



PREVOST

ENREGISTRÉ - REGISTERED
ISO 9001 & ISO 14001

**SAFETY
RECALL**

Sr06-07A




| | |
|--|---------------------|
| DATE : NOVEMBER 2006 | SECTION : 14 |
| SUBJECT : REPLACING BELL CRANK AND IDLER ARM MOUNTING SPINDLE | |

REVISION : A

ADDITION OF TWO PARTS AND PROCEDURE UPDATE

APPLICATION

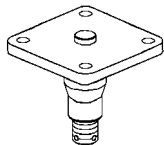
| Model | VIN |  |
|---|--|--|
| H3-45 VIP equipped with ISS Model Year : 2004 - 2005 | From 2PCV3349641014793 up to 2PCV3349851010116 incl. | |
| XLII Vehicles equipped with ISS Model Year : 2004 - 2005 | From 2PCY3349741028215 up to 2PCY3349951028539 incl. | |
| <p>This Safety Recall does not necessarily 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.</p> | | |

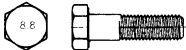



DESCRIPTION

On the above-mentioned vehicles, material that does not meet Prevost Car requirements may have been installed on the independent front suspension. Overheating of the bell crank and idler arm mounting spindles during the forging process has significantly weakened the material, therefore, requiring replacement. In certain heavy loading conditions these defective parts could break, resulting in a loss of steering control which could result in a crash.

For more information on this recall or technical assistance on how to perform this safety recall, please contact your service manager or the nearest service center.

MATERIAL

| Part No. | Description | Identification | Qty |
|----------|---|---|-----|
| 160983 | Spindle, Mounting, Bell Crank and Idler Arm |  | 2 |

| | | | |
|---------|---------------------------------------|---|---|
| 5001476 | Bolt, Hex Head ZP M14X45 G8.8 |  | 8 |
| 507351 | Boot, Dust |  | 2 |
| 507350 | Retainer, Grease |  | 2 |
| 977939 | Nut, Hex Flange Nylon Insert CP M14-2 |  | 8 |

NOTE

Material can be obtained through regular channels.

PROCEDURE



DANGER

Raise vehicle or park vehicle over a repair pit, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle. Prior to working under an air-suspended vehicle, it is strongly recommended to securely support the body at the recommended jacking points.

Bell Crank and Idler Arm Removal

1. Remove cotter pin from bell crank ends and from tie rod end (Refer to figures 1 and 2).
2. Remove cotter pin from idler arm ends and from tie rod end (Refer to figures 1 and 2).

