



PREVOST

ENREGISTRÉ - REGISTERED
ISO 9001 & ISO 14001

**SAFETY
RECALL**

Sr00-17



DATE : August 2000	SECTION : 23 - Accessories
SUBJECT : UPPER A-ARM BALL JOINT INSPECTION ON INDEPENDENT FRONT SUSPENSION	

APPLICATION

All vehicles with independent front suspension among the following :

Model	VIN		
XL-40, XL-45 & Entertainer Bus Shells Model Year : 1996 – 1998	From 2PCE33496T1025873 up to 2PCE3349XW1026545 incl.		
H3-45 VIP Bus Shells Model Year : 1997 & 1998	Vehicles 2PCV3349XV1022059 and 2PCV3349W1012369		
XL-40, XL-45 Coaches Model Year : 1998 – 2000	2PCL33400W1026384 2PCL33490X1026871 2PCL33408X1026988 2PCL33406W1026390 2PCL33491X1026877 2PCL33406X1026990 2PCL33401W1026393 2PCL33499X1026934 2PCL33403X1026994 2PCL33400W1026398 2PCL33492X1026936 2PCL33400X1026998 2PCL33407W1026401 2PCL33401X1026945 2PCL33407X1027002 2PCL33408W1026407 2PCL33402X1026954 2PCL33402X1027005 2PCL33499W1026494 2PCL33406X1026956 2PCL33408X1027008 2PCL33499W1026544 2PCL33403X1026963 2PCL3340XX1027012 2PCL33494W1026547 2PCL33407X1026965 2PCL33403X1027014 2PCL33491X1026666 2PCL33404X1026969 2PCL33499Y1027034 2PCL33498X1026729 2PCL33402X1026971 2PCL33494Y1027037 2PCL33491X1026846 2PCL3340XX1026975 2PCL33498Y1027039 2PCL33495X1026851 2PCL33407X1026979 2PCL33494Y1027040 2PCL3349XX1026859 2PCL33405X1026981 2PCL33496Y1027041 2PCL33495X1026865 2PCL33402X1026985 2PCL3349XY1027043		

DESCRIPTION

On the above mentioned vehicles, it is necessary to inspect the ball joint on the upper A-Arm. During normal use, on the high mileage vehicles (over 300 000 miles), it is possible that the ball joint sealing boot be perforated and grease leaks may occur. A joint with a perforated boot will have its life reduced and must be replaced. **You must make an appointment with the nearest Prevost service center in order to have your vehicle inspected.**

PART A : SEALING BOOT INSPECTION AND VERIFICATION OF A PLAY IN THE BALL JOINT

PROCEDURE

Warning : Park vehicle safely, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle.

PREPARATION

Note : Vehicle must be at normal ride height.

1. Jack the vehicle.

Caution : Safely support vehicle at the recommended body jacking points (VIP figure 1, XL figure 2). Place safety supports underneath body.

2. Remove front wheels.
3. Support the uprights • (figure 5) with a suitable jack stand at the upright jacking point (figure 5).
4. Locate the height control valve (figure 3) at center of front sway bar. Disconnect the connecting rod • and pull down the overtravel lever • to ensure all air is exhausted from front air springs.

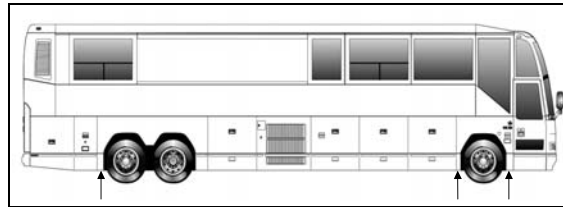


FIGURE 1 : BODY JACKING POINTS ON VIP SERIES

5. With the uprights safely supported, lower the vehicle until the air spring clearance is $11\frac{11}{16} \pm \frac{1}{4}$ " (297±6 mm). Measurement should be taken from under the upper air spring support to top of the lower air spring support (figure 4).

