



PANEL & JUMPER WIRE TROUBLESHOOTING GUIDE

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SAFETY INFORMATION

SAFETY SYMBOLS

 This is the safety alert symbol. When you see this symbol on your pump or in this manual, look for one of the following signal words and be alert to the potential for personal injury:

 **DANGER** warns about hazards that will cause serious personal injury, death or major property damage if ignored.

 **WARNING** warns about hazards that can cause serious personal injury, death or major property damage if ignored.

 **CAUTION** warns about hazards that will or can cause minor personal injury or property damage if ignored.

The word **NOTICE**: indicates special instructions that are important but not related to hazards.

California Proposition 65 Warning

 **WARNING** This product and related accessories contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

GENERAL SAFETY

- ◆  **CAUTION** Do not touch an operating motor. Modern motors can operate at high temperatures. To avoid burns when servicing pump, allow it to cool for 30 minutes after shutdown before handling.
- ◆ Follow all applicable local and state codes and regulations.
- ◆ Submersible pumps are not approved for and should not be used in swimming pools, recreational water installations, decorative fountains or any installation where human contact with the pump fluid is common. Pump is designed for municipal and commercial wastewater applications.
- ◆ Keep safety labels in good condition, replacing any missing or damaged labels.
- ◆ **DO NOT** run the pump dry. Dry running can overheat the pump, (causing burns to anyone handling it) and will void the warranty.
- ◆ The pump is permanently lubricated. No oiling or greasing is required in normal operation.
- ◆ Periodically inspect pump and system components.
- ◆ Wear safety glasses at all times when working on pumps.
- ◆ Keep work area clean, uncluttered and properly lighted. Store all unused tools and equipment.
- ◆ **DO NOT** use to pump flammable liquids.
- ◆  **DANGER** **RISK OF FIRE OR EXPLOSION.** Can cause severe personal injury, property damage or death. Do not smoke or use open flames in or around this system.

- ◆  **DANGER** **CUTTING RISK.** Risk of serious cutting or amputation exists. Use caution as liner plate is extremely sharp. Always keep fingers and hands away from cutting profiles. Disconnect all power sources prior to servicing pump. Pump may start without warning.
- ◆  **DANGER** **RISK OF ASPHYXIATION.** Installer(s) and/or service personnel must use proper Personal Protective Equipment and follow OSHA 29 CFR 1910.146 or OSHA 29 CFR 1926. Pump may be installed in a location classified as a confined space.
- ◆  **DANGER** **BIOHAZARD RISK.** Once wastewater source has been connected to system, Biohazard Risk exists. Installer(s) and/or service personnel must use proper personal Protective Equipment and follow handling procedures per OSHA 29 CFR 1910.1030 when handling equipment after wastewater source has been connected to system.
- ◆ **NOTICE:** FM rated models are only to be used in 60hz applications.

