Horizon Elite™ Electronic Expansion Valve (EEV) Controller Replacement

P/N 01588730, 01588748, 01588755, and 01588763

Installation Instructions

Description

Follett Horizon Elite ice makers use Electronic Expansion Valves (EEVs) to control superheat. Units may be equipped with either AC- or DC-powered EEV modules. When module replacement is required, all modules are replaced with the AC-powered (line-voltage) version. The DC EEV modules are not replaced in the field.

These instructions encompass the following procedures:

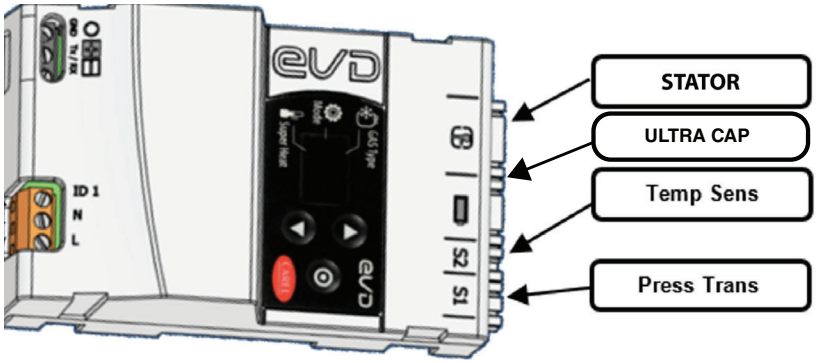
- Remove and replace 24 VDC controlled EEV (without screen) with new line-voltage controlled EEV w/screen.
- Remove line-voltage controlled EEV (w/screen)
- Install Line-Voltage EEV (w/screen)

Required Tools

- 3/32" L-shaped Allen wrench - power supply hardware (for 24 VDC only)
- 1/4" deep socket - power supply hardware (for 24 VDC only)
- Small flat-head screwdriver - wire terminal screws (for 24 VDC only)
- Large flat-head screwdriver - releasing the EVD mini controller lock

Remove the 24 VDC mini controller (if applicable)

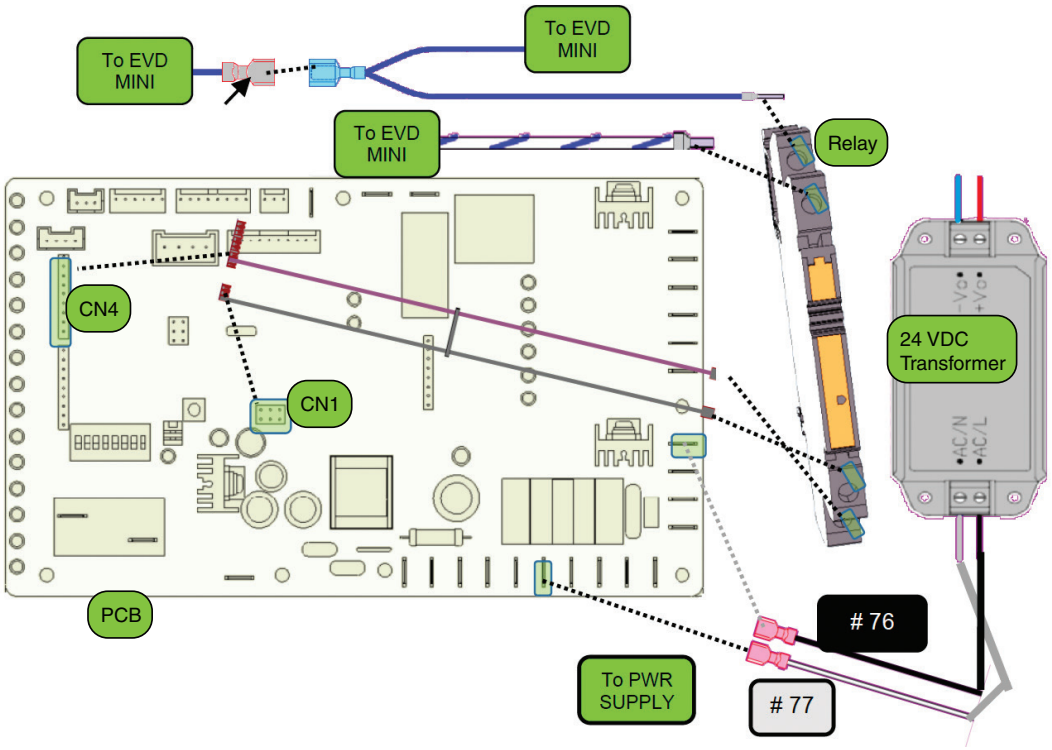
1. Power Ice Machine OFF.
2. Carefully disconnect the stator, ultracap module (if equipped), temperature sensor, and pressure transducer cables on the control side of the EEV controller.



