

Simplex Pump Control Panel — Quick Start

120/240 VAC · Field Selectable | Demand · 3-Float or 2-Float Control | Type 4X

DESIGNED & MANUFACTURED BY LEGACY CONTROLS · MIMS, FLORIDA · UL 508A LISTED

GUIDE VERSION **1.3**

MODELS **LE-4001 (panel only) · LE-4003 (with floats)**

UL FILE NUMBER **E547664**

DATE **August 2026**

PART NUMBERS **CP-001-4-0001 & 4-0003**

FULL DOCUMENTATION **Operation Manual v3.0 · Spec Sheet v3.0 · Troubleshooting Guide v1.0**

READ FIRST — CONTROL-CIRCUIT JUMPER & 120/240 V SELECTION

A factory wire jumper powers the control circuit from L1 — the panel will not operate without it; remove it only for a separate 120 V control-circuit feed (a separate feed remains energized with the main off). **Ships 120 V** (grouping pin, Terminal 2–Neutral) — **remove the pin for 240 V** and verify with a multimeter. Neutral required even at 240 V. Never confuse the control-circuit wire jumper with the 120/240 grouping pin.

1. BEFORE YOU ENERGIZE

- Mount** — secure the Type 4X enclosure to a stable vertical surface with clearance for the door and service access.
- Verify voltage** — grouping pin installed between Terminal 2 and Neutral = 120 V (factory); pin removed = 240 V. Confirm with a multimeter before energizing.
- Verify the control circuit** — the factory wire jumper feeds the Separate Control Feed terminals from L1 — no field action required. For an optional separate feed, land 120 V on X1, Neutral on N2, and ground on G1 per the connection diagram.
- Land the pump** — black and white wires on terminals 4 & 5, plus ground. Overload protection is integral to the pump motor — this panel contains no overload devices.
- Install the floats** — Configuration A (factory): On on 6 & 7 · Off on 8 & 9 · High Water Alarm on 10 & 11, with factory grouping pins on 7–8 and 9–10. All floats normally open (NO), pump-down.
- Torque & feed** — field wiring 26–10 AWG copper, 600 V, torqued to 0.79 N·m (7.0 in-lbs). Provide a 30 A minimum supply circuit (25 A pump branch + 5 A alarm & control circuit branch) and a field-supplied main disconnect upstream.

2. START-UP & FUNCTIONAL TEST

- Energize** — set the Pump Selector (HOA) to AUTO and the Alarm Buzzer switch to ON, then power on the panel.
- Cycle the floats** — raise the On float — the R1 logic relay latches contactor M1 and the pump starts; the pump holds through the Off float for full drawdown and stops when the level drops below it.
- Test the alarm** — press the Alarm Test button — the red beacon and buzzer must both activate. Lift the High Water Alarm float and confirm the alarm annunciates.
- Confirm before leaving** — return the selector to AUTO and verify one complete pump cycle.

3. ALARMS & INDICATORS

- Green Pump Run light** — illuminates whenever the pump is running.
- Red beacon + buzzer** — high water — alarm notification only; the High Water float has no pump control. Rotate the buzzer switch to OFF to silence; the beacon stays lit until the level clears.

4. FACTORY SETTINGS — QUICK CHECK

This is a demand (float-controlled) panel — there is no timer to program. The 2-float option is field-configurable:

- Configuration B (2-float)** — remove the 7–8 grouping pin and install the 3-pin jumper across terminals 6, 7, 8. Combined Off/On float lands on 8 & 9; High Water Alarm stays on 10 & 11.

- **Never** — connect the factory 9–10 pin to terminals 6, 7, or 8 — it remains installed in both configurations. Make all pin changes with power disconnected.

5. SERVICE & SUPPORT

SERVICE & SUPPORT Contact the authorized dealer or installer who supplied your system for all technical support, service calls, alarm response, and warranty claims — their information is recorded on the Service & Support card at the front of the Operation Manual. **Scan the code for the complete panel documentation — legacy-controls.com/panels/LE-4001/.** If your dealer cannot be reached, visit Legacy-Controls.com.



