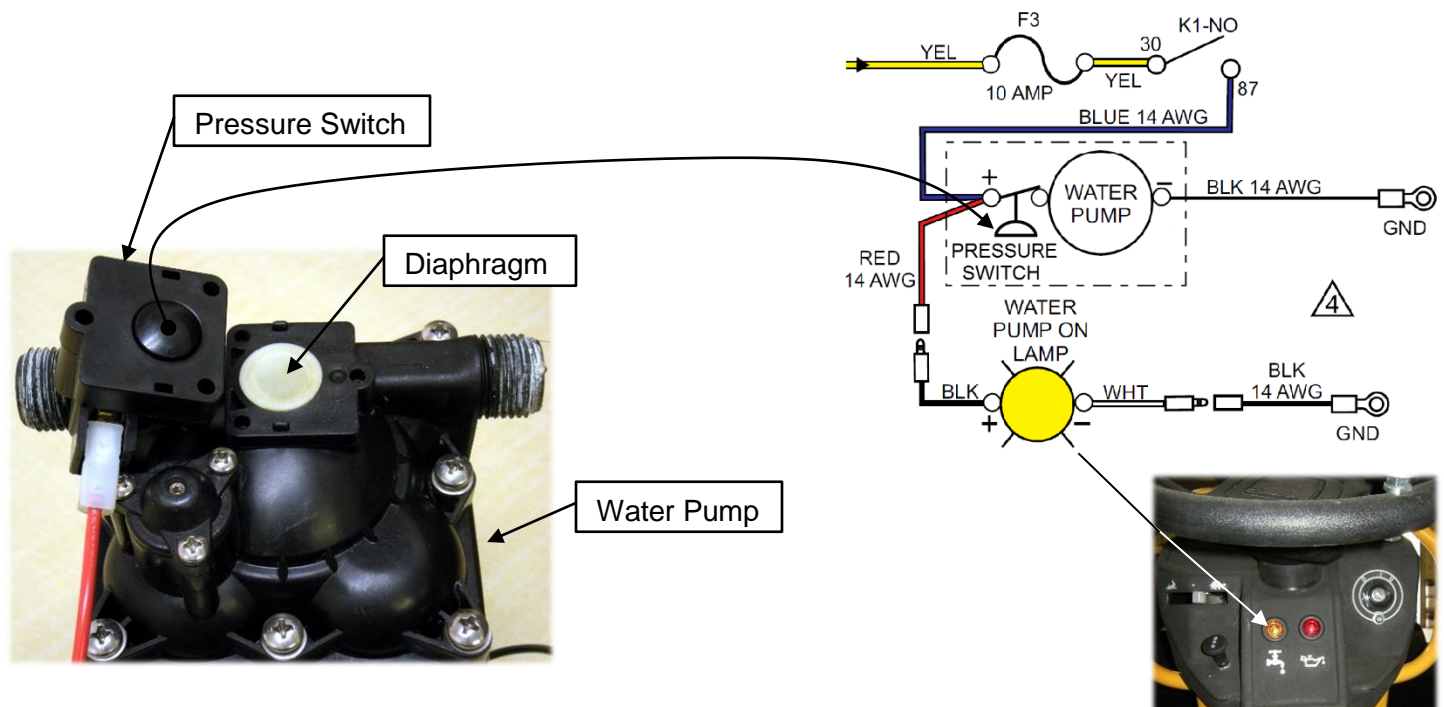
The electric water pump provides water to sprinkle the compaction drums to prevent material sticking.

On the dashboard, an amber light indicator illuminates when the water pump switch located on the travel lever is activated. The amber light is NOT an indicator that the pump is working. It only indicates 12 volts is present at the water pump. When the water pump motor is on it is audible and produces subtle vibration. In addition to the amp 10 fuse, the pump motor is protected by thermal overload with automatic reset.

OPERATION

- The water pump features an integral pressure switch, which is closed under normal operation.
- The pressure switch is controlled by a diaphragm located directly underneath the pressure switch.
- The diaphragm is controlled by water flow in the pump.
- The water flow is controlled manually by the water volume control valve located on the right side of the driver seat. (see next page)