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3. Unplug CN1 and CN4 on printed circuit board (PCB).
4. Unplug Black 76 and White 77 wires from PCB.



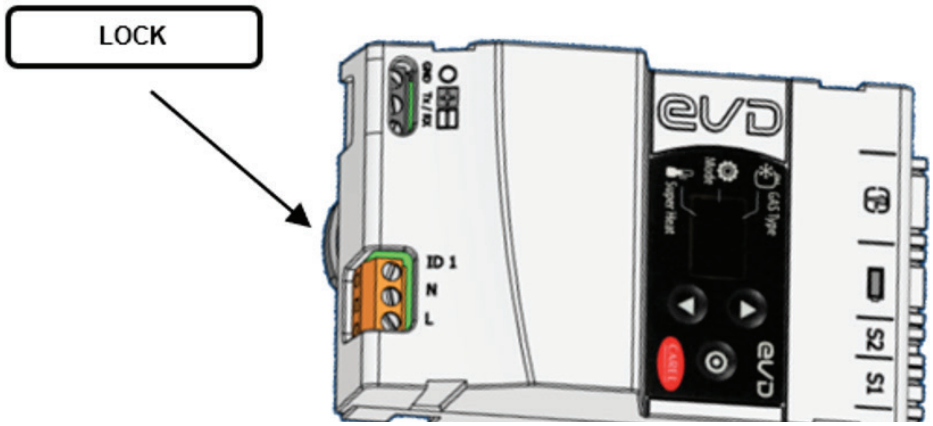
5. Remove the relay. Use a screwdriver and pry towards the relay.



