



Reliability Driven™

# Service Bulletin No. 427

<i>MODEL</i>	D / J4500 Series	<i>TYPE</i>	Field Change Program	<i>SECTION/GROUP</i>	1/2-Axle	<i>DATE</i>	Dec. 31, 2015
<i>SUBJECT</i>	ZF LOWER SEAL CARRIER ON KING PIN MOUNT						
<i>CONDITIONS</i>							

## **Customer Complaint:**

ZF Friedrichshafen AG ("ZF") has notified Motor Coach Industries ("MCI") that as a result of ZF field inspections, the lower die-cast aluminum seal carrier of the front and trailing ( tag ) axle king pin mount has exhibited signs of premature wear.

Replacing the die-cast aluminum seal carrier with a steel carrier will improve the wear resistance of the installation.

## **Cause:**

Vendor installation.

## **Corrective Action:**

MCI strongly encourages owners of the D / J4500 coaches listed in the table to implement the steps in this procedure as soon as possible:

12920	13151	13293	13311	13357
66554	66748	66796 to 66798	66823 to 66824	66826
66841 to 66842	66844	66960	67000 to 67311	



## Service Inspection

ZF recommends that your affected coach(es) be inspected until the die-cast aluminum seal carriers have been replaced.

ZF strongly recommends that your company immediately conduct visual inspections for potential damage to the lower seal carrier. **Inspections should be conducted every 3 months / 12,000 miles** on each affected coach until the lower seal carriers have been replaced. Replacement seal carriers will be made available as promptly as possible.

## Parts

Qty.	Old P/N	New P/N	Description
4		4474 298 368	Seal Carrier Kit, Lower
a/r		23-01-0045	Grease
a/r		0501-213-690	Shear Adapter
a/r		0501-324-804	ABS Sensor Bush
a/r		0501-321-356	Cable Clip, Speed Sensor Harness

Service Procedure:



# WARNING

***Read this entire procedure before beginning work.***

***Use Safe Shop Practices At All Times.***



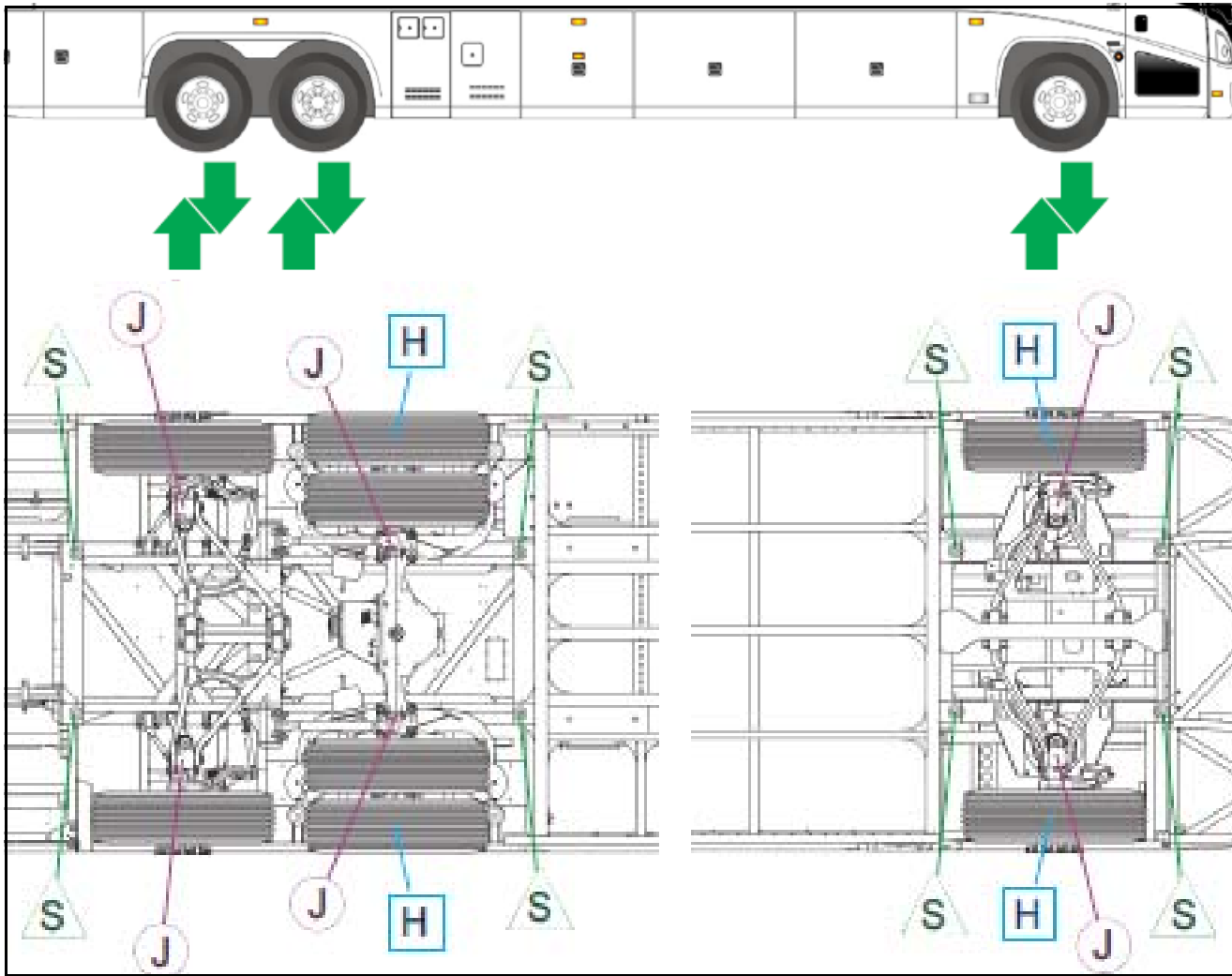
1. Turn the main battery disconnect switch to the OFF position.
2. Remove and retain the front and tag axle hub cover and lug nut covers from both sides of the front and tag axle wheels ( as applicable per coach series ). Carefully place aside to be re-installed at a later step in this procedure.
3. Position the lift to the coach as shown in Figures 1 and 2 on Pages 4 or 5 of this document.
4. Before the tire is completely off the ground, partially loosen the flanged wheel nuts.
5. Lift the coach to desired work height. Position safety stands underneath the coach in only the specified locations shown in Section 3F in the MCI J4500 Maintenance Manual and Sections 3F and 3G in the MCI D Series Maintenance Manual ( as shown in Figures 1 and 2 on Pages 4 or 5 of this document ).

