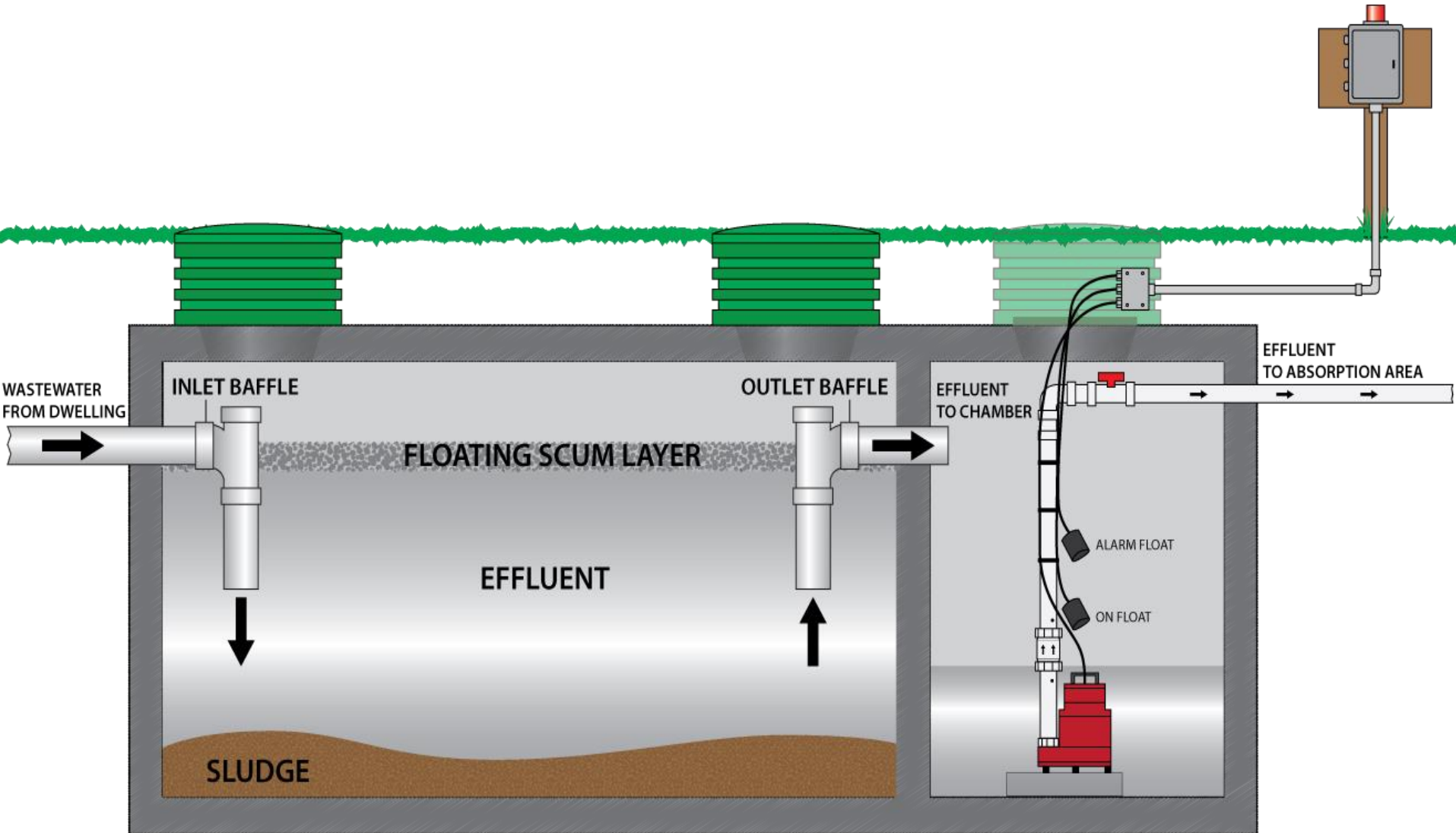


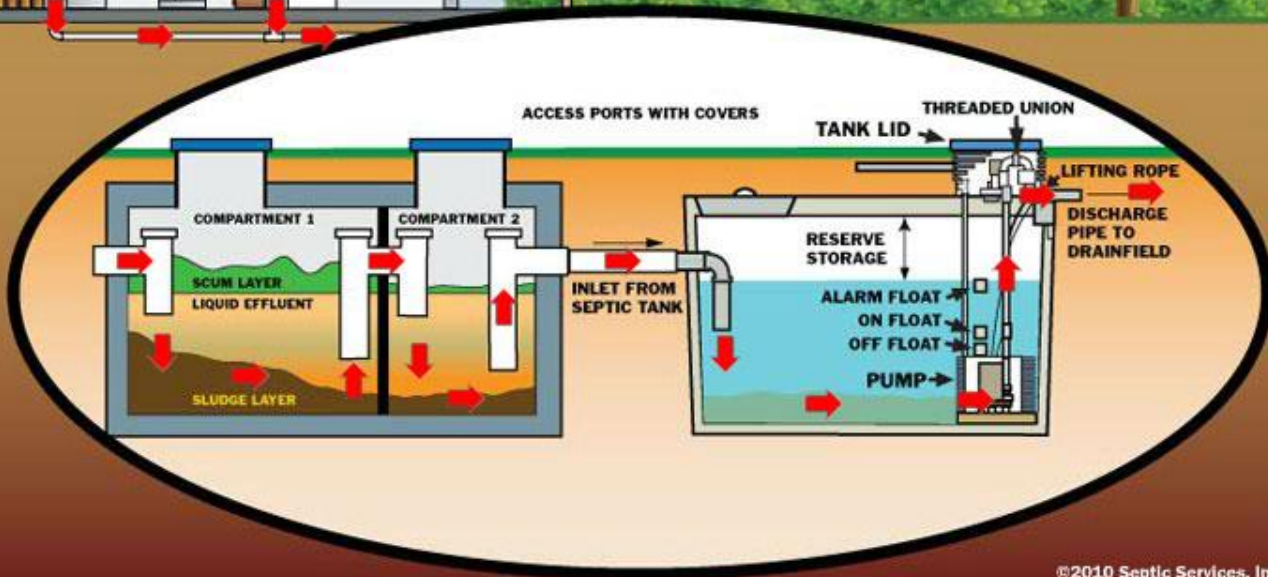
