

|                     |                      |
|---------------------|----------------------|
| REFERENCE:          | Nova Bus Manuals     |
| SECTION:            | 11: Fuel and Exhaust |
| RS N°:              | MQR 7621-1267        |
| EFFECTIVE IN PROD.: | N/A                  |

APPLICATION DEADLINE: 2018SE28  
CLAIM REFERENCE NUMBER: WB-3887

|                |                                                                          |
|----------------|--------------------------------------------------------------------------|
| SUBJECT:       | CNG regulator vent pipe cap                                              |
| JUSTIFICATION: | Dust cap from PRD vent pipe of rear regulator on CNG units may pull off. |

| LEVEL | DESCRIPTION                                                | DIRECT CHARGES |          | TIME        |
|-------|------------------------------------------------------------|----------------|----------|-------------|
|       |                                                            | LABOUR         | MATERIAL |             |
| 1     | Replace with heat shrinkable end caps to improve retention | Nova Bus       | Nova Bus | 1 hr 15 min |
| 2     | –                                                          | –              | –        | –           |

**MATERIAL**

| QTY            | PART N°  | REV. | DESCRIPTION                   | REPLACES PART N° |
|----------------|----------|------|-------------------------------|------------------|
| <b>LEVEL 1</b> |          |      |                               |                  |
| 1              | N8905785 | –    | CAP HEAT SHRINKABLE FOR Ø3/8" | –                |
| <b>LEVEL 2</b> |          |      |                               |                  |
| –              | –        | –    | –                             | –                |

Materials will be available within 10 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](mailto:prevostparts.commandes@volvo.com). Specify document number, quantity of parts required and shipping address.

**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   | 2017AU30 | Initial release    | Kumaraswamy K S |

| CLIENT                    | ORDER | ROAD NUMBER |       | VIN (2NVY/4RKY...) |               | QTY |
|---------------------------|-------|-------------|-------|--------------------|---------------|-----|
|                           |       | FROM        | TO    | FROM               | TO            |     |
| Calgary Transit - Alberta | L733  | 8201        | 8202  | L82AXD3000926      | L82A1D3000927 | 2   |
| CNG Demo (ref. L957)      | L840  | 8093        | 8093  | L82J0E4500716      | L82J0E4500716 | 1   |
| Demo CNG                  | L716  | —           | —     | L82A5D3000896      | L82A5D3000896 | 1   |
| Hamilton - Ontario        | L885  | 1501        | 1501  | L82K3F4501093      | L82K3F4501093 | 1   |
| Hamilton - Ontario        | L885  | 1504        | 1506  | L82K2F4501148      | L82K3F4501160 | 3   |
| Hamilton - Ontario        | L885  | 1508        | 1513  | L82K4F4501166      | L82K0F4501181 | 6   |
| Hamilton - Ontario        | L885  | 1516        | 1519  | L82K1F4501190      | L82K8F4501199 | 4   |
| Hamilton - Ontario        | L885  | 1523        | 1524  | L82K5F4501211      | L82K0F4501214 | 2   |
| Hamilton - Ontario        | L956  | 1601        | 1632  | L82K2G9775325      | L82K3G9775415 | 32  |
| Hamilton - Ontario        | LA05  | 1633        | 1643  | L82K4G9775553      | L82K7G9775577 | 11  |
| NFTA - Buffalo, New York  | L877  | 1501        | 1501  | L82K0F4500984      | L82K0F4500984 | 1   |
| NFTA - Buffalo, New York  | L897  | 1502        | 1520  | L82K1F4501223      | L82K1G9775008 | 19  |
| NFTA - Buffalo, New York  | L947  | 1601        | 1624  | L82KXG9775248      | L82K3G9775320 | 24  |
| NFTA - Buffalo, New York  | LA24  | 1701        | 1716  | L82K3H9775822      | L82K5H9775837 | 16  |
| Red Deer - Alberta        | L924  | 10104       | 10147 | L82K0G9775517      | L82KXG9775542 | 12  |
| Red Deer - Alberta        | L960  | 10021       | 10025 | L82K9G9775418      | L82K3G9775429 | 5   |
| San Antonio Texas         | L990  | -           | -     | L82K5G9775464      | L82K5G9775464 | 1   |
| San Antonio Texas         | LA10  | 422         | 446   | L82K9G9775628      | L82K8G9775653 | 25  |
| San Antonio Texas         | LA22  | 447         | 555   | L82K8H9775654      | L82K0H9775762 | 109 |
| San Antonio Texas         | LA34  | 556         | 580   | L82K0H9775857      | L82K8H9775881 | 25  |
| San Antonio Texas         | LA35  | 581         | 691   | L82KXH9775882      | L82K8H9775993 | 111 |

**WARNING**

Follow your internal safety procedures and local regulation. Make sure the components are cold enough when you work in that area.

