

Electronic Self Leveling Kit (w/ Compressor Box)

ESLK-XX



Kelderman's Electronic Self Leveling Kit brings all of the benefits of Electronic Leveling to your application in one pre-assembled and easy to install package. The ESLK automatically manages the height of up to 4 independent vehicle corners. This system offers three distinct user-selectable heights based on the measurements taken from electronic ride height sensors mounted within each corner of the suspension. While parked or driving the system will utilize its Ride Monitor Mode™ to maintain the selected height, even when the load on the vehicle is changed. This is accomplished with minimal air consumption and therefore drastically increases the compressor life in comparison to mechanical leveling valves. Electronic compressor management ensures adequate air at all times. All of this automatic intelligence is unnoticed by the driver providing a consistent and perfected ride quality. This is all made possible because the system calibrates upon installation and then constantly learns how your air suspension behaves over time. This flexibility allows the ESLK to perform accurately on any vehicle.

Features:

- **3 User-Selectable** vehicle heights.
- **Auxiliary Inputs** trigger Kneel Height from an external device like a vehicle door.
- **True Position Based Height Sensors** provide accurate leveling regardless of load.
- **Fast Height Recovery**, typically 4 seconds from Kneeled to 50% of travel.
- **User Re-Savable** ride height from inside the vehicle, (mechanical linkage adjustment under the vehicle is not required).
- **Ride Monitor Mode** automatically corrects for changes in load while driving or parked.
- **Ride Height on Start** brings the vehicle to driving height on vehicle ignition.
- **Automatically Calibrates** to perform accurately on any vehicle.
- **Cold Weather Compatible** due to enclosed design.
- **Extensive Self Diagnostics** notify the driver of any system malfunction.
- **Manages Air Compressor** to allow faster height achievement.
- **High Volume Compressor** provides tank recovery time of 81 Seconds from 110-150psi on the included 3 gallon tank.
- **Dual Vibration Isolation** eliminates compressor noise transmission.
- **100% Weather Tolerant** for under vehicle mounting.

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Height Select Rocker Switch:

3 Selectable Heights:

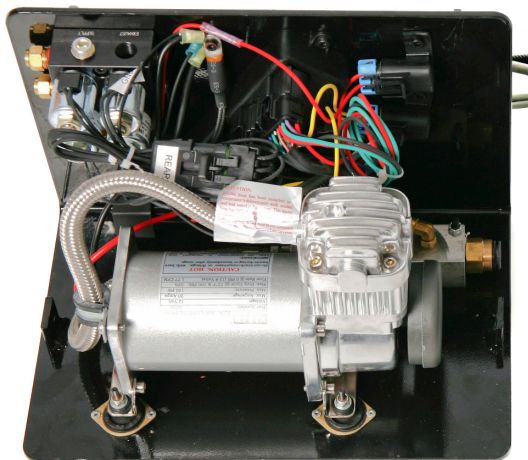


3 Raised/Extra Clearance
(Factory set 90%)

2 Ride Height
(Factory set 50%,
user re-savable)

1 Dump/Kneel
(Factory set 10%)

A hidden program button is included to make manual adjustments, save new favorite heights, and change system modes simply from inside the vehicle.



Compressor Box with cover removed

Models: ESLK-XX	
Model #	Description
ESLK-1	1-Way System Manages 2 Air Springs tied together
ESLK-2	2-Way System Manages 2 Air Springs independently
ESLK-4A	4-Way System Manages 4 Air Springs independently (Kneel/Raise for Rear Only)
ESLK-4B	4-Way System Manages 4 Air Springs independently (Kneel/Raise for all Corners)

Technical Specifications:	
No. of Selectable Heights	3
Auxiliary Kneel Input	12 Volt Trigger & GND Trigger
CANBus Compatibility	Available Upon Request
Voltage Requirements	9.5-16 Volts
Current Requirements	30 Amps (Max)
Electrical Connectors	IP67 certified (immersion up to 3 ft)
Compressor Recovery Time	81 Sec. from 110-150psi (w/ 3 gal reservoir)
Average Adjustment Time	~4 Seconds (from 10% to 50% of travel)
Position Accuracy	1/8" at wheel while parked or driving
Leveling Response Time	5 seconds parked / 45 seconds driving

This pre-assembled package includes the AccuAir Electronic Leveling System, Electronic Solenoid Air Valves, and Viair 325C Compressor all built into a rugged housing designed to withstand harsh under-vehicle environments. A 3-Gallon Air Reservoir is included with the package and should be mounted near the compressor box. Installation is as simple as hooking up (4) airlines, (4) ride height sensors, power, ground, and mounting the Rocker Switch Interface in a driver accessible location.

ESLK: Dimensions in inches (Not to scale)

