NOVA BUS

RECALL CAMPAIGN CR4359ER1

REFERENCE:	Nova Bus Manuals
SECTION:	05: Axle, central and rear
RS Nº:	MQR 7621-1248
EFFECTIVE IN PROD.:	LA34-001 (2017MR)
TC RECALL Nº:	TC 2018-257
NHTSA RECALL Nº:	NHTSA 18V299

APPLICATION DEADLINE: NA
CLAIM REFERENCE NUMBER: SR-4359

SUBJECT:	Brake caliper recall campaign
JUSTIFICATION:	Increased friction on caliper guide pins due to surface roughness

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Replace brakes calipers	Nova Bus	Nova Bus	3h20min
2	–	–	–	–

MATERIAL

QTY	PART Nº	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1	N8908325	–	Right full load caliper	–
1	N8908326	–	Left full load caliper	–
4	N8908945	–	Actuator nut	–
LEVEL 2				
–	–	–	–	–

Materials will be available within 70 days once your order has been placed. To order, please contact Prevost Parts by phone at 1-800-771-6682, by fax at 1-888-668-2555 or by email at prevostparts.commandes@volvo.com. Specify document number, quantity of parts required and shipping address.

DISPOSAL OF PARTS

REMOVED PARTS ARE:	DISCARDED	RETAINED *	* To be reimbursed, the parts must be retained and returned in accordance with the usual warranty procedure.
	–	Yes	

REVISION HISTORY

REV.	DATE	CHANGE DESCRIPTION	WRITTEN BY
NR	2018-07-20	Initial release	Marc Rougeau
R1	2018AU22	Added instructions to steps 1.7, 1.13, 1.15 and 1.19. Added p/n N8908945	Marc Rougeau

APPROVED BY: Daniel Theriault

Digitally signed by Daniel Theriault
DN: cn=Daniel Theriault, o=Nova Bus, ou, email=daniel.theriault@volvo.com, c=CA
Date: 2018.09.04 08:06:30 -04'00'

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Démo-2017	L980	—	—	L82J1G97[redacted]	L82J9G9[redacted]	3
Duke University - North Carolina	L938	—	—	L82L8G9[redacted]	L82L0G97[redacted]	2

WARNING

Follow your internal safety procedures.

PROCEDURE

1.1. Park the vehicle on level ground and place the transmission in neutral (N).

1.2. Place the master control switch and the battery disconnect switch in the off position. Follow your local lock-out procedure (see Figure 1).