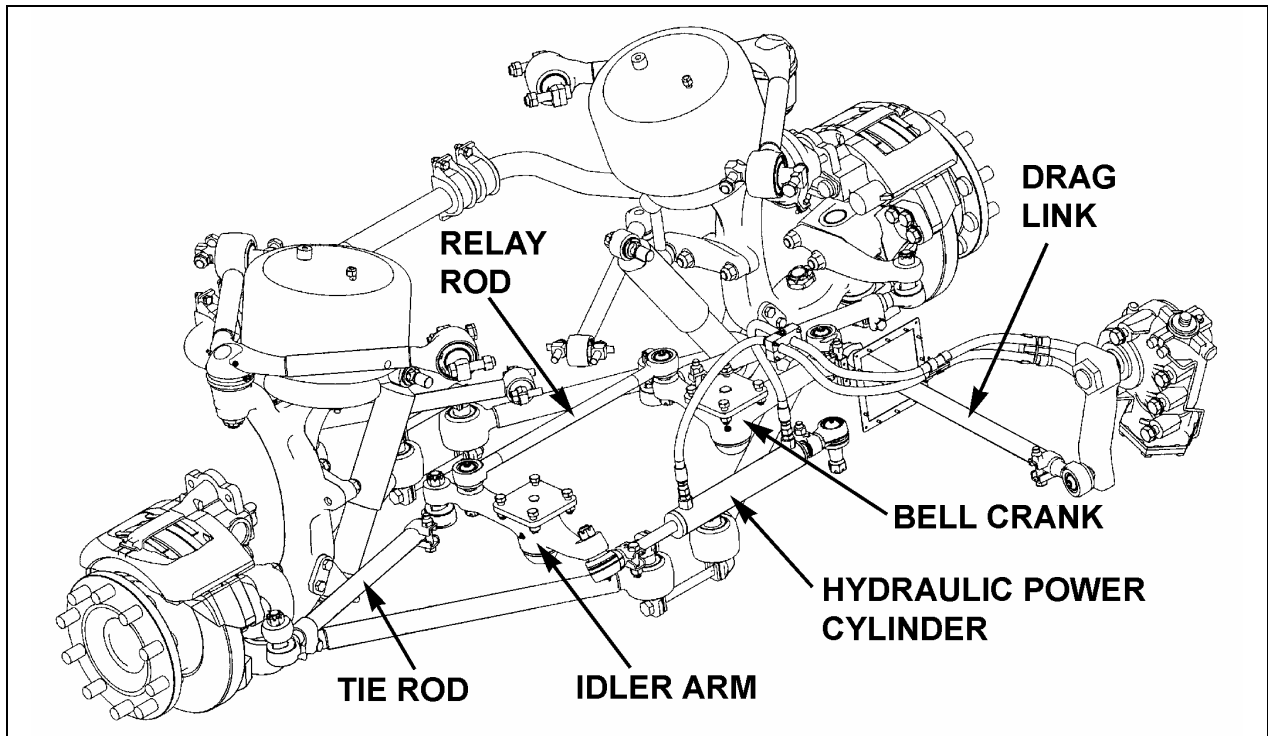


FIGURE 1: IFS

3. Unscrew fixing nut from drag link end, from relay rod end and from tie rod end. Separate socket assemblies from bell crank.

NOTE

Use a piece of wire to anchor loosen end of relay rod and tie rod in order to prevent placing an excessive load on opposite socket end.

4. Unscrew fixing nut from hydraulic power cylinder end, from relay rod end and from tie rod end. Separate socket assemblies from idler arm.
5. Remove relay rod and set aside.