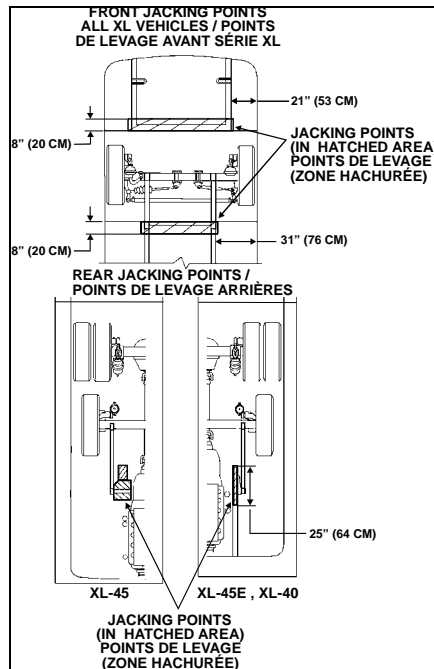


FIGURE 2 : XL SERIES BODY JACKING POINTS

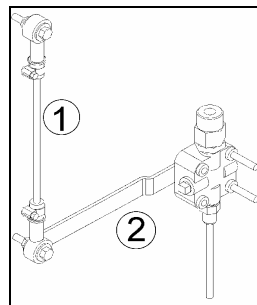


FIGURE 3 : HEIGHT CONTROL VALVE

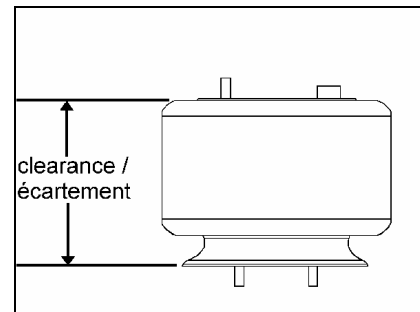


FIGURE 4 : CLEARANCE MEASUREMENT

SEALING BOOT INSPECTION

6. Check the boot • (figure 5) for perforations or grease leaks.
 - I. If sealing is perforated but there are no traces of grease contamination or rust, replace sealing boot only (Partie B).

- II. If sealing boot is perforated, there are traces of grease contamination or rust and the socket ● (figure 5) is not in good condition (see next step), the upper A-arm ● has to be replaced (Part C).

PLAY ON THE BALL JOINT

7. Locate the ball joint (figure 5).
8. Using a pry bar underneath the A-arm, apply an upward force as to separate the ball from the socket.
9. If there is a play between the ball and the socket, the upper A-arm ● has to be replaced (Part C). Take note that a play of $1/32$ to $1/16$ is normal and acceptable. If the play is normal and the sealing boot is in perfect condition, no replacement or repair is needed. See added supplement at the end of this bulletin.

WARRANTY

This inspection is covered by Prévost Car's normal warranty. We will reimburse you one and a half hour (1.5) of labor upon receipt of a completed A.F.A. form on which you must specify as per "Safety Recall 00-17 Part A". **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.**

PART B : SEALING BOOT REPLACEMENT

MATERIAL

Order the following parts :

Part No.	Description	Qty
611109	Sealing boot + clips	1
502115	Pin, cotter $3/16$ X 2 $1/2$ "	1

Note : Material can be obtained through regular channels.

PROCEDURE

Warning : Park vehicle safely, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle.

Note : Vehicle must be at normal ride height.

1. Jack the vehicle.

Caution : Safely support vehicle at the recommended body jacking points (VIP figure 1, XL figure 2). Place safety supports underneath body.

2. Remove front wheel.
3. Support the upright ● (figure 5) with a suitable jack stand at the upright jacking point (figure 5).
4. Locate the height control valve (figure 3) at center of front sway bar. Disconnect the connecting rod ● and pull down the overtravel lever ● to ensure all air is exhausted from front air springs.
5. With the upright safely supported, lower the vehicle until the air spring clearance is $11^{11}/16 \pm 1/4$ " (297±6 mm). Measurement should be taken from under the upper air spring support to top of the lower air spring support (figure 4).

6. Remove the cotter pin and partially unscrew the ball element retaining nut (figure 5). With the use of a hydraulic jack or a puller, extract the ball element from the conical sleeve • (figure 5). To facilitate extraction, change the position of the A-arm by changing the height of the vehicle.
7. Remove hose clip and clamping ring fixing the boot then take off sealing boot.
8. Fill sealing boot with 20 grams of Molykote Longterm 2/78 grease. Make sure that sealing boot is properly seated in the socket retaining groove and then fit hose clip and clamping ring.
9. Insert the ball element in the conical sleeve.
10. Apply anti-seize compound on threads and torque to 350-400 lb•ft (475-542 N•m). Insert the cotter pin.
11. Remove the jack stand supporting the upright.
12. Reconnect the connecting rod on the height control valve, reinstall the wheel and supply air to the air spring.
13. The installation is now completed.

WARRANTY

This modification is covered by Prévost Car's normal warranty. We will reimburse you the parts and three quarter of hour (0.75) of labor for each replaced boot upon receipt of the parts and a completed A.F.A. form on which you must specify as per "Safety Recall 00-17 Part B". **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.

