

Specifications

Transformer	1000W
120V Primary Breaker	10A
240V Primary Breaker	4A
Secondary Breaker	30A
Motor Voltage	26-32V

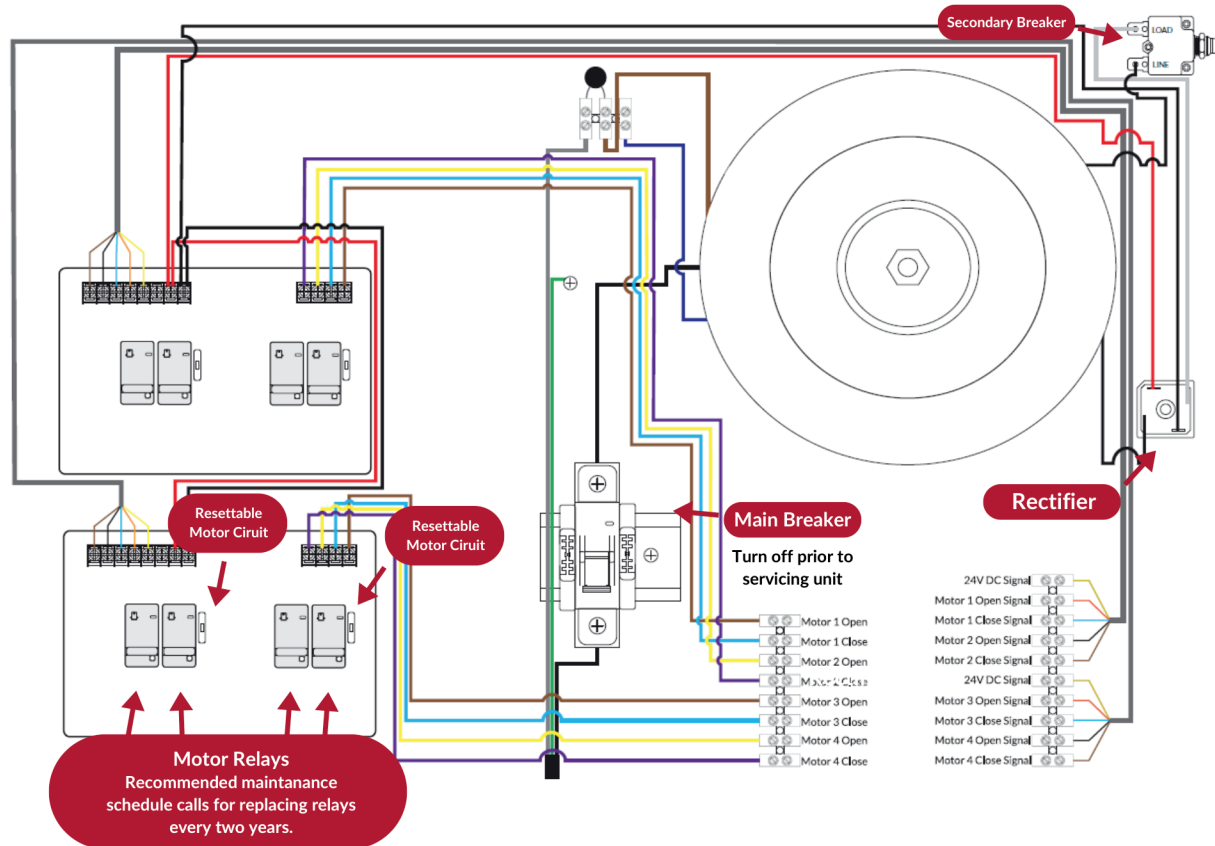


All electrical connections must be made by a qualified, licensed electrician. All connections must be made in accordance with all state and local codes. The inside of the box housing the transformer has high voltage which can be dangerous.

Troubleshooting

None of my motors are running. Confirm presence of 26-32V DC at the relay board terminals labeled “-24V+” (NOT the terminals labeled (“+24V”). If this voltage is not present, it is likely that the rectifier is damaged.

One of my motors is not running, but the others are fine. (1) Check the circuit breaker associated with the non-operable motor. (2) Replace BOTH relays associated with the motor with TWO relays from a motor channel that works. (3) Check DC output voltage on motor terminals; if present, look for a wiring or motor problem.



ADVANCING
ALTERNATIVES

42-ECO1270

Four Motor Interface Box

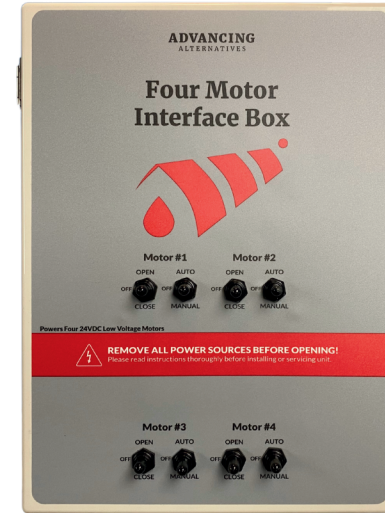
Quick Start Guide

Scan the QR Code to visit our Knowledge Center, which features the full instruction manual and other resources.

