



SR19-04A

SAFETY RECALL

DATE : June 2019 SECTION : 14 STEERING
SUBJECT: DRAG LINK REPLACEMENT

Revision: A

Added inspection step, instructions for reimbursement 2019-06-07

APPLICATION

NOTICE TO SERVICE CENTERS Verify vehicle eligibility by checking warranty bulletin status with SAP or via ONLINE WARRANTY SYSTEM available on Service / Warranty tab of Prevost website. REVOST CAR INC VIN Model 12 Le Mirage XLII coaches Vehicles equipped with I-beam Axles Model Year: 2000 - 2006 From 2PCX3349XY1027089 up to 2PCX3349361028856 incl. X3-45 coaches Vehicles equipped with I-beam Axles Model Year: 2007 - 2014 From 2PCG3349871028904 up to 2PCG33495EC735525 incl. This Safety Recall does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery. The owners of the vehicles affected by this recall will be advised by a letter indicating the Vehicle Identification Number (VIN) of each vehicle concerned.

DESCRIPTION

On the vehicles involved equipped with I-beam axles, cracks can occur and propagate in the steering draglink turnbuckle under certain conditions. If the cracks start to propagate, over time it may extend inward to a point where the turnbuckle may fracture.

If the turnbuckle fractures, a complete loss of steering would occur that can increase the risk of a vehicle crash or other risks associated with a disabled vehicle.

Inspect the draglink and if required, replace the complete draglink by an improved part.

Please note that vehicles equipped with independent front suspension (*IFS*) are excluded from this recall

MATERIAL

Part No.DescriptionQty660699DRAG LINK ASSEMBLY1502104COTTER PIN 5/32X22

Order kit SR19-04 which includes the following parts:

Other parts that may be required:

Part No.	Description	Qty
660018	COLLAR ASSY W/ BOLT & NUT	1

NOTE

Material can be obtained through regular channels.

PROCEDURE



DANGER

Park vehicle safely, apply parking brake, stop engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. On Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

INSPECTION PRIOR TO PERFORMING RECALL

- 1. This recall involves a former draglink design with a turnbuckle near the pitman arm.(Figure 1)
- 2. Open the front service compartment and pull on the front bumper release. The pitman arm and steering draglink can be found on the driver's side.
- 3. The recalled draglink is identifiable by the presence of a *turnbuckle* and *two clamps* in the section nearest to the pitman arm. (Figure 1)
- 4. If it is confirmed your vehicle has the recalled draglink (Figure 1), you may proceed to the replacement.
- 5. If your vehicle does not have the recalled draglink design, please read further for additional instructions.

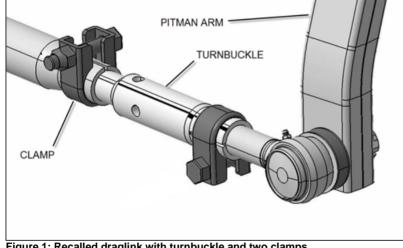


Figure 1: Recalled draglink with turnbuckle and two clamps.

Additional instructions for vehicles without the recalled draglink installed:

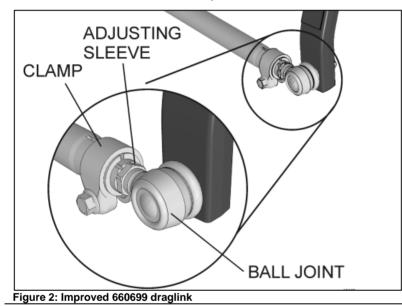
Some vehicles may already have installed the improved design draglink 660699 by having performed **IS-13009** (kit number 161458).

The improvement can be confirmed by the presence of an *adjusting sleeve* and *a single clamp* in the section nearest to the pitman arm. (Figure 2)

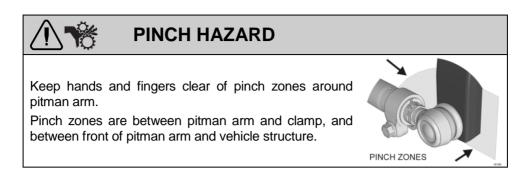
If the vehicle already has this draglink, this is the improved part being installed in the recall. You do not have to perform the replacement.

However, if you have paid for this exact replacement in the past and have received a recall notification letter from Prevost, you may be eligible for a reimbursement. Please submit an online warranty claim using SR19-04 and supply the following additional information:

- Date of replacement
- Prevost Parts purchase order number
- or
- Prevost Service center repair order number.