## PROCEDURE

**WARNING**

CNG systems should be maintained and inspected exclusively by trained personnel with certifications in accordance with the applicable codes. As with all pressure vessels, CNG storage and fuel delivery systems are inherently dangerous and should be treated as such. Individuals involved in any aspect of CNG fuel system maintenance, emergency response, servicing, or testing must be properly trained and certified. Individuals who are not trained and certified in all aspects concerning CNG fuel delivery systems are NOT permitted to service, maintain, test, or inspect a system in any way.

Protective footwear and eyewear should be worn by all personnel in close proximity to a CNG system.

When locating the source of a leak only, use certified leak detecting solutions and equipment such as FBI®, combustible gas detector, Swagelok Snoop®, Hoke Leak Detective®. Any other product or solutions are unacceptable.

Only use tools that are in good working order with proper calibration.

Wear appropriate attire while servicing or maintaining any CNG system.

Do NOT start the engine if a natural gas leak is detected.

CNG storage pressure can be as high as 4,250 psi (29,303 kPa).

- 1.1. Turn the ignition switch to OFF position and engage the parking brake.
- 1.2. Turn the emergency shut-off valve of Fuel Management Module (FMM) to OFF position.

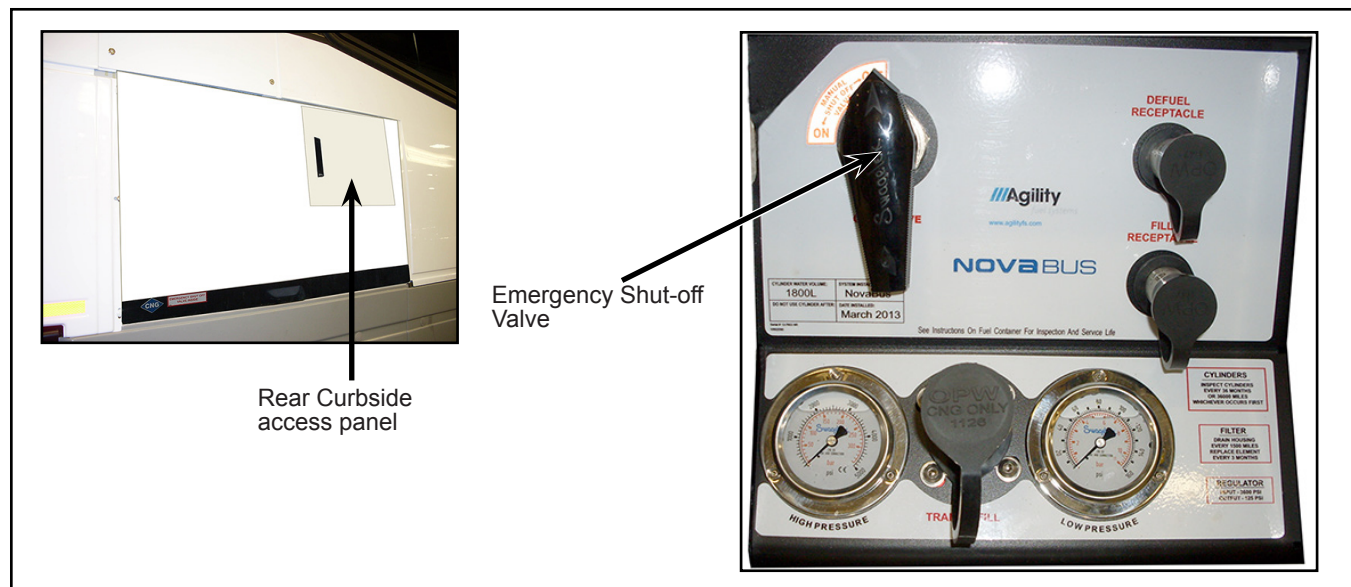


Figure 1 - Typical View of Fuel Management Module with Location

- 1.3. Turn the ignition switch to ON position again, Start the engine and allow it to stall.
- 1.4. Set the battery disconnect switch in the battery compartment to the OFF position (see Figure 2).