ELECTRICAL SAFETY

 **DANGER** **HAZARDOUS VOLTAGE. CAN SHOCK, BURN, OR KILL.**

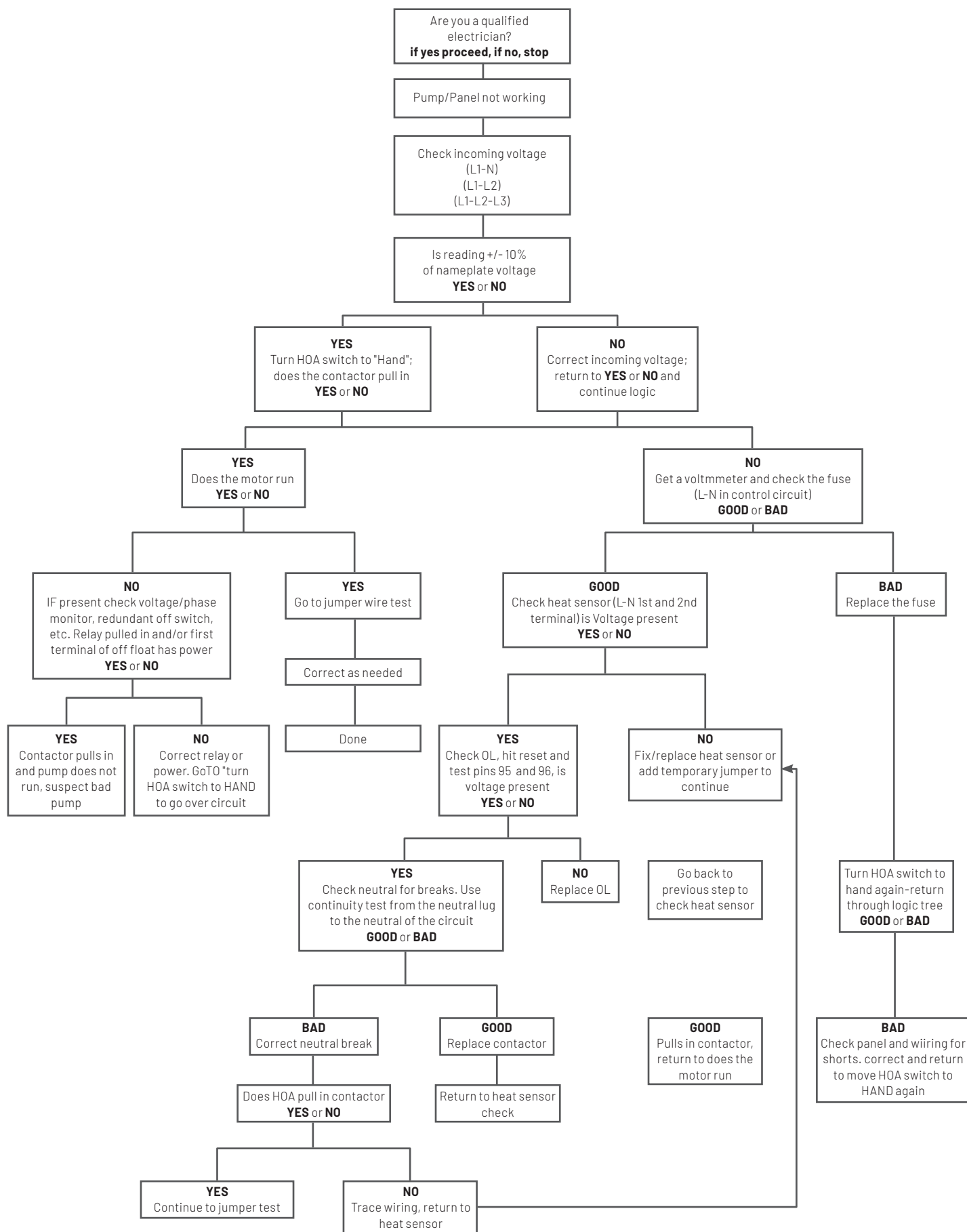
When installing, operating, or servicing this pump, follow the safety instructions listed below.

- ◆  **DANGER** **ELECTROCUTION HAZARD:** Must be installed by a qualified professional. Disconnect all electrical power before attempting service.
- ◆ **DO NOT** modify the cord. When wiring to a system control, connect ground lead to the system ground.
- ◆ **DO NOT** splice the electrical power cord.
- ◆ **DO NOT** allow the power leads on the end of the electrical cords to be submerged.
- ◆ **DO NOT** handle or service the pump while it is connected to the power supply.

