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

Revision: 6

Major System: SPRINGS AND SUSPENSION

Created: 3/29/2018

Current Language: English

Last Modified: 2/23/2022

Other Languages: NONE

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Viewed: 2508

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Coding Information

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Title: LINK 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:

02/23/2022 - Updating links and updated new branding of the valve
08/15/2019 - Updated article ownership to current system owner
07/08/2019 - Added comment to PN 03-264-01 programming cable is an essential tool.
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

DESCRIPTION

This document will guide the user through LINK 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
LINK/Hadley Smart Valve Software (The USB flash drive)		Available on EZ-Tech Download Center	
Programming Cable	PN 03-264-01	Essential Tool	



Figure #1: Programming Cable

SERVICE PARTS INFORMATION

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

DIAGNOSTIC STEP(s)

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

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

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



Figure #2: Hadley SmartValve

INSTALLATION STEP(s)

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

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

Instructions of the LINK 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.linkmfg.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](#)

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