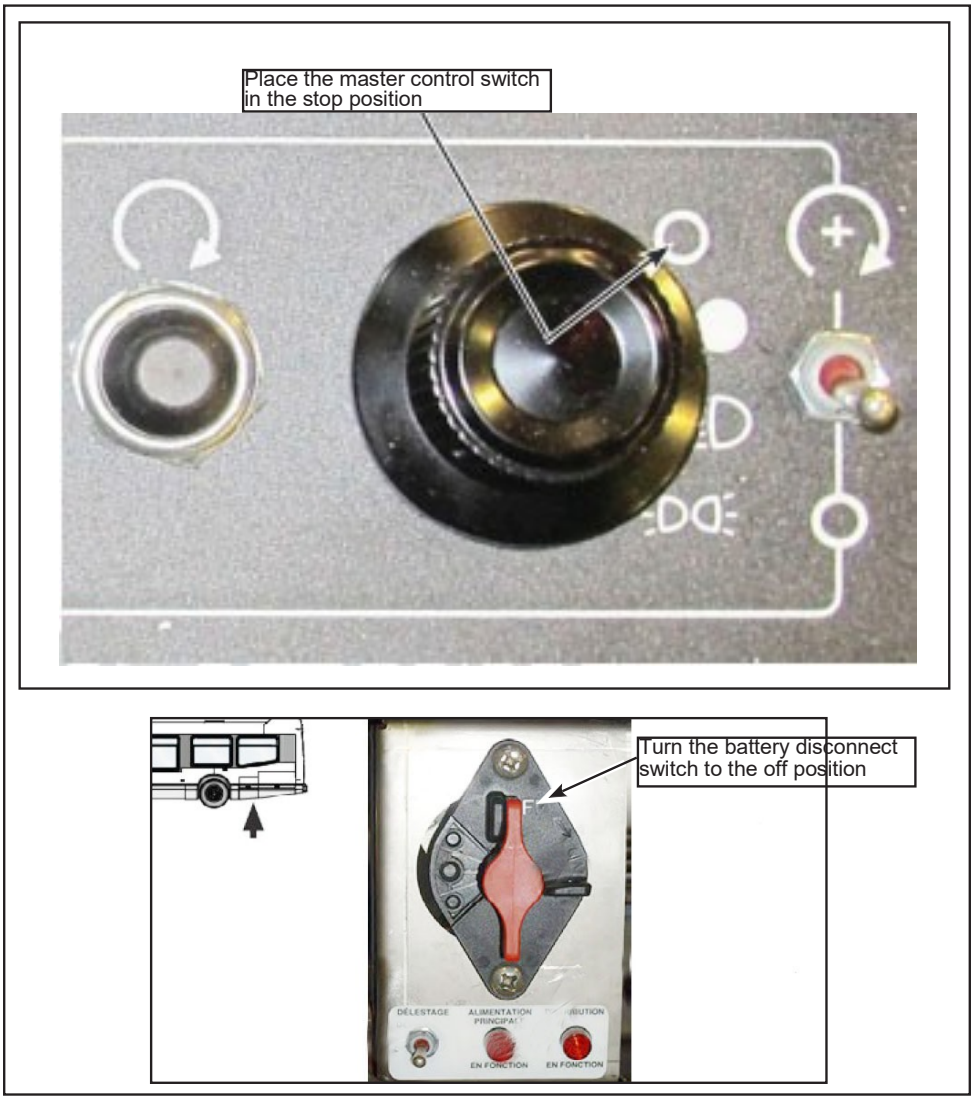

Figure 1 - Place the Master Control Switch and the Battery Disconnect Switch in the Stop Position

NOTE

The following procedure is provided by ZF Group and Knorr-Bremse. Nova Bus cannot be held responsible for its content.

1.3. Knorr brake caliper version SB7 identification (see Figure 2). Documentation of completed service must be logged on affected axle spreadsheet, see annex 1.

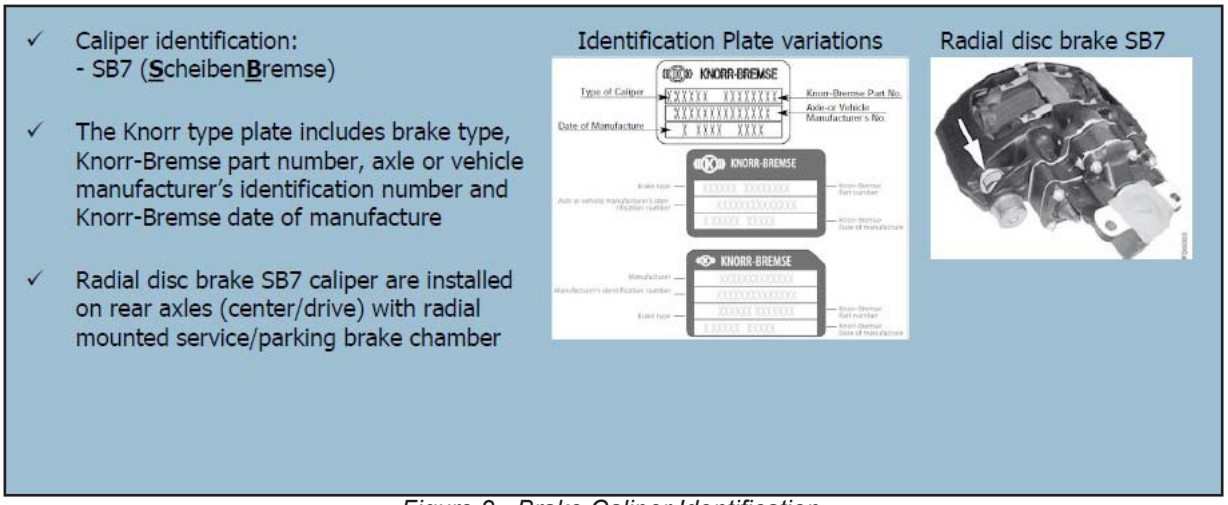

Figure 2 - Brake Caliper Identification

1.4. Raise the vehicle according to your maintenance facilities procedures. Secure the vehicle with additional supports at the correct supporting points, see section 18 (Hoisting and Towing) of the maintenance manual (see Figure 3).

