

Date	Group	No.	Page
4.2005	563	88	1(3)

Air Solenoids
Herion Solenoid Valve
VN, VHD VERSION2
From build date 11.2004

Air Solenoids

Herion

This information contains details for the Herion Air Solenoid applications in VN/VHD vehicles from build date 11.2004.

Contents:

- "Air Solenoids" page 2

Note: Information is subject to change without notice.
Illustrations are used for reference only and may differ slightly from the actual vehicle being serviced. However, key components addressed in this information are represented as accurately as possible.

Air Solenoids

Nominal Solenoid Resistance	16 Ω
Nominal Solenoid Current (12V System)	777 mA
Freewheel/Protection Diode	2 Built In Diodes

Secondary Function Control Solenoid Valve Pack

Primary Packs				
VN	Air Horn (Red)	Suspension Dump (Black)	5th Wheel Slide (Yellow)	Differential Lock (Grey)
VHD	Air Horn (Red)	I/O Air Cleaner (Black)	Inter Wheel Differential Lock (Brown)	Differential Lock (Grey)

Air Solenoids (Chassis Mounted)

Air operated devices controlled from the cab use electric air solenoids. These are mounted on the rear of the transmission crossmember.

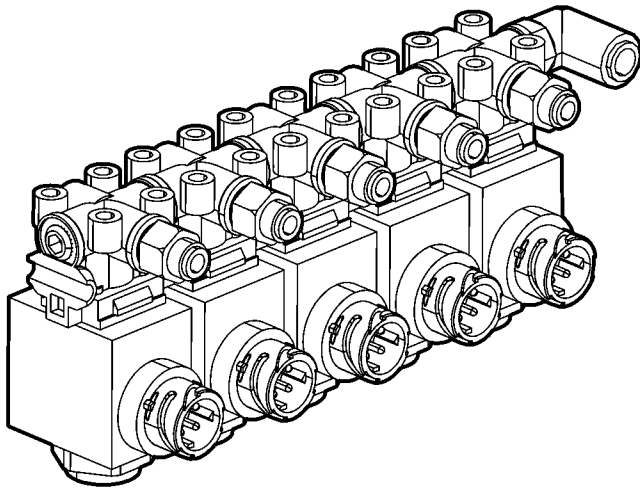
Functions controlled by the air solenoids include:

- Air Horn
- Air Suspension Dump
- InterWheel and Interaxle locks
- 5th Wheel Slider
- Lift Axles
- 5th Wheel Release

There are up to two solenoid packs, depending on the number of air operated devices. Each Solenoid pack can hold up to 5 solenoids and is of modular construction.

All solenoids block air when not engaged and pass air when engaged. For further electrical information refer to VN, VHD VERSION2 Electrical Schematics.

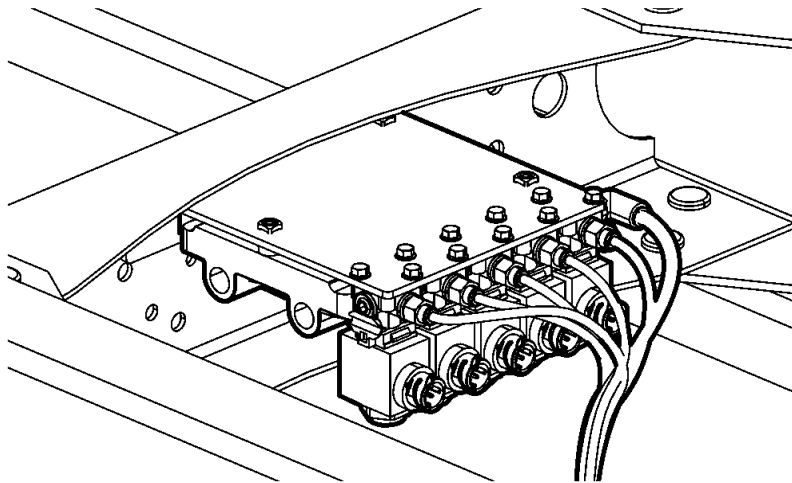
Secondary Function Control Solenoid Valve Pack



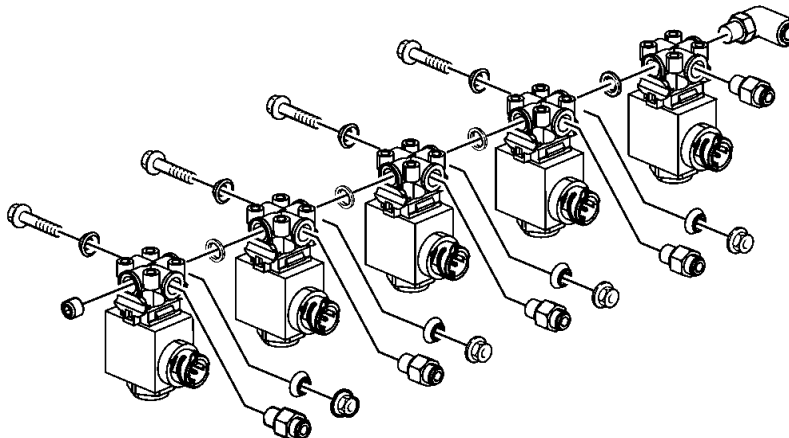
On the second generation of the VN/VHD functions, that have been traditionally controlled with pneumatic switches in the dashboard, will now be controlled electronically with the uses of solenoid valves. The number and configuration of valves will vary from vehicle to vehicle depending on the available options. There are currently five different methods of populating the solenoid valve.

W5001532

Solenoid Packs Auxiliary Systems Schematic



W5001533



W5001534