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Coding Information

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Title: Lift Axle Potential Interference

Applies To: HX™ Series trucks

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

03/20/2023 - Initial Article Release

DESCRIPTION

This document will guide the user through adjusting the clearance of the 2nd lift axle on an HX series truck. When the second lift axle is in the up position it can cause a vibration.

Customer Observations or Concerns:

1. Drive line vibration.
2. Driveline interference with the lift axle beam.

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
N/A	N/A	N/A	N/A

SERVICE PARTS INFORMATION

NOTE:

Please order parts directly from the supplier: Watson & Chalin Mfg Inc.,
company website www.wcsuspensions-intl.com/Parts.

Kit Description	Part Number	Quantity Required	Notes
LH Lower Bag Plate	52000036.L05Z	1	See Note above
RH Lower Bag Plate	52000036.R05Z	1	See Note above
SNAP RING E-STYLE .75 SP	19027	2	See Note above

REPAIR STEP(s)



WARNING:

To prevent property damage, personal injury, and / or death, park vehicle on hard flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in both directions.



WARNING:

To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.



WARNING:

To prevent property damage, personal injury, and / or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.



WARNING:

To prevent personal injury and / or death or damage to property, remove the ground cable from the negative terminal of the battery before disconnecting any electrical components. Always connect the ground cable last.

1. Park vehicle on flat surface.

NOTE:

Do not set the parking brake, the moment the parking brake is set the lift axle system will not stay down.

2. Shift transmission into Park or Neutral.

3. Turn ignition to Key OFF position.

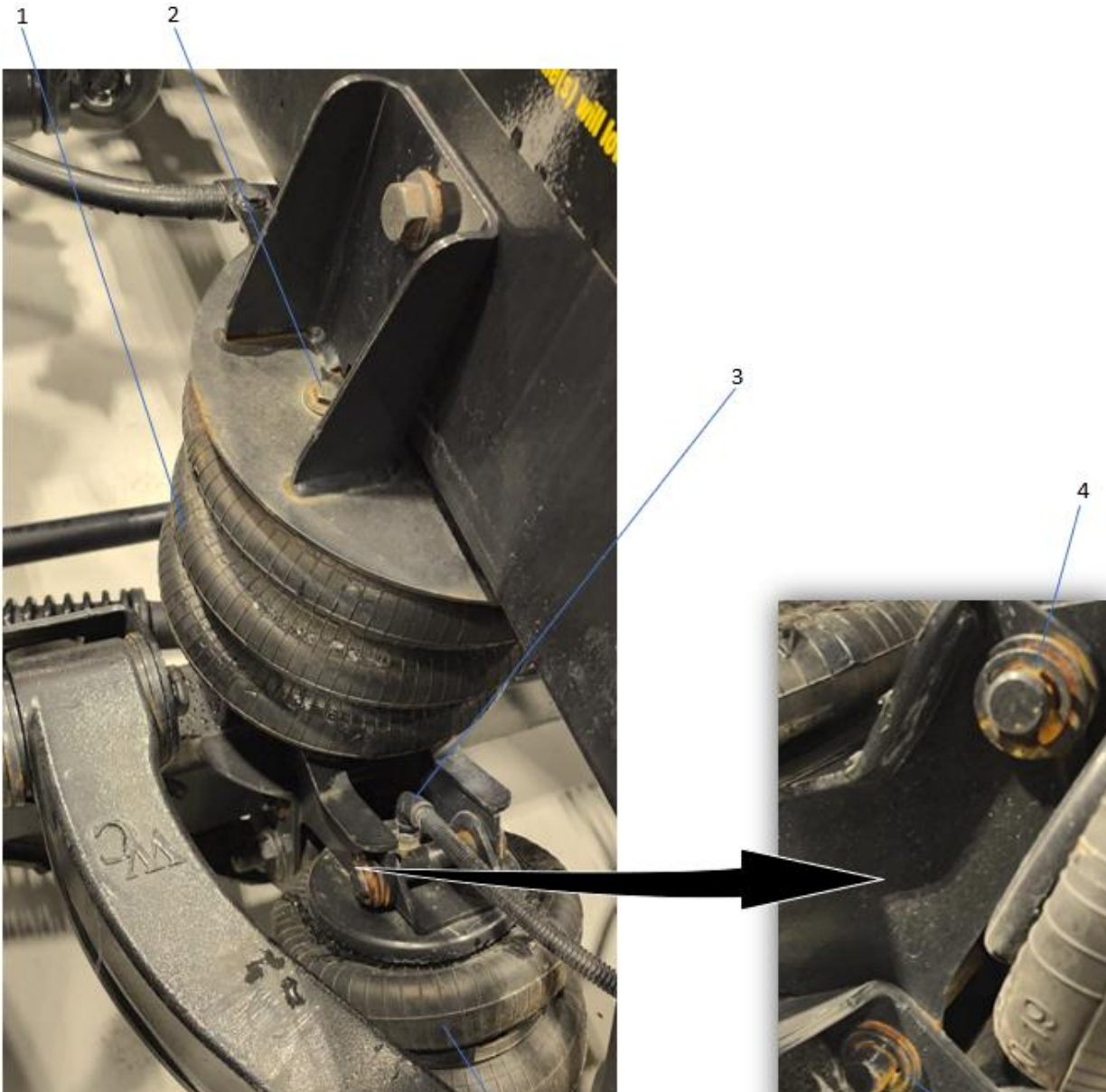
4. Install wheel chocks.