LEGACY CONTROLS

UL FILE NUMBER: E547664

PANEL DESCRIPTION
SIMPLEX
DUAL VOLTAGE
120/240VAC

DRAWN BY:

ENGINEER:
E DYE

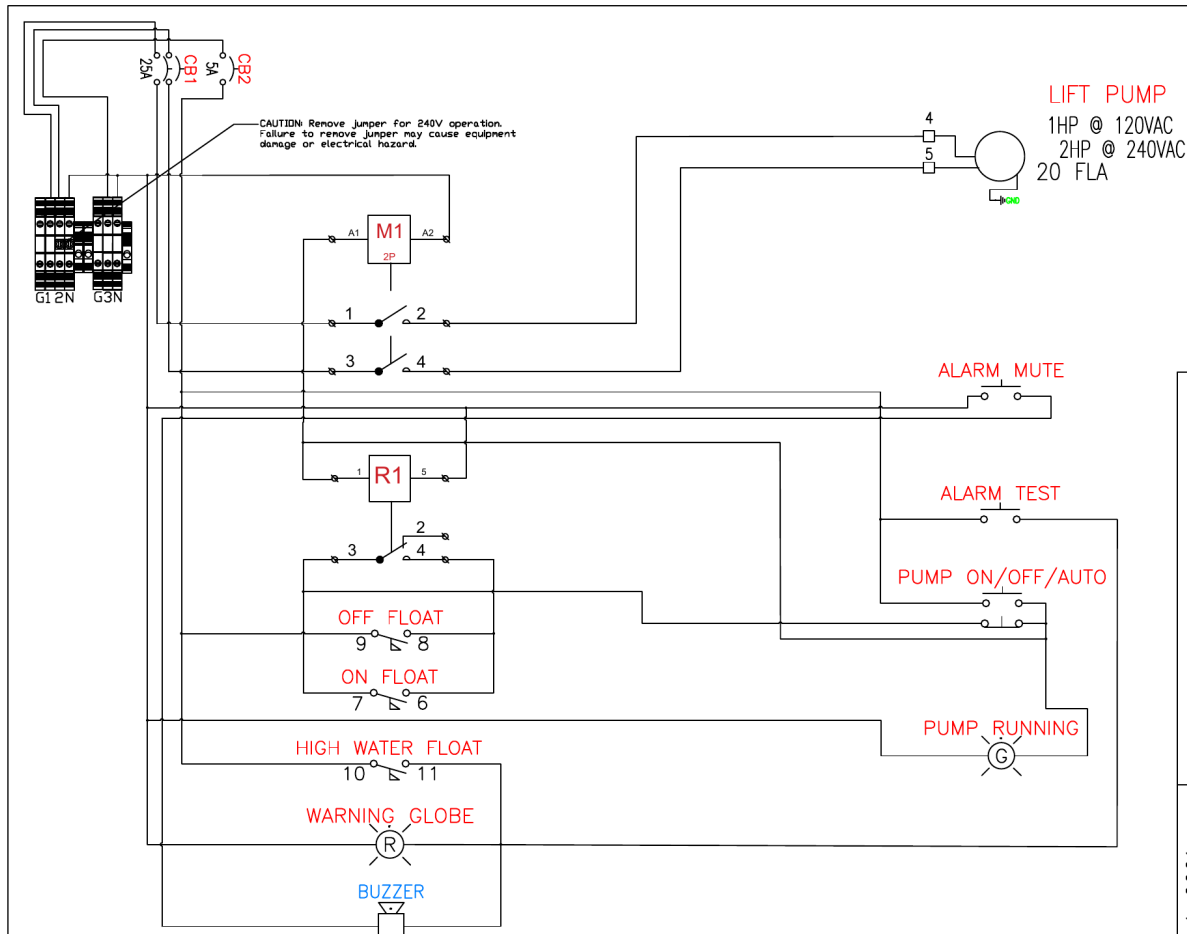
DATE:
03/05/26

DWG#
4-0001
v2.8

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- GENERAL NOTES** WARNING: PLEASE CHECK SCHEMATICS TO VERIFY PANEL VOLTAGE!!!
- This panel is suitable for dual-voltage operation. It is factory-configured for 120 V AC via terminal grouping pin. For 240 V AC operation, remove the grouping between Terminal 2 and neutral.
 - All motors shall incorporate internal overload protection.
 - Alarm circuit shall not exceed 5 A.
 - Main panel disconnect shall be supplied and installed in the field.