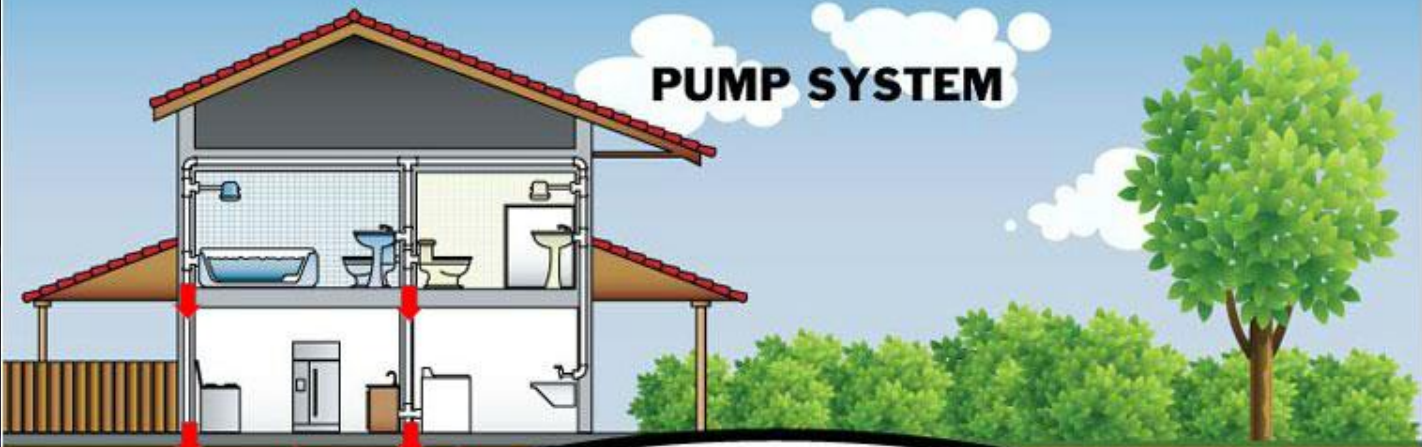
PUMP CONTROLS, FLOATS, PANELS AND INSTALLATION