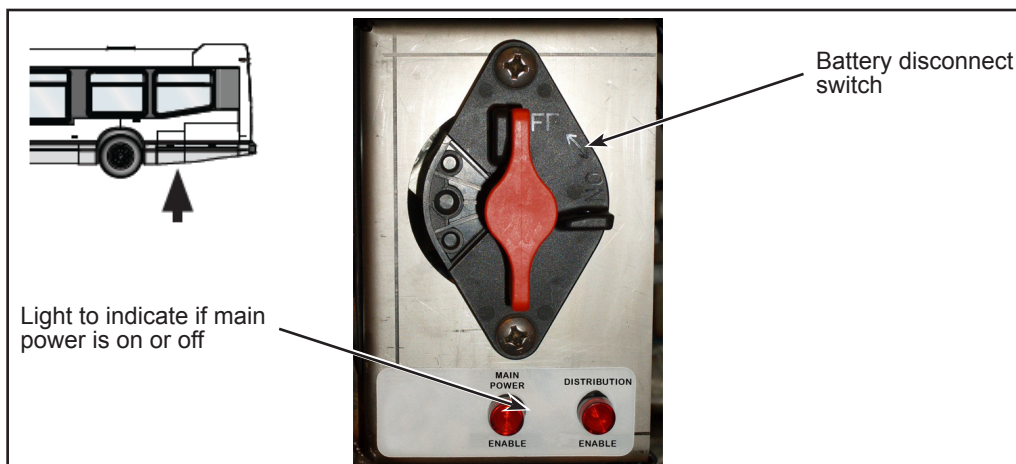


Figure 2 - Battery disconnection switch position



#### WARNING

Before starting any work on the vehicle, make sure the vehicle is completely and securely stationary. Disconnect the starting circuit on the control box at the rear of the vehicle and place the battery disconnect switch in the OFF position.



#### NOTE

Refer to Nova Bus maintenance manual, Agility's Compressed Natural Gas (CNG) publications and Cummin's ISL-G engine publications for all safety guidelines that must be respected while carrying out any procedure or installation on the vehicle.



#### CAUTION

A gas detector must be used to check the absence of gas.



#### WARNING

If you consider that the security conditions are NOT present, you should NOT proceed with this installation.

**NOTE**

No attempt shall be made to perform the installation unless Nova Bus maintenance manual and all referenced supporting documents have been read and understood. See Figure 2, for schematic of CNG system.