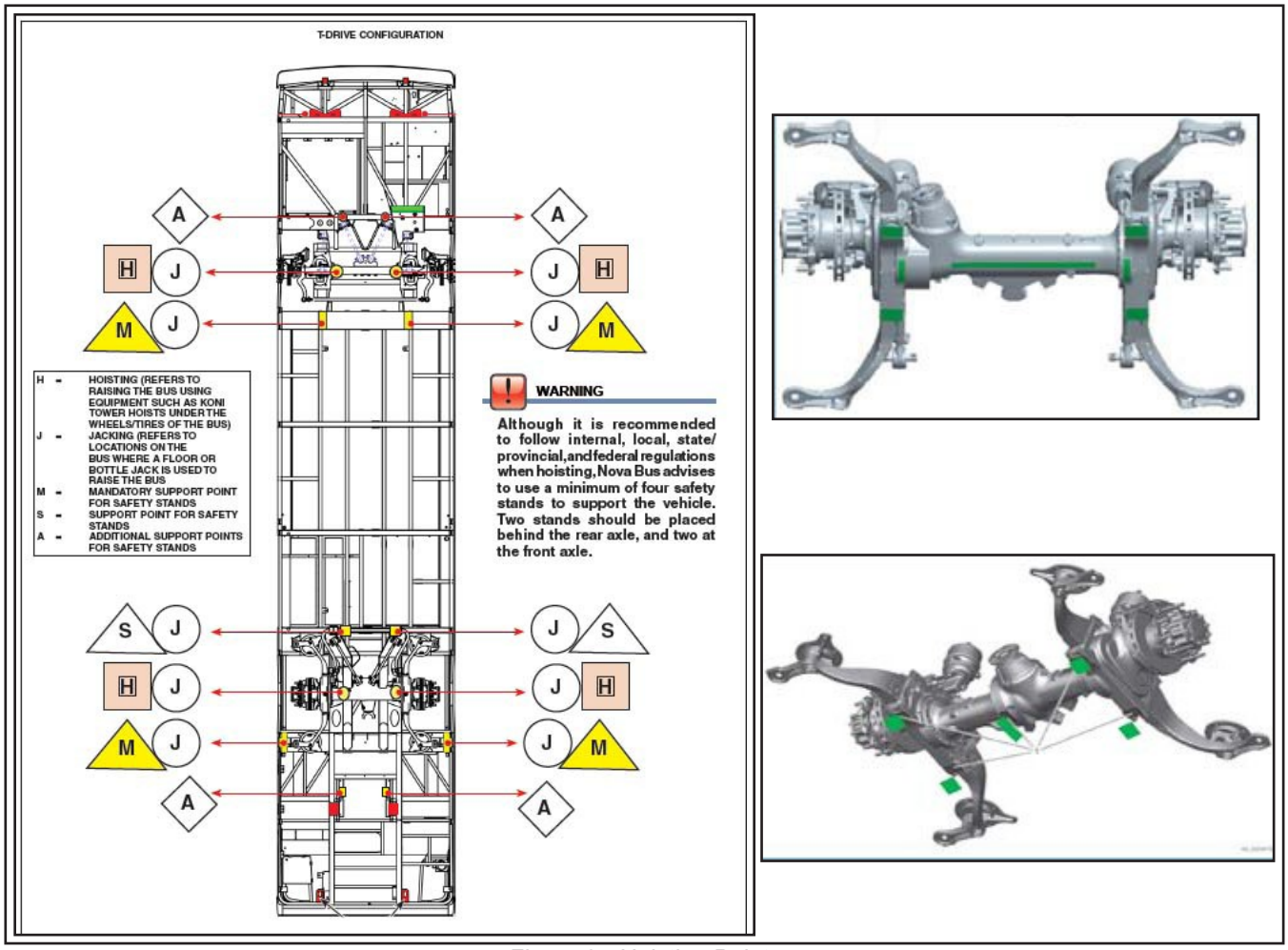

Figure 3 - Hoisting Points

1.5. Verify and record (see Annex 1) the affected axle serial no. on the type plate (see Figure 4).

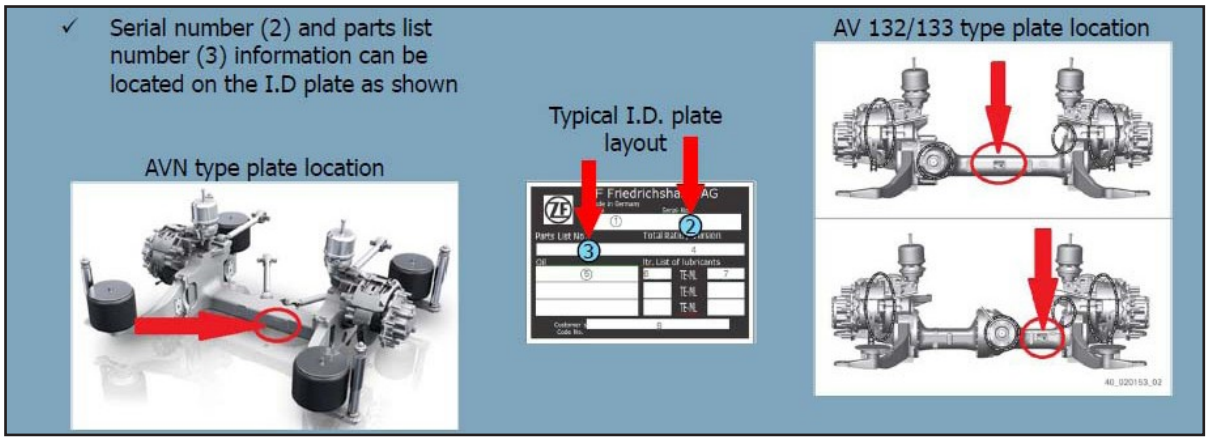

Figure 4 - Axle Serial no.