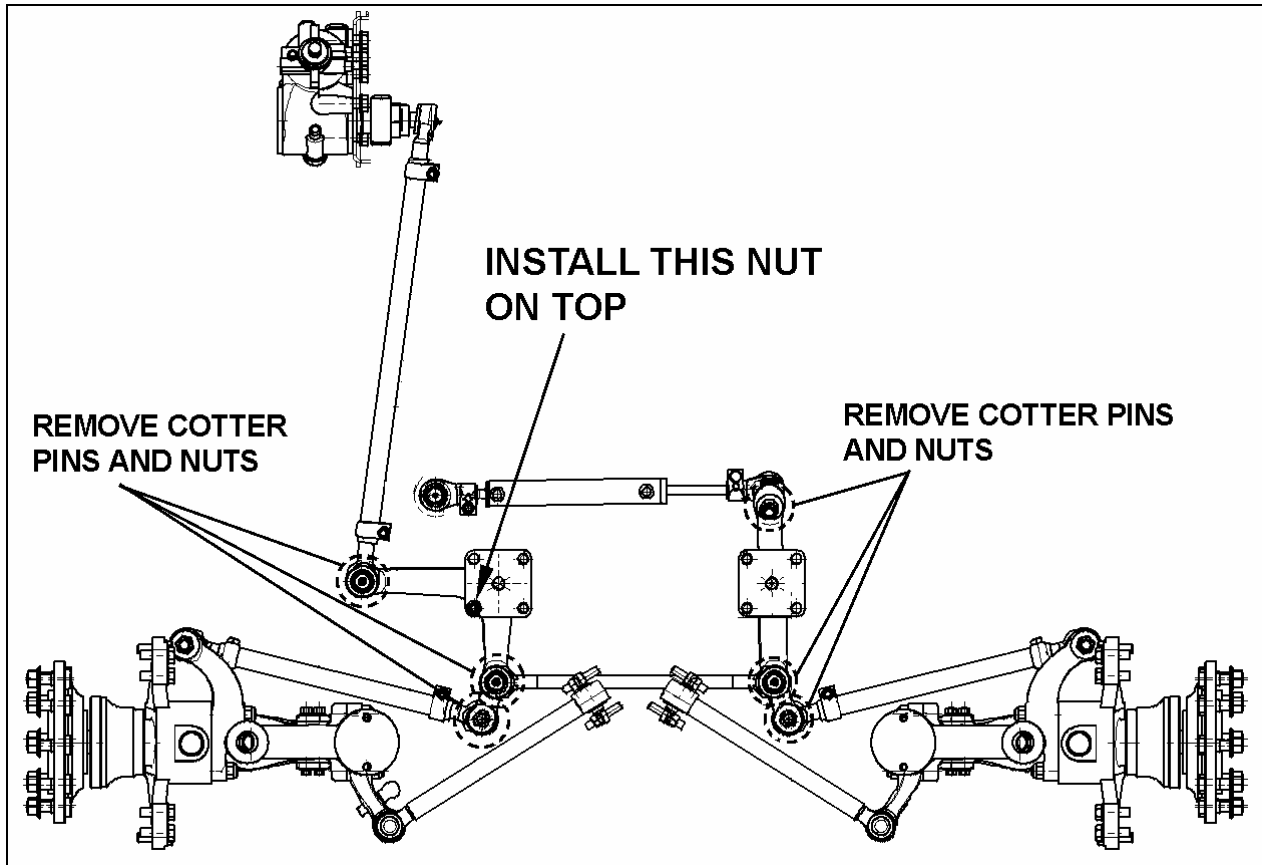


FIGURE 2: LOCATION OF COTTER PINS AND NUTS

6. Move tie rods and drag link out of the way.
7. Remove bell crank and idler arm cap.
8. Remove cotter pin then unscrew bell crank and idler arm fixing nut.



CAUTION

Be careful when removing fixing nut, bearing assembly may fall.

9. Remove bell crank and idler arm from their respective mounting spindle.
10. Unscrew four nuts fixing bell crank mounting spindle to suspension subframe.
11. Unscrew four nuts fixing idler arm mounting spindle to suspension subframe.
12. Remove bell crank and idler arm mounting spindles from suspension subframe.
13. Separate backup ring from former bell crank and idler arm mounting spindles.

NOTE

Heating up the backup ring using a blow torch may be necessary to separate from mounting spindle.

14. Clean up backup rings.
15. Remove old grease and clean up the inside of bell crank and idler arm.

Bell Crank and Idler Arm Installation

1. Install backup ring onto new bell crank and idler arm mounting spindles (160983).
2. Remove rust if necessary and using alcohol, clean up the bearing surface between bell crank mounting spindle and suspension subframe and also between idler arm mounting spindle and suspension subframe.
3. Install the bell crank and idler arm mounting spindles onto the vehicle suspension subframe and secure using new bolts (5001476) and new nuts (977939). Torque to 90-105 Lbs-ft dry (122-142 Nm).