SAFETY PRECAUTIONS



REMOVAL OF EXISTING DRAG LINK

- 1. Raise the vehicle by the wheels using mobile column lifts. Doing so will prevent a change in direction of the knuckles and preserve the relative positions of the steering components involved in this procedure.
- 2. Remove cotter pin and nut from drag link ball joint stud at pitman arm.
- 3. Disconnect drag link from pitman arm, using jaw style pullers (pressure screw type).

CAUTION Heating of components to aid in disassembly is not allowed because it has a detrimental effect on axle components and steering linkages.

- 4. Remove cotter pin and nut from drag link ball joint stud at the steering arm (near knuckle) and then disconnect the drag link.
- 5. Keep the original drag link for length reference.

ADJUSTING THE DRAG LINK TO PROPER LENGTH - ELBOW BALL JOINT (KNUCKLE SIDE)

6. Check if the pre-adjusted length of the drag link is correct. To do so, try to install it between the steering arm and the pitman arm. If the length is not adequate, it must be adjusted to the required length. Use dimension "A" to adjust the length of the replacement drag link or you may use the replaced drag link for length reference.

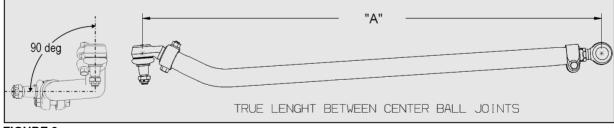


FIGURE 3

Length A = $52^{\circ} 3/8^{\circ} \pm 1/16^{\circ} (1330 \text{mm} \pm 2 \text{mm})$

7. Screw the drag link <u>elbow ball joint</u> (knuckle side) <u>fully</u> in drag link tube.

8. Unscrew the drag link *elbow* ball joint by no more than 1 turn so the tapered shank *points down* as shown on.

This will be the *initial reference position* for next step.

(FIGURE 5)



