

### Albinus Integrated Pressure Switch SKU 02-99-033 Integrated Pressure Switch WPS 12V / 24V SKU 02-99-034 Integrated Pressure Switch WD 12V / 24V

#### Integrated Pressure Switch for:

- **Water Pressure System WPS 2.6 12V, WPS 3.5 12V / 24V**
- **Water Pressure System WPS 4.0 12V / 24V, WPS 5.3 12V / 24V**
- **Wash Down Pumps WD 3.4 12V, WD 5.2 12V / 24V**

For the following pumps:

part no. 02-01-003 Water Pressure Pump WPS 2.6 9.8 L/min (2.6 GPM) 12V 10A ½" hose  
part no. 02-01-004 Water Pressure Pump WPS 3.5 13 L/min (3.5 GPM) 12V 10A ½" hose  
part no. 02-01-005 Water Pressure Pump WPS 3.5 13 L/min (3.5 GPM) 24V 5A ½" hose

part no. 02-02-006 Water Pressure Pump WPS 4.0 15 L/min (4.0 GPM) 12V 10A ½" and ¾" hose  
part no. 02-02-007 Water Pressure Pump WPS 4.0 15 L/min (4.0 GPM) 24V 5A ½" and ¾" hose  
part no. 02-02-008 Water Pressure Pump WPS 5.3 20 L/min (5.3 GPM) 12V 15A ½" and ¾" hose  
part no. 02-02-009 Water Pressure Pump WPS 5.3 20 L/min (5.3 GPM) 24V 8A ½" and ¾" hose

part no. 02-04-014 Wash Down Pump WD 3.4 12.9 L/min (3.4 GPM) 12V 15A ½" hose  
part no. 02-04-015 Wash Down Pump WD 5.2 20 L/min (5.2 GPM) 12V 20A ½" hose  
part no. 02-04-016 Wash Down Pump WD 5.2 20 L/min (5.2 GPM) 24V 10A ½" hose

#### Operation:

When water is tapped from the system, for example from a faucet, a shower head or a spray nozzle, the pressure in the water supply system will drop. At a factory-set cut-in pressure the WPS or WD pump's integrated pressure switch will automatically turn on the pump to boost the water system pressure, providing continuous, pulsation free flow. The WPS or WD pump automatically turns off when the pre-set cut-off pressure is reached.

A check valve on the outlet maintains the pressure in the water system between uses so that pressurized water is always available.

#### Technical Specifications:

##### WPS

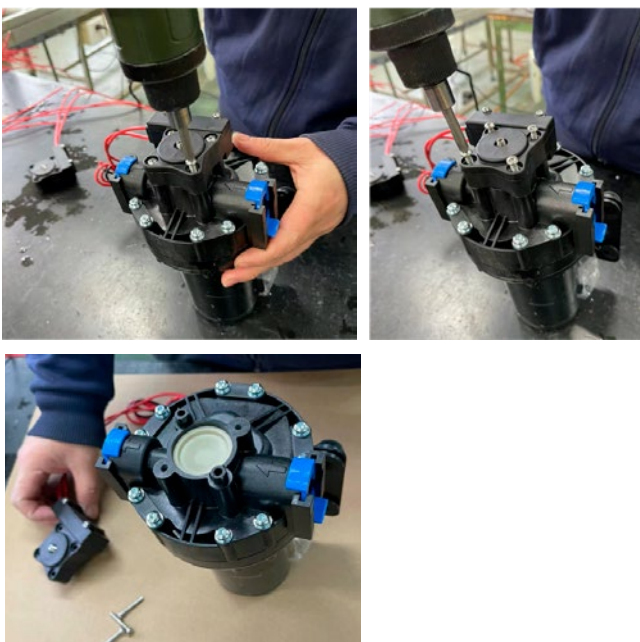
Cut-in pressure: 1.7 bar (25 psi)  
Cut-off pressure: 2.8 bar (40 psi)

##### WD

Cut-in pressure: 3.7 bar (54 psi)  
Cut-off pressure: 5 bar (70 psi)

#### Replacement of the Integrated Pressure Switch:

1. Disconnect the pump from the battery
2. Remove the pump from its mounting and water hoses.
3. Unscrew the four screws attaching the switch box to the pump. Remove the switch box.



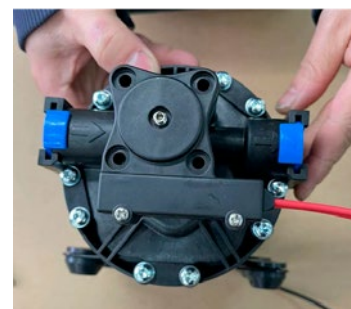
4. Lever the switch diaphragm and remove it.



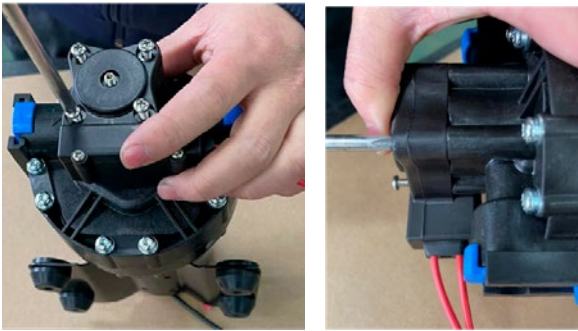
5. Cut the connector on the red wire that connect the old switch box to the motor. Discard the old switch box and diaphragm.