Typical Septic & Pump Tank



PUMP SYSTEM



Typical Lift Station



TYPES OF FLOATS AND SWITCHES



FLOATS AND SWITCHES

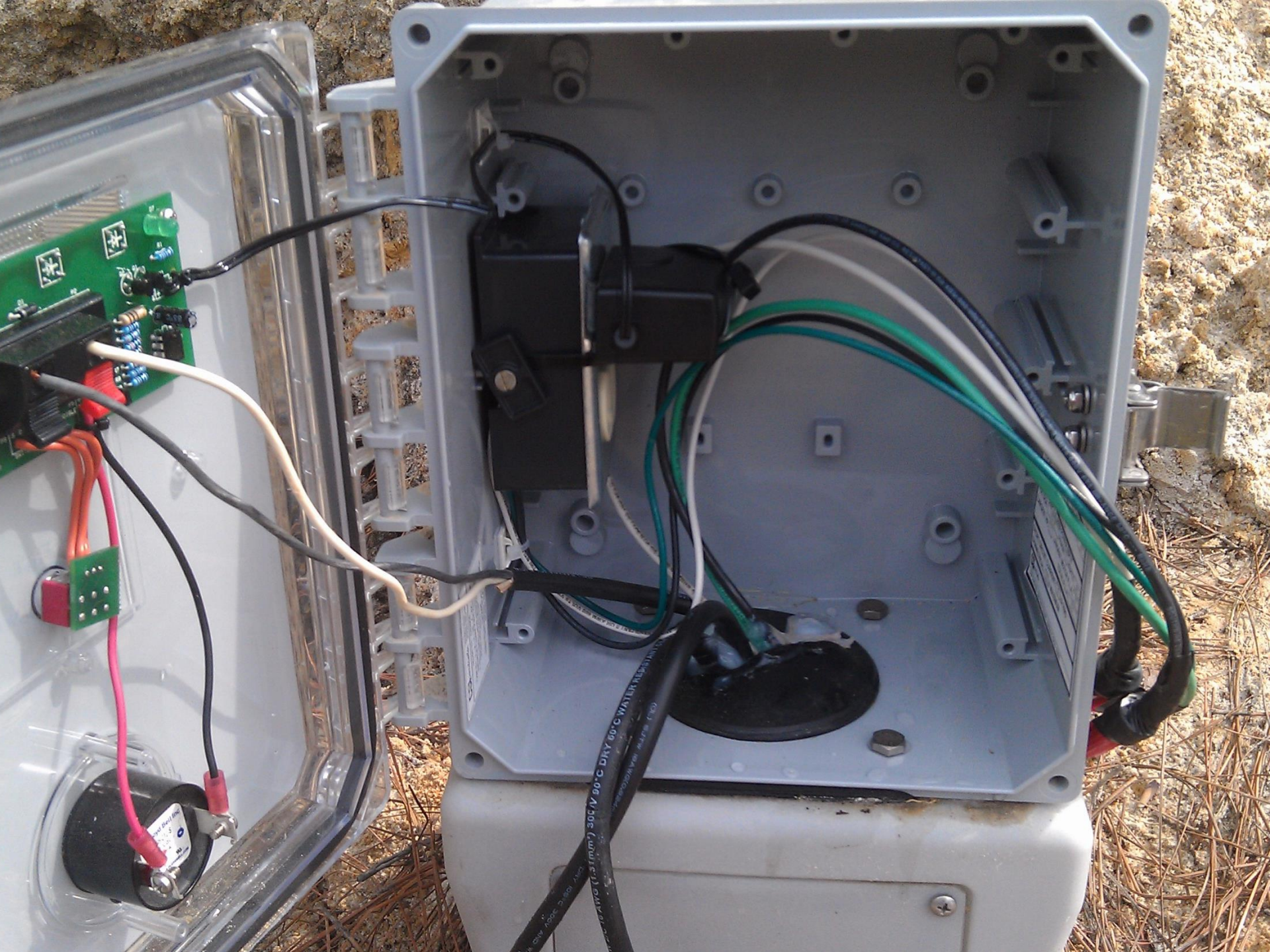


INSTALLING CONTROL PANELS

Best Installation Practices

- Locate control panel where it is easily accessible







INSTALLING CONTROL PANELS

Best Installation Practices

- Locate panel where it is easily accessible
- Use the proper drill bit when making penetrations in enclosure
- Avoid holes in top and sides of panel enclosure

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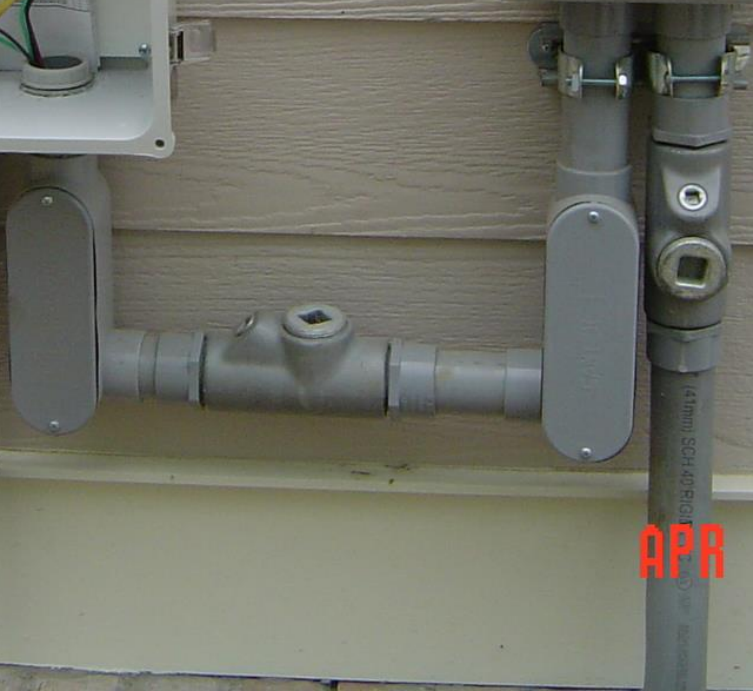
07/29/2009 11:57 am

The image shows a close-up of a grey plastic pipe fitting connected to a white pipe. The fitting has a hexagonal base and a flange-like top. There is significant wear and tear, including rust and discoloration, particularly around the base of the fitting where it meets the pipe. The surrounding area is white, and there is a blue-grey metal component on the left side of the frame.



