

 HARBINGER	Technical Service Bulletin
Bulletin Number: TSB-04-00001	
Date: 4/1/2026	
Subject: Tie Rod Ball Joint Proper Indexing Inspection - Procedure	
Applicability: MY2025/2026 Chassis	
Service Category: Suspension	
Section: Suspension	
Market: USA & Canada	

Introduction:

This TSB is recommended to resolve complaints about alignment pull in either direction.

To be performed both as an independent inspection and at the end of any alignment procedure. Repeat and confirm on both sides.

Affected Model Year(s) 2025-2026 Harbinger chassis, please refer to the following service instructions.

Vehicle Applicability:

Model Year	Model
2025-2026	Harbinger Chassis

Labor Operation	Labor Code	Allowance
Inspection Only	997-002-003	0.3 hrs
Inspection + Loose Nut Correction	997-002-013 997-002-003	0.6 hrs
Inspection + Wheel Alignment (toe) *Pre and Post Printout Required	997-002-012 997-002-013 997-002-003	1.3 hrs

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VIN's Affected:

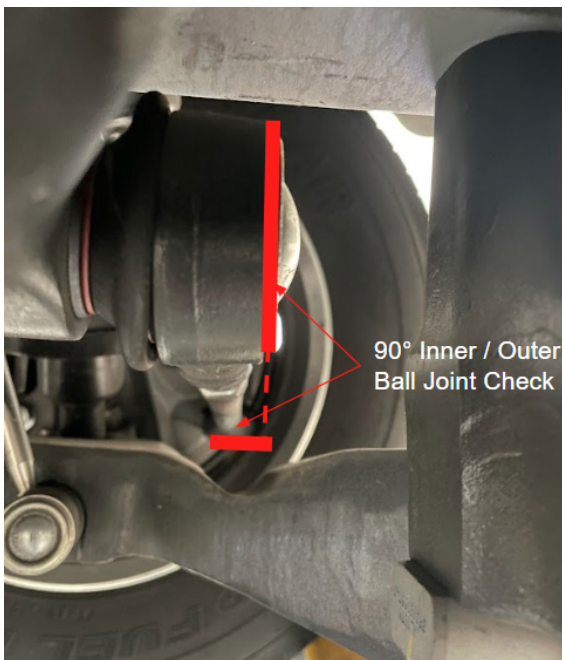
MY2025: ALL

MY2026: ALL

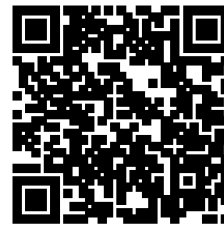
Tools / Materials Needed

- Large Vice Grips
- Large Channel Locks
- 27mm Wrench
- 30mm Crowsfoot for Torque Wrench
- Torque Wrench up to 150Nm
- Blue Loctite 243

Instructions



1. **Inspect/Confirm** Tie Rod Jam Nuts are tight. (Torque Stripes Must Be Aligned)
2. **Inspect** inner and outer ball joints to confirm they are 90° in reference to each other visually.
3. **Test** the tightened tie rod assembly to ensure they can rotate freely $\pm 10^\circ$ **back and forth**.
 - a. Access the following URL <https://tinyurl.com/2raaucvr> or scan the QR CODE to view an **example video of a freely rotating adjusted assembly**



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End Of Inspection / Confirmation



1. Ball Joints are 90° relative to each other ⇨ **PASS**
2. $\pm 10^\circ$ degrees of free movement is observed ⇨ **PASS**

IF the Inspection PASSED, Mark the outer Tie Rod with a
Green +

IF the Inspection did not PASS, then proceed to the Indexing
Procedure

IF both tie rod jam nuts were found loose on either side, then
a toe alignment is necessary.

Indexing Procedure Driver's Side:



1. **Driver Side - START-** Loosen the Jam Nut of the inner tie rod.

NOTE!

