



SmartValve™

Electronic Height Control

Lowering Rear Suspension



- Use the existing dash control switch to dump the rear suspension.
- If the “Auto Return to Ride Height” feature is enabled the dump switch will be overridden by either:
 - Attempting to dump at speeds faster than 10 MPH¹.
 - Exceeding 17 MPH¹ while dumped.

When overridden, the green LED will flash quickly until the dump switch is turned off. This feature may be disabled or enabled using the setup tool.

Raising Rear Suspension



- The **SUSP RAISE** switch will raise the rear suspension about 2 inches giving increased ground clearance during drop and hook operation.
- To raise the vehicle: Press the switch once for one second.
- To return to standard ride height: Press the switch again for one second.

Notes Regarding The Raise Function

- The **SUSP RAISE** switch will not operate if the suspension is in the dump mode. The dump mode has priority.
- The speed of the vehicle must be less than 10 MPH¹ to allow switching to the “raised” mode.
- The truck will return to standard ride height automatically if the truck is raised and the speed is greater than 10 MPH¹.
- If the ignition is turned “off” and the truck is left in the raised mode, the vehicle will remain in the raised mode until the ignition is turned “on” and the button is pressed.

Operation Summary

Current Status	Desired Mode	Action Required
Dump	Normal	Set suspension switch to normal height
Normal	Dump	Set suspension switch to dump/lower
Normal	Raise	Press SUSP RAISE button
Dump Switch Overridden	Normal	Set suspension switch to normal height
Raise	Normal	Press SUSP RAISE button
Raise	Dump	Set suspension switch to dump/lower

¹Note: Speed thresholds are typical but may vary in some cases.



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LED Indications

- A red and green LED are used to give mode and error status of the system. If the red flashing light or error codes are present continue driving only after verifying the suspension is in a state to allow safe travel. Refer to the manual for more information.
- Green LED indicates operating mode using a repeating pattern and error codes by blinking two groups of blinks for each error detected.

Indication Summary

Red LED	
Flashing	Indicates the valve is not operating normally and may not have power.
Green LED	
Steady On	ECU Initialization or Fault The LED is on for a short time after the ignition is turned on. A steady light after a few seconds indicates a problem with the valve or wiring.
Short Blinks	Raise Mode (¼ second on every two seconds)
Long Blinks	Dump Mode (one second on, one second off)
Fast Blinks	Dump Switch Overridden (¼ sec. on, ½ sec. off) The dump switch has been overridden due to vehicle speed and the suspension is at standard ride height.
Error Codes - Two Groups of Blinks	
The system identifies several fault conditions using two groups of 1-4 blinks for each condition detected. For example, 1 blink followed by 2 blinks indicates error code 12. All active error conditions are repeatedly shown in sequence.	

For Technical Assistance Contact

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