

# Installation Instructions for ILAS® E Lift Axle Valve



**L31245**

**8/08**

## Operation

When coupled with the HALDEX TRS braking system, ILAS® E can electrically control lifting and lowering of one or several lift axles on an air suspension system. When supplied with electrical power the axle will remain in the raised position. When the electrical power is shut off, the axle is in the down position.

## Kit Numbers

- 62101005 – AC Kit, ILAS-E with 3/8" PTC and cable
- 62101006 – AC Kit, ILAS-E with 1/4" PTC and cable

## Kit Includes

- ILAS E: 3/8" PTC 90555326 or 1/4" PTC 90555325
- 6 foot cable 814012131

## Mounting

Use the two through holes in the valve to mount to the vehicle. Install the ILAS® E so that it is not in a spray or water splash area and is protected against high pressure cleaning.

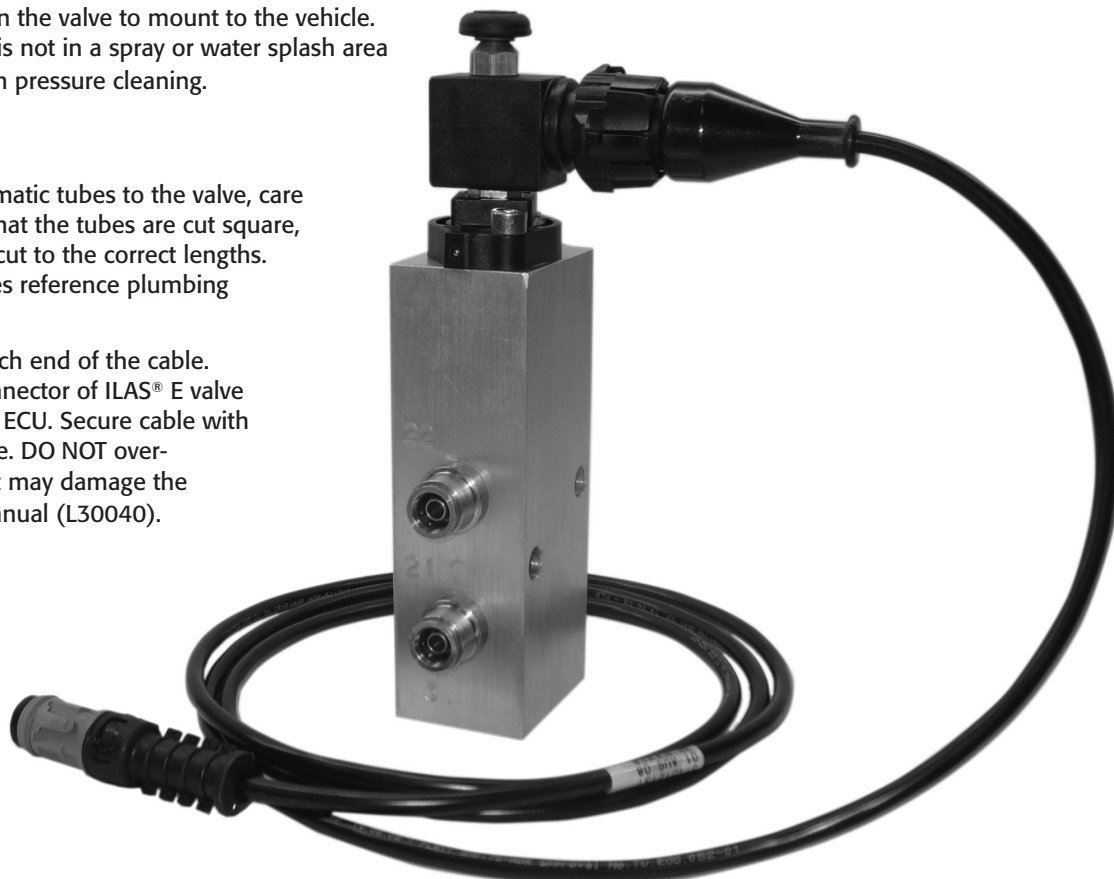
## Installation

When assembling the pneumatic tubes to the valve, care should be taken to ensure that the tubes are cut square, are free from burrs and are cut to the correct lengths. Figure 1 (on reverse) provides reference plumbing diagram.

Apply a lithium grease to each end of the cable. Attach cable to solenoid connector of ILAS® E valve and to the AUX 1 of the TRS ECU. Secure cable with cable ties to prevent damage. DO NOT over-tighten the cable ties as that may damage the cable wires. Refer to TRS Manual (L30040).