07/29/2009 11:56 am





APR 20 2010

DISCONNECT SWITCH



INSTALLING CONTROL PANELS



WARNING!
ELECTRICAL SHOCK HAZARD
Disconnect all power sources before servicing. Failure to do so could result in serious injury or death.



INSTALLING CONTROL PANELS

Best Installation Practices

- Locate panel where it is easily accessible
- Use the proper drill bit when making penetrations in enclosure
- Avoid holes in top and sides of panel enclosure
- Use proper “Liquid tight” fittings on penetrations
- Seal conduits coming from sewage tank
- Seal off possible ground moisture into panel

INSTALLING CONTROL PANELS

Cable Connectors



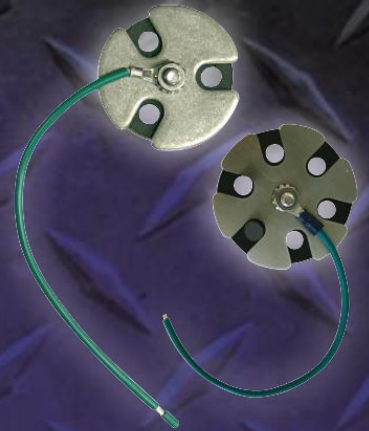
Provides strain relief and a liquid-tight seal. Round or flat models.