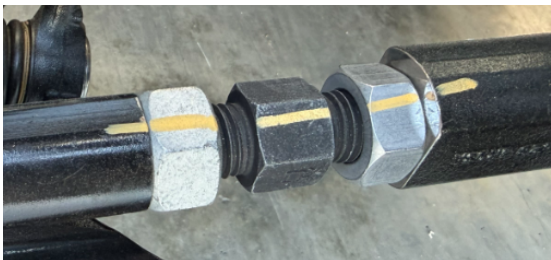
These are Left Handed Threads



2. **Driver Side -** Ensure the Toe adjustment is set and the outer tie rod Jam nut is torqued tight - 150 Nm.

NOTE!

Add Torque Stripe after Tightening



NOTE!

These are Right Handed Threads

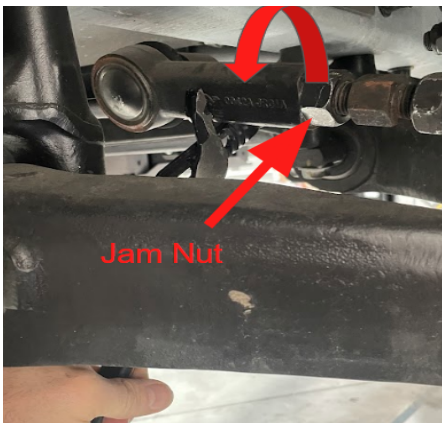
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3. **Driver Side** - Rotate the Outer Tie Rod to the end of its range of motion in this direction.



4. **Driver Side** - Rotate the Inner Tie Rod to the end of its range of motion in this same direction.



5. **Driver Side** - Add blue loctite 243 and torque the Inner tie rod jam nut to **150 Nm** while holding the ball joint in position.

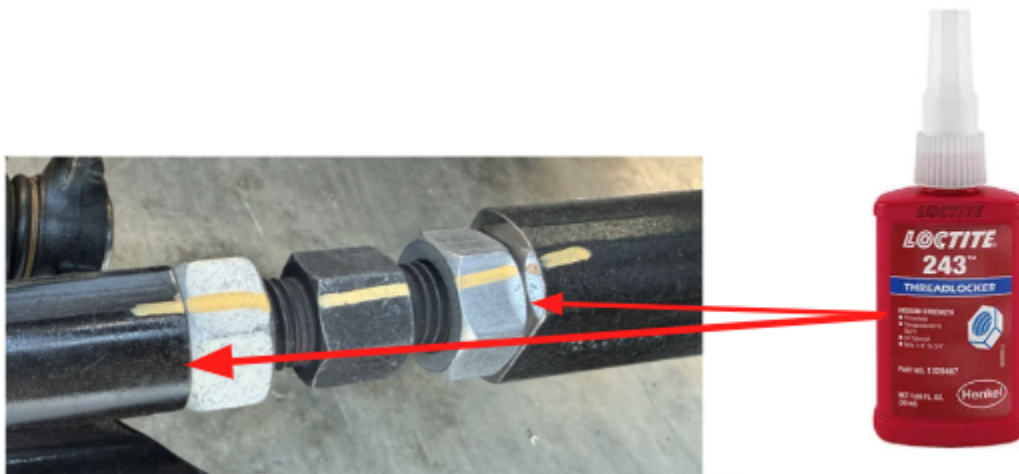
NOTE!

Add Torque Stripe after Tightening

NOTE!

