

|                     |                                             |
|---------------------|---------------------------------------------|
| REFERENCE:          | Nova Bus Manuals                            |
| SECTION:            | 04: Front suspension<br>05: Rear suspension |
| RS N°:              | MQR 7621-767                                |
| EFFECTIVE IN PROD.: | —                                           |

APPLICATION DEADLINE: 2015JL01  
CLAIM REFERENCE NUMBER: WB-3138

|                |                                  |
|----------------|----------------------------------|
| SUBJECT:       | Radius rod bolts                 |
| JUSTIFICATION: | Radius rod bolts may come loose. |

| LEVEL | DESCRIPTION                                                                                      | DIRECT CHARGES |          | TIME   |
|-------|--------------------------------------------------------------------------------------------------|----------------|----------|--------|
|       |                                                                                                  | LABOUR         | MATERIAL |        |
| 1     | Check all bolts for at least 180 lb-ft (240 N•m) of torque and re-torque to 205 lb-ft (275 N•m). | Nova Bus       | —        | 40 min |
| 2     | Change the bolts found torqued to less than 180 lb-ft (240 N•m)                                  | Nova Bus       | Client*  | 25 min |

\* The cost of the material will be reimbursed when claiming for this service document.

#### MATERIAL

| ITEM #                             | QTY | PART N° | REV. | DESCRIPTION                    | REPLACES PART N° |
|------------------------------------|-----|---------|------|--------------------------------|------------------|
| <b>LEVEL 1</b>                     |     |         |      |                                |                  |
| —                                  | —   | —       | —    | —                              | —                |
| <b>LEVEL 2 (only if required*)</b> |     |         |      |                                |                  |
| 1                                  | 60  | N35328  | —    | WASHER NORDLOCK M18 YP         | —                |
| 2                                  | 20  | N37942  | —    | LOCK NUT M18 DC GR 10          | —                |
| 3                                  | 4   | N37943  | —    | BOLT M18 L120 DC GR 10.9       | —                |
| 4                                  | 16  | N48780  | —    | BOLT 18X75 DC CL10.9 DIN931    | —                |
| 5                                  | 4   | N48786  | —    | BOLT M18X 140 DC CL10.9 DIN931 | —                |
| 6                                  | 4   | N21328  | —    | NUT STOVER M16 DC GR10 DIN980V | —                |
| 7                                  | 4   | N21329  | —    | HEX BOLT M16 X 80              | —                |
| 8                                  | 4   | N21332  | —    | HEX BOLT M16 X 55              | —                |
| 9                                  | 12  | N31667  | —    | WASHER NORDLOCK M16 YP         | —                |
| 10                                 | 4   | N39780  | —    | BOLT M18X80 DC GR10.9 PT2.5    | —                |
| 11                                 | 8   | N48788  | —    | BOLT M18X 100 DC CL10.9 DIN931 | —                |
| 12                                 | 4   | N48198  | —    | BOLT M18X2.5 XL140MM 10.9 DACR | —                |

Materials will be available within 28 days. 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.

\* The material identified in Level 2 is to be ordered only for vehicles that meet the criteria defined in Level 1.

#### DISPOSAL OF PARTS

| REMOVED PARTS ARE: | DISCARDED * | RETAINED | * Dispose of the unused parts and the defective parts in accordance with local environmental standards in effect. |
|--------------------|-------------|----------|-------------------------------------------------------------------------------------------------------------------|
|                    | Yes         | —        |                                                                                                                   |

#### REVISION HISTORY

| REV. | DATE     | CHANGE DESCRIPTION | WRITTEN BY       |
|------|----------|--------------------|------------------|
| NR   | 2014JN02 | Initial release    | Bertrand Plouffe |

APPROVED BY: Daniel Theriault

Digitally signed by Daniel Theriault  
DN: cn=Daniel Theriault, o=Nova Bus, ou=Publication,  
email=daniel.theriault@volvo.com, c=CA  
Date: 2014.06.04 08:44:52 -04'00'

| CLIENT                           | ORDER | ROAD NUMBER |      | VIN (2NVY/4RKY...) |               | QTY |
|----------------------------------|-------|-------------|------|--------------------|---------------|-----|
|                                  |       | FROM        | TO   | FROM               | TO            |     |
| New York City Transit - New York | L643  | 5895        | 5895 | S92U1B4000143      | S92U1B4000143 | 1   |
| New York City Transit - New York | L670  | 5770        | 5894 | S92U4C4500024      | S92U3B4000242 | 125 |
| New York City Transit - New York | L681  | 5896        | 5283 | S92U2C4500023      | S92U9C4500195 | 122 |
| New York City Transit - New York | L692  | 5284        | 5363 | S92U3C4500158      | S92U3D4500274 | 80  |

**WARNING**

Follow your internal safety procedures.

