

AIR CONDITIONING

Purpose

This document outlines the recommended wiring options to operate a gas furnace with the optional Chill Cube thermostat.

Overview

If the Chill Cube thermostat is wired incorrectly, it will not operate the gas furnace connected to it. The ground terminal of the thermostat must be connected to the same ground (commonly, chassis ground) as the furnace.

Wiring Methods

For aftermarket installation, additional wiring may be needed depending on existing wiring available in the RV.

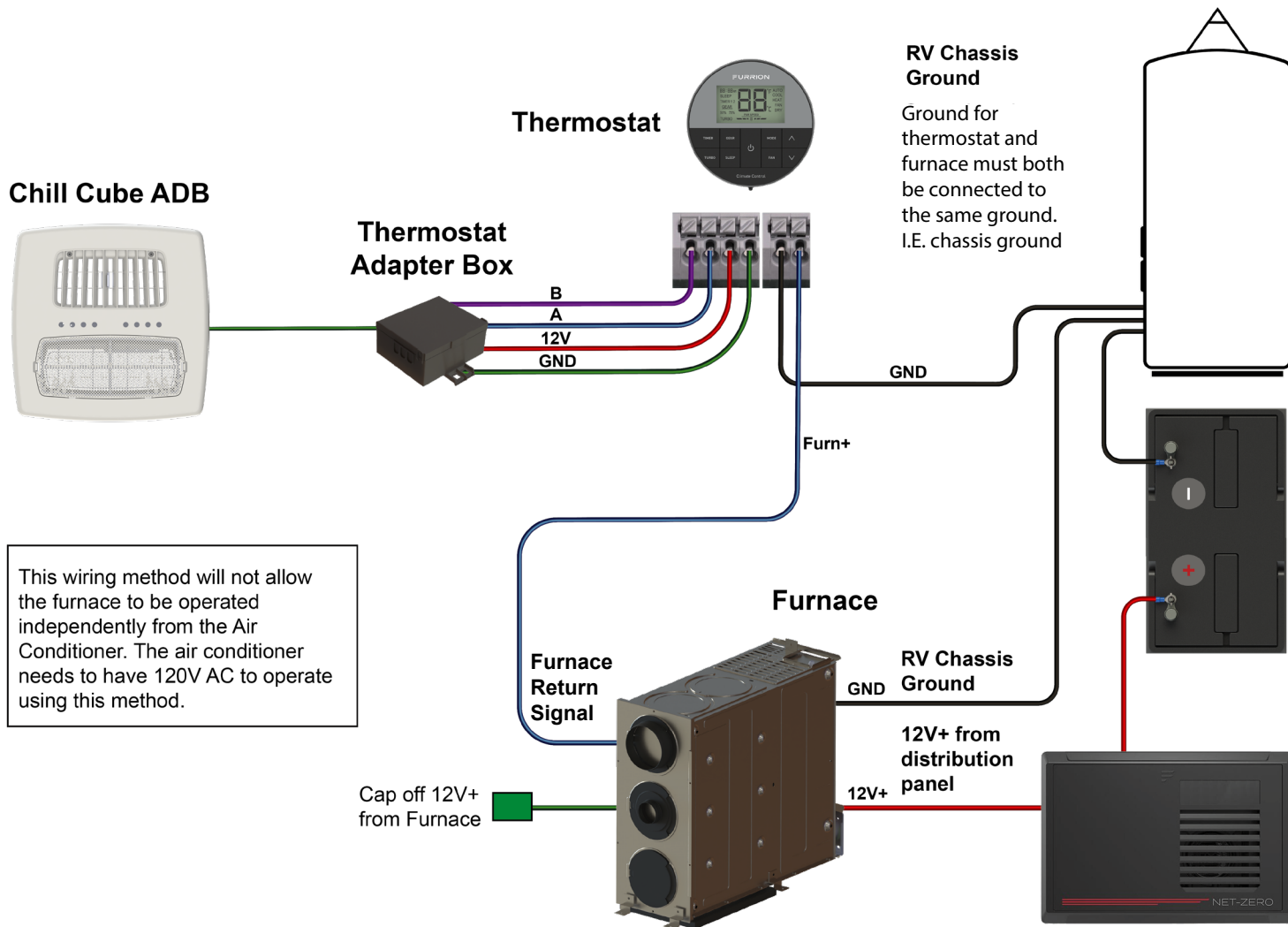
NOTE: Wire colors may differ within the RV from those shown on the diagram(s).

NOTE: If the air conditioner unit has 120volt AC power connected to it the indoor fan in the unit will run constantly when the furnace is in heat mode. The only way to shut the indoor fan off in the air conditioner unit is to disconnect power to it at the circuit breaker in the RV distribution panel. To do this and still operate the furnace will require the system to be wired using methods B or C in this document which are suitable for off-grid RV usage (boondocking).