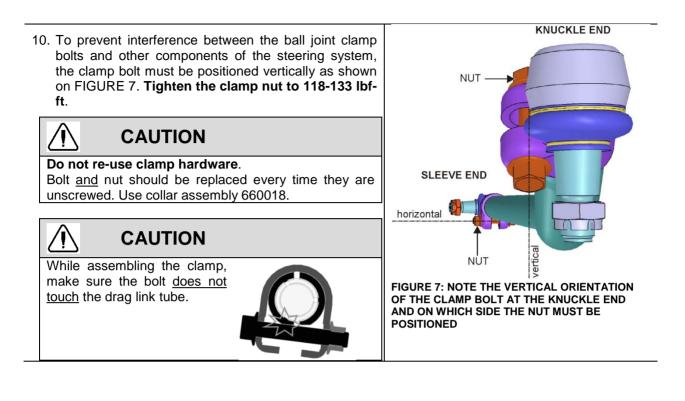
FIGURE 4

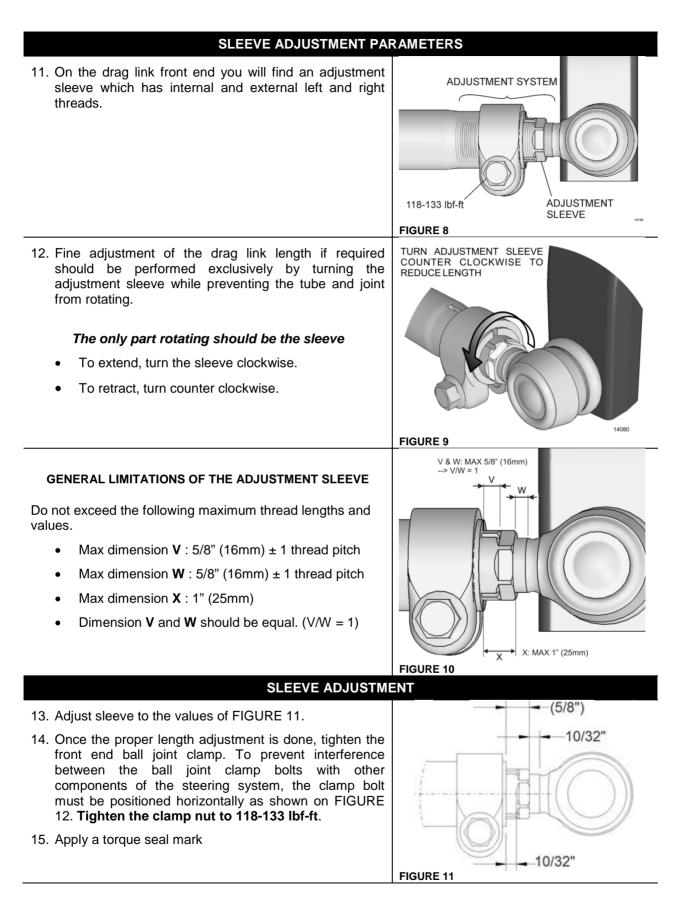
FIGURE 5

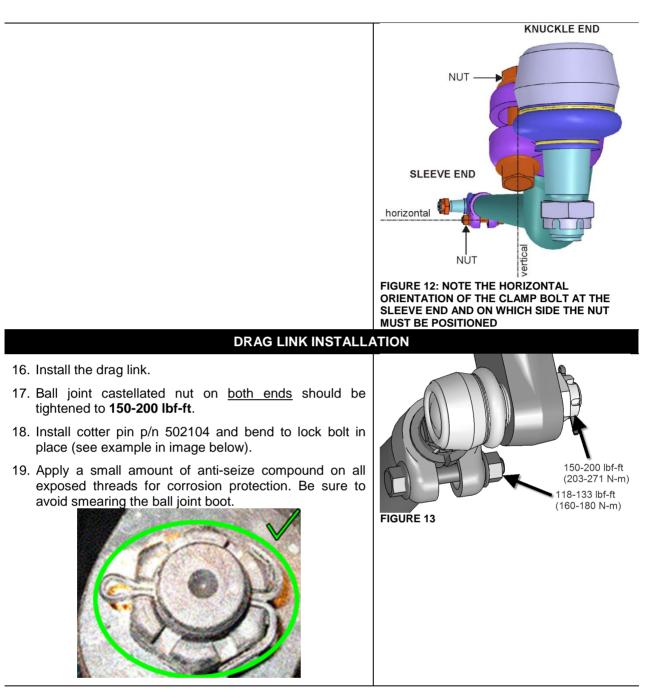
9. From the *initial reference position*, unscrew the drag link elbow ball joint back out **one (1) full turn**.

The tapered shank must point down as shown on.(FIGURE 6)









- 20. Make sure there is no binding or interference of the draglink with the vehicle structure by turning wheels fully in each direction. Min gap: 1/4" (6mm)
- 21. Inspect the gap between tire and draglink, turning wheels right. Min gap 3/8" (9.5mm).

PARTS DISPOSITION

DO NOT RETURN THE REPLACED PARTS. Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

WARRANTY

This modification is covered by Prevost's normal warranty. We will reimburse fifteen minutes (15 min) for *inspection only* or we will reimburse you the parts and two and a half hours (2.5h) of labor for *inspection and replacement* upon receipt of a completed A.F.A.

If you already have performed this improvement on your vehicle, you may be entitled to recovery of those expenses. Refer to "Inspection Prior to Performing Recall" and "Additional Instructions" on pages 3 and 4. Provide the requested additional information. We will reimburse fifteen minutes (15 min) for the inspection under this recall.

Please submit claim via our Online Warranty System, available at <u>www.prevostcar.com</u> (under service \ warranty section). Use Claim Type: "Bulletin/Recall" and select "Safety Recall SR19-04 ".

Should you only wish to close the safety recall (without reimbursement), fill-in the "Safety Recall Certification Sheet" provided with this bulletin and return it to our warranty department by Email at prevost.onlinewarranty@volvo.com or by fax at 418-831-9301.

OTHER

VBC Bulletin	N/A	A
Fail Code	14.04	C
Defect Code	09	E
Syst.Cond	R	"
Causal Part	160932	

Access all our Service Bulletins on <u>http://techpub.prevostcar.com/en/</u> or scan the QR-Code with your smart phone. E-mail us at <u>technicalpublications_prev@volvo.com</u> and type 'ADD" in the subject to receive our warranty bulletins by e-mail.







Safety Recall Certification Sheet (Ref: SR19-04)

VEHICLE SERIAL NUMBER:

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PERFORMED BY	OWNER/OPERATOR
We hereby certify that Safety Recall Instructions with regard to Safety Recall SR19-04 have been performed.	
Name:	Name:
Addr:	Addr:
Phone:	Phone:
Fax:	Fax:
Signature :	Signature :
Date:	Date:

If the information mentioned above is incorrect or you are not the owner of this vehicle anymore, please fill this section and return to sender.

NEW OWNER:

BUSINESS:

ADDRESS (including County):

TELEPHONE:

FAX:

Please return this completed document with your A.F.A. form