1.6. Remove the left and right wheels (see Figure 5).

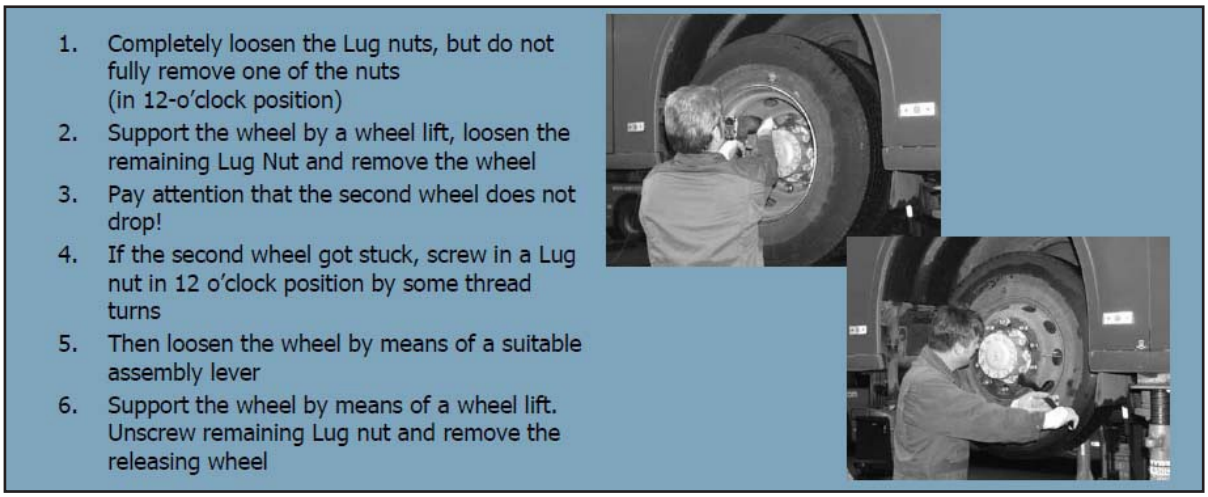

Figure 5 - Wheel Removal

1.7. Verify and record (see Annex 1) the Knorr brake caliper production no.. If the production date code is out of range or if the caliper type plate is already punched, no further action is required (see Figure 6). Indicate labor time to submit a claim.

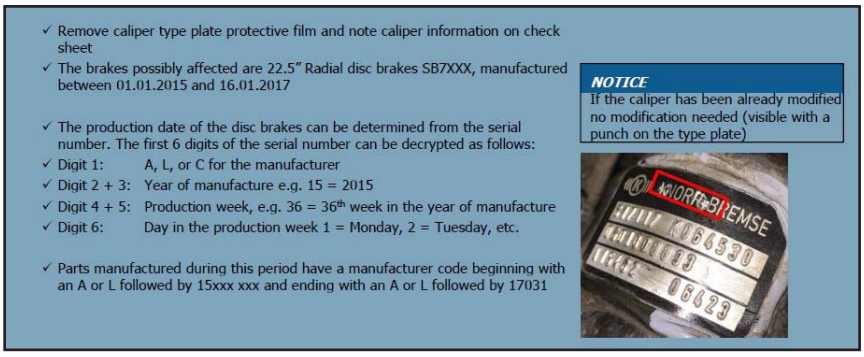

Figure 6 - Brake Caliper Production no.