5. Lower the lift axles.

6. Drain all air tanks.

NOTE:

Ensure the whole air system is drained to zero PSI.





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WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

3. Air spring air line

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

OTHER RESOURCES

6. Air spring

[Master Service Information Site](#)

7. Access second lift axle air bag lift components, passenger-side.

8. Disconnect air spring air line (Figure 1, Item 3).

9. Remove upper pin clevis snap ring e-style / washer (Figure 1, Item 4) Save washer for reuse and discard snap ring e-style.

10. Remove upper pin clevis. Save pin clevis for reuse.

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11. Remove lower pin clevis snap ring e-style / washer (Figure 1, Item 5) Save washer for reuse and discard snap ring e-style.

12. Remove lower pin clevis. Save pin clevis for reuse.

13. Remove air spring load bolt / washer (Figure 1, Item 2). Save upper air spring load bolt / washer for reuse.

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Figure 2. Air Spring Load Air connection

1. Air line

2. 90-degree air line fitting

3. Air line fitting nut and washer

14. Disconnect air spring load air line (Figure 2, Item 1).
15. Remove 90-degree air line fitting (Figure 2, Item 2). Save 90-degree air line fitting for reuse.
16. Remove air line nut and washer (Figure 2, Item 3). Save air line nut and washer for reuse.