6. Remove the 24 VDC power supply using the 3/32" L-shaped Allen wrench and 1/4" deep socket.



7. Identify the EEV controller lock.

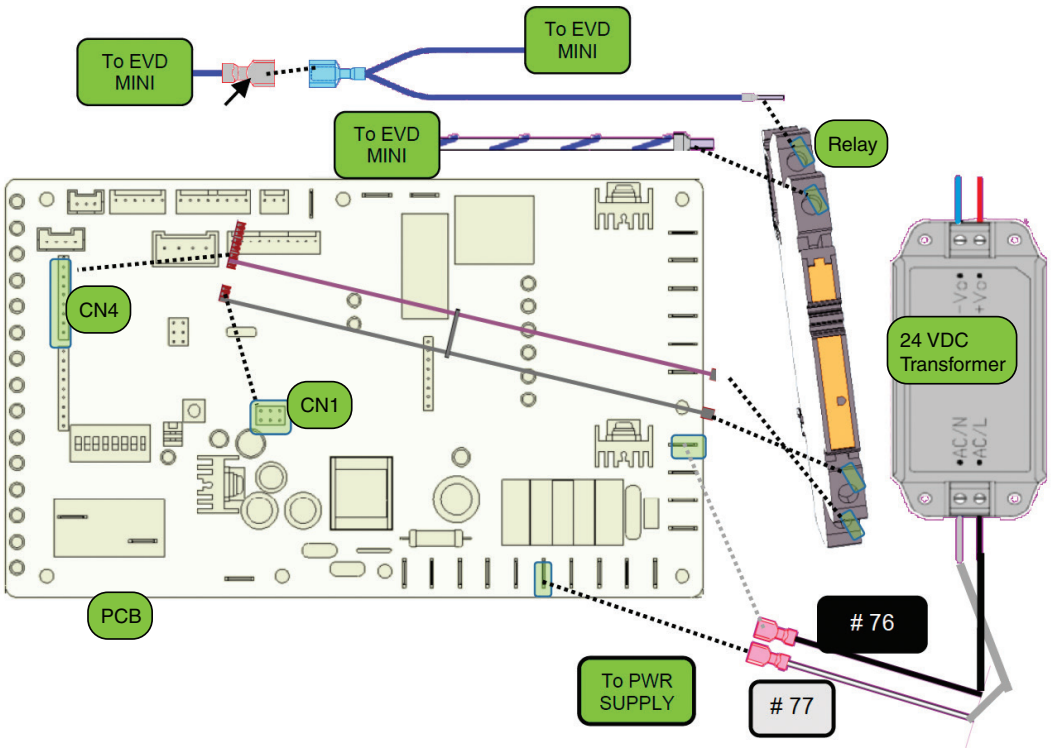


8. Using a flat-head screw driver slide the lock outwards, away from the EEV controller.



9. Remove the 24 VDC powered EEV module.

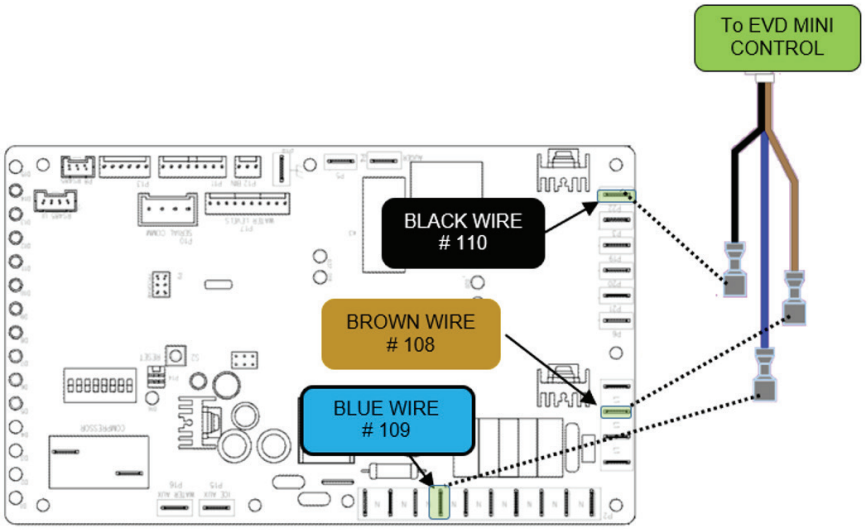
10. The EEV/Relay mounting bracket will remain for new line-voltage EEV (with screen) to be installed.
11. Discard all previously removed components.
12. Install the line-powered EEV module with screen by following instructions located on page 7.



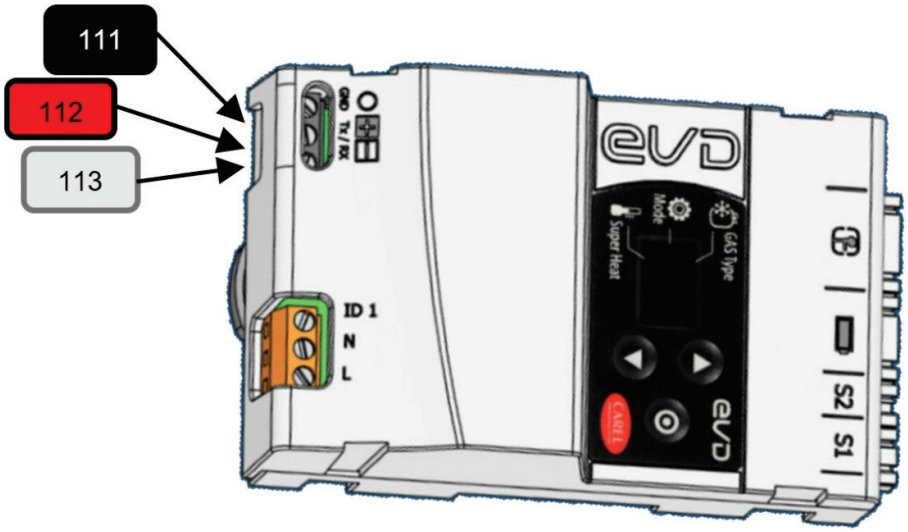
Remove Line-Voltage EEV Module with Screen

1. Power Ice Machine OFF
2. Identify and disconnect the below listed wires from the PCB.

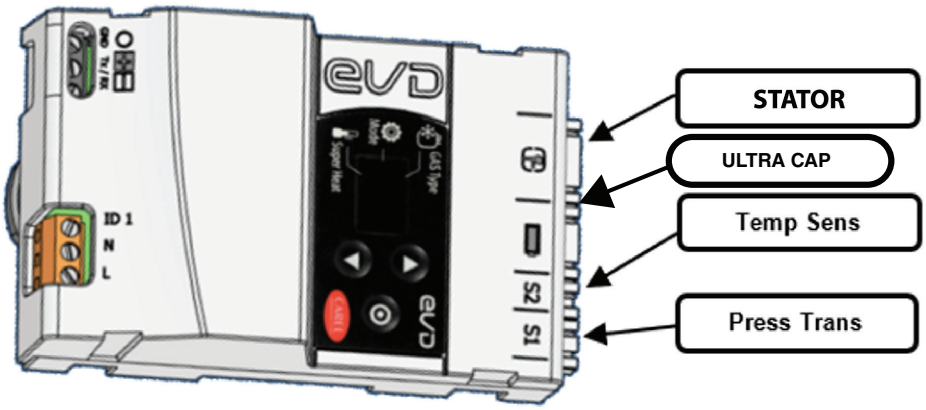
- Black wire #110 (Control)
- Blue wire #109 (Neutral)
- Brown wire #108 (Line)



