

TANK ALERT[®] ABP alarm panel Installation Instructions

The Tank Alert[®] ABP indoor alarm panel provides a reliable means of controlling a 120 VAC single phase pump in water and wastewater installations. Two switches, one for the pump and one for the high water alarm, are spliced together for easy installation.

The Tank Alert[®] ABP alarm panel horn sounds when a potentially threatening liquid level condition occurs. The horn can be turned off, but the alarm light remains on until the condition is remedied. Once the condition is cleared the alarm panel will automatically reset. A green "Power On/Pump Run" light indicates 120 VAC primary power to the alarm, and also flashes to indicate the pump run status. Low battery chirp feature indicates when battery should be replaced.

TANK ALERT[®] ABP ALARM PANEL



- **120 VAC Model Voltage** - (circuits not supervised) Primary: 120 VAC, 60 Hz, 2.4 watts maximum Operating Voltage: 9 VDC
- NEMA 1 enclosure rated for indoor use.
- Automatic alarm reset.
- Red "alarm" light and green "power on/pump run" light, alarm "test" switch, and horn "silence" switch.
- 6 foot (1.8 meter) power cord
- Alarm horn sounds at 87 decibels at 10 feet (3 meters).
- Manual pump run operation.
- If primary power fails, the alarm panel continues to work due to battery backup feature. Battery Backup Power - (circuit not supervised) 9 VDC
- Complete package includes two factory-spliced SJE MilliAmpMaster™ control switches with 10 feet (3.05 meters) of cable and mounting clamp.
- Switching mechanism operates on low voltage and is isolated from the power line to reduce the possibility of shock.
- Receptacle on bottom to plug in pump power cord.
- Low battery chirp.
- External terminal block for easy float switch installation.
- Three-year limited warranty.

Patent Pending

PREVENTATIVE MAINTENANCE

- Periodically inspect the product. Check that the cable has not become worn or that the housing has not been damaged so as to impair the protection of the product. Replace the product immediately if any damage is found or suspected.
- Periodically check to see that the floats are free to move and operate the switches.
- Use only SJE-Rhombus[®] replacement parts.
- For indoor use only.
- Pump must have integral thermal overload protection.

SJE-RHOMBUS[®] THREE-YEAR LIMITED WARRANTY

SJE-RHOMBUS[®] warrants to the original consumer that this product shall be free of manufacturing defects for three years after the date of consumer purchase. During that time period and subject to the conditions set forth below, SJE-RHOMBUS[®] will repair or replace, for the original consumer, any component which proves to be defective due to defective materials or workmanship of SJE-RHOMBUS[®].

ELECTRICAL WIRING AND SERVICING OF THIS PRODUCT MUST BE PERFORMED BY A LICENSED ELECTRICIAN.

THIS WARRANTY DOES NOT APPLY: (A) to damage due to lightning or conditions beyond the control of SJE-RHOMBUS[®]; (B) to defects or malfunctions resulting from failure to properly install, operate or maintain the unit in accordance with printed instructions provided; (C) to failures resulting from abuse, misuse, accident, or negligence; (D) to units which are not installed in accordance with applicable local codes, ordinances, or accepted trade practices, and (E) to units repaired and/or modified without prior authorization from SJE-RHOMBUS[®].

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

TO OBTAIN WARRANTY SERVICE: The consumer shall assume all responsibility and expense for removal, reinstallation, and freight. Any item to be repaired or replaced under this warranty must be returned to SJE-RHOMBUS[®], or such place as designated by SJE-RHOMBUS[®].

ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS ARE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. SJE-RHOMBUS[®] SHALL NOT, IN ANY MANNER, BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES AS A RESULT OF A BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY.

WARNING**ELECTRICAL SHOCK HAZARD**

Disconnect power before installing or servicing this product. A qualified service person must install and service this product according to applicable electrical and plumbing codes.

**WARNING****EXPLOSION OR FIRE HAZARD**

Do not use this product with flammable liquids. Do not install in hazardous locations as defined by National Electrical Code, ANSI/NFPA 70.



Failure to follow these precautions could result in serious injury or death. Replace product immediately if switch cable becomes damaged or severed. Keep these instructions with warranty after installation. This product must be installed in accordance with National Electric Code, ANSI/NFPA 70 so as to prevent moisture from entering or accumulating within boxes, conduit bodies, fittings, float housing, or cable.

For detailed specifications on this product, or for the complete line of SJE-Rhombus® panel, alarm, and switch products, visit our web site at www.sjerhombus.com.