## **WARNING**

To avoid personal injury, use caution when loosening the wheel nuts and when lifting the wheel off the hub as wheel and tire assemblies weigh more than 200 lbs.

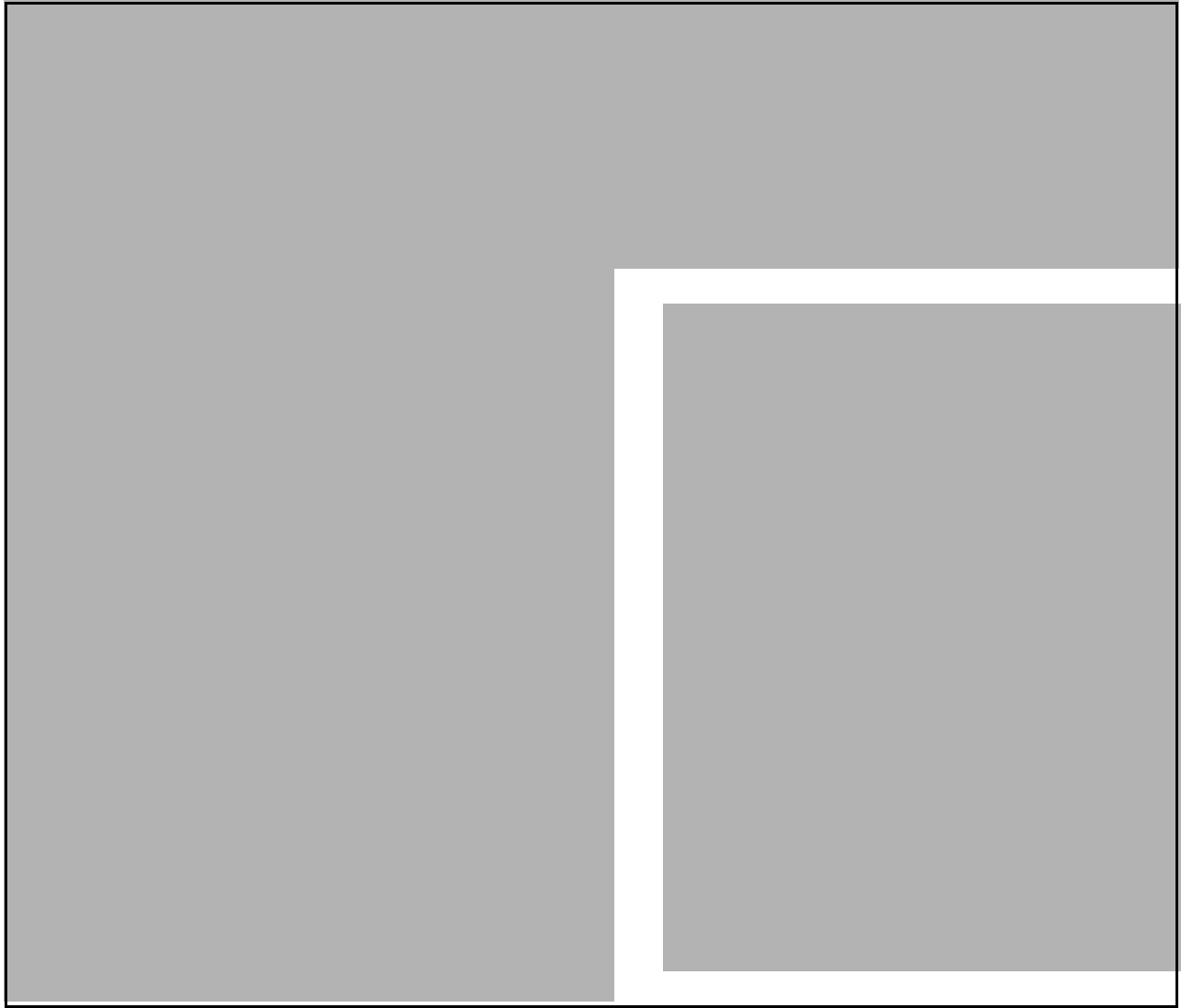
## **WARNING**

**DO NOT** place safety stands in any other location than shown in this procedure and Section 3F in the MCI J4500 Maintenance Manual and Sections 3F and 3G in the MCI D Series Maintenance Manual.



**Figure 1. J4500 coach hoisting and safety stands location.**

Item	Figure 1 Description
S	Safety Stand ( Primary locations )
J	Jacking Point
H	Hoisting Point



**Figure 2. D Series coach hoisting and safety stands location.**

Item	Figure 2 Description
S	Safety Stand ( Primary locations )
J	Jacking Point
H	Hoisting Point



6. Proceed with Step 1 of the attached ZF Replacement of Lower Seal Carrier on Kingpin Mounting Procedure, following all warnings and cautions therein.
7. Upon completion of the attached ZF ZF Replacement of Lower Seal Carrier on Kingpin Mounting Procedure, position the front and tag axle wheels to their original installation location beside the coach.

## NOTICE

***Ensure that the wheel is squarely mounted against the hub prior to fully tightening the wheel nuts.***

## WARNING

**To avoid personal injury, use caution when lifting the wheel on the hub as wheel and tire assemblies weigh more than 200 lbs.**

8. Re-install the front and tag axle wheels. Using a calibrated torque wrench, torque wheel nuts to 450-500 ft-lbs. using a criss-cross sequence.
9. Re-install the front and tag axle hub cover and lug nut covers ( as applicable per coach series ).
