



MERITOR

Technical Bulletin

ConMet PreSet Plus™ Hub Lock Ring Inspection and Repair Procedures

Inspection Program C14AA

Hazard Alert Messages

Read and observe all Warning and Caution hazard alert messages in this publication. They provide information that can help prevent serious personal injury, damage to components, or both.

WARNING

To prevent serious eye injury, always wear safe eye protection when you perform vehicle maintenance or service.

Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving. Support the vehicle with safety stands. Do not work under a vehicle supported only by jacks. Jacks can slip and fall over. Serious personal injury and damage to components can result.

Use a brass or synthetic mallet for assembly and disassembly procedures. Do not hit steel parts with a steel hammer. Pieces of a part can break off. Serious personal injury and damage to components can result.

How to Obtain Additional Maintenance, Service and Product Information

The hardware involved in this procedure is manufactured by a third party. Refer to the OEM's published repair guidelines for complete instructions.

Overview

This publication provides the procedure required to check for the presence of the ConMet PreSet Plus™ hub lock ring at each drive axle wheel-end assembly. This inspection only applies to specific axles in a very limited number of vehicles. There is no need to perform this inspection unless specifically contacted by the OEM or Meritor. Figure 1.

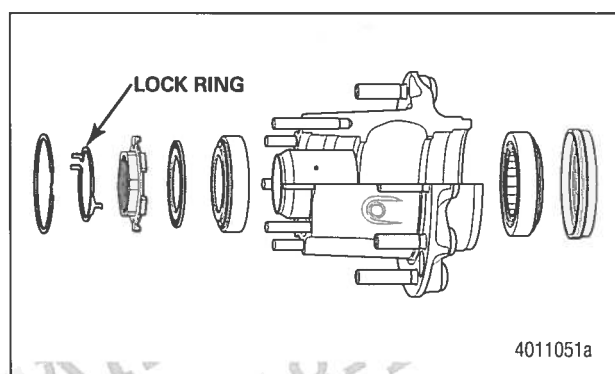


Figure 1

Required Parts

Parts may be obtained through your regular OEM parts ordering system.

Inspection Parts

- Four axle shaft gaskets, Meritor part number 2208E1123 (or similar as needed)

Repair Parts — Lock ring missing only, spindle nut torque is correct

There are various axle models included in this process. Use the OEM's standard repair part identification system to identify the correct part numbers for the model being worked on.

- Four axle shaft gaskets, Meritor part number 2208E1123 (or similar as needed)
- Up to four lock rings, ConMet part number 10026147

Repair Parts — One or more missing lock rings in combination with a loose spindle nut

- Four axle shaft gaskets, Meritor part number 2208E1123 (or similar as needed)
- Up to four lock rings, ConMet part number 10026147
- Up to four hub assemblies, ConMet part number CM10036776

ConMet and PreSet Plus™ Hubs are registered trademarks of Consolidated Metco.

Inspection

1. Wear safe eye protection. Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving.
2. Remove the axle shaft fasteners from all drive axle wheel ends.
3. Remove the axle shaft from each drive axle wheel end. Some lubricant will drain from the hub upon axle shaft removal. Use a small drain bucket to catch the lubricant.
4. Check for the presence of the lock ring on all drive wheel axle wheel ends. The lock ring is a bright red color. Refer to Figure 2 for the location of the lock ring.
 - **If the lock ring was present on all drive axle wheel ends:** Continue to the Reassembly procedure.
 - **If one or more lock rings were missing from the drive axle wheel ends:** Continue to the Missing Lock Ring Procedure.

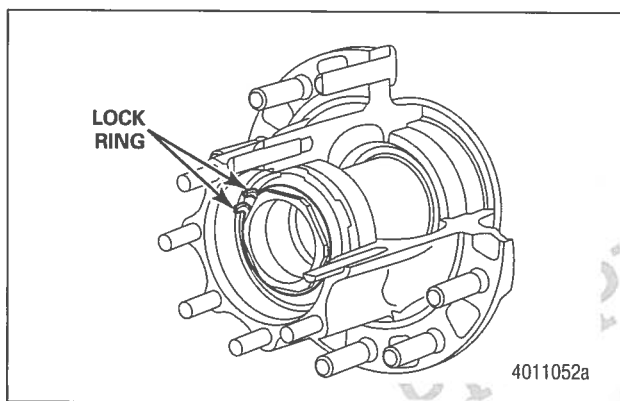


Figure 2

Reassembly

1. Ensure the hub and axle shaft mating surfaces are clean and dry.
2. Place a new hub cap gasket on the hub studs.
3. Slide the axle shaft into each wheel end. Some manipulation and rotation may be necessary in order to align the splines for complete seating.
4. Place the tapered dowels onto the hub studs, if used.

5. Place a washer on each hub stud and hand thread the nuts well onto each stud.
6. Tighten the axle shaft nuts to the OEM recommended specification.
7. Check and top off the axle oil level.

Missing Lock Ring Procedure

Perform this procedure on any wheel end that is found to be missing the lock ring.

1. Check that the spindle nut torque is 500 lb-ft (677 N•m) on each wheel end missing a lock ring.
 - **If the spindle nut torque is correct:** Install a lock ring in the correct orientation per the OEM's or ConMet's assembly guidelines.
 - **If the spindle nut torque is not correct:** Replace the ConMet PreSet Plus™ hub assembly on the wheel end.
2. Continue to the Reassembly procedure in this publication.



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