1.8. Collect all relevant data (see Annex 1) (see Figure 7).

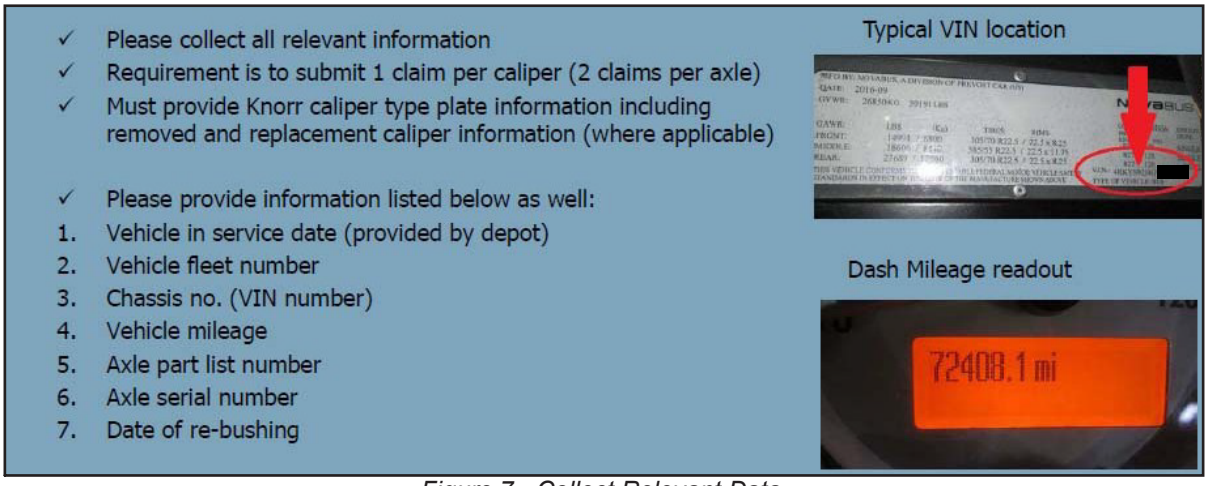

Figure 7 - Collect Relevant Data

1.9. Removal of the brake chambers left and right side (see Figure 8).

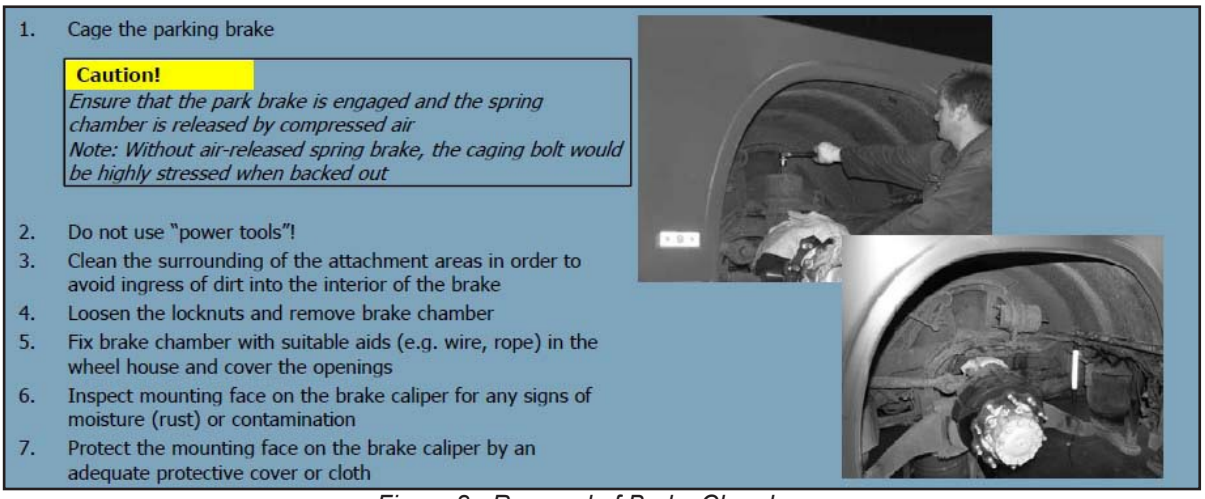

Figure 8 - Removal of Brake Chambers

1.10. Removal of electrical wear sensor connections or potetiometer connections (see Figure 9).

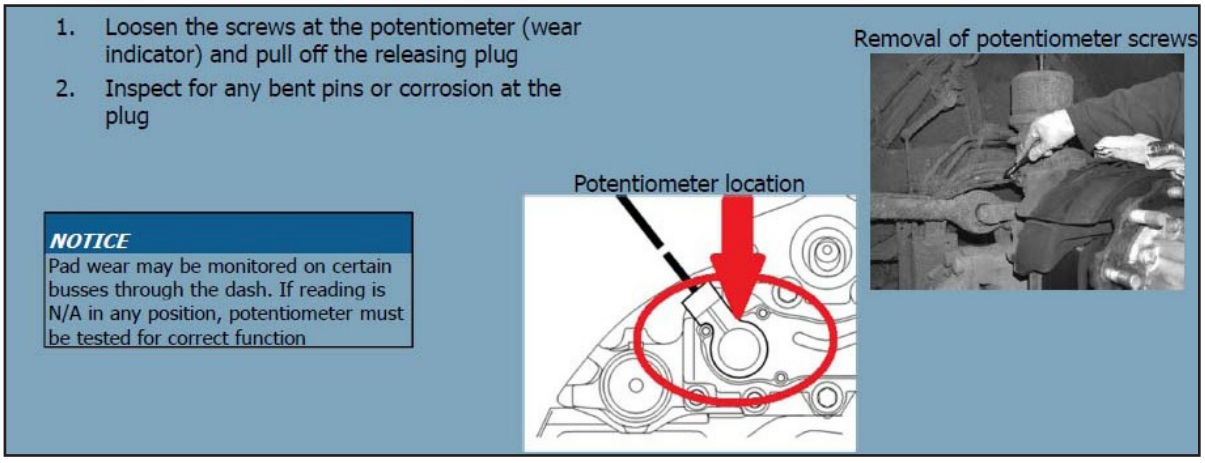

Figure 9 - Removal of Wear Sensor

1.11. Remove the brake pads (see Figure 10).

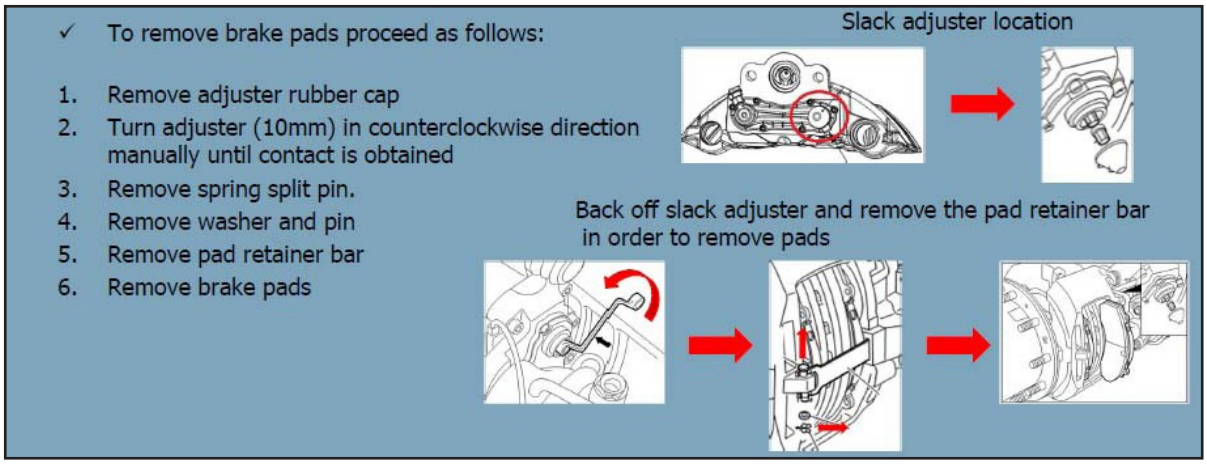

Figure 10 - Remove the Brake Pads

1.12. Remove the 6 carrier bolts at the center or drive axle (see Figure 11).

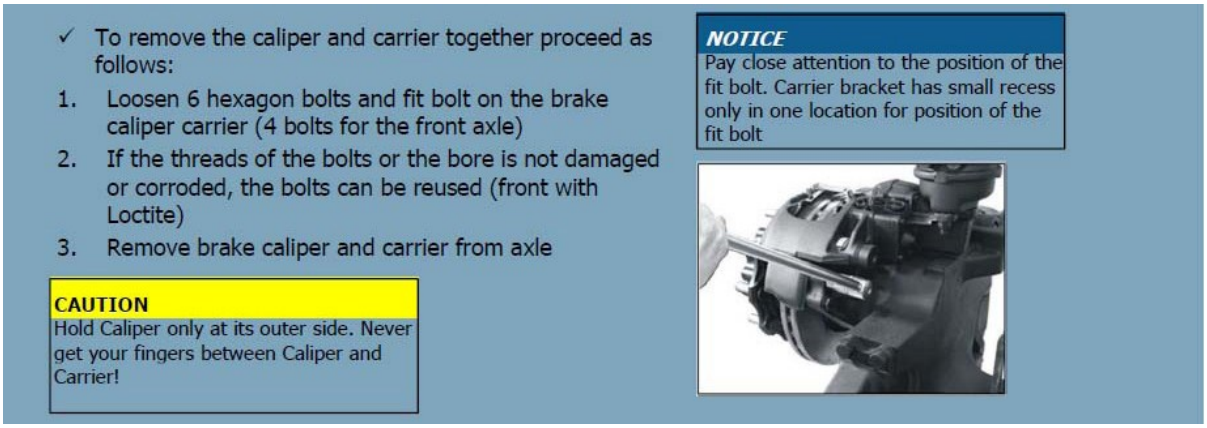

Figure 11 - Remove the 6 Carrier Bolts

1.13. Install the new Knorr brake caliper (see Figure 12).