Hub Assembly

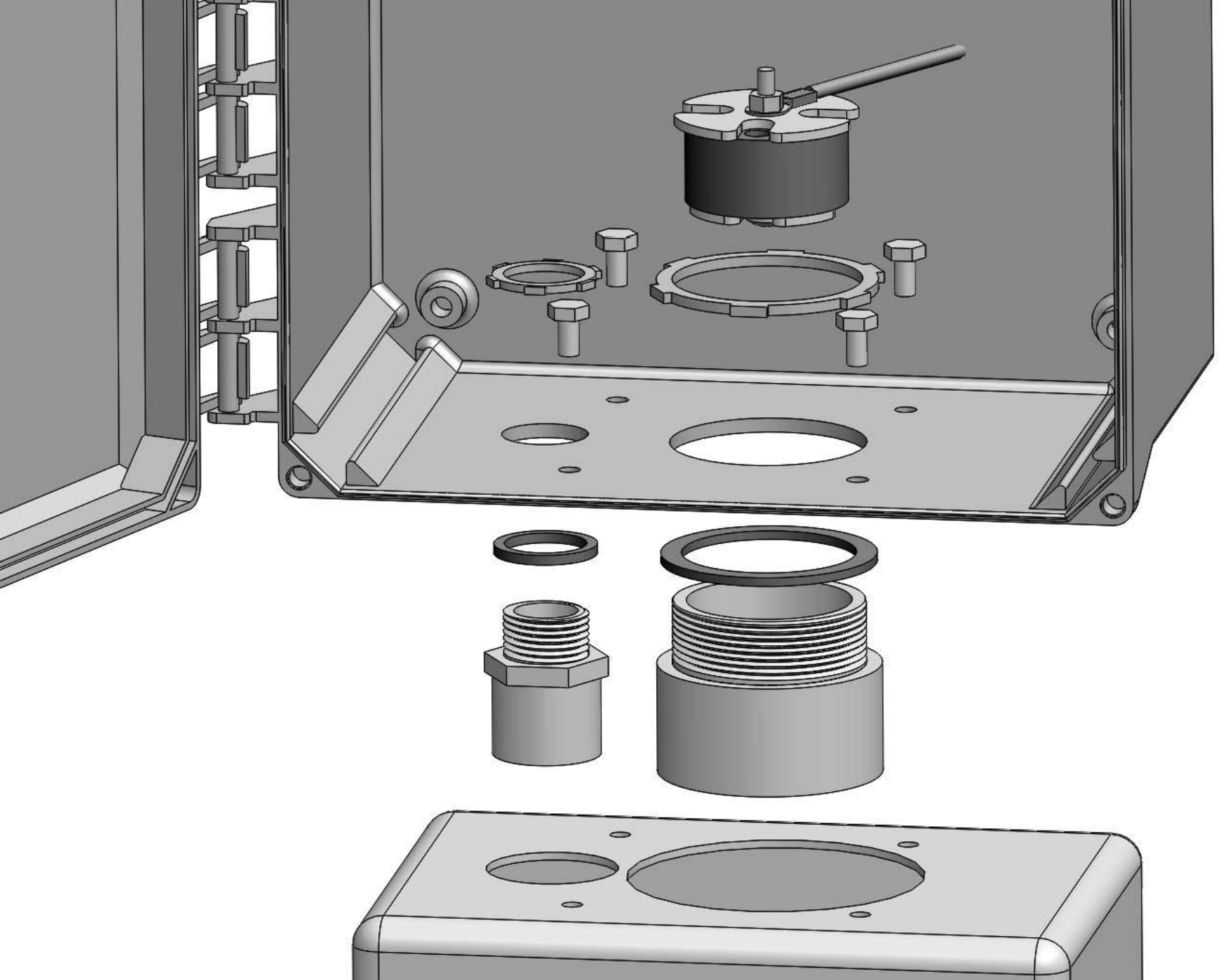


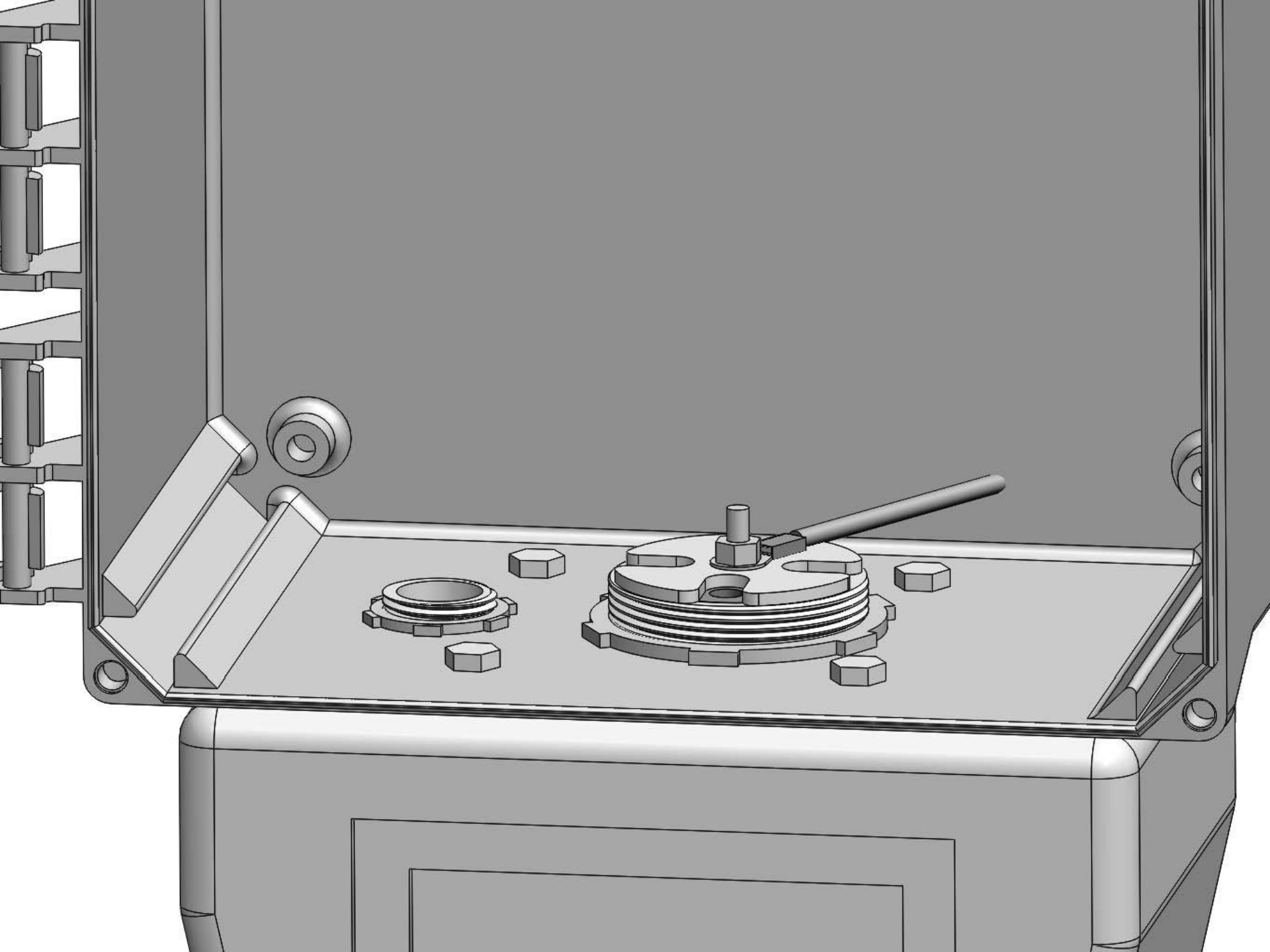
Provides liquid-tight conduit attachment location.

