

## **Vehicle Safety Recall - Technical Service Bulletin**

### ***PROMPT ACTION REQUIRED***

**Attention:** McNeilus Product Owner  
**Subject:** Twin Vertical CNG with Luxfer Valves  
**Models Affected:** Bridgemaster RDM, Standard RDM, S-Series FDM  
**Model Year:** 2016-2018  
**Date:** January 2019

#### **Purpose:**

McNeilus Truck and Manufacturing, Inc. has decided that a defect which relates to motor vehicle safety exists in certain Bridgemaster mixer, Standard mixer, and S-Series mixer trucks with optional composite CNG type 4 Vessel. McNeilus has identified that some trucks equipped with Luxfer One-Turn valves (OTV) attached to various Luxfer CNG tanks may experience a valve separation. An operator when operating one of the Luxfer OTV may experience a valve body separation when turned on after being turned off. If the OTV valve body separates, it may strike the operator resulting in a possible injury, and lead to fuel leak of the CNG fuel, resulting in a possible fire or explosion, causing possible injuries to nearby persons or property damage to nearby structures or property.

#### **Affected Vehicles:**

The affected vehicle population is McNeilus Bridgemaster mixers, Standard mixers, and S-Series mixers with twin vertical CNG units with Luxfer valves produced between December 2016 and September 2018. This procedure will instruct how to remove and replace the valve with another valve from a different manufacturer that will function properly as well as specific tubes and fittings on each CNG tank. Please refer to the attached VIN list of affected vehicles.

#### **Time Completion:**

Upon receipt of the parts, complete the enclosed procedure for each affected unit. The time of accomplishment may vary due to a number of factors; however, the estimated time for completion of the procedure is 1.5 hours per tank under normal circumstances.

#### **Required Action:**

Review and verify your ownership of all affected serial numbers of McNeilus vehicles. If McNeilus records indicate that you are the owner of one or more affected units, a Serial Number List is enclosed. **Please be reminded that it is a violation of Federal law for you to sell or lease the vehicles covered by this notification until this recall has been performed on these vehicles. Substantial civil penalties apply to violations of this law.** If the CNG fuel system needs to be turned off, follow the instructions included in your owner's manual for proper fuel shut-off by using the shut-off valves located near the CNG fuel center. The Luxfer valves should only be used if the CNG fuel system is being serviced. If the main service valve is turned off for any reason, do not turn the valve back on until the repair is completed.

**Reimbursement of Costs:**

Affected units shall be repaired using the customer’s own qualified service technicians - at no cost to the owner. The repairs should take approximately 1.5 hours per tank.

**Labor Reimbursement:**

In order to receive credit, claims are to be submitted through the normal warranty claim system. Claims must be received within 30 days of the repair. Claims must include the McNeilus serial number of the vehicle, the customer asset number, and the number of this bulletin.

**Parts Reimbursement:**

Parts and ground shipping will be reimbursed to the customer. Parts necessary for this repair must be ordered from McNeilus Parts at 888-686-7278.

Claims are to be submitted through the normal warranty claim system. Claims must be received within 30 days of the repair. Claims must include the McNeilus serial number of the vehicle, the customer asset number, and this bulletin’s number.

**Contacts:**

If you have questions or need further information, please contact a McNeilus National Service Representative at 888-686-7278.

**Enclosures:**

- Valve and tube replacement procedure
- VIN List of Affected Vehicles

<b>SAFETY NOTICE</b>
Perform your company’s Lockout/Tagout procedure. If your company does not have a Lockout/Tagout procedure, follow OSHA 1910.147 and 1910.146 Confined Space as appropriate.

<b>SAFETY NOTICE</b>
Wear face shield and safety goggles when operating defective valve.

<b>SAFETY NOTICE</b>
Use appropriate Personal Protective Equipment (PPE) as required by your company.

<b>SAFETY NOTICE</b>
Wear gloves when operating defective valve.