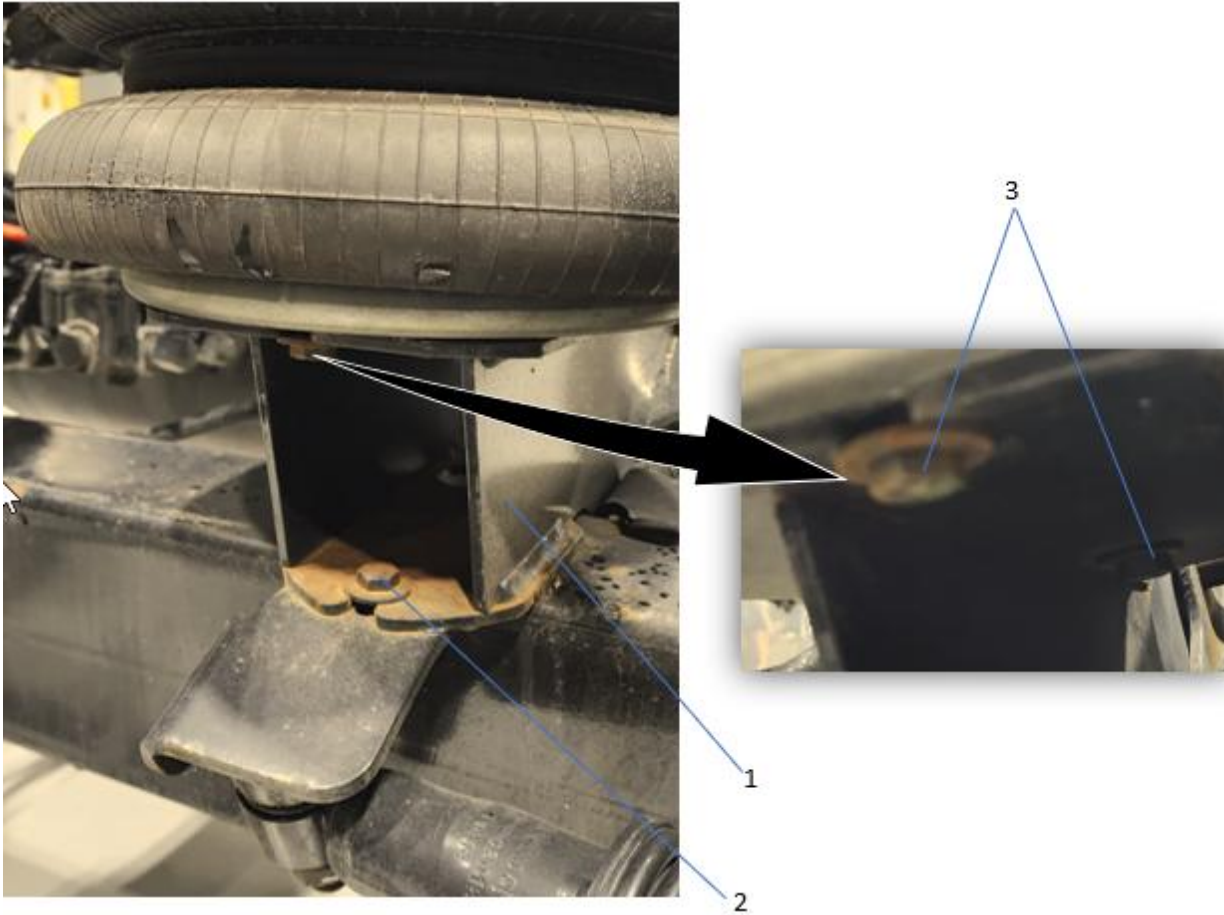


Figure 3. Lower air bag plate

1. Air spring load bolt (2, 1 shown) / washer (2, 1 shown)
 2. Lower air bag plate bolt / washer / nut.
 3. Lower air bag plate
17. Remove lower air bag plate axle bolt / washers, and nut (Figure 3, Item 2). Save lower air bag plate bolt / washers / nut for reuse.
 18. Remove air spring load (Figure 1, Item 1) as one assembly including lower air bag plate (Figure 3, Item 1) from axle and place on a clean bench.
 19. Remove air spring load bolts / washers (Figure 3, Item 3). Save bolts / washer for reuse.
 20. Install the new lower bag plate (52000036.R05Z) Into air spring load using previous removed bolts and washers.
 21. Using a torque wrench, tighten bolts to 30 – 34 ft. lbs. (40.6 – 46.1 Nm).
 22. Install lower air bag plate into axle.
 23. Install lower air bag plate bolt / washer / nut (Figure 3, Item 2).
 24. Install air spring load bolt / washer (Figure 1, Item 2).
 25. Using a torque wrench, tighten lower air bag plate and air spring bolt to 30 – 34 ft. lbs. (40.6 – 46.1 Nm).
 26. Install air line fitting nut / washer (Figure 2, Item 3).

27. Using a torque wrench, tighten bolts to 80 – 85 ft. lbs. (108.4 – 115.2 Nm).

28. Add Teflon tape to air line fitting treads.

NOTE:

When installing 90-degree air line fitting ensure to position 90-degree air line fitting back to original position.

29. Install 90-degree air line fitting previously removed into air spring load (Figure 2, Item 2).

30. Using a torque wrench, tighten bolts to 12 – 15 ft. lbs. (16.7 – 20.3 Nm).

31. Re-connect air line (Figure 2, Item 1) into air spring load.

32. Install air bag into lower air bag plate using previously removed upper and lower pin clevis (Figure 1, Item 4, 5, and 6)

33. Install previously removed washers from upper and lower pin clevis and new snap ring e-style.

34. Re-connect air line into air spring (Figure 1, Item 6).

35. Repeat 7-34 for the driver-side.

36. After completing the repairs on both sides, inspect for any air leaks. Repair if necessary.

37. Remove wheel chocks.

LABOR INFORMATION

Operation number must appear on all claims.

Operation Number	Description	Time
	Lift Axle Lower Bag Plate R&R	1.0 hrs

Table 3 Labor Information