Cord Seals



Provides strain relief and a liquid-tight seal.





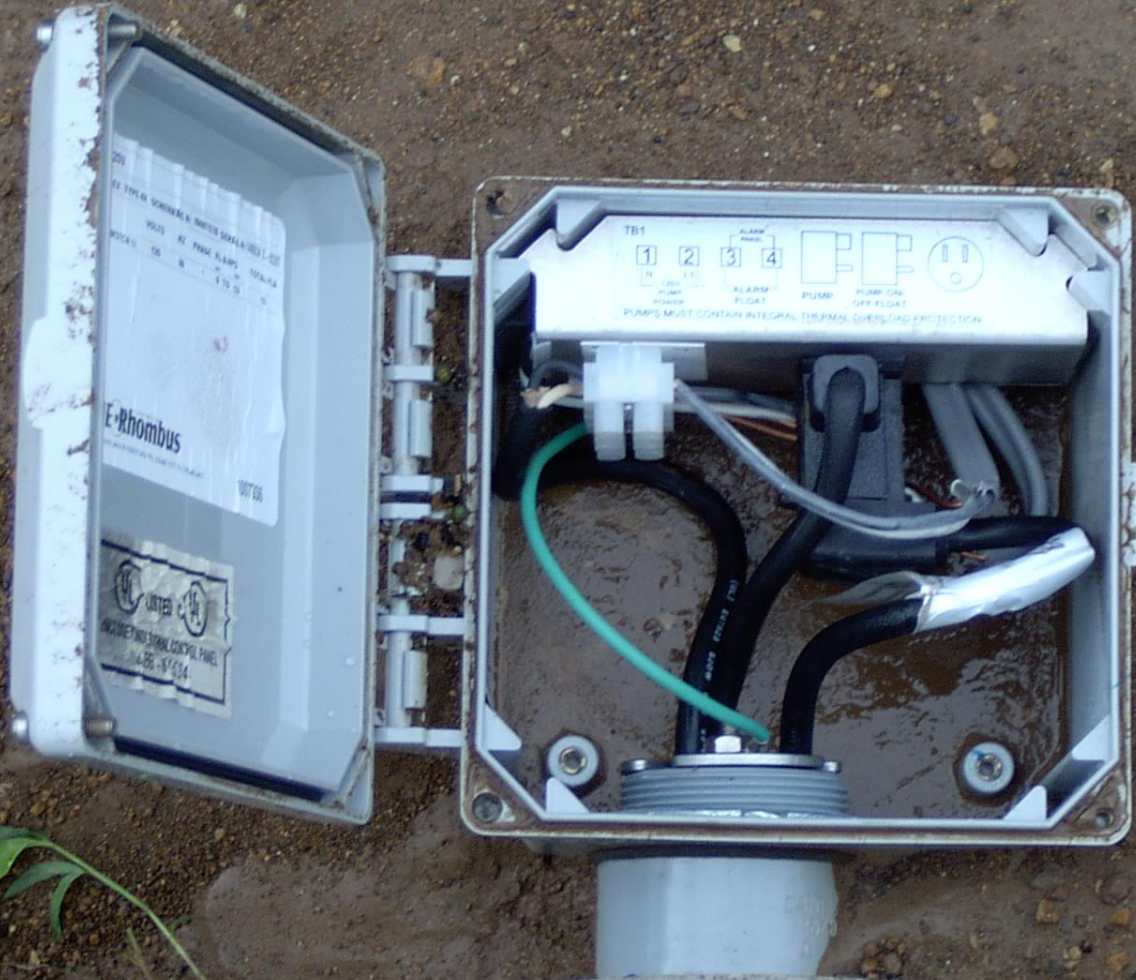


WARNING: This product contains hazardous materials. Handle with care. See the back of the enclosure for more information.

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E-RHOMBUS
PUMP CONTROL PANEL
10758