<b>SAFETY NOTICE</b>
Do not operate valve unless servicing CNG fuel system.

<b>SAFETY NOTICE</b>
Wear fall protection if operating valve at heights - on a ladder or on top of vehicle.

**PROCEDURE: Remove and replace Luxfer valves with another valve and specific fittings**

**Tools and Equipment Required (Customer to supply own):**


- Set of wrenches
- Torque wrench (ft.-lbs.)
- Leak detection equipment

**Parts Required (Order from McNeilus):**


Rear Discharge Mixer (RDM) Twin Vertical CNG System				
Item	Part Number	Description	Qty. per tank	Qty. per entire system
1	1479550	Valve,MAN,CNG,Beta	1	2
2	1542128	FTG,90 8FS-6SAE MM SS	2	4
3	1487506	FTG,PLUG 6 ST INHEX	2	4

Front Discharge Mixer (FDM) Twin Vertical CNG System				
Item	Part Number	Description	Qty. per tank	Qty. per entire system
1	1479550	Valve,MAN,CNG,Beta	1	2
2	1542128	FTG,90 8FS-6SAE MM SS	2	4
3	1487506	FTG,PLUG 6 ST INHEX	2	4

1. Follow the defueling process found in the operator’s supplement manual that was provided with your vehicle. If you require another copy, download one by going to [streetsmartparts.com](http://streetsmartparts.com).


** DANGER**

**KEEP THE EQUIPMENT AREA WELL VENTILATED.** CNG is considered to be non-toxic by inhalation. The effects of inhalation of high concentrations may cause the same effects as asphyxiation. This includes central nervous system depression such as dizziness, drowsiness, headache, and similar narcotic symptoms, but no long-term effects if removed from the exposure area. Numbness, a “chilly” feeling, and vomiting have been reported from accidental exposures to high concentrations. Failure to follow will cause serious personal injury or death.

** WARNING**

Never purge the tanks in an enclosed area. Be sure there are no sources of ignition in the area.

Failure to comply may result in explosion, fire, or serious personal injury or death.

** WARNING**

PRD lines are always pressurized. The tanks the lines are connected to must be completely depressurized prior to working on this plumbing.

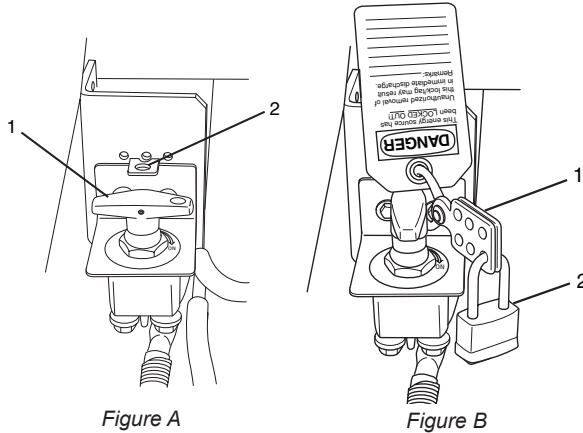
Failure to completely depressurize the lines may result in serious personal injury or death.

2. Perform your company’s Lockout/Tagout procedure. If your company does not have a Lockout/Tagout procedure, follow OSHA 1910.147 and 1910.146 Confined Space as appropriate. Chock the vehicle’s wheels and place the vehicle in park with the parking brake engaged.

3. Battery Disconnect Switch

If your vehicle is equipped with a BATTERY DISCONNECT switch, it is located near the battery box. Use the battery disconnect switch when performing any maintenance so the vehicle cannot accidentally be started.

1. Turn the battery disconnect switch (Figure A, Item 1) counterclockwise so the hole on the switch aligns with the hole in the bracket (Figure A, Item 2).
2. Install the safety lockout device ring (Figure B, Item 1) through the holes on the battery disconnect switch and the bracket.
3. Install a padlock (Figure B, Item 2) onto the safety lockout device ring, lock it, and put the key in your pocket. If more than one person is working on the vehicle, each person must install his or her own padlock.



