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**Availability:** ISIS, FleetSIS, Body Builder

**Major System:** ACCESSORIES

**Current Language:** English

**Other Languages:** NONE

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Coding Information

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**Title:** ESPAR D5 Hydronic Diagnostic Guide

**Applies To:** ProStar / Lonestar, Feature Code: 16UZL

## CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

10/13/2015 - Changed formatting of SRT table  
 10/09/2015 - Initial Article Release

## DESCRIPTION

The ESPAR diesel-fired heating system provides heat for the cab area without the use of the vehicle engine. When the ESPAR system is on, the front cab blower will also operate to prevent condensation buildup. The heater may have a short run time if the vehicle has sat for an extended period of time with battery low state of charge. This document will guide the user through pre season maintenance, diagnosing, and repairing the D5 Hydronic system on Navistar equipped vehicles.

## SYMPTOM(s)

**Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):**

DTC/Light	Description
Not Applicable	

**Customer Observations or Concerns:**

- Performance:
- No heat in cab
  - ESPAR not working all the time
  - ESPAR intermittent operation
  - ESPAR stops working after a period of time

Noise:  
Abnormal Noise

## **SPECIAL TOOL(s) / SOFTWARE**

Tool Description	Tool Number	Comments	Instructions
Y Adapter	ESP2029007050280Z	The 'Y' adapter is used with the ISO Adapter for the Hydronic D5 SC heater and 12V DC NO IDLE HVAC System.	Not Applicable
ISO Adapter	ESP2215418900000Z	The ISO Adapter (for EDiTH Diagnostics) is used for all Espar Heaters.	Not Applicable
EDiTH Diagnostics Software	Included with EZ-Tech® Software	Not Applicable	Not Applicable

[Tools Resource Center](#)

## **SERVICE PARTS INFORMATION**

Kit Description	Part Number	Quantity Required	Notes
Refer to Online Parts Catalog			

## **DIAGNOSTIC STEP(s)**

Refer to the following links for Diagnostic Procedures:

[ESPAR / Eberspaecher Diagnostic and Repair Manual \(html\)](#)

[ESPAR / Eberspaecher Diagnostic and Repair Manual \(pdf\)](#)

## **REPAIR STEP(s)**

Refer to the following links for Repair Procedures:

[ESPAR / Eberspaecher Diagnostic and Repair Manual \(html\)](#)

[ESPAR / Eberspaecher Diagnostic and Repair Manual \(pdf\)](#)

## **WARRANTY INFORMATION**

**Special Requirements:**

The following information is necessary for the warranty claim to be processed:

- a. Serial Number needs to be listed
- b. Hours on ESPAR System
- c. Fault Code Found

Complete ESPAR system replacement not warrantable, individual system parts need to be replaced.

**Warranty Claim Coding:**

<b>Group:</b>	19030 - Auxiliary No-Idle HVAC
<b>Noun:</b>	633 - Auxiliary Fuel-Fired Heater

**Standard Repair Times:**

Description	Chassis	Engine	SRT	Hours
Hydronic Diagnostics	Prostar	All	<a href="#">R19-8013A</a>	<a href="#">Link to Hours</a>
Combustion Air Blower	Prostar	All	<a href="#">R19-7633A-20</a>	<a href="#">Link to Hours</a>
ESPAR Coolant Heater (Replace)	Prostar	All	<a href="#">R19-7633A</a>	
Coolant Pump	Prostar	All	<a href="#">R19-7633A-21</a>	
Overheat Sensor	Prostar	All	<a href="#">R19-7633A-22</a>	
Flame Sensor	Prostar	All	<a href="#">R19-7633A-23</a>	
Glow Pin	Prostar	All	<a href="#">R19-7633A-24</a>	
Fuel Metering Pump	Prostar	All	<a href="#">R19-7633A-25</a>	
Burner Flame Tube	Prostar	All	<a href="#">R19-7633A-26</a>	
O-Ring Coolant Pump	Prostar	All	<a href="#">R19-7633A-27</a>	
O-Ring Sensor	Prostar	All	<a href="#">R19-7633A-28</a>	
O-Ring Heat Exchanger	Prostar	All	<a href="#">R19-7633A-29</a>	
Seal Kit	Prostar	All	<a href="#">R19-7633A-30</a>	
ECU ESPAR Heater	Prostar	All	<a href="#">R19-7633A-31</a>	

**OTHER RESOURCES**

[Master Service Information Site](#)

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