Warranty Registration:
advancingalternatives.com/register



Visit Advancing Alternatives' YouTube Channel to Access Video Tutorials



IMPORTANT

For detailed instructions and technical support, visit advancingalternatives.com/knowledge-center

Safety Information:

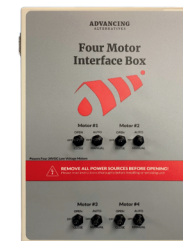


SHOCK HAZARD Electric shock can kill. Touching live electrical parts can cause fatal shocks or severe burns.



WARNING All electrical connections must be made by a qualified, licensed electrician. All connections must be made in accordance with all state and local codes.

What's Included:



42-ECO1270



Cable Glands (x4)



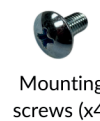
5A Breakers (x4)*



Plug-In Relays (x8)



Mounting Brackets (x4)



Mounting screws (x4)

Images not to scale.

Tools & Materials Required:

- Screwdriver (#1)
- Wire crimper
- Drill with 7/8" bit (if using provided cable glands)
- Motor wire
 - 14 AWG for less than 100' connections
 - 12 AWG for connections over 100'
- Signal Wire
 - 18-22 AWG

*Breakers Required for Motors

- LVM-60: 3A breaker
- LVM-100: 5A breaker
- LVM-180: 7.5A breaker
- LVM-200: 10A breaker

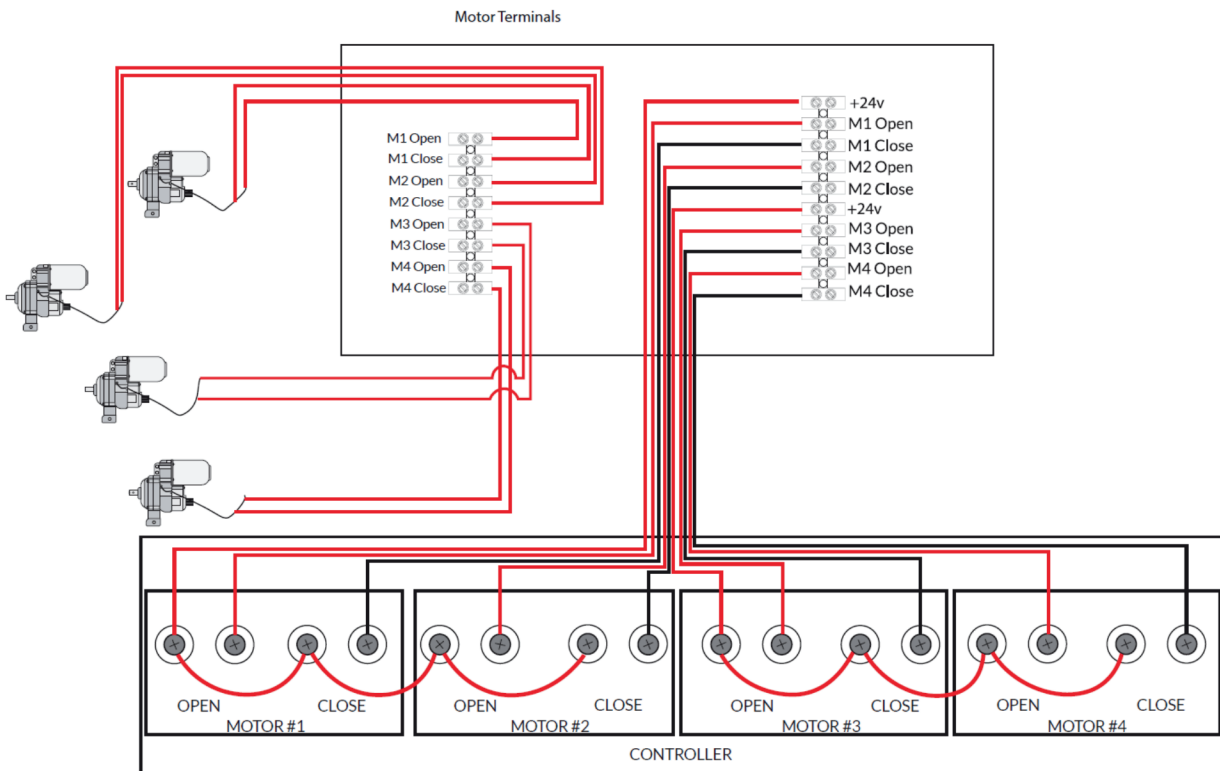
PLEASE NOTE: Illustrations for example purposes only. Actual wiring and layout may vary. Read the 42-ECO1270 instruction manual for full details.