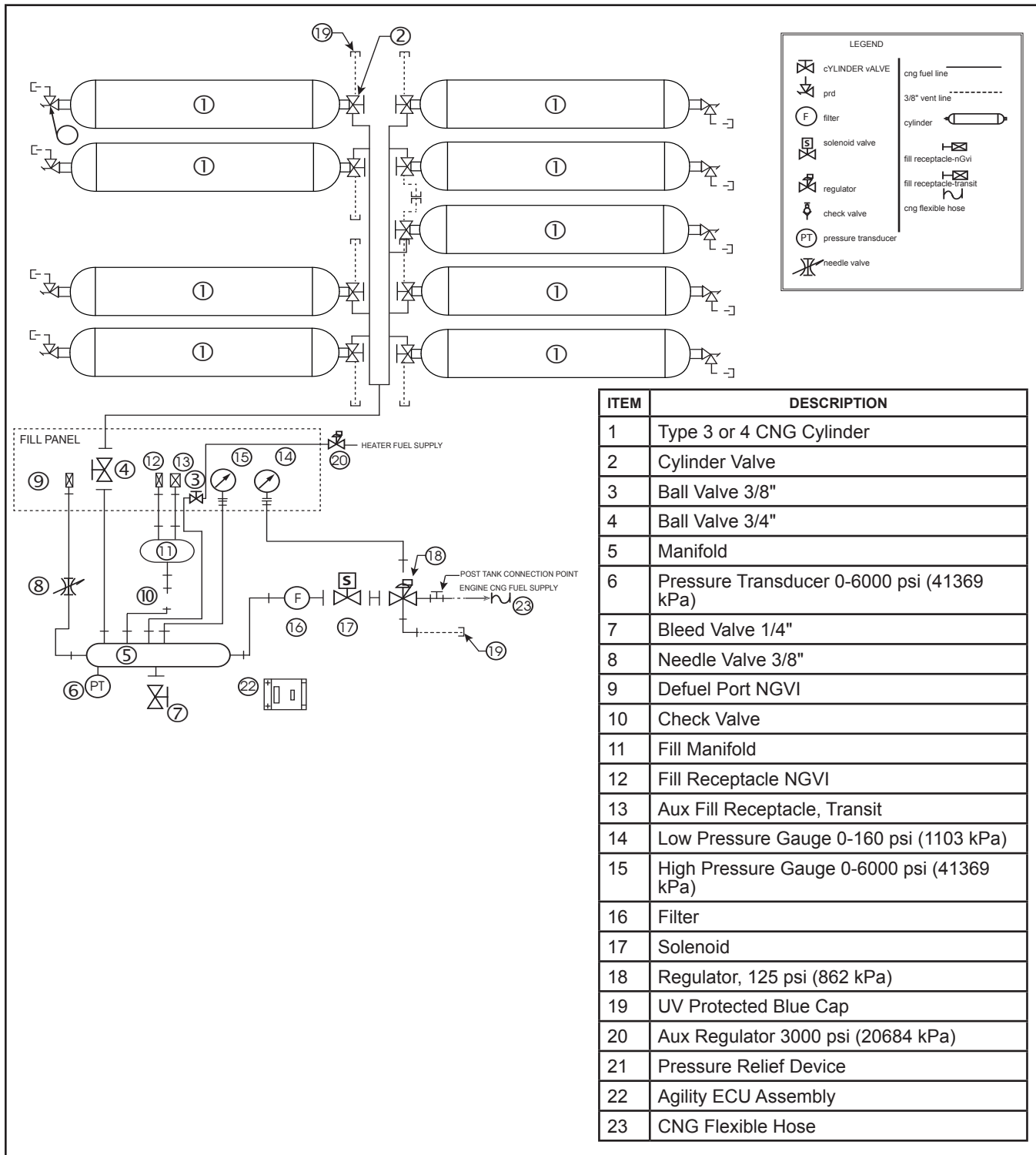


Figure 3 - CNG System Schematic

- 1.5. Locate the dust cap of PRD Vent pipe at right side of the rear roof unit of the vehicle.



Figure 4 - Dust Cap of PRD Vent Pipe Location

- 1.6. If PRD cap is present, bypass steps 1.7 and 1.8.  
1.7. Disconnect the tube from the Fuel Fuel Management Module (FMM).



#### CAUTION

**Do not force compressed air into the Fuel Fuel Management Module (FMM) or into the vent tube while it remains connected to the (FMM).**

- 1.8. Inspect the junctions and tube for accumulation of debris and clean with compressed air if needed.  
1.9. Insert the new heat shrink cap to the tube end.



#### WARNING

**There are serious risk of danger to consider.**

**It's very important to put in place security measures when using a heat gun on a CNG lines.**

**No gas leakage should be present when you use a heat gun.**

- 1.10. Use heat gun to seal the cap to tube end by following procedure.
- 1.10.1. Set the heat gun temperature to "Low." There is no need to calibrate the temperature of the heat gun output.
  - 1.10.2. Make sure the heat gun is always moving as you heat the cap to prevent scorching and burning with the cap or the fuel system cabinet.
  - 1.10.3. Heat until adhesive starts to flow from the edge of the cap. The required temperature at the surface of the cap is min. 275°F (135°C) to shrink the cap and activate the adhesive.

**NOTE**

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**Refer section 09: STARTING SYSTEM of Nova Bus Maintenance Manual for safety measures to be followed before starting the engine.**

- 1.11. Set the battery disconnect switch in the battery compartment to the ON position.
- 1.12. Turn the emergency shut-off valve of Fuel Management Module (FMM) to ON position.
- 1.13. The vehicle may be returned to service.❖