NOTE: Some Furrion furnaces have an active low input circuit board. This circuit board is not compatible with the Chill Cube thermostat. Before proceeding, check that the furnace has two blue wires coming off of the board for thermostat connections. If one of those wires has a label on it, then the furnace is a high active model. If no labels are present on the wires, then the furnace has the active low input circuit board installed. The circuit board can be changed with the active high input version (model number C-FFG35FA-031/Lippert part number 2023060551).

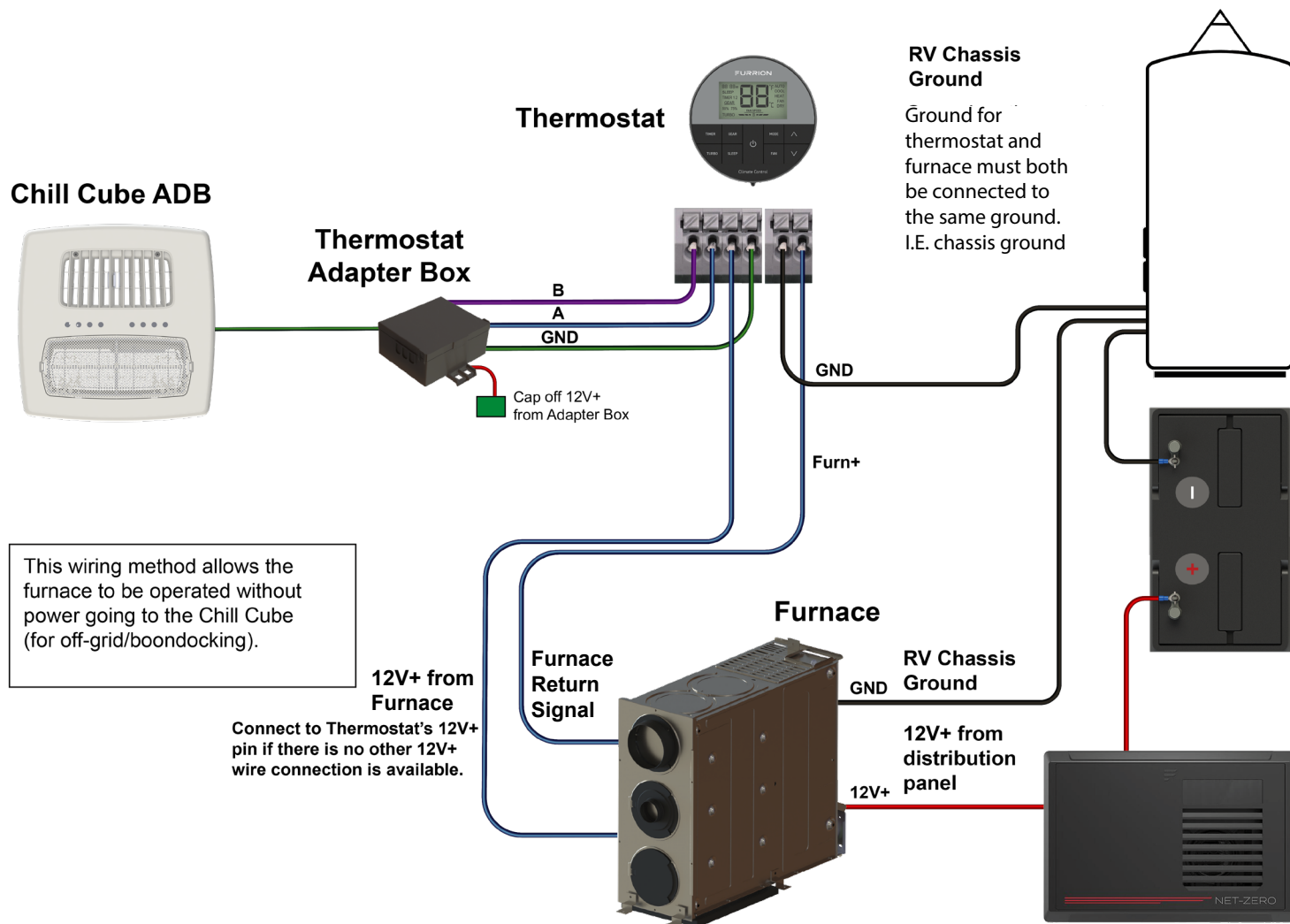
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Method A: High Active Furnace / Chill Cube Air Conditioner
(Powering Thermostat From Air Conditioner)



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Mehod B: High Active Furnace / Chill Cube Air Conditioner (Powering Thermostat From the Furnace)



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Method C: High Active Furnace / Chill Cube Air Conditioner
(Powering Thermostat From the Distribution Panel)