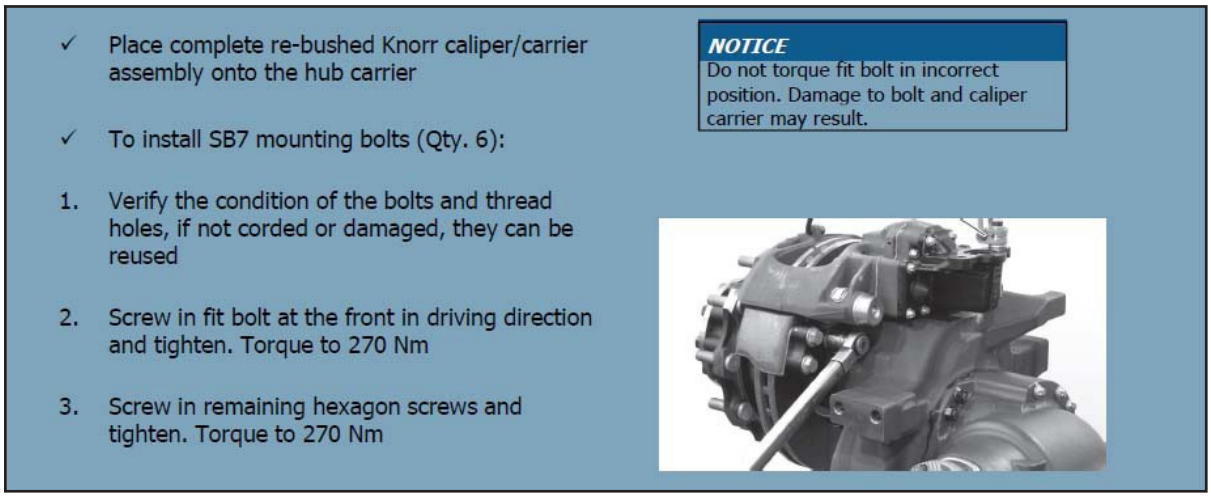

Figure 12 - Install the New Brake Caliper

1.14. Refit the brake chamber, use the new actuator nuts (N8908945) provided (see Figure 13).

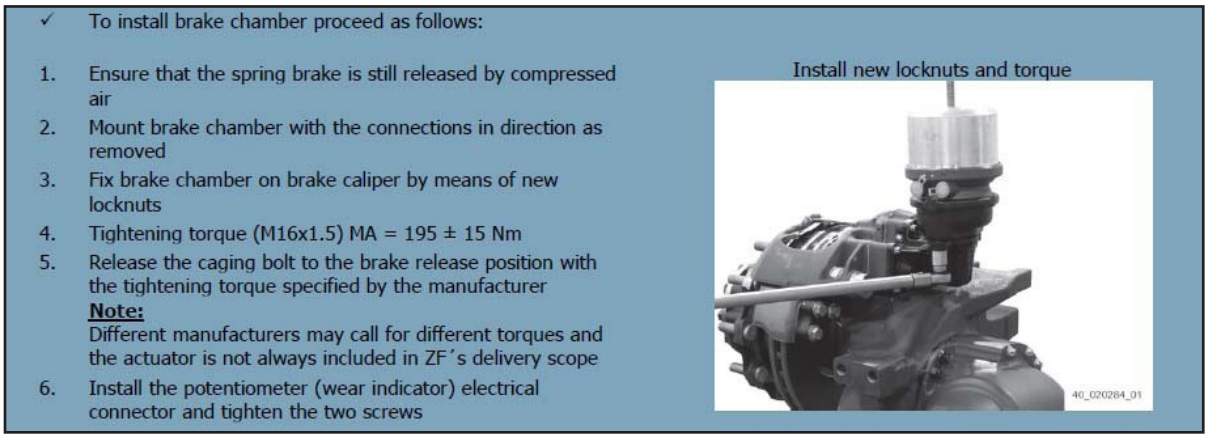

Figure 13 - Install the Brake Chamber

1.15. Install brake pads, installing new brake pads is an option (see Figure 14).

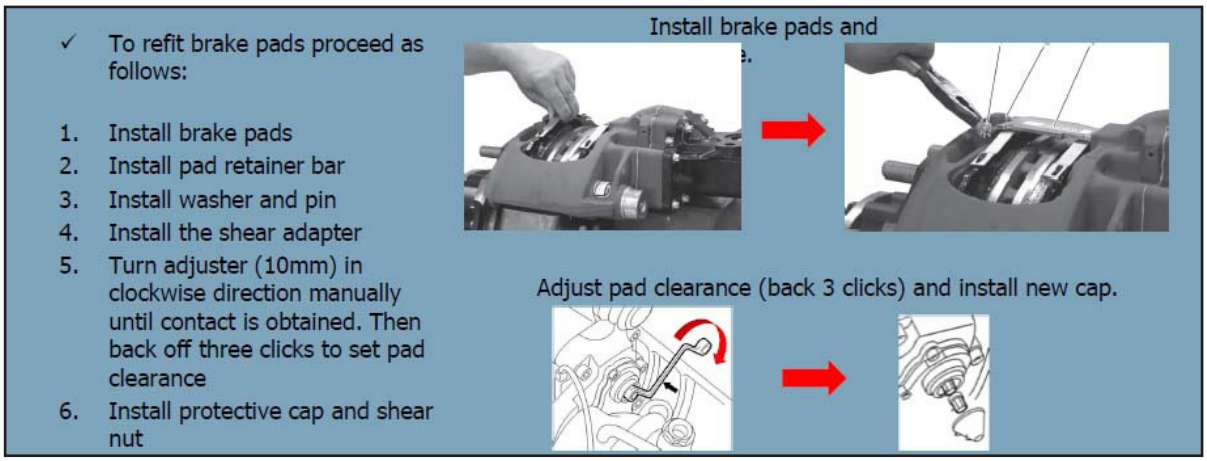

Figure 14 - Install the Brake Pads

1.16. Install the wheels (see Figure 15).

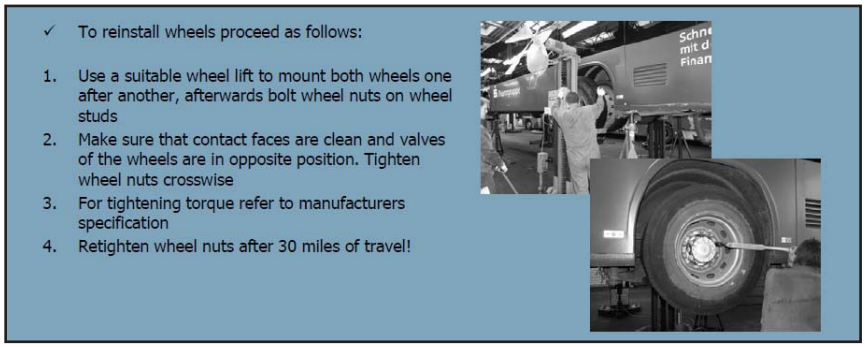

Figure 15 - Install the Wheels

1.17. Deceleration test (see Figure 16).

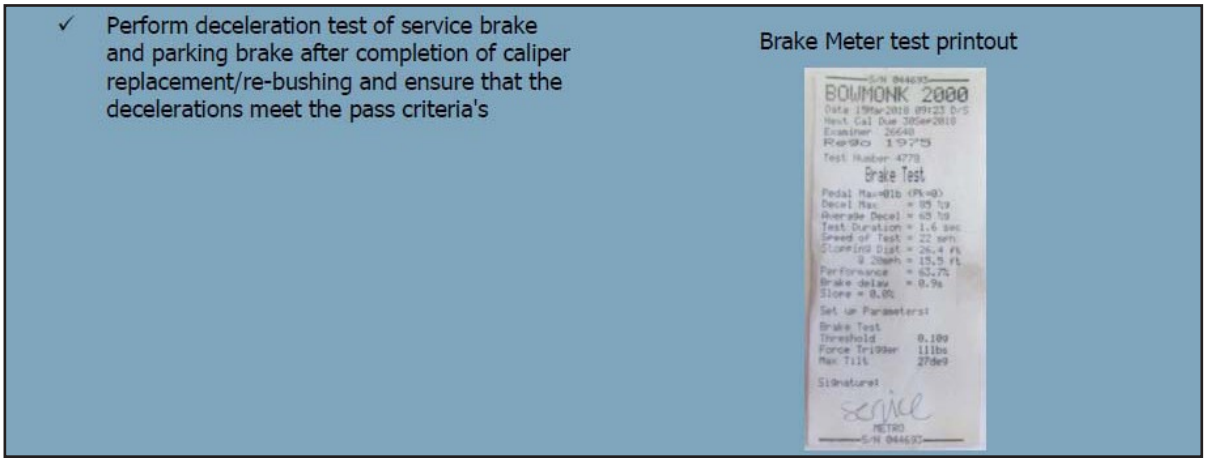

Figure 16 - Deceleration Test

1.18. Send relevant data to ZF via the OEM (see Figure 17).❖

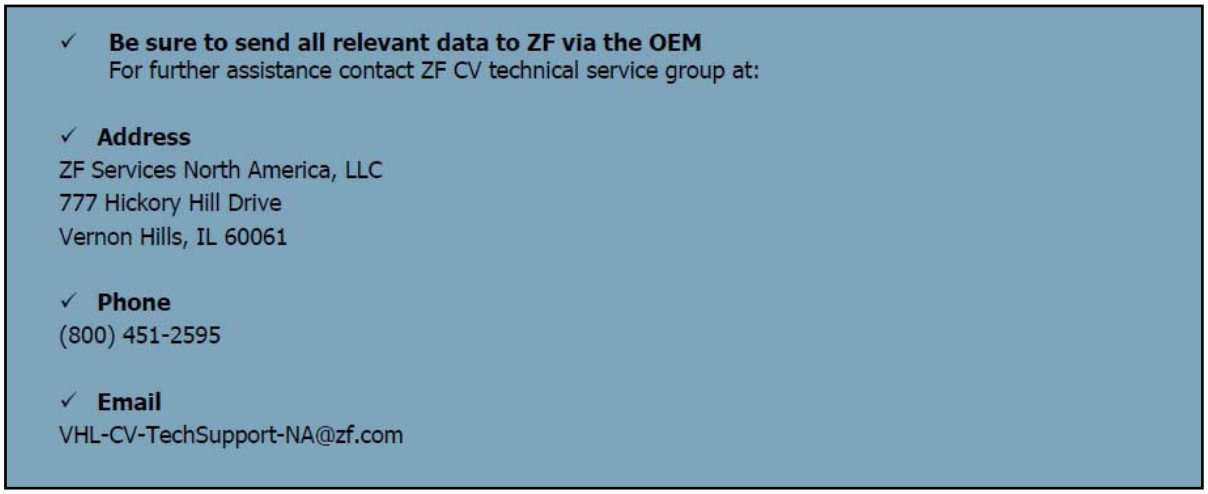