## PROCEDURE

### LEVEL 1: INSPECT

- 1.1. Raise the vehicle.

**CAUTION**

For information on hoisting and towing of the vehicle, see section 18: HOISTING AND TOWING in the Nova Bus maintenance manual. Respect your internal safety procedures. Use appropriate hoisting equipment for your protection.

- 1.2. Locate the four radius rods on the front axle. See Figure 1.

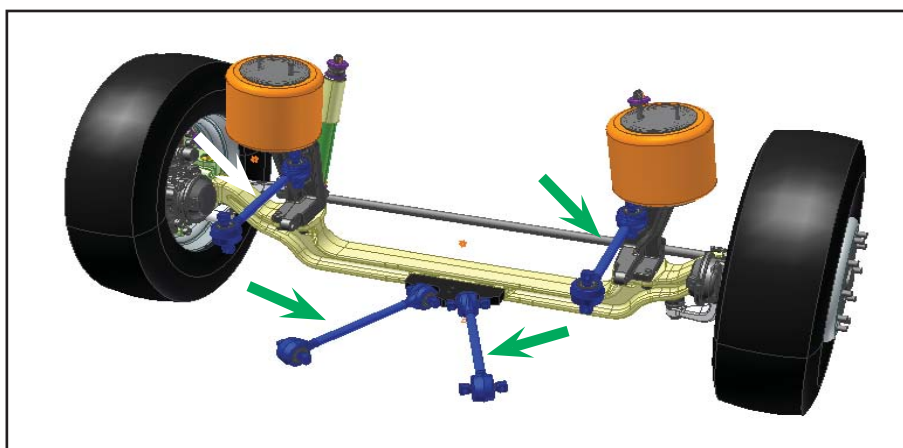


*Figure 1 - Front Axle Radius Rods (4x)*

- 1.3. Proceed with a torque test to 180 lb-ft (240 N•m) on all 16 radius rods bolts. If the bolt turns before reaching the torque test level, go to level 2.
- 1.4. Torque all 16 radius rod bolts to 205 lb-ft (275 N•m). Use the proper torque sequence shown in section 04: **FRONT SUSPENSION** of the Nova Bus maintenance manual. After torquing each bolt, apply a different coloured torque seal from the one originally used.

- 1.5. Locate the four radius rods on the middle axle. See Figure 2.

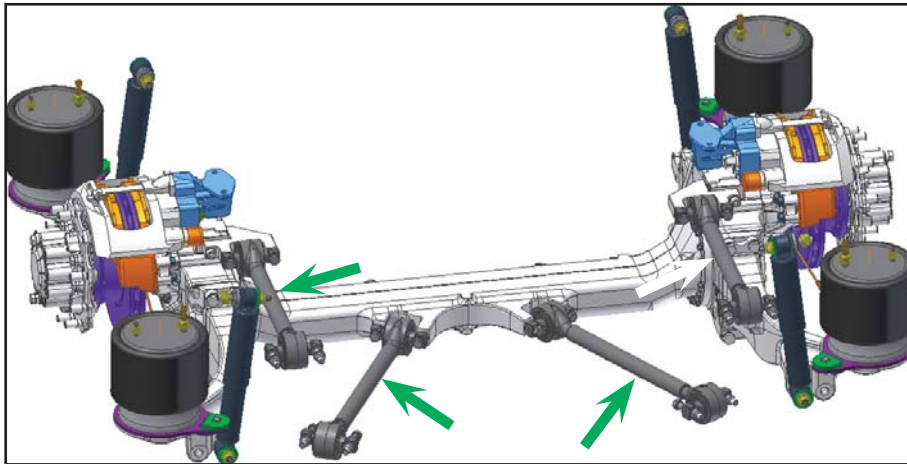


Figure 2 - Middle Axle Radius Rods (4x)

- 1.6. Repeat steps 1.3 & 1.4.  
1.7. Locate the four radius rods on the rear axle. See Figure 3.