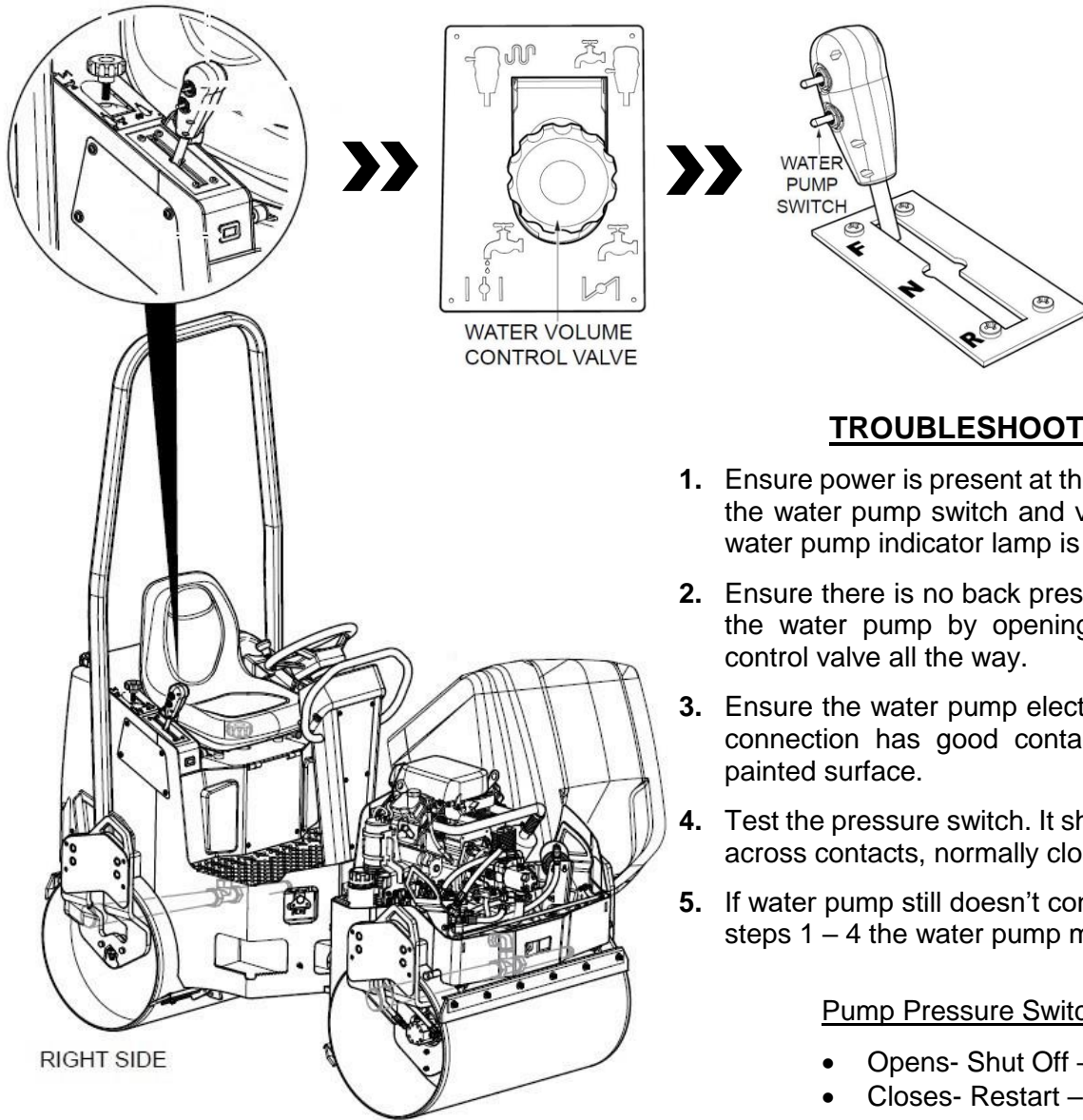
A closed water volume control valve will cause water flow to deadhead and create back pressure. As pressure builds, the diaphragm will rise and make contact with the pressure switch, which opens at 55 PSI, shutting off power to water pump motor. When the water volume control valve is opened and line pressure decreases to 40 PSI the diaphragm will close the pressure switch turning on the water pump motor.



Continued on next page - troubleshooting

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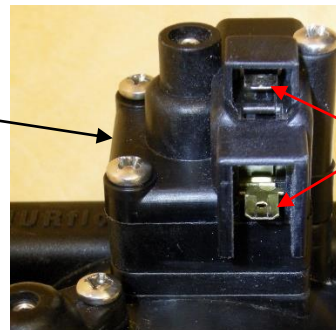
TROUBLESHOOTING

1. Ensure power is present at the pump by activating the water pump switch and visibly inspecting the water pump indicator lamp is on.
2. Ensure there is no back pressure at the output of the water pump by opening the water volume control valve all the way.
3. Ensure the water pump electrical chassis ground connection has good contact and is not on a painted surface.
4. Test the pressure switch. It should have continuity across contacts, normally closed switch.
5. If water pump still doesn't come on after following steps 1 – 4 the water pump may be defective.

Pump Pressure Switch ON/OFF

- Opens- Shut Off – 55PSI
- Closes- Restart – 40PSI

Pressure Switch



Contacts