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Major System:	BRAKES	Created:	5/28/2012
Current Language:	English	Last Modified:	6/4/2012
Other Languages:	NONE	Author:	Anthony Kelso
Viewed:	1062		

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Coding Information

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Title: ProStar-Vibration While Braking**Applies To: 2011 to current Prostar****DESCRIPTION**

Some current build Prostar models may exhibit a brake "Shimmy" or Vibration in the front end during brake events. All 2011 build Prostar models with this concern will need an Iknow case file opened and any faults with Meritor components need to be directed to Meritor On Trac for repair directions.

In order to expedite this process this article will cover the basic checks and information required for case file creation.

TROUBLESHOOTING/DOCUMENTATION

**** AN EXACT DESCRIPTION OF THE TYPE OF VIBRATION IS REQUIRED TO DEFINE THE ROOT CAUSE.**

- *When does the vibration, shake or shimmy occur?- loaded, bobtail, speed related, hard decel, light decel, down hill decel?*
- *Is there movement in the steering wheel? Does the steering wheel shake in a left to right motion (steering wheel nibble) or up and down?*
- *If drum runout is in specifications and vibrations or shake is felt other than a steering wheel nibble perform an axle wrap / spring wrap test on the front suspension.*

Information for case file

Vehicle Information

Meritor brake Tag (off cam assembly)

Drum Type (Meritor, Gunite, Centrifuse etc...)

Hub Type

When the vibration started

Other conditions that exist (Hot wheel end, Pull etc...)

Base suspension checks for loose or damaged components

Friction material type (numbers off Web or printed on side of linings)

Drum runout (test as an assembly on the truck, if excessive verify disassembled using a Drum Micrometer)

ASA Worksheet ([HERE](#))Brake Burnishing Procedure ([HERE](#))

Drum to Hub pilot inspection

Hub -bearing,runout , and end play

Rotate drum on each wheel stud (clock drum) to achieve the lowest runout and retest

For concerns found with Meritor components please contact Meritor On -Trac at 1-866-668-7221

RESOURCES[Meritor MM4](#)[Meritor MM-99100](#)[Meritor MM1](#)[S04007- Drums and Shoes](#)

