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Availability: ISIS, FleetISIS, IsSIR

Major System: STEERING SYSTEM

Current Language: English

Other Languages: [Français](#), [Español](#).

Viewed: 8648

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Revision: 9

Created: 8/15/2011

Last Modified: 6/7/2018

Author: William Knoth

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Coding Information

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Title: Steering Shake, Shimmy, Shudder, or Steering Vibration

Applies To: 14k front weight rated axles and below

CHANGE LOG

NOTE: DO NOT delete this Change Log. If this iKNOW Article is being revised, please type in the text box below what has changed in the article. The change log is meant for Dealers to be able to see what has updated/changed in the article.

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

6/7/2018 - Update resolution for Hendrickson axles
4/6/2018 - Author updated for feedback purposes
1/30/2017 - Updated application 14K and below
7/11/2014 - Author updated for feedback purposes.

DESCRIPTION

Steering intermittently goes into a shimmy after hitting a bump.

SYMPTOMS

- The steering system may go into a shimmy after hitting a bump or during a curve. Normally the vehicle speed will need to be reduced in order to stop the shimmy. The symptoms may include a lateral (side to side) shake and possible oscillation of the steering wheel.
- Do not confuse this symptom to a consistent shimmy when braking. Refer to [IK1300088](#)

SERVICE PARTS INFORMATION

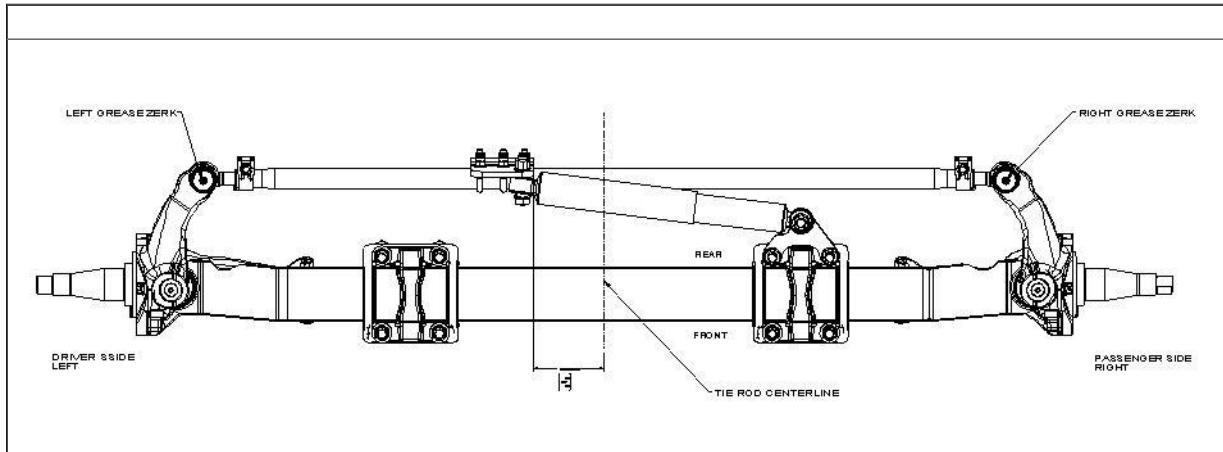
Kit Description	Part Number	Quantity Required	Notes
Steering Stabilizer (with 4 inch wide steer axle springs)	H60961167	1	
Hendrickson Axles ONLY: King pin service kit	H60961040	1	Contains one composite thrust bearing for the drivers side

TROUBLESHOOTING

- Confirm that lateral and radial runout measurements on all tires are below .065 - This must be repaired prior to continuing with any other repairs.
- Check all steering components as well as king pins and wheel bearings on the steer axle for excess play or out of specification conditions and repair as needed.
- Confirm there is no air in power steering fluid and confirm the steering system is operating properly.
- Confirm fastener torque on all steering system, frame rail and crossmember, and fuel tank mounting brackets/supports.
- Confirm alignment is in specification using [IK0200013](#).
- Confirm the type of axle installed. Is the axle a Dana or Meritor?
 - No: Install kingpin service kit H60961040 per Hendrickson manual [59310-011](#).
 - Yes: Install the steering stabilizer H60961167 per the below resolution.

RESOLUTION

The stabilizer kit can be installed to dampen the steering system.



Meritor and Dana axles will require the mounting bracket (axle side) to be modified to bend slightly upward to clear the tie rod at full turn, and a longer axle U bolt installed (12 inch 53391R21)



**WARNING:**

The steering system must be inspected and tested for full range of travel to confirm there is no binding or contact after the stabilizer has been installed. Any binding or contact at any point in the full range of travel must be repaired.

WARRANTY INFORMATION

Warranty Claim Coding:

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

Standard Repair Time(s):

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

OTHER RESOURCES

[Master Service Information Site](#)

[Hendrickson Softek, Steertek, Airtex Service Manual 17730-252](#)

[Hendrickson Kingpin Bushing Service 59310-011](#)

[Hendrickson Parts Catalog SP-182](#)

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