



Countries: CANADA, UNITED STATES Document ID: IK1900172
 Availability: ISIS, FleetSIS, Body Builder Revision: 11
 Major System: ACCESSORIES Created: 11/4/2011
 Current Language: English Last Modified: 8/22/2013
 Other Languages: NONE Author: Adam Lesho
 Viewed: 6325

Less Info

Hide Details

Coding Information							
Copy Link	Copy Relative Link	Bookmark	Add to Favorites	Print	Provide Feedback	Helpful 422	Not Helpful 316

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

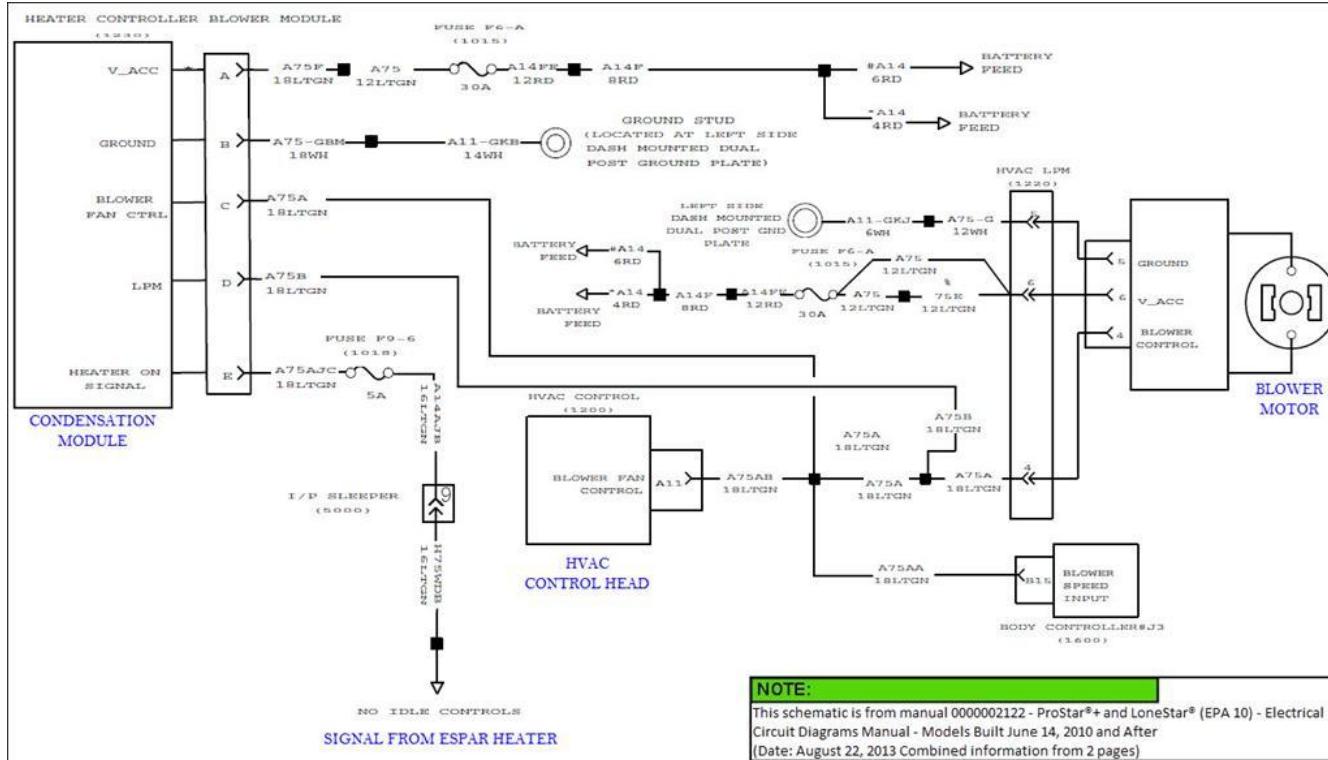
SYSTEM	
Espar Hydronic Operator's Manual	Click Here
Espar Hydronic / Airtronic Diagnostic Unit Information	Click Here
Espar Hydronic D5 Full Manual (Installation / Operation / Maintenance / Troubleshooting & Repair / Parts)	Click Here
Espar Hydronic D5 Diagnostic Training Overview (Includes cut-away 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

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
- 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)

Feedback Information	
Viewed:	6324
Helpful:	422
Not Helpful:	316
No Feedback Found	

Copyright © 2013 Navistar, Inc.