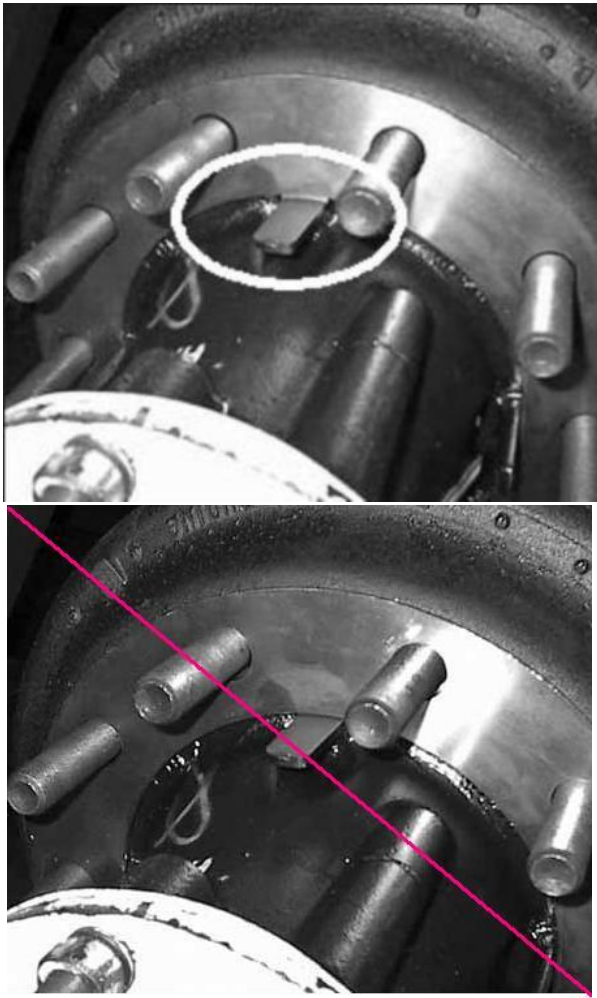
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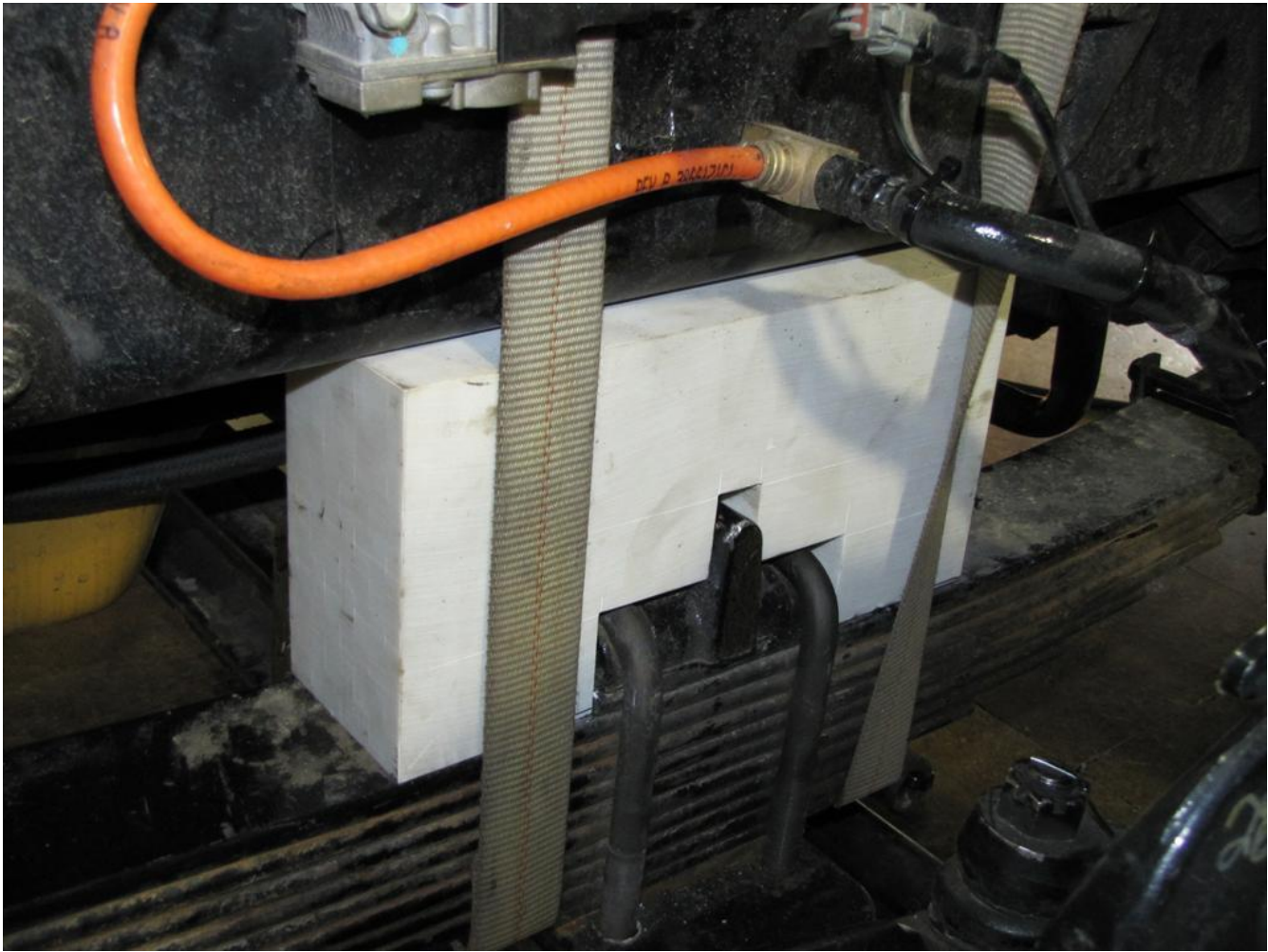
Lining Type



Pilot Inspection



Spring wrap test pictured below. Raise the truck by the frame and allow suspension to hang at full travel before attempting to measure for, or insert blocks. Block height should be enough to prevent springs from doing any work. Ride and handling characteristics will change greatly when the suspension is blocked.

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