 - Field wiring shall be copper conductors rated 60 °C minimum.
 - Terminal screws shall be tightened to 0.79 N m.
 - Alteration of this panel voids the manufacturer's warranty.



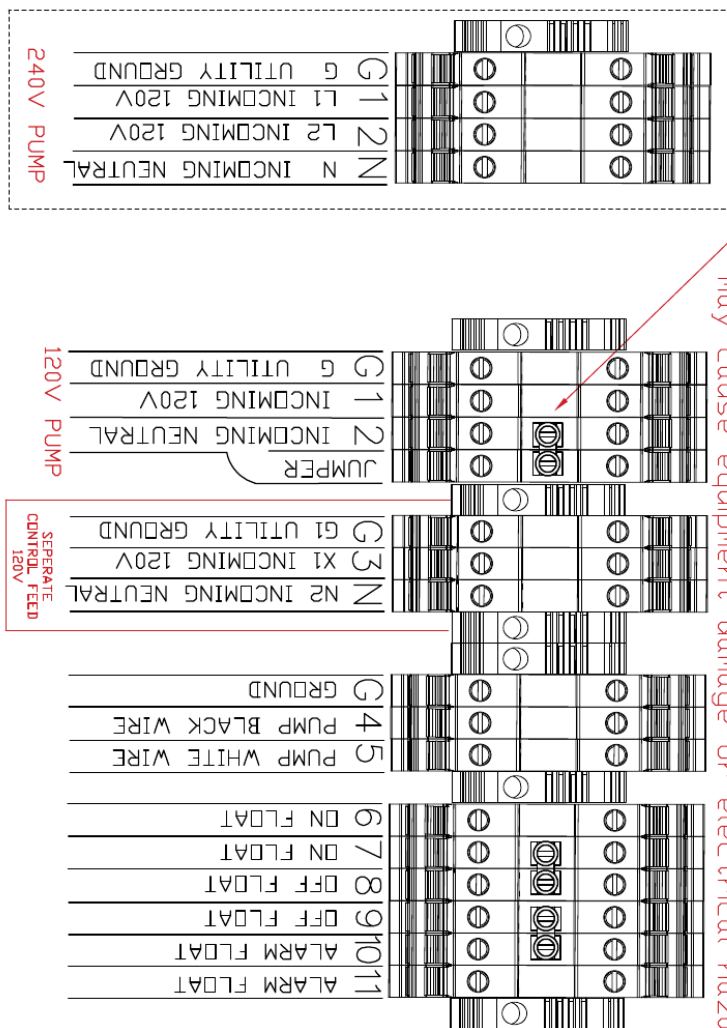
LINE DRAWING V2.8 — CP-001-4-0001

TIGHTENING TORQUE FOR TERMINAL BLOCKS IS 4.425 in-lbs.

PANEL MODEL #
CP-001-4-0001

v2_3

CAUTION:
Remove jumper for 240V operation. Failure to remove jumper may cause equipment damage or electrical hazard.



TERMINAL CONNECTION DIAGRAM
TERMINAL BLOCKS PINOUT DIAGRAM 26-10 AWG, 600V, 60C
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CONNECTION DIAGRAM V2.3 — CP-001-4-0001