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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. Both the Airtronic and Hydronic internal components are serviceable. Refer to the parts list IKNow link at the bottom of this document for the complete parts list.

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.
- See Digi-Max Operating Insturctions below for AirTronic Feature code 0016VTV. The under voltage threshold is programmable.
- 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 Digi-Max Operating Instructions (Feature code 0016VTV)	Click Here
Espar Hydronic Operator's Manual	Click Here
Espar Hydronic / Airtronic Diagnostic Unit Information	Click Here
Espar Hydronic D5 Full Manual (Installation / Operation / Maintenance / Troubleshooting & Repair / Parts)	Click Here
Espar Hydronic D5 Diagnostic Training Overview (Includes cut-away views)	#1 Click Here #2 Click Here
Espar Airtronic Flame Tube Carbon Removal	Click Here
Espar Airtronic D2 Full Manual (Installation / Operation / Maintenance / Troubleshooting & Repair / Parts)	Click Here
Basics of Fuel Line Installation	Click Here
Getting Started with EDiTH	Click Here
Recommended Pre-Season Maintenance for Hydronic	Click Here
Recommended Pre-Season Maintenance for Airtronic	Click Here

CIRCUIT DIAGRAMS

DIAGRAM	LINK
Airtronic Wiring Diagram with Key Off Operation	Click Here
Airtronic Wiring Diagram with Key On or in Accessory Operation	Click

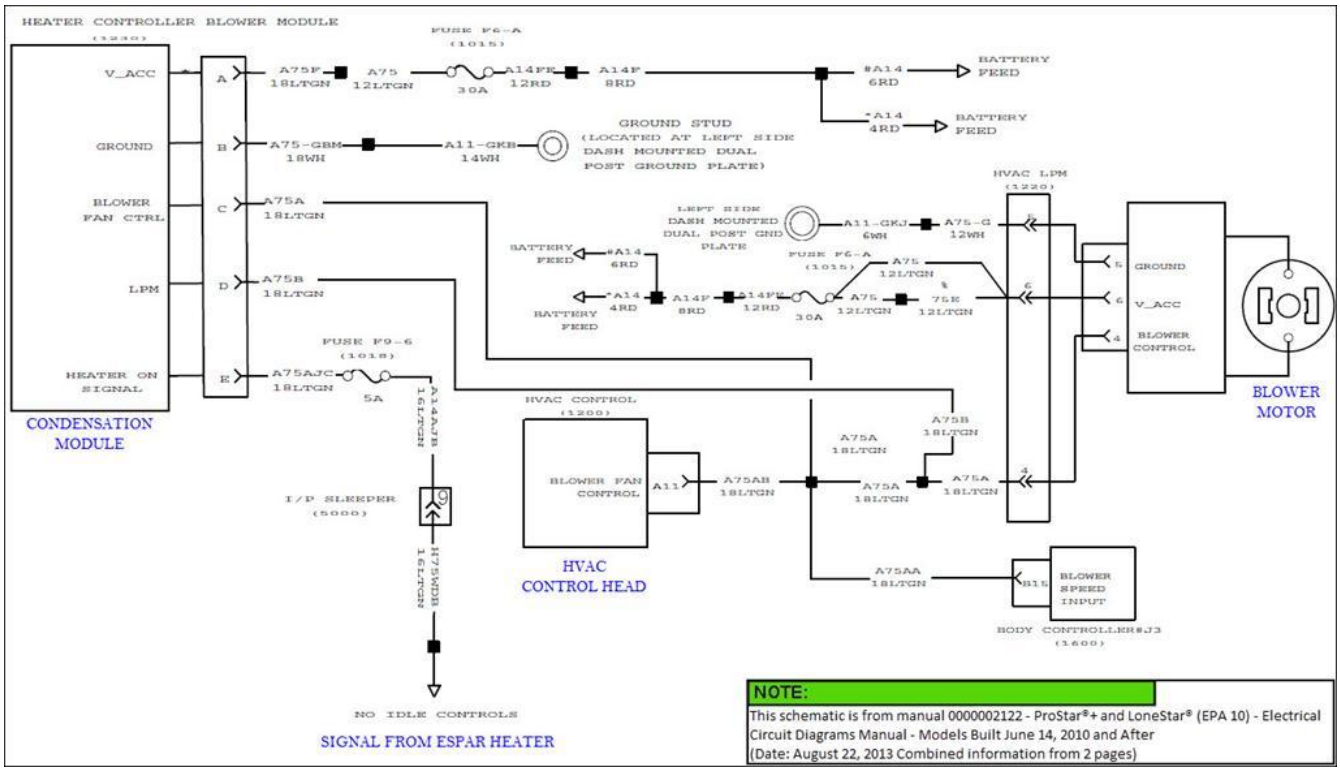
	Here
MaxxPower No Idle System Wiring Schematic- with Hydronic Heater	Click Here

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

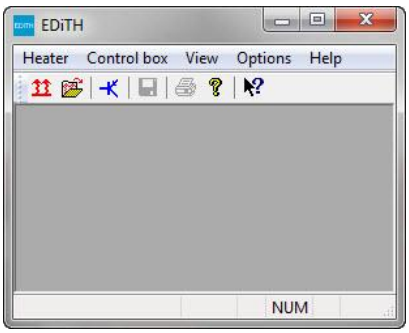


FIGURE C

- ISO Adapter ESP22154189000000Z - 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
- Eberspaecher.com - You can create a log in to gain access to manuals here
- Espar AirTronic Low Run Time
- IK1900208 - Parts lists for Maxx Power and Espar No Idle Systems

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