CAUTION: Equipment Damage
Do not expose the 42-ECO1270 to weather. Locate in a dry, protected area to prevent equipment damage.

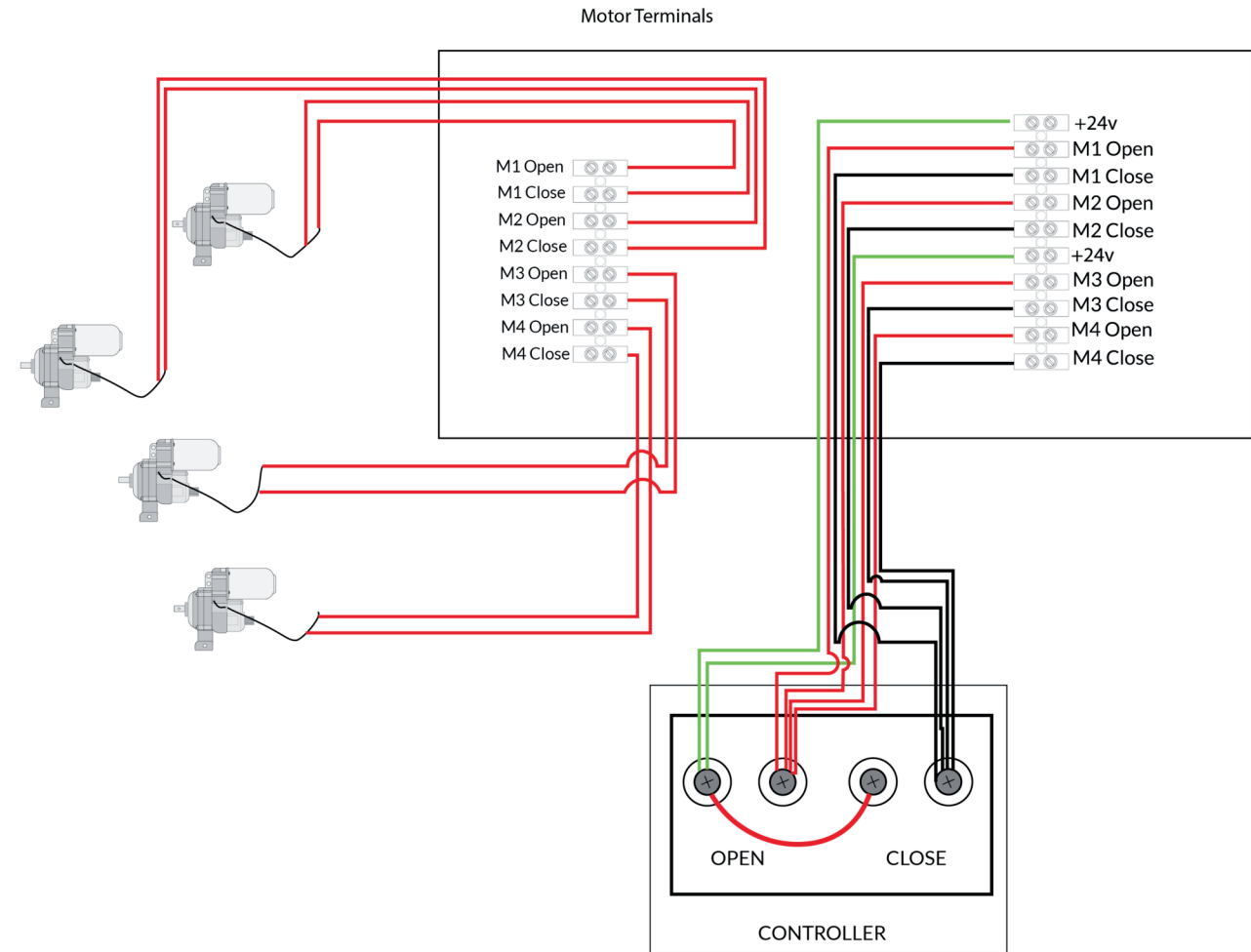
Installation Overview

- Connect the “+24V” terminal (in the interface box) to one terminal of the dry relay contacts designated for “Open” (in the controller). Connect the “Open” terminal (in the interface box) to the other dry contact terminal (in the controller).
- Repeat for “Close.” (Note that only one +24V wire needs to be run, it can be “jumped” inside the controller to other relay contact terminals as needed.)
- Repeat for each motor to be controlled.

Four Motors Using Four Setpoints



Four Motors Using One Setpoint



NOTE: The rectifier DC output is unfiltered DC voltage. Some meters may give slightly inaccurate readings with this type of voltage. Furthermore, abnormally high DC voltages may be seen with no load on the rectifier output. The most accurate DC voltage readings can be obtained with at least one relay engaged. This can be accomplished by setting a channel to “Manual” and setting the motor control to “Open” or “Close”.