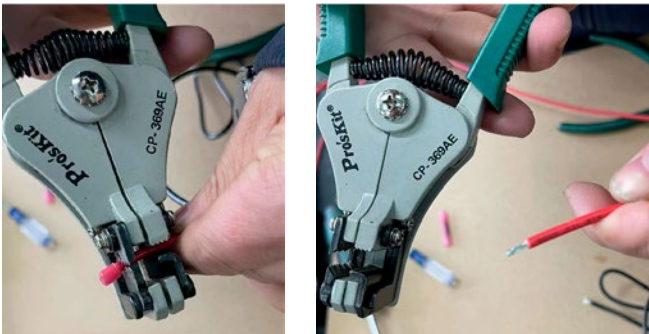
6. Put the new diaphragm on the new switch box. Then place this assembly back on the pumphead.



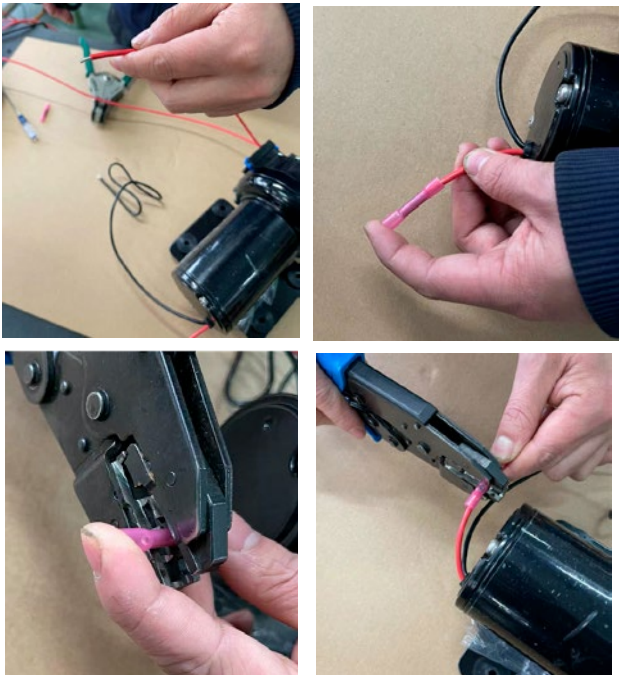
- Manually screw in the 4 screws to attach the new switch box to the pump. Make sure there is no gap between the switch box and the pumphead after this step.



- Use a wire stripper to take out the original connector on the red wire that connected the motor to the switch box.



- Use the new connector to connect the SHORTER wire of the switch box to the red wire of the motor (the wire you just cut and removed the connector with a stripper). Use a wire crimper to crimp both sides of the connector onto the wires.

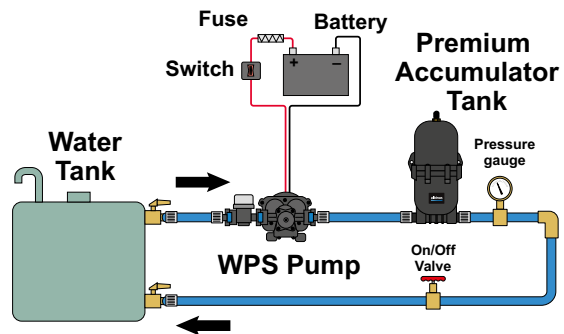


- Use a heat gun to to skrink the plastic tube of the connector so that it completely covers the red insulation skin of the wires on both sides.



#### Adjustment of Cut-Off Pressure:

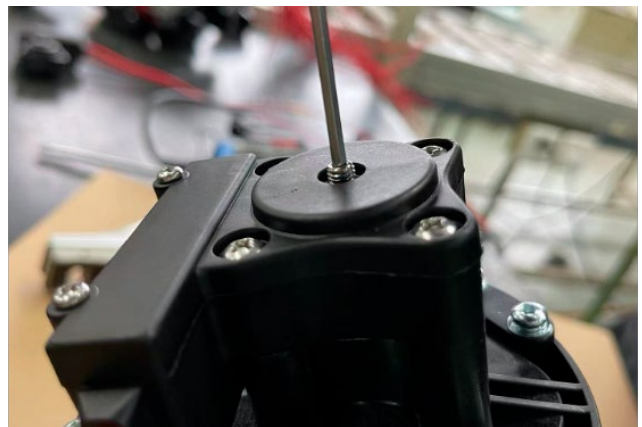
- Set up a "test bench" to adjust the switch pressure.



- Use a 2.5mm hexagon wrench to adjust the cut-in and cut-off pressure.



- Turn the wrench clockwise to screw the spring in a little bit.
- Turn on the pump, let it draw water from the water tank.
- Gradually turn the water valve off (manually) and watch the pressure gauge. When the pressure is about 2.8 bar to 2.9 bar (for WPS pumps SKU 02-99-033) / 5.0 bar to 5.1 bar (for WD pumps SKU 02-99-034), stop closing the water valve and hold it as is.
- Slowly turn the hexagon wrench anticlockwise to screw out the spring. When the switch inside the pump turns off the pump automatically, stop turning the wrench. The switch should be OK now.



- To check if the switch is set correctly, you can turn the water valve completely on and turn on the pump. Then slowly turn off the valve, until the pump switch starts cycling. The pump will stop on the "cut-off" pressure, and then the pressure will drop. When it drops to the "cut-in" pressure, the pump will start to work again. You can slightly turn the wrench to adjust the switch a little.
- Remount the pump and connect to the water hoses of your system.
- Re-connect the pump to the battery.



#### Waste handling & material recycling

At the product's end of life, please dispose of the product according to applicable law. Where applicable, please disassemble the product and recycle the parts according to material.

# Albin Group

since 1928

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