



Countries: AUSTRALIA, BAHAMAS, BOLIVIA, BELIZE, CANADA, CHILE, COLOMBIA, COSTA RICA, DOMINICAN REPUBLIC, ECUADOR, EL SALVADOR, TRINIDAD AND TOBAGO, UNITED STATES, URUGUAY, VENEZUELA, MEXICO, ARUBA, NICARAGUA, PERU, PUERTO RICO, Curaçao, GUATEMALA, GUYANA, HAITI, HONDURAS, JAMAICA, PANAMA

Document ID: IK0300068

Availability: ISIS, Bus ISIS, FleetISIS, Body Builder, IsSIR

Major System: SPRINGS AND SUSPENSION

Current Language: English

Other Languages: NONE

Viewed: 966

Revision: 3

Created: 3/29/2018

Last Modified: 6/24/2019

Author: Gintarus Andriusis

[Less Info](#)

Hide Details

Coding Information

Copy Link 	Copy Relative Link 	Bookmark View My Bookmarks	Add to Favorites 	Print 	Provide Feedback 	Helpful 10	Not Helpful 0
----------------------	-------------------------------	--	-----------------------------	------------------	-----------------------------	--------------------------	-----------------------------

Title: Hadley Smart Valve Troubleshooting Guide

Applies To: LT and RH

CHANGE LOG

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

06/24/2019 - Updated IK to include Tools PN for USB cable, additional diagnostic steps, and International dealer specific Hadley links in the Repair Steps

11/06/2018 - Republishing due to dealer feedback

05/02/2018 - Changed visibility coding

04/18/2018 - Initial Article Release

DESCRIPTION

This document will guide the user through Hadley ride height Smart Valve Operation and Troubleshooting.

SYMPTOM(s)

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

DTC/Light	Description
Not Applicable	Not Applicable

Customer Observations or Concerns:

- Vehicle being out of specification for ride height - having over or under inflated suspension air bags
- SmartValve status LED blinking

SmartValve Status LED Operation

- The SMARTVALVE STATUS indicator contains both red and green LEDs.
- The red LED flashes quickly if power or communication is lost to the valve.
- The green LED indicates the mode and errors detected during operation. A repeating pattern indicates a system mode or condition. A series of blinks arranged in pairs of groups are used to indicate system faults. This section summarizes these codes.

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Hadley Smart Valve Software (The USB flash drive)		Available on EZ-Tech Download Center	
Programming Cable	PN 03-264-01		



Figure #1: Programming Cable

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
Hadley SmartValve Kit	HAD700R3	1	Includes Valve, Wiring Harness, Interface Module, Button, LED Light

DIAGNOSTIC STEP(s)



WARNING:

To prevent property damage, personal injury, and / or death, park vehicle on a hard, flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in either direction.



WARNING:

To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.



WARNING:

To prevent property damage, personal injury, and / or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

Step	Action	Decision
1	<p>DIAGNOSTIC:</p> <p>Verify the unit is equipped with the Hadley SmartValve height control valve (See Figure 2)</p> <p>Is the vehicle equipped with the Hadley SmartValve?</p>	<p>Yes. Go to Step 2</p>
		<p>No. Refer to Service and Diagnostic manual for further information on standard height control valve</p> <p>For valve retrofit / installation instructions refer to Installation Steps below</p>

Step	Action	Decision
2	<p>DIAGNOSTIC:</p> <p>Hadley SmartValve comes equipped with an LED light located in the dash above/next to suspension dump button</p> <p>Is the LED flashing either green or red pattern indicating a fault?</p>	<p>Yes. Refer to INSTALLATION & DIAGNOSTIC MANUAL FOR SMARTVALVE in the Repair Steps below</p>
		<p>No. Go to Step 3</p>

Step	Action	Decision
3	<p>DIAGNOSTIC:</p> <p>Verify vehicle ride height</p> <p>For the latest ride height specifications and measuring procedures please refer to Service and Diagnostic manual for a specific vehicle model</p> <p>https://evaluate.internationaldelivers.com/service/service_info/MSMSearch.aspx</p> <p>Is the vehicle ride height within specification?</p>	<p>Yes. End of Diagnostics</p>
		<p>No. Refer to SOFTWARE SET-UP MANUAL FOR SMARTVALVE in the Repair Steps below</p>





Figure #2: Hadley SmartValve

INSTALLATION STEP(s)

For the latest information and most up to date manuals refer to:

- <https://www.hadleyadvantage.com/navistar-support>

Instructions of the Hadley SmartValve retrofit / installation and wiring

- [INSTALLATION & DIAGNOSTIC MANUAL FOR SMARTVALVE](#)

REPAIR STEP(s)

For the latest information and most up to date manuals refer to:

- <https://www.hadleyadvantage.com/navistar-support>

REPAIR AND DIAGNOSTIC PROCEDURE:

- For valve diagnostics, fault codes, wiring, and installation refer to manual linked below
 - [INSTALLATION & DIAGNOSTIC MANUAL FOR SMARTVALVE](#)
- For instructions using the setup software, setting ride height, and changing valve height values refer to manual linked below
 - [SOFTWARE SET-UP MANUAL FOR SMARTVALVE](#)

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

OTHER RESOURCES

[Master Service Information Site](#)

 Hide Details

Feedback Information

Viewed: 965
 Helpful: 10
 Not Helpful: 0

Staff ID	Client ID	Comments	Created Date
	DY08955	You received the following feedback From: dy08955 - David Gabrielle Email Address: gabe396@aol.com Job Classification: SE008, Service Technician Dealer: TRUCK KING INTL IDEALEAS Feedback: Is Programming Cable PN 03-264-01 going to be sent to dealers as an essential tool ?	7/1/2019 5:43:52 AM

Copyright © 2019 Navistar, Inc.