10. Perform a road test on the coach.
11. Using a calibrated torque wrench, re-torque wheel nuts to 450-500 ft-lbs. using a criss-cross sequence.

*Procedure Complete.*



Mail or fax the completed limited warranty claim form and verification form to MCI's warranty department, or photocopy and mail to:

MCI Fleet Support  
Attn: Warranty Department  
7001 Universal Coach Drive  
Louisville, KY 40258  
Fax Number 1-800-360-8886

to receive credit for the hours used to complete this task. Contact the MCI Fleet Support Technical Center at 1-800-241-2947 for any further information.

***Field Change Program Conditions:***

The parts required for this change will be supplied without charge.

Specialized equipment may be required to perform this campaign.

A labor allowance of 1.0 hour per side per axle, total of 4.0 hours per coach, will be granted for the procedure of replacing the front and tag axle lower die-cast aluminum seal carrier on affected D Series and J4500 Series coaches.

This labor allowance will be credited to your MCI Fleet Support Parts Account on receipt of the attached "MCI Field Change Program Verification Form" and a "Warranty Claim Form" as detailed in your Owner Warranty manual to MCI's Warranty department. A "MCI Field Change Program Verification Form" needs to be submitted for each VIN affected. Photocopy the attached "MCI Field Change Program Verification Form" as required for the number of affected coaches in your fleet.

Motor Coach apologizes for any inconvenience resulting from this campaign, but urges you to implement this change as soon as possible.

Sincerely,

Motor Coach Industries