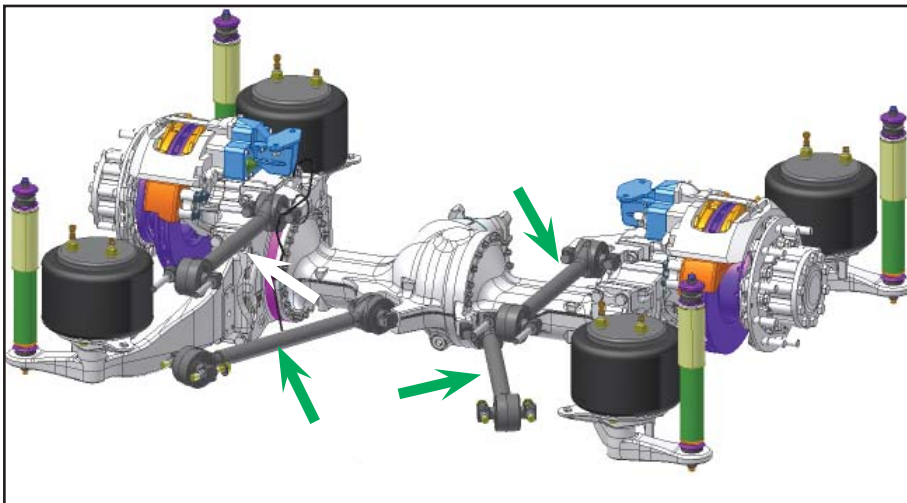


Figure 3 - Rear Axle Radius Rods (4x)

- 1.8. Repeat step 1.3.  
1.9. Torque all 16 radius rod bolts to 205 lb-ft (275 N•m). Use the proper torque sequence shown in section 05: **REAR SUSPENSION** of the Nova Bus maintenance manual. After torquing each bolt, apply a different coloured torque seal from the one originally used.  
1.10. Lower the vehicle.  
1.11. The vehicle may be returned to service.

**LEVEL 2: CHANGE THE UNDER-TORQUED BOLTS**

- 2.1. Remove under-torqued bolts **ONE AT A TIME** to avoid any shift in axle alignment.

**NOTE**

Be careful not to move or remove any alignment shims that may be present.

- 2.2. Replace with a new bolt. Also replace the locknut and the Nordlock washer if present. Apply anti-seize compound, Never-Seeze or equivalent, on the new bolt threads. See Figure 4, 5 and 6. Item numbers in the Figures refer to item # column in the part list on page one.

**NOTE**

Always replace the two bolts of a radius rod end even if only one is found to be under-torqued. Change the bolts **ONE AT A TIME** to avoid any shift in axle alignment.