These are LEFT Handed Threads

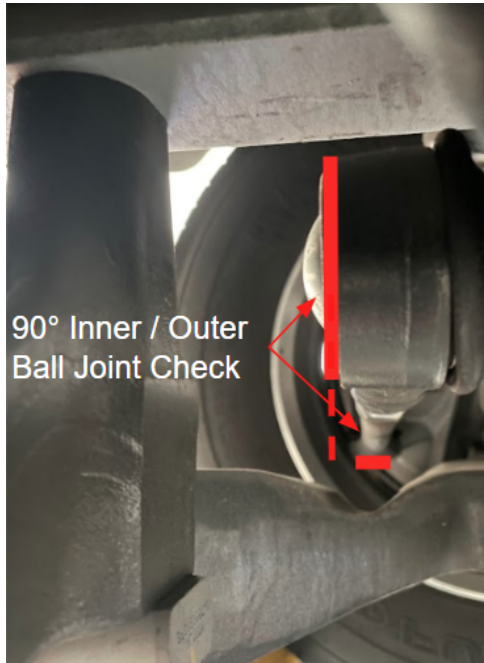
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Repeat Tie Rod Ball Joint Indexing inspection as illustrated in the beginning of this instruction sheet.

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Indexing Procedure Passenger's Side



1. Inspect/Confirm Tie Rod Jam Nuts are tight. (Are Torque Stripes Aligned?)
2. Inspect inner and outer ball joints to confirm they are 90° in reference to each other visually

Test the tightened tie rod assembly to ensure they can rotate freely $\pm 10^\circ$ back and forth.

- a. Access the following URL <https://tinyurl.com/2raaucvr> or scan the following QR CODE to review above inspection:



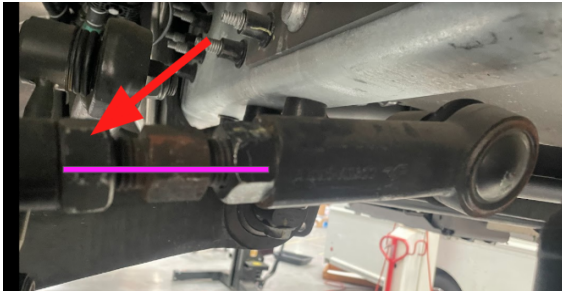
1. **Passenger Side START-** Loosen the Jam Nut of the inner tie rod.

NOTE!

These are LEFT Handed Threads

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Indexing Procedure Passenger's Side (continued)



2. **Passenger Side** - Ensure the Toe adjustment is set and the outer tie rod Jam nut is torqued tight - 150 Nm.

NOTE!

Add Torque Stripe after Tightening

NOTE!

These are Right Handed Threads



3. **Passenger Side** - rotate the outer tie rod to the end of its range of motion in this direction

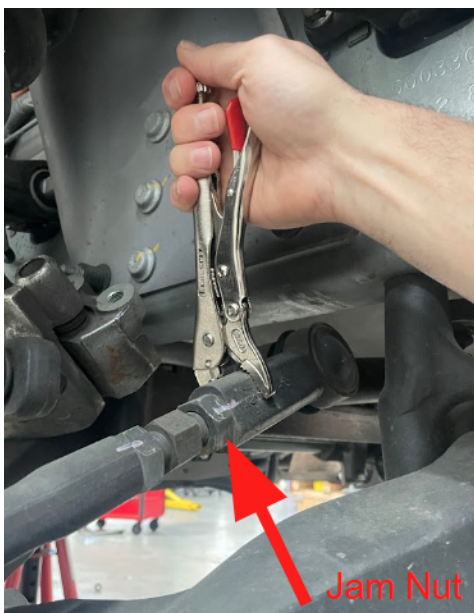


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Indexing Procedure Passenger's Side (continued)



4. **Passenger Side** - rotate the inner tie rod to the end of its range of motion in this same direction.



5. **Passenger Side** - Add blue loctite 243 and torque the Inner tie rod jam nut to **150 Nm** while holding the Ball joint in position.

NOTE!

Add Torque Stripe after Tightening

NOTE!

These are LEFT Handed Threads

Repeat Tie Rod Ball Joint Indexing inspection as illustrated in the beginning of this instruction sheet.

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Version	Change descriptions	Author
1.0	Initial release	Apollo Del Razo
1.1	Added change log	David TenHouten
1.2	refined parts tables info	David TenHouten
1.3	Added labor codes	David TenHouten
1.5	Small edits - format	David TenHouten

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