Figure 17 - Send Relavent Data to ZF

ANNEX 1

<table>
<tr><td colspan="3">Road Number:</td></tr>
<tr><td colspan="3">Fleet/Location/Depot:</td></tr>
<tr><td colspan="3">VIN:</td></tr>
<tr><td colspan="3">Vehicle type:</td></tr>
<tr><td colspan="3">Order:</td></tr>
<tr><td rowspan="2">Vehicle mileage</td><td colspan="2">In miles</td></tr>
<tr><td colspan="2">In KM</td></tr>
<tr><td colspan="3">In Service date</td></tr>
<tr><td colspan="3">Repair date (same date per vehicle or add new line)</td></tr>
<tr><td rowspan="13">Drive axle brake caliper (SN)</td><td rowspan="2">Drive axle AVN132</td><td>serial no.</td></tr>
<tr><td>Part no.</td></tr>
<tr><td rowspan="2">Removed (Knorr-Bremse serial no.)</td><td>Left</td></tr>
<tr><td>Right</td></tr>
<tr><td rowspan="2">Installed (Knorr-Bremse serial no.)</td><td>Left</td></tr>
<tr><td>Right</td></tr>
<tr><td rowspan="3">Kind of work done (specify which side)</td><td>TRR</td></tr>
<tr><td>CRR</td></tr>
<tr><td>CRB</td></tr>
<tr><td rowspan="6">First add the kind of work. For TRR (Tire Removal Reinstallation), CRR (Caliper Removal and Reinstallation) add your respective work time into row "Labor for R&R", for CRB (Caliper Rebushing) add your work time into row "Labor for rebushing"</td><td>Reference no.</td></tr>
<tr><td>Claimant</td></tr>
<tr><td>Labor for R&R (removal and reinstallation) (in hours)</td></tr>
<tr><td>Labor for rebushing (in hours)</td></tr>
<tr><td>Comments regarding the work done and if travel costs or miscellanous cost are required please comment / *receipts needed</td></tr>
</table>