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**Title:** Espar Heater Diagnostic Guide

**Applies To:** Airtronic D2 Heater, Hydronic D5 Heater, Feature code 16UZL, 16VTV

## DESCRIPTION

This article provides for the diagnosis and repair procedure for the Espar Hydronic Heater and Espar Airtronic Heater. These systems provide heating for the sleeper area without use of the vehicle engine.

## BASIC OPERATIONAL CHECKS

- The Hydronic heater requires 10.2 volts minimum to operate. The system controller for the MaxxPower No Idle System requires 11.2 volts.
- The Airtronic heater requires 10.5 volts minimum to operate.
- Check the system for any faults using the Diagnostic Unit or EDiTH.
- If there have been more than 20 unsuccessful start attempts or 3 consecutive overheats, the heater will lock out.
  - To unlock the heater you will need to use the Diagnostic Unit or EDiTH
  - You then must run "General Data Test" and then select "Error" tab. Then click the "Delete" button

## TROUBLESHOOTING MANUALS

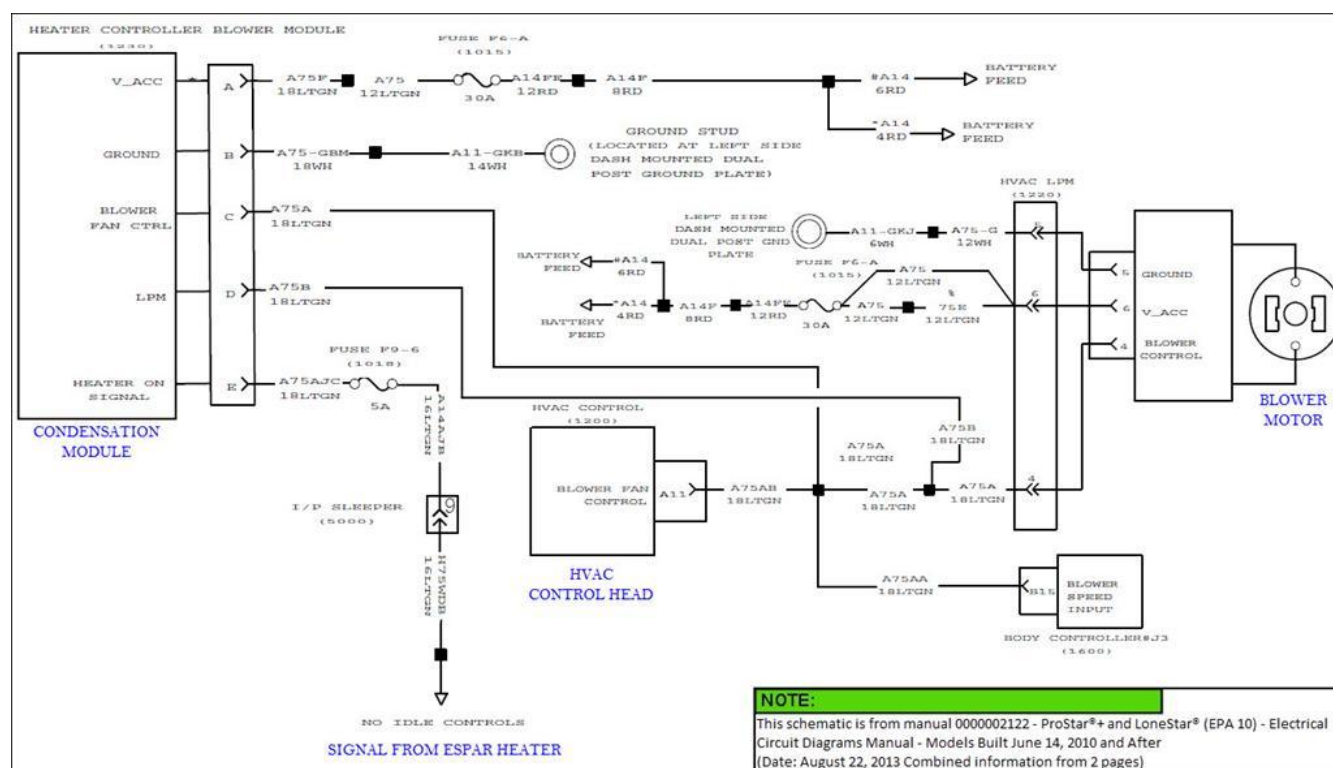
SYSTEM	
Espar Hydronic Operator's Manual	<a href="#">Click Here</a>
Espar Hydronic / Airtronic Diagnostic Unit Information	<a href="#">Click Here</a>
Espar Hydronic D5 Full Manual (Installation / Operation / Maintenance / Troubleshooting & Repair / Parts)	<a href="#">Click Here</a>
Espar Hydronic D5 Diagnostic Training Overview (Includes cut-away views)	<a href="#">#1 Click Here</a> <a href="#">#2 Click Here</a>
Espar Airtronic Flame Tube Carbon Removal	<a href="#">Click Here</a>
Espar Airtronic D2 Full Manual (Installation / Operation / Maintenance / Troubleshooting & Repair / Parts)	<a href="#">Click Here</a>
Basics of Fuel Line Installation	<a href="#">Click Here</a>
Getting Started with EDiTH	<a href="#">Click Here</a>
Recommended Pre-Season Maintenance for Hydronic	<a href="#">Click Here</a>
Recommended Pre-Season Maintenance for Airtronic	<a href="#">Click Here</a>

### NOTE:

Pre-Season maintenance for the Hydronic and Airtronic heaters requires the heater be run at least once every single month for a minimum of 15 minutes.

## CONDENSATION MODULE

The use of the Espar heater requires that the front blower motor in the cab be cycled on and off during heater use. This will draw fresh air into the truck to decrease humidity and condensation in the cab. The heater will send a 5 volt signal to the condensation module.

**NOTE:**

Always refer to the wiring schematic book for the unit you are working on for the most accurate schematics.

**TOOLS**

FIGURE A



FIGURE B

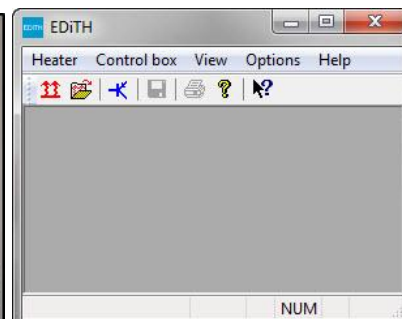


FIGURE C

- ISO Adapter ESP2215418900000Z - Figure A
- 'Y' Adapter for Hydronic heaters ESP2029007050280Z - Figure B
- EDiTH Diagnostic Tool Program - Figure C
- 'Y' Adapter for Airtronic Heaters ESP2210003186000Z (Not shown)

**OTHER RESOURCES**

- [Espar.com](http://Espar.com)
- [Eberspaecher.com](http://Eberspaecher.com) - You can create a log in to gain access to manuals here
- [MaxxPower No Idle System Wiring Schematic](#) - with Hydronic Heater (This includes Bergstrom's wiring as well as the OEM)

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