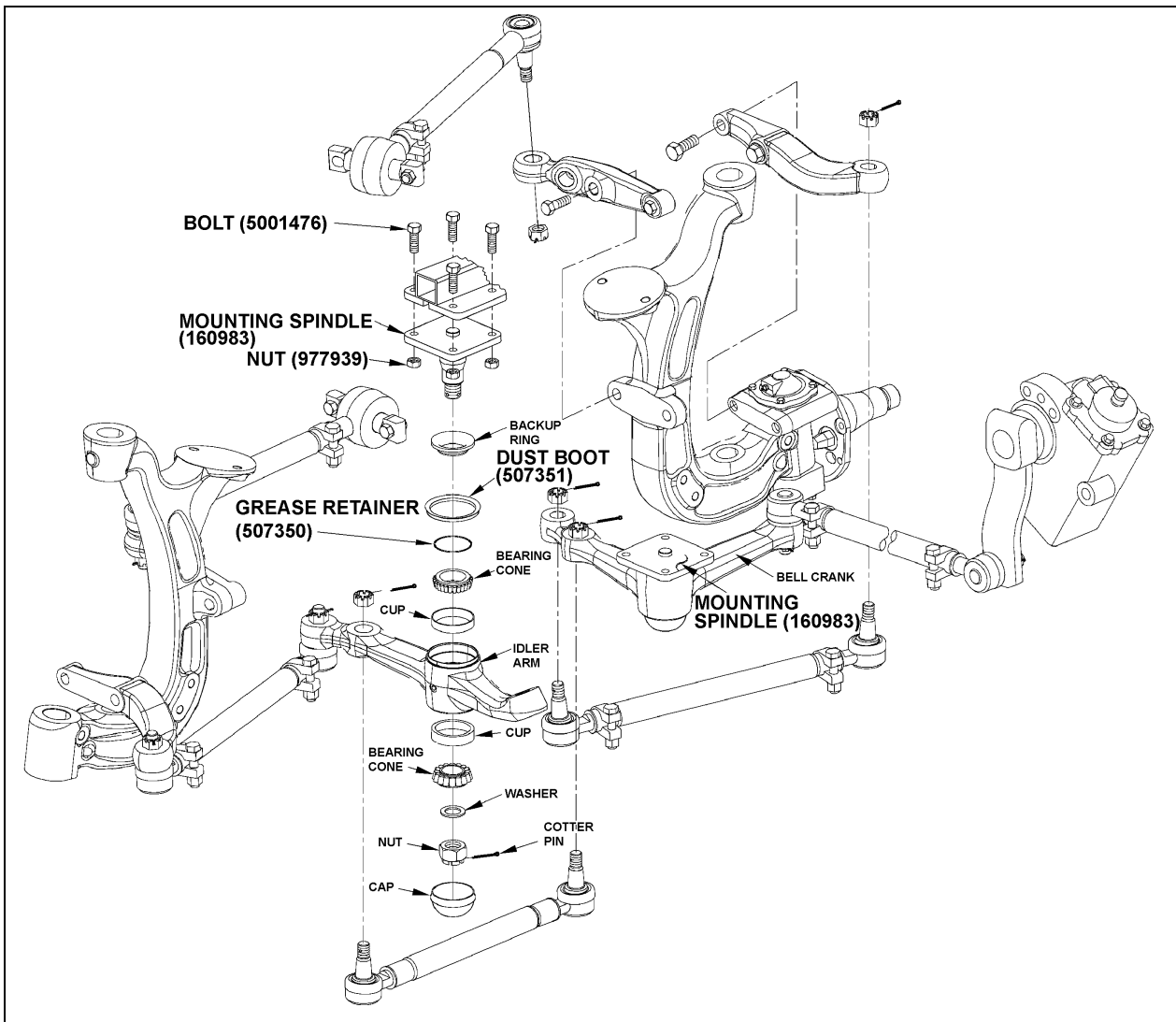


FIGURE 3: BELL CRANK AND IDLER ARM STEERING RODS ARRANGEMENT

NOTE

Install the bell crank rear left hand side nut on top as indicated in figure 2.

4. Apply a film of grease onto the backup rings and install onto the bell crank and idler arm mounting spindles.
5. Install new dust boot (507351) and new grease retainer (507350) onto bell crank and idler arm.
6. Install bell crank onto its mounting spindle, while holding the bell crank, slide on the bearing assembly, thrust washer and secure using nut.
7. Install idler arm onto its mounting spindle, while holding the bell crank, slide on the bearing assembly, thrust washer and secure using nut.
8. Firmly tighten nut (Fig. 4).