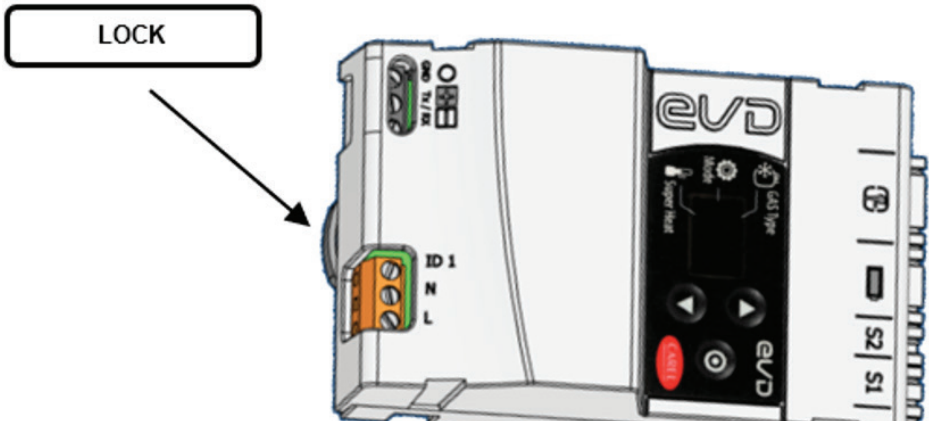
3. *Do not remove* the programming wire harness (wires 111, 112 and 113).



4. Carefully disconnect the stator, ultracap module (if equipped), temperature sensor, and pressure transducer cables on the control side of the EEV controller.



5. Identify the EEV controller lock.



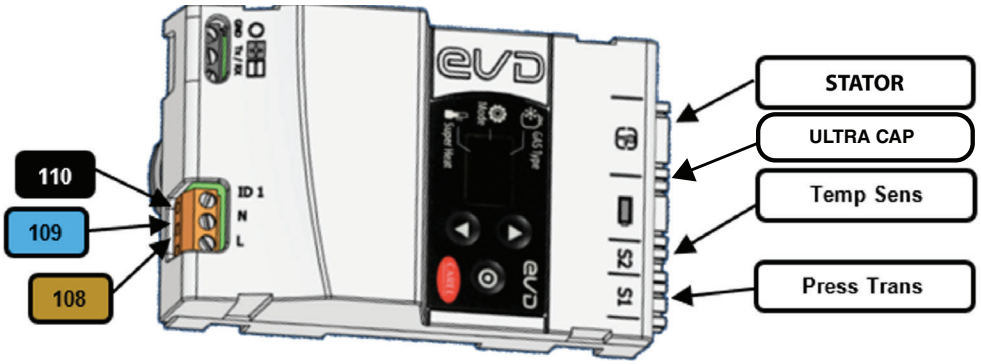
6. Using a flat-head screw driver slide the lock outwards, away from the EEV controller.



7. Remove the line-voltage EEV module.

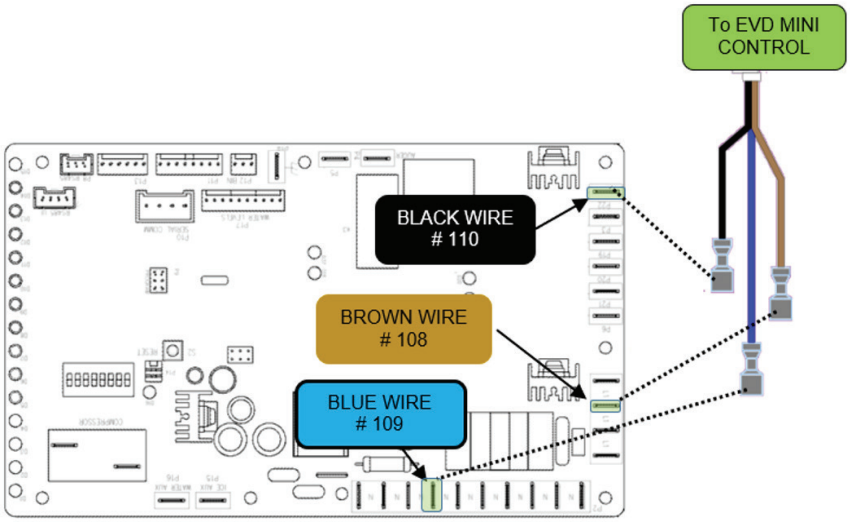
Installation of Line-Voltage EEV with Screen

1. Replace the controller and ensure that the lock is engaged and the controller is secured to the mounting bracket.
2. Plug in the stator, temperature sensor, pressure transducer cables, and ultracap module (if applicable).



3. Connect the wires from the EVD mini control to the PCB.

- Black wire #110 (Control)
- Blue wire #109 (Neutral)
- Brown wire #108 (Line)



4. For 24 VDC replacement only, replace the existing electrical schematic on the underside of the control box cover.

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