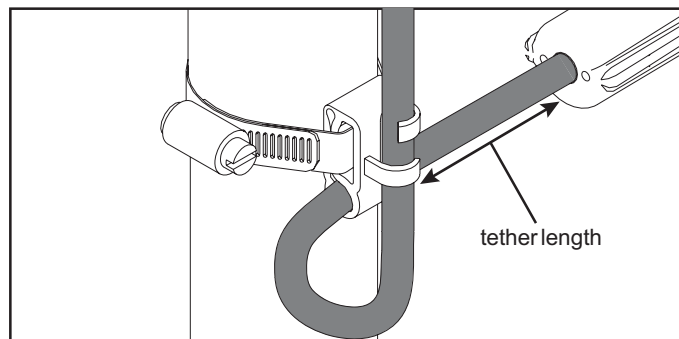
INSTALLING THE ALARM PANEL & FLOAT SWITCHES

1. Determine indoor mounting location for alarm panel.
2. Insert screw (supplied) at desired wall location.
Note: Screw is to be located over wall stud or used with a wall anchor sized for a #8 x 1.25" self tapping screw.
3. Hang alarm panel using keyhole on back of enclosure. Install second screw in mounting flange located on bottom of alarm panel.
4. Make sure power to alarm panel is disconnected.
5. Use only with factory-spliced float switches provided. Place the float switch cords into the clamps as shown in Figure A.
6. Locate the floats at the desired activation level and secure the clamps to the discharge pipe as shown in Figure A.
Note: Do not install cord under hose clamp.

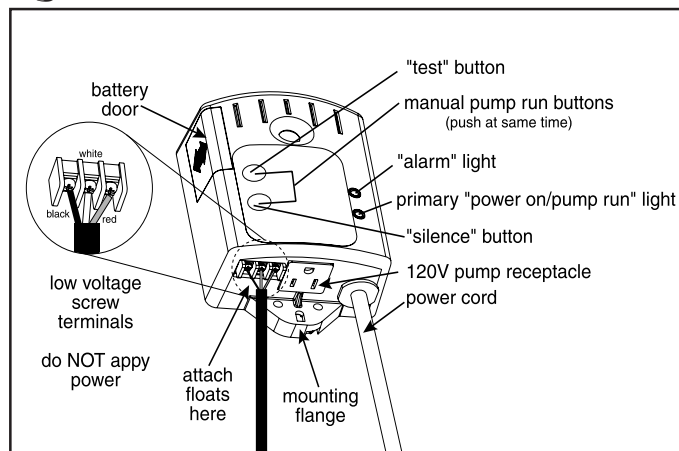
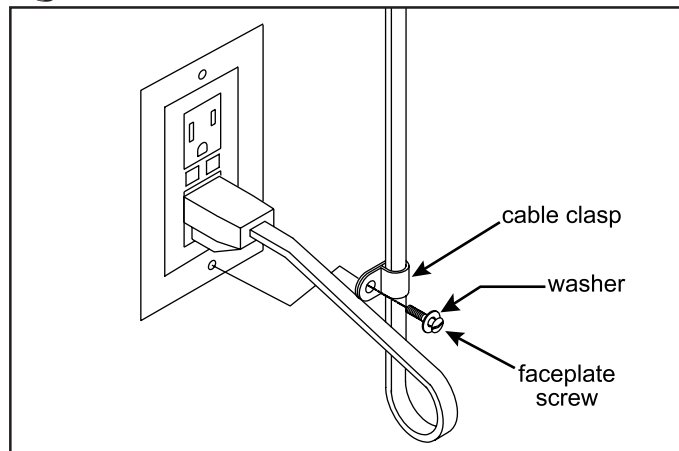
7. Tighten the hose clamps using a screwdriver. Over tightening may result in damage to the plastic clamp. Make sure the float cables are not allowed to touch the excess hose clamp band during operation.

Note: All hose clamp components are made of 18-8 stainless steel material. See your SJE-Rhombus® supplier for replacements.

8. Along with pump power cord, bring cable leads back to alarm panel and wire according to Figure B.
9. Inspect installation and cords before continuing.
10. Open battery door and install 9 VDC alkaline battery (not included). **Battery must be installed for backup alarm to function.** **Note:** The green power on light does not come on when unit is on battery power.
11. Plug the alarm panel in to apply primary power. Verify that the green "power on" light illuminates. **Note:** Must use GFI protected receptacle.
12. Check installation by manually tipping the floats. The horn will sound and the "alarm" light should come on. The pump will energize and the "pump run" light will blink when the pump float is tipped.
13. Press "silence" button to silence the horn. The horn will silence while the red "alarm" light stays on.
14. Tip floats back down and press "test" button. The "alarm" light and horn will activate. Press the "test" and "silence" buttons together. The pump will energize and the "pump run" light will blink.
15. Test unit once a week. **Replace battery every 12 months and after each alarm condition** to ensure proper operation. If battery is low, low battery chirp feature will cause the horn to chirp approximately once every four minutes. Replace battery when this happens.
16. Using the provided cable clasp, secure cord to outlet as shown in Figure C. Use existing receptacle faceplate screw and supplied washer.
17. For pump power cable strain relief, use the supplied tie strap to bundle float, pump power, and alarm panel power cables 6 inches below alarm panel.

Figure A

tether length (inches)	3.5 <small>min.</small>	6	9	12	15	18	22
pumping range (inches)	8	11	15	21	28	31	36

Figure B**Figure C**

SJE-Rhombus
CONTROLS

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