

SS: 1033256 - WST Frame Beaming - Rough Ride Vibration in bob tail mode

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Applicable Vehicles

WST 4900 with rear Airline Suspension 40K and 46K

Symptoms

Cab vibration above acceptable limits reported in bob tail mode.

Issue

After extensive field test investigation supported by the dealer network, the WST Field Service team has found that severe vibration/cab shaking/rough ride issues reported in vehicles specified with A/L Suspensions, 40-46K and operated in bob tail mode is caused by:

- Incorrect adjustment of suspension ride height.
- Failure of suspension leveling valve to maintain/adjust quickly enough the suspension ride height.

These two factors have the major impact on the severity of the frame beaming/cab vibration/cab shacking issues.

There are also additional rotating components in the vehicle that contribute to abnormal/non acceptable vibration levels that need to be corrected to improve the vehicle ride quality and reduce vibration levels to acceptable limits.

- Tires, wheels, drums radial and lateral run outs.
- Tires mounting, tires pressure, tires flat spots, damaged tires.
- Drivelines balance and run outs.

Refer to SB 00-15 and SB 32-31 for proper vibration diagnostic steps. In addition, we recommend the use of an approved vibration diagnostic tool to identify the system/component causing the reported issues.

The field investigation included the use of EVA, DVA and NVH Vibration Diagnostic tools.

Solution

In order to eliminate the major contributor to the frame beaming/severe cab vibration issues the production leveling valve needs to be replaced by a Hadley Kit Valve that has been effective to maintain/properly adjust the suspension ride height.

Hadley Kit part number is: H01601DA.

This Kit needs to be ordered directly from Hadley. Contact information follows:

Hadley (Global Headquarters)

2851 Prairie St, S.W.
Grandville, MI 49418
P: +1 (616) 530-1717
F: +1 (616) 530-3283

Kit information and installation instructions are attached.

If you have comments or questions please contact your WST DSM or our WST Field Support Team.