



## Technical Bulletin

# Replacing Steering Stop Bolts on Certain MX-120 EVO Series Front Drive Steer Axles

## 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 or fall over. Serious personal injury and damage to components can result.

## How to Obtain Additional Maintenance, Service and Product Information

Refer to Maintenance Manual MM-0170, Medium-Duty Front Drive Steer Axles, for repair procedures. To obtain this publication, visit Literature on Demand at meritor.com. Additional information can also be obtained by contacting the Meritor OnTrac™ Customer Call Center at 866-668-7221 (United States and Canada) or email: OnTrac@meritor.com.

## Replacing Steering Stop Bolts

This technical bulletin provides procedures for replacing the steering stop bolts on certain MX-120 EVO front drive steer axles.

## Replacement Parts

Meritor will provide replacement parts for the suspect axles.

**Table A: KIT-2953 — Steering Stop Bolt Kit**

Description	Meritor Part Number	Quantity per Axle
Steering Stop Bolt	26X1053	2
Jam Nut	N 39 1	2
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## Labor Time Allowances

Steering stop bolts, both sides — 0.8 hour

## Contact the Meritor OnTrac™ Customer Call Center Prior to Performing Procedures

You must contact the Meritor OnTrac™ Customer Call Center to obtain authorization before you perform this bolt replacement procedure. Call the Meritor OnTrac™ Customer Call Center at 866-668-7221 (US and Canada) between 8:00 AM and 8:00 PM ET Monday through Friday, and between 9:00 AM and 6:00 PM ET on Saturday. After selecting "preferred language," select option 1 for axles and braking systems and refer to program number: **R16AR**.

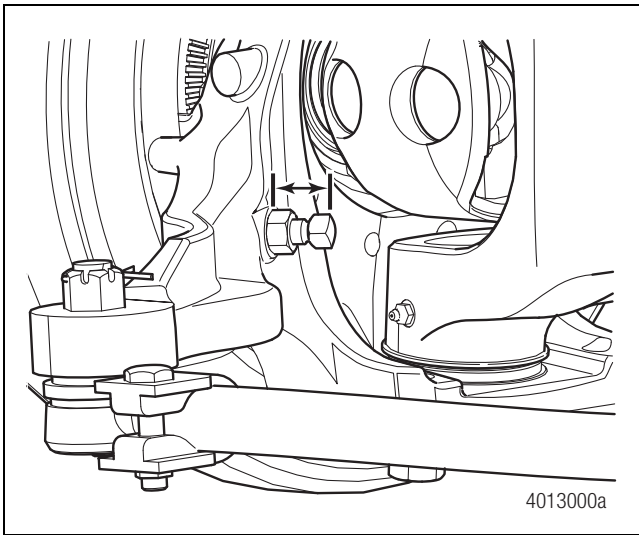
The Meritor OnTrac™ Customer Call Center requires the following information to assign the repair facility or end user a case number.

- Reference to Meritor's program number **R16AR**
- Complete 17-digit vehicle identification number (VIN)
- Vehicle owner's name, address and telephone number
- Axle model and serial number
- Vehicle in-service date
- Vehicle mileage
- Repair facility's name, address and telephone number
- Repair facility's hourly rate

## Replacement Procedure

1. Wear safe eye protection. Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving.
2. Inspect the stop bolt. Measure and record the length of the bolt as it protrudes from the knuckle.

**NOTE:** Steering stop bolts are not intended to set steer angle. Steer angle is controlled by the OEM, typically through the steering poppet gears within the steering gear box.




3. Back off the stop bolt jam nut and remove the bolt and nut. Discard the stop bolt and jam nut.
4. Thread the new jam nut onto the new stop bolt. Install the nut all the way to the top of the stop bolt.

**⚠ CAUTION**

**Do not exceed the maximum turn angle specified by the vehicle manufacturer. Damage to the cross tube and tie rod ends may result.**

**The steering stop bolt on the back of the knuckle prevents the maximum turn angle from being exceeded. If the steering stop bolt is missing, bent or broken, the system requires adjustment.**

5. Install the new stop bolt into the knuckle and tighten it until the measured length is achieved.
  - **If the old stop bolt was damaged or the stop bolt length could not be determined:** Consult the OEM for the correct stop bolt specification.
6. Hold the stop bolt while tightening the jam nut. Tighten the jam nut to 75-100 lb-ft (101-135 N•m). 



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