E-Rhombus
PUMP CONTROL PANEL
10758

TB1

1	2	3	4	ALARM	ON/OFF	ALARM	ON/OFF
LINE	PUMP	ALARM	PUMP	ON/OFF	ON/OFF	ON/OFF	ON/OFF
POWER	POWER	FLOAT	FLOAT				

PUMPS MUST CONTAIN INTEGRAL THERMAL OVERLOAD PROTECTION

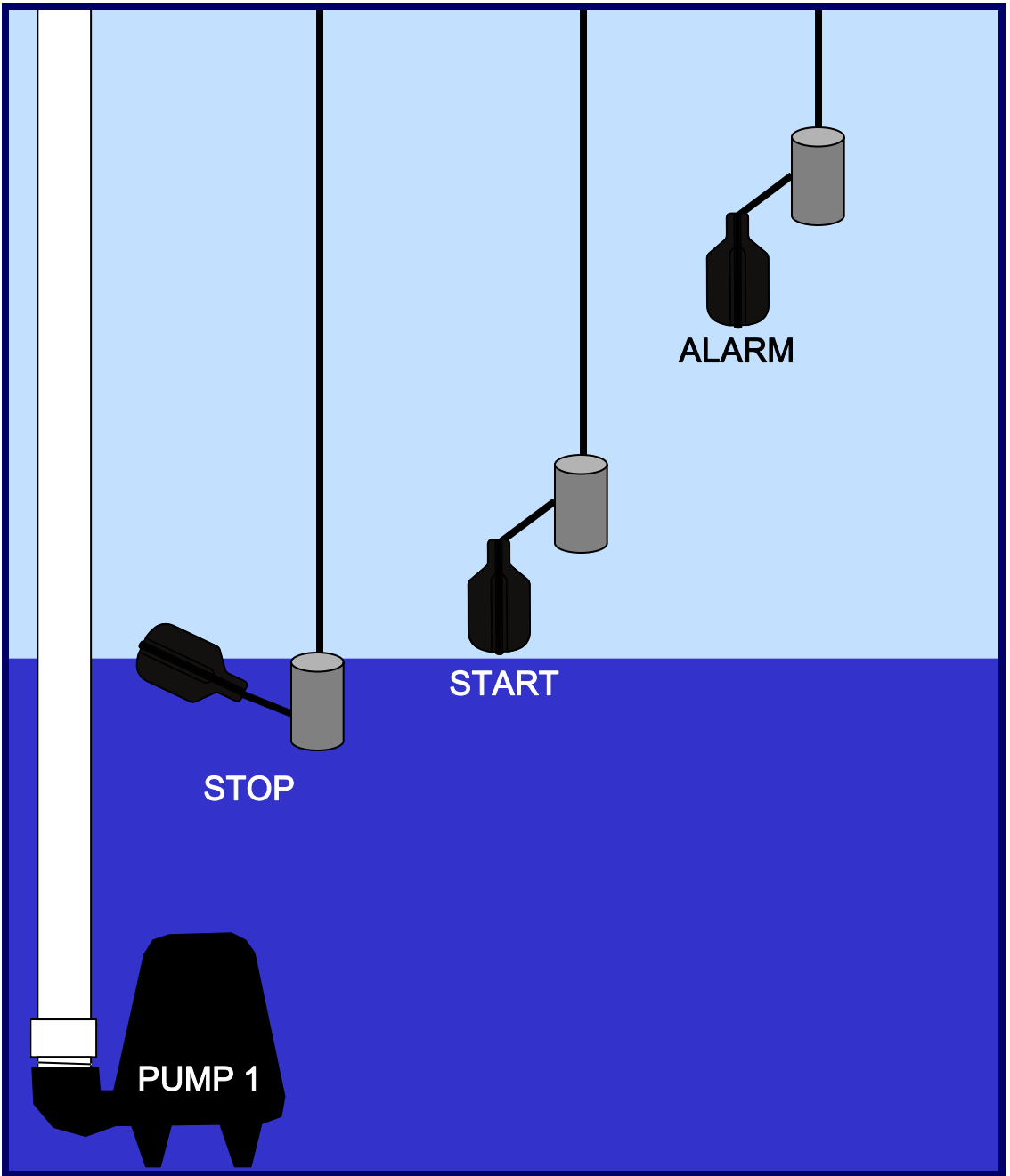


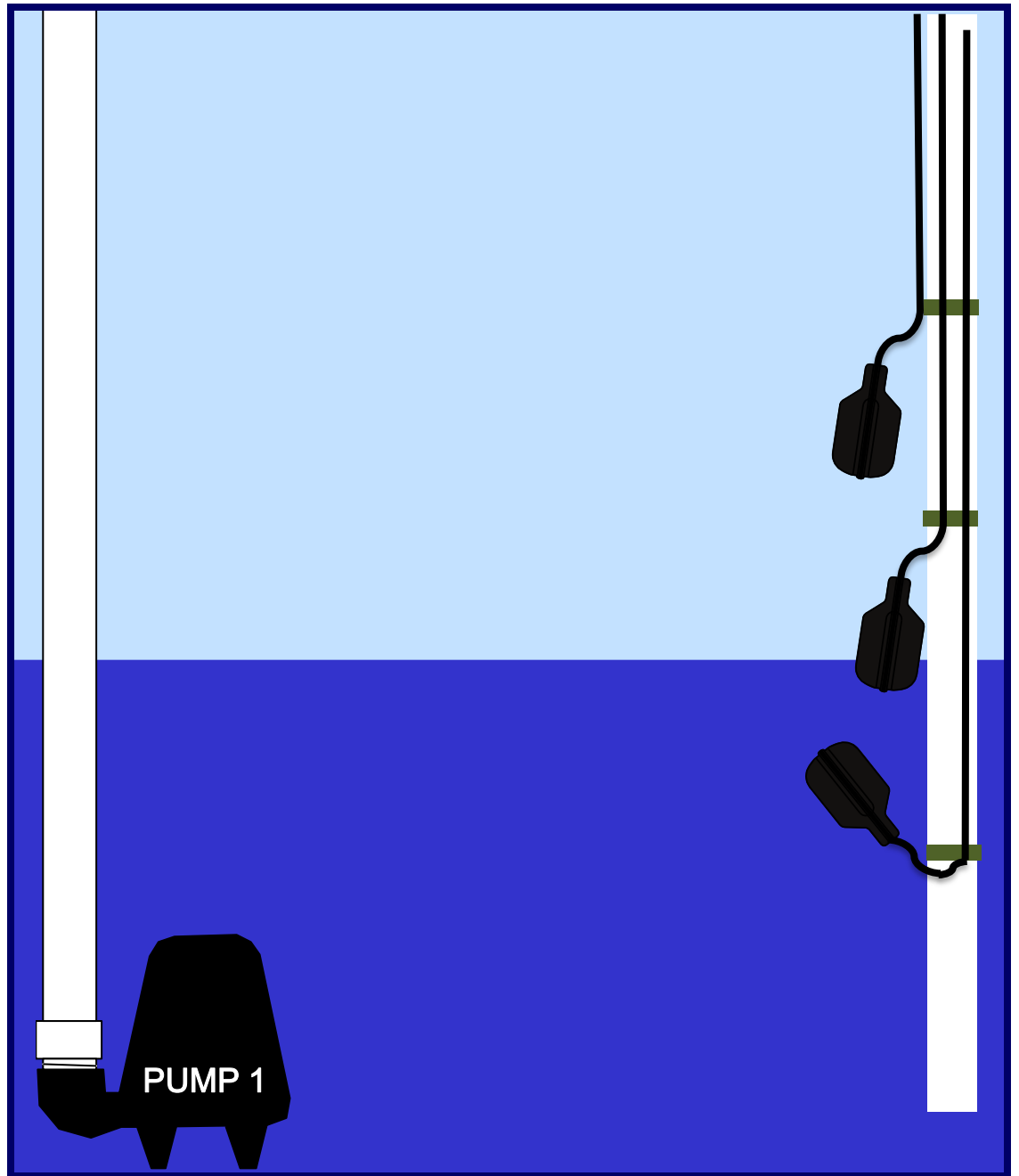
INSTALLING CONTROL PANELS

Best Installation Practices

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- Use the proper drill bit when making penetrations in enclosure
- Avoid holes in top and sides of panel enclosure
- Use proper “Liquid tight” fittings on penetrations
- Seal conduits coming from sewage tank
- Seal off possible ground moisture from panel
- Mount float switches so they actuate freely
- Mount float switches so they can be easily removed
- Label float switch cables prior to pulling through conduit







**TWO ELECTRICAL CIRCUITS
FOR CONTROL PANEL**

CONTROL AND ALARM CIRCUIT

PUMP CIRCUIT

SINGLE PHASE POWER

