


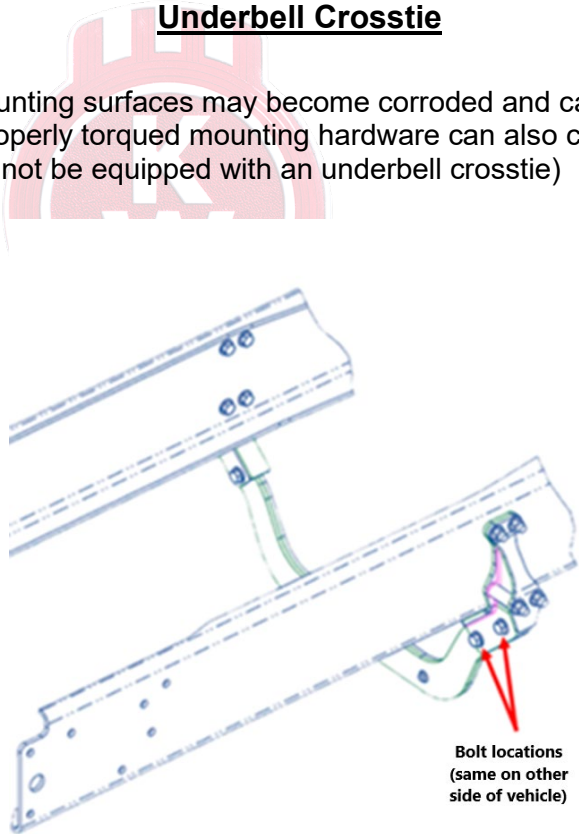
16-047: Front Suspension Noise Vibration Harshness (NVH)

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Title	16-047: Front Suspension Noise Vibration Harshness (NVH)
Description	Front Suspension Noise Vibration Harshness (NVH)
Bulletin No.	16-047
Bulletin Category	Technical Information
Image	
Service Subject	Front Suspension Noise Vibration Harshness (NVH)
Section	Suspension - 16
What's New Abstract	 Only Certain chassis may have creaking, popping, or knocking noises coming from the front suspension when turning or going over bumps.
Revision	
Condition / Complaint	Certain chassis may have creaking, popping, or knocking noises coming from the front suspension when turning or going over bumps. This bulletin provides further information on specific items to inspect to aid in diagnosis of potential root cause(s) of these issues and is to be used in tandem with regular diagnosis of NVH concerns.
Chassis Affected	All Kenworth models
Service Action	Information Only

16-047: Front Suspension Noise Vibration Harshness (NVH)

	<p>Please see the Procedure section of this bulletin for suspension NVH diagnosis clarification.</p> <p>This bulletin provides further information on specific items to inspect to aid in diagnosis of potential root cause(s) of these issues, and is to be used in tandem with regular diagnosis of NVH concerns.</p>
<p>Procedure</p>	<p>Please follow your dealership's safety procedures and precautions to ensure the vehicle can be safely repaired and maintained.</p> <p>If a customer is experiencing a “creaking” noise coming from their front suspension, the following information should be considered when diagnosing suspension NVH.</p> <p style="text-align: center;"><u>Underbell Crosstie</u></p> <p>Bolts and mounting surfaces may become corroded and can be a source of NVH. Improperly torqued mounting hardware can also cause NVH. (Vehicle may not be equipped with an underbell crosstie)</p>  <p style="text-align: center;"><u>Shims, Axle Blocks, Axles and Springs</u></p> <p>Front axle blocks, shims, axles, and springs should be inspected for excessive rust or wear.</p>

16-047: Front Suspension Noise Vibration Harshness (NVH)



Corroded Shim



New vs Old Shim



Corroded Spring



Spring Pin Bushings

If a customer is experiencing a “popping” or “knocking” noise, the bushings of the front suspension spring pins should be checked.

For rubber spring pin bushings, inspect rubber on edge of bushings and look for signs of wear in the rubber and relative movement between the bar pin and the molded steel inner tube. Look for scarring marks on spring pin shackles as this would be a sign of spring pin bushing failure.

16-047: Front Suspension Noise Vibration Harshness (NVH)

	<p style="text-align: center;">Shifted Bushing</p>  <p style="text-align: center;">Spring Contact</p> 
Channels	KWUS <input checked="" type="checkbox"/> KWCA <input checked="" type="checkbox"/> KWGS <input checked="" type="checkbox"/>
Publish On	2/13/2024
What's New?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>