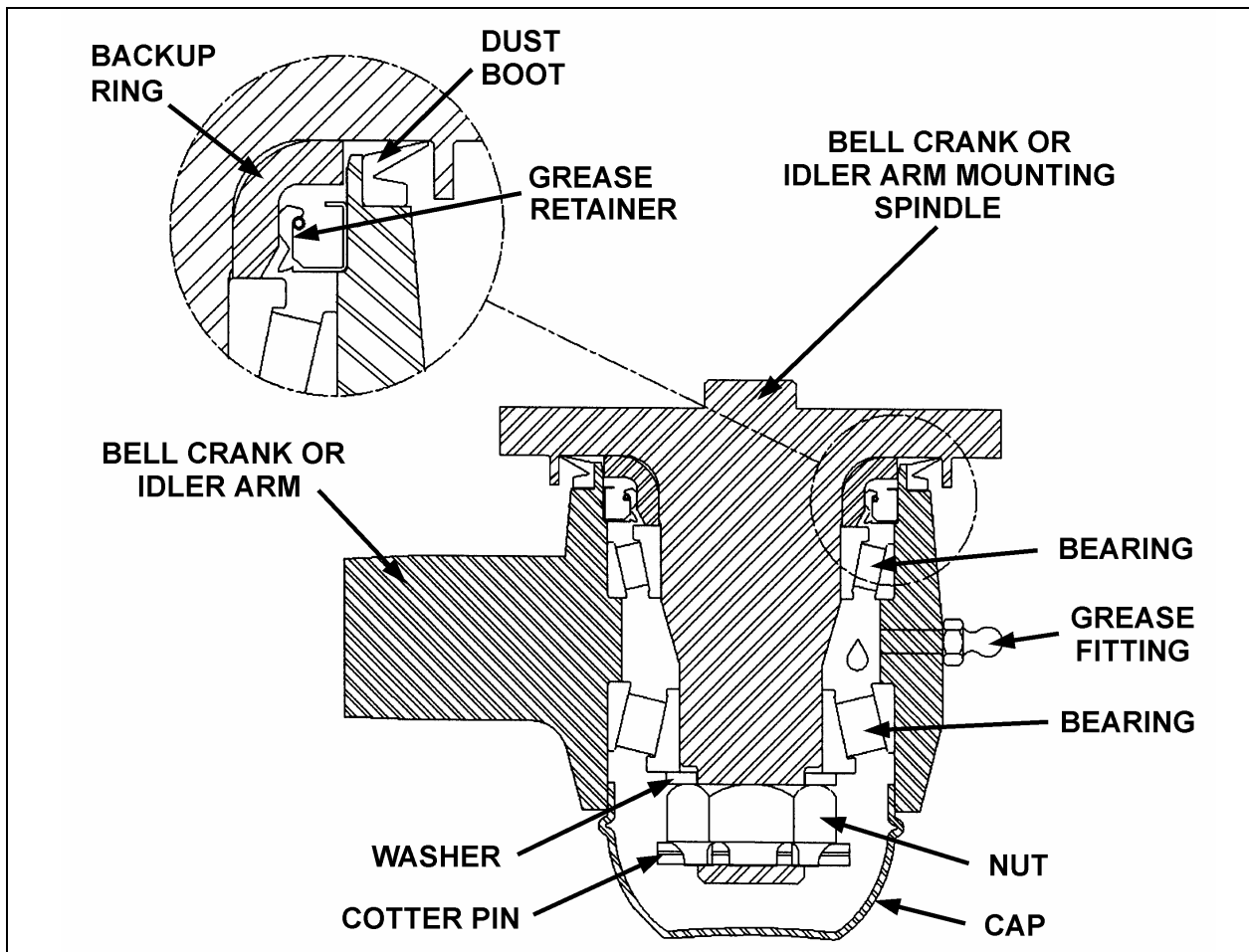


FIGURE 4: BELL CRANK OR IDLER ARM MOUNTING SPINDLE INSTALLATION

9. Unscrew nut until bell crank or idler arm starts to turn by the application of 1 to 3 pounds load (Fig. 5).
10. Check for loose bearings by applying an up and down load on bell crank or idler lever. **The lever is not supposed to move in the vertical axis direction.**
11. Align nut with cotter pin slot (tighten) and install a new cotter pin.

NOTE

Bend cotter pin around the nut (Fig. 4). Do not bend the cotter pin in the direction of the cap, because it may interfere with the cap.

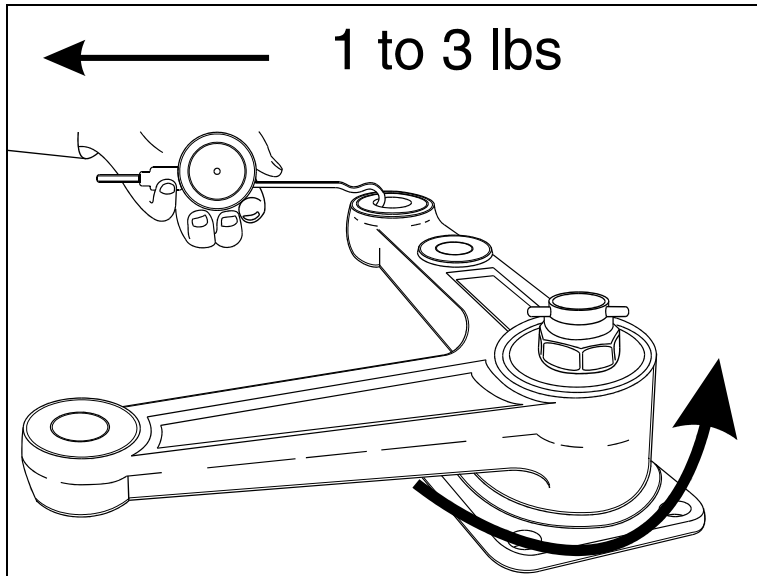


FIGURE 5: APPLICATION OF 1 TO 3 POUNDS LOAD

16045

12. Install cap onto bell crank and idler arm.
13. Reconnect relay rod ends, tie rod ends and drag link end to bell crank and idler arm.
14. Torque nuts to 150-200 Lbs-ft dry (203-271 Nm).
15. Align nuts with cotter pin slots (tighten) and install new cotter pins.
16. Lubricate bell crank and idler arm through grease fitting.

WARRANTY

This modification is covered by Prevost Car's normal warranty. We will reimburse you the parts and four hours (4.0) of labor upon receipt of the PARTS and a completed A.F.A. form on which you must specify as per "Safety Recall 06-07". **You also have to fill the "Safety Recall Certification Sheet" provided with this bulletin and return it with your A.F.A. form to be reimbursed.**

Parts disposition:

- Return to Prévost Car with A.F.A. for full reimbursement.



PREVOST

**Safety Recall
Certification Sheet
(Ref: Sr06-07A)**

ENREGISTRÉ - REGISTERED
ISO 9001 & ISO 14001



SERIAL NUMBER: _____

| PERFORMED BY | | OWNER/OPERATOR | |
|---|-------|----------------|-------|
| We hereby certify that Safety Recall Instructions with regard to Safety Recall #06-07A 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**