### Battery Cable Disconnect

#### **WARNING**

For trucks without a battery disconnect switch, to prevent accidental vehicle start-up, which could cause death or serious injury, disconnect battery cables (negative cable first) before proceeding.

Disconnect negative (-) battery cable first. If positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury.

4. Refer to the illustration in Figure 1 to disconnect the hoses and remove the Luxfer valve and highlighted fittings (highlighted in blue) from both CNG tanks in the system for the rear discharge mixer. Discard the Luxfer valves.

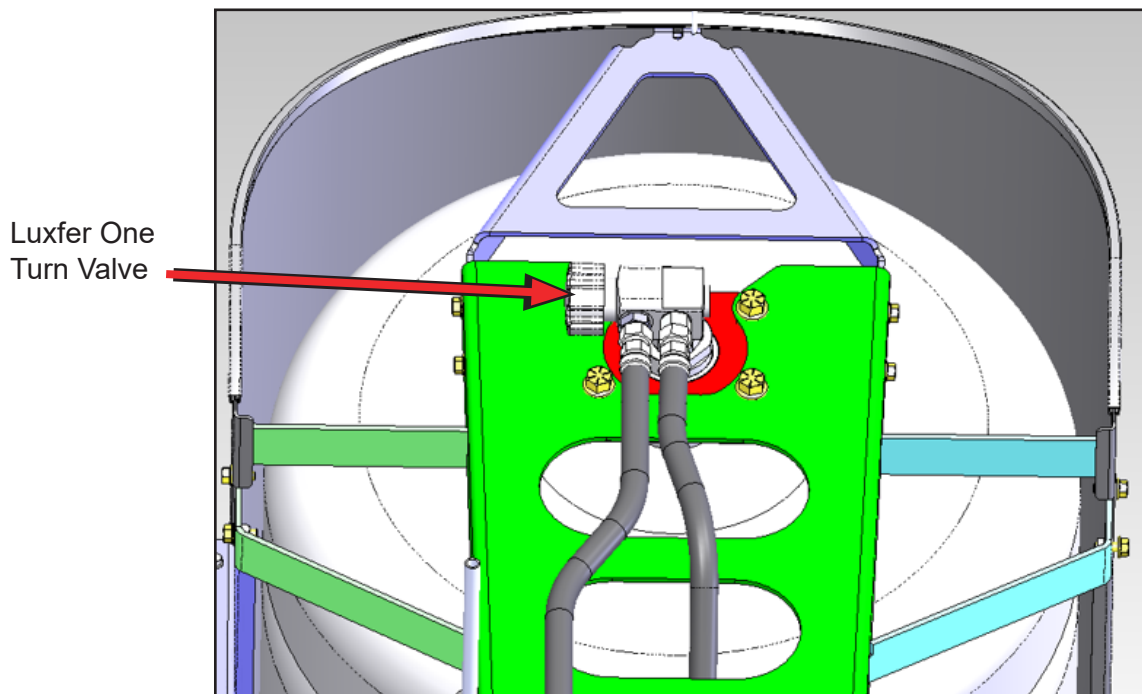


Figure 1

5. Install replacement fittings, plugs, and new OMB valves according to the illustration below (Figure 2) on each tank.
6. Reconnect the hoses. **NOTE:** The PRD vent hose connects to the live port and the tank hose connects to the tank feed port.