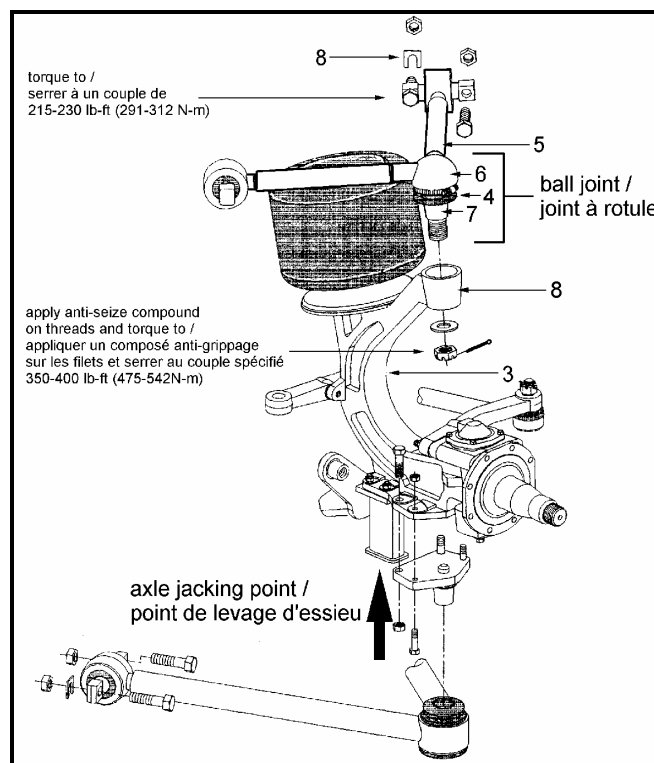


FIGURE 5 : INDEPENDENT FRONT SUSPENSION DETAIL

PART C : UPPER A-ARM REPLACEMENT

MATERIAL

Order the following parts :

Part No.	Description	Qty
611203	Upper A-Arm and ball joint assembly	1
502115	Pin, cotter $\frac{3}{16} \times 2 \frac{1}{2}$ "	1

Note : Material can be obtained through regular channels.

PROCEDURE

Warning : Park vehicle safely, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle.

Note : Vehicle must be at normal ride height.

1. Carry out steps 1 to 6 on part B of this bulletin.
2. Unscrew the A-Arm fixing nuts and remove the A-Arm.

Warning : Make sure that the upright is safely supported before removing the A-arm fixing nuts, or it may tilt and cause personal injuries.

3. Install the new A-Arm. Apply anti-seize compound to threads and tighten the 4 fixing nuts to a torque of 215-230 lbf•ft (291-312 N•m).
4. Insert the ball element in the conical sleeve. Apply anti-seize compound on threads and torque to 350-400 lbf•ft (475-542 N•m). Insert the cotter pin.
5. Remove the jack stand supporting the upright.
6. Reconnect the connecting rod on the height control valve, reinstall the wheel and supply air to the air spring.
7. The installation is now completed.

WARRANTY

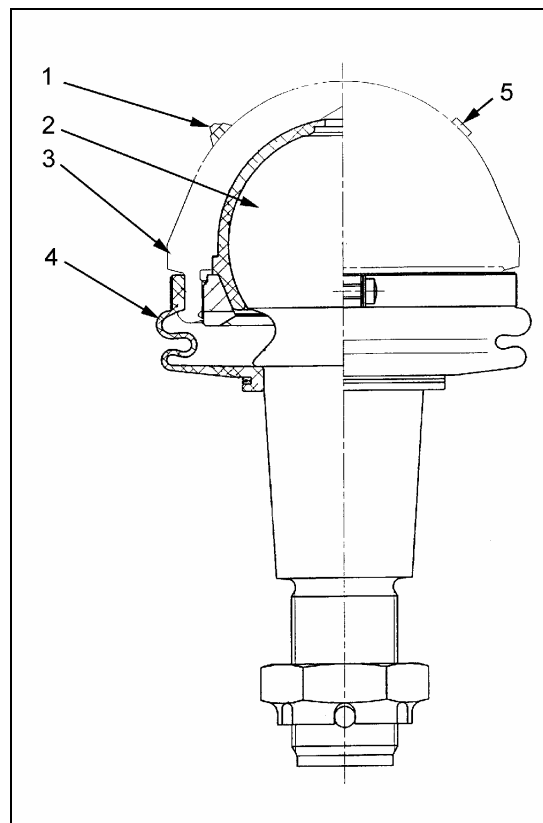
This modification is covered by Prévost Car's normal warranty. We will reimburse you the parts and one hour (1.0) of labor for each replaced A-Arm upon receipt of the parts and a completed A.F.A. form on which you must specify as per "Safety Recall 00-17 Part C". **You also have to fill the "Safety Recall 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.

ADD THIS SUPPLEMENT TO SECTION 16 OF YOUR MAINTENANCE MANUAL

UPPER A-ARM BALL JOINT MAINTENANCE		
DESCRIPTION	INTERVAL	REMARK
Make a visual inspection of the sealing boot ● , check for perforations and grease leaks	Every 10 000 km	Replace boot if perforated
Lubricate at fitting ● (if present) until fresh grease appears at the relief valve ●	Every 10 000 km	Molykote Longterm 2/78 grease (preferably) or lithium NLGL No.2 or No.1 (acceptable)
Check for a play between ball ● and socket ●	Every 30 000 km	Replace ball joint if there is a play



UPPER A-ARM BALL JOINT BALL JOINT



PREVOST

**Safety Recall
Certification Sheet
(Ref: Sr00-17)**

ENREGISTRÉ - REGISTERED
ISO 9001 & ISO 14001



SERIAL NUMBER: _____

PERFORMED BY		OWNER/OPERATOR	
We hereby certify that Safety Recall Instructions with regards to Safety Recall #00-17 have been performed.			
Name: _____		Name: _____	
Add: _____		Add: _____	
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 up this section and return to sender..

NEW OWNER: _____

BUSINESS: _____

ADDRESS: _____

TELEPHONE: _____ **FAX:** _____

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