CONTROL AND ALARM CIRCUITS

- **THE CONTROL/ALARM CIRCUIT SENDS POWER TO THE FLOATS.**
- **THE CONTROL/ALARM CIRCUIT POWERS THE MOTOR CONTACTOR COIL, ALL THE LIGHTS, AND THE BEACON & HORN.**
- **THE CONTROL/ALARM CIRCUIT IS SEPARATE ELECTRICALLY FROM THE PUMP CIRCUIT.**

PUMP CIRCUIT

**PUMP CIRCUIT IS SEPARATE
FROM THE CONTROL/ ALARM
CIRCUIT.**

**PUMP CIRCUIT PROVIDES POWER TO
THE PUMP MOTOR.**



SAFETY

**SAFETY IS THE MOST
IMPORTANT THING. IT TAKES
LESS THAN 1 AMP OF
CURRENT TO STOP YOUR
HEART **ALWAYS TURN OFF POWER**
**WHEN WORKING INSIDE A
CONTROL PANEL, OR ON ANY
OTHER ELECTRICAL DEVICE****

- **TURN OFF THE SERVICE BREAKER FEEDING THE CONTROL PANEL OR ELECTRICAL DEVICE, USUALLY LOCATED OUTSIDE OF THE CONTROL PANEL.**
- **TURNING OFF THE BREAKERS IN THE CONTROL PANEL ONLY KILLS POWER TO THE COMPONENTS DOWN STREAM OF THE BREAKER – THERE IS STILL POWER TO THE TOP OF THE BREAKERS AND ANYTHING BEFORE IT IN THE CIRCUIT.**

THANK YOU!!!