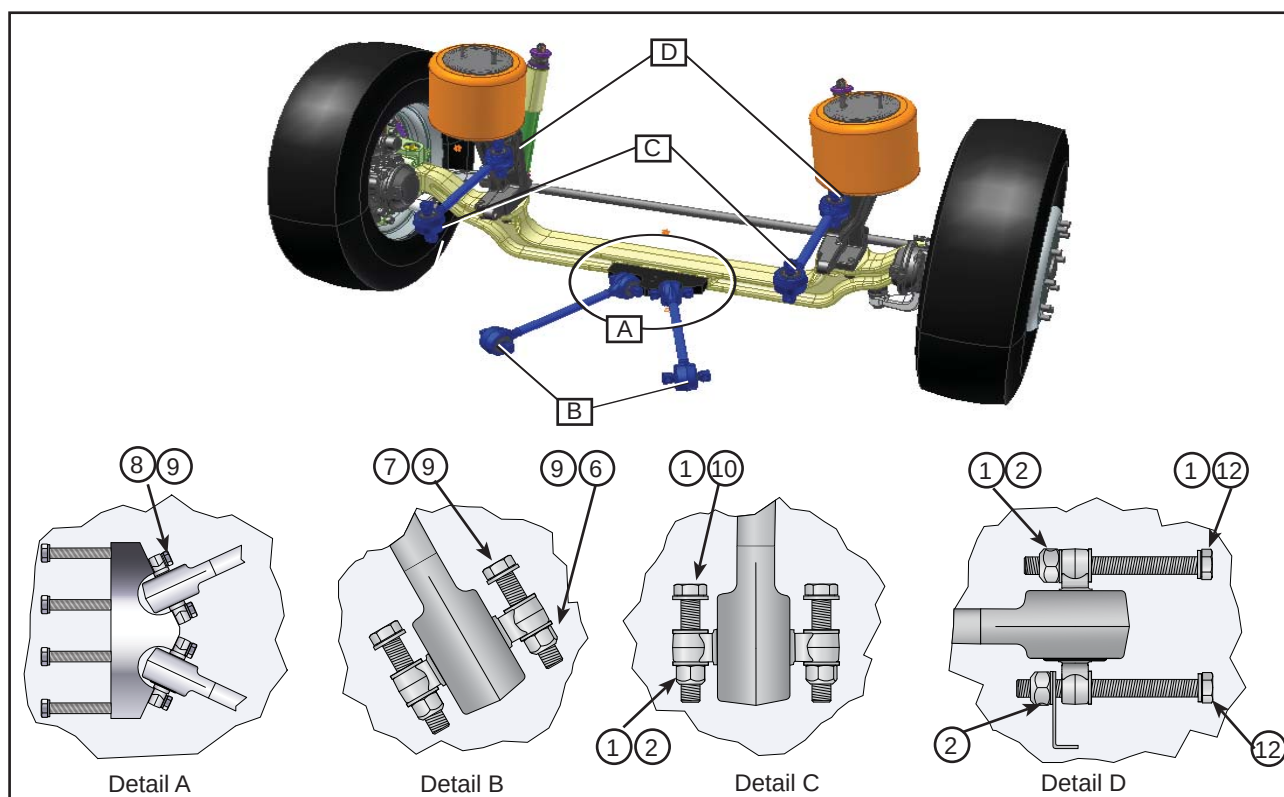


Figure 4 - Front Axle Radius Rod Hardware

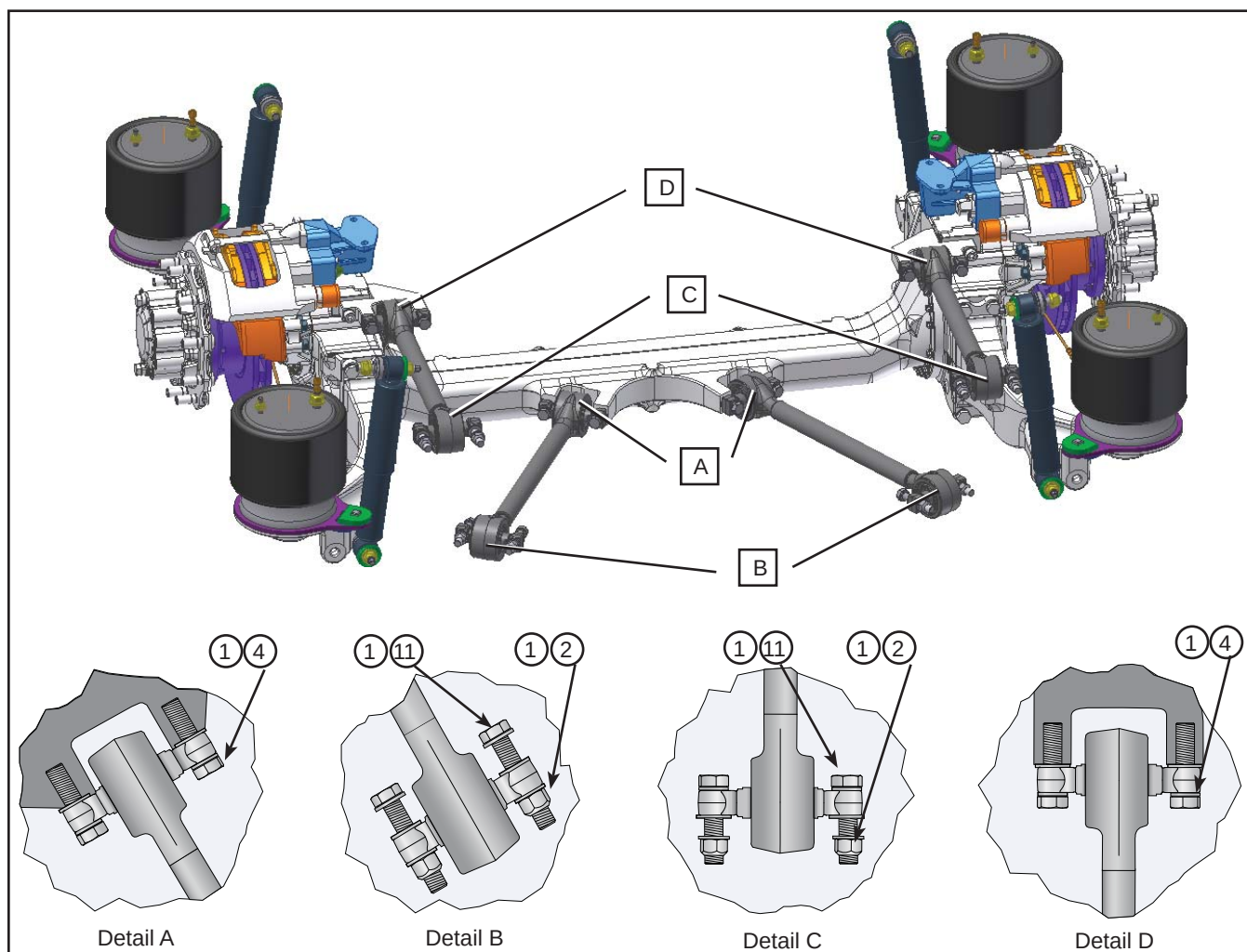


Figure 5 - Middle Axle Radius Rod Hardware

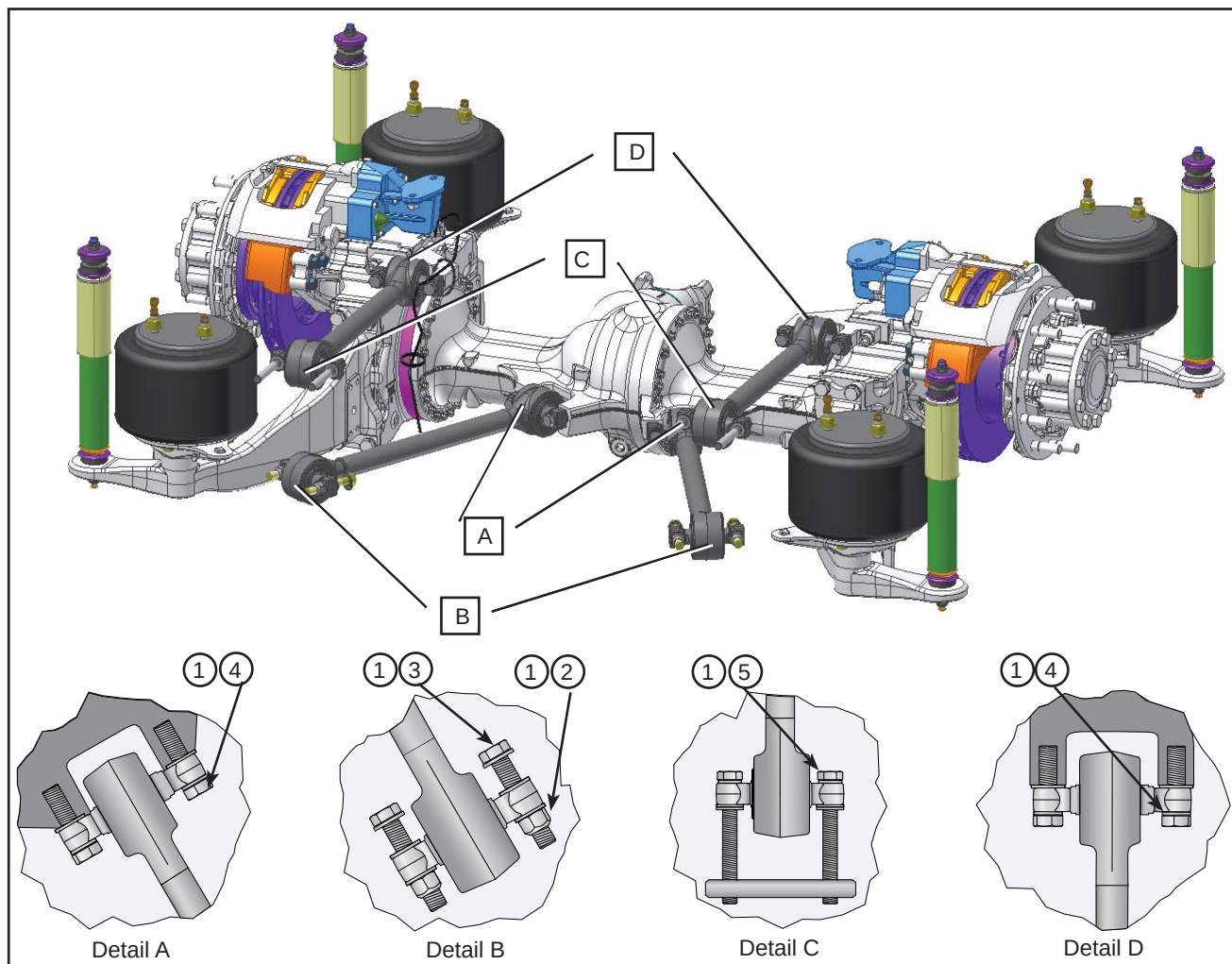


Figure 6 - Rear Axle Radius Rod Hardware

- 2.3. Torque the new bolts to 180 lb-ft (240 N•m).
- 2.4. If working on the front or middle axle, return to step 1.4. If working on the rear axle, return to step 1.9. ❖