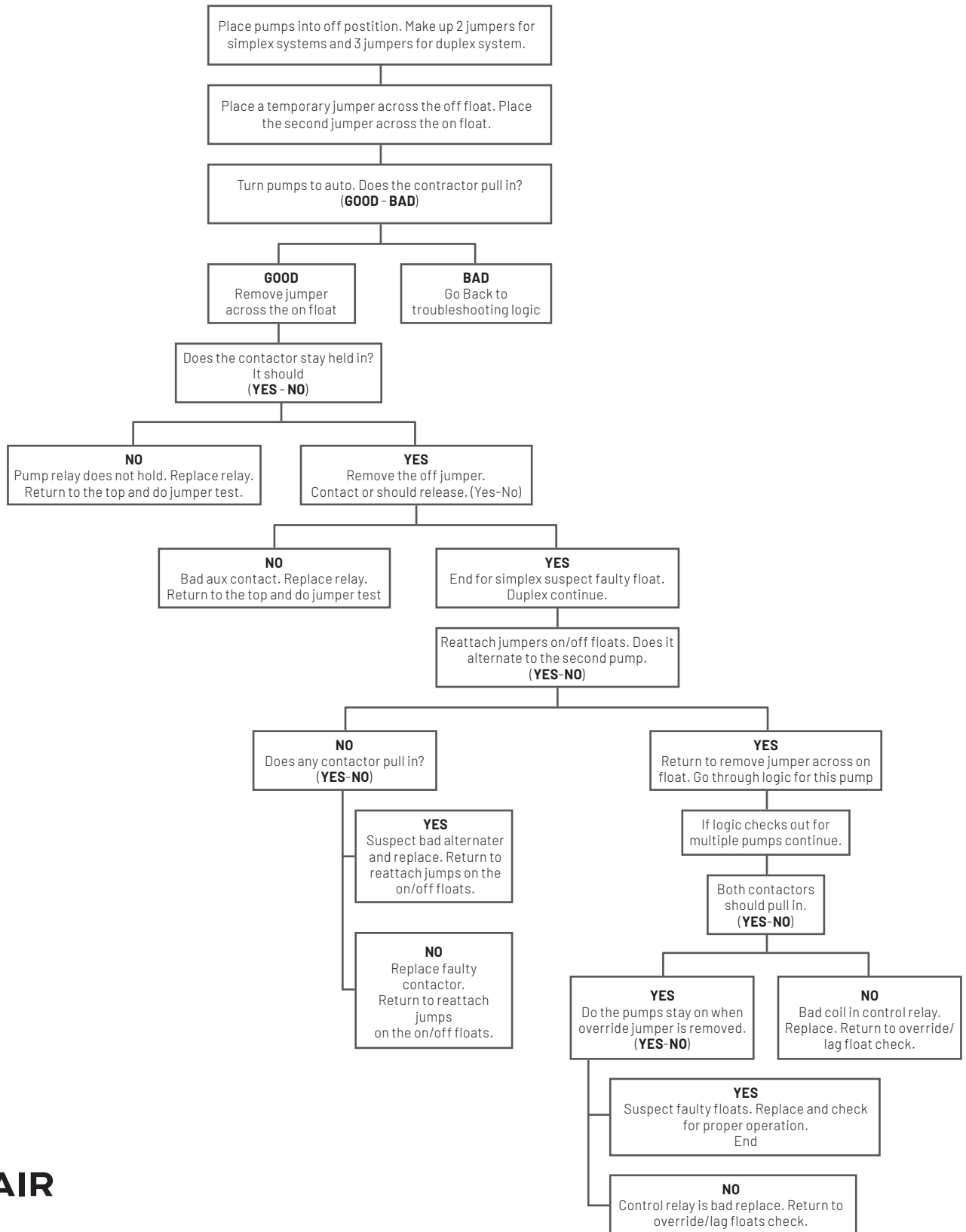
 **WARNING** A water test must be taken before installation of any water treatment equipment. The water quality can significantly influence the life of your system. You should test for corrosive elements, acidity, total solids and other relevant contaminants, including chlorine and treat your water appropriately to ensure satisfactory performance and prevent premature failure.

  **DANGER** **WARNING** Risk of severe electrical shock or electrocution. May result in serious injury or death or fire hazard. Only qualified personnel may install this system. Reasonable care and safe methods relating to the installation and operation of this product should be practiced. NFPA 70/National Electric Code (NEC) or local codes must be followed. System must be properly grounded according to NEC. Keep basin cover closed, except when removing pump.

PANEL TROUBLE SHOOTING LOGIC DIAGRAM



JUMPER WIRE TEST



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