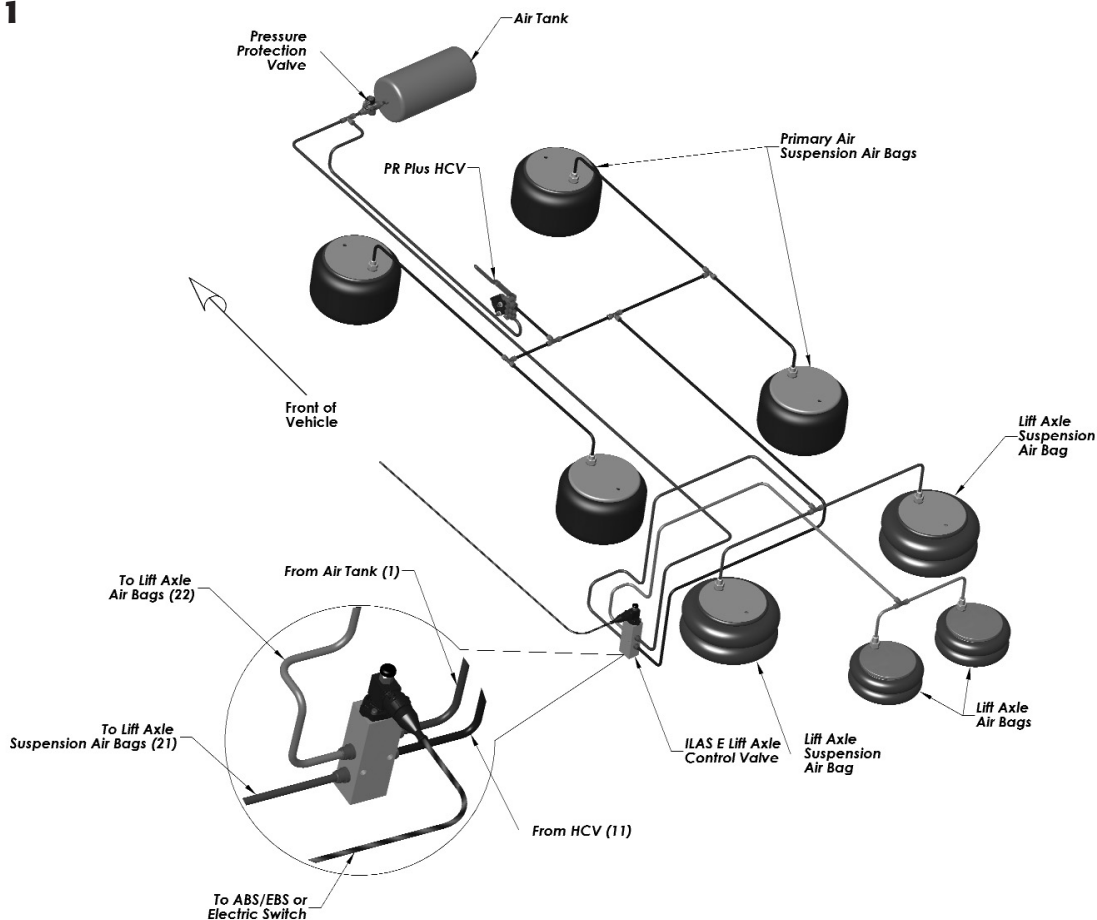
## Port Description

- 1 = Supply
- 11 = Primary Air  
Suspension Axles
- 21 = Lift Axle  
Suspension
- 22 = Lift Bag
- 3 = Exhaust



**Continued on Reverse**

**Figure 1**



### TRS Software Setup

The TRS is made aware of the ILAS® E through a configuration step with the Diag+ software. Connecting the ILAS® E without configuring the TRS will result in a fault light and an auxiliary configuration error DTC.

To configure the TRS for the ILAS® E, connect the TRS to a PC via the diagnostic cabling. Start the Diag+ software and download the configuration from the TRS. Edit the Auxiliary devices, Aux channel #1.

Upon power-up the TRS will by default drop the lift axle if it is raised prior to the power-up. After approximately 30 to 60 seconds, if the airbag pressure is above the drop threshold, the axle will remain down until either the power recycles or the airbag pressure decrease below the lift threshold pressure. This pressure must be maintained for at least 30 to 60 seconds for the lift threshold to trigger. Likewise if the initial airbag pressure is below the drop threshold then the axle will lift after 30 to 60 seconds.

The default drop and lift suspension pressures are 90% and 50% load, respectively. The percentage load is determined by the load plate settings for laden and unladen air bag pressures. These parameters are preset by Haldex to be 80 psi and 14.5 psi, respectively. These values are estimates and will be dependent upon the material the trailer is made of, the nature of the cargo, the distribution of the cargo, etc. Assuming the air bag pressure is linear and reproducible, 90% & 50% load corresponds to air bag pressures of 67 psi and 47 psi, respectively.

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L31245 US 8/08 ART ONLY

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