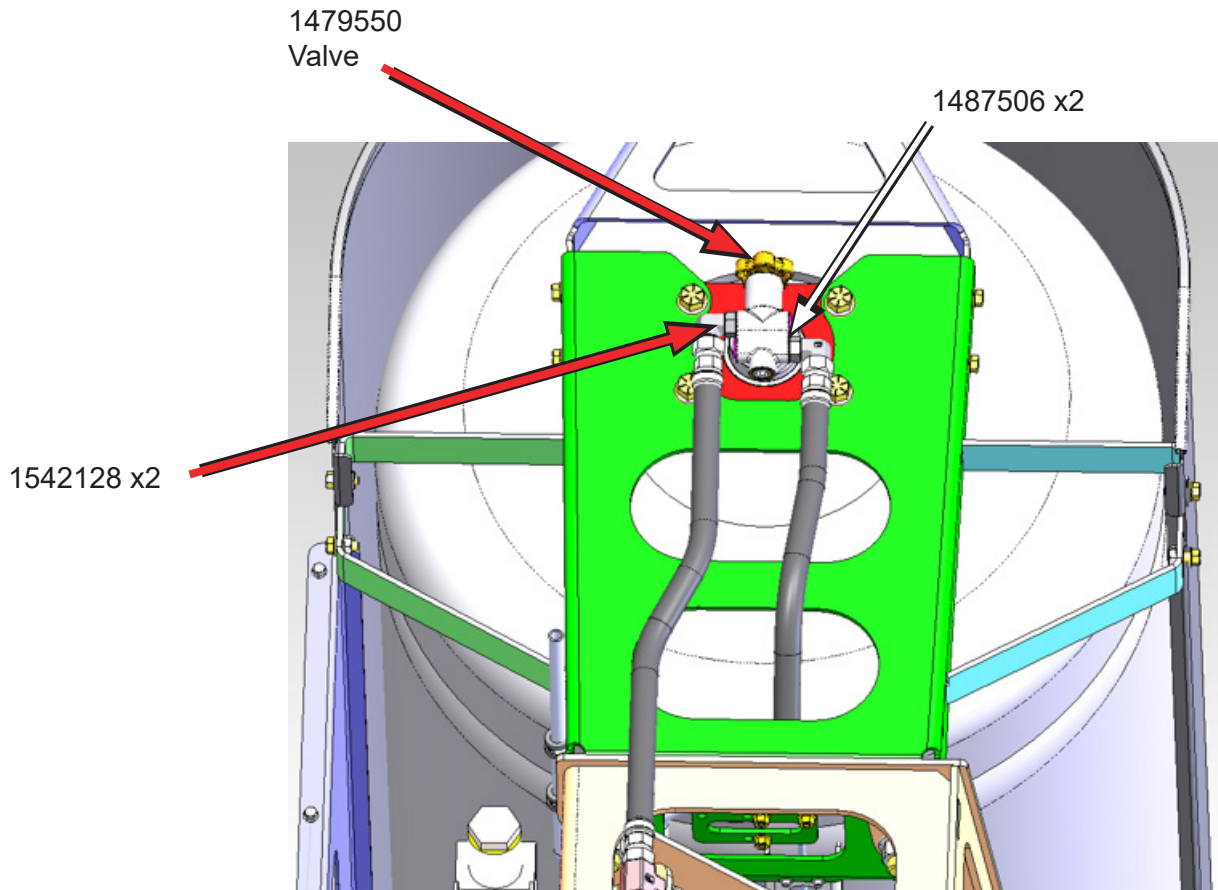


Figure 2

7. Use a torque wrench to torque the fittings to 60 ft.-lbs and the valve to the tank to 80 ft.-lbs.
8. Open all manual shut-off valves on the CNG tanks.
9. Follow the fueling process found in the operator's supplement manual that was provided with your vehicle. If you require another copy, download one by going to [streetsmartparts.com](http://streetsmartparts.com).
10. Test for leaks at the installed parts using a leak detection fluid or sniffer.
  - If leaks are found, retighten fittings and retest for leaks.
  - If no leaks are found, the procedure is complete.
11. Remove your company's Lockout/Tagout procedure. If your company does not have a Lockout/Tagout procedure, follow OSHA 1910.147 and 1910.146 Confined Space as appropriate. Remove the chocks from the vehicle wheels and release park brake.
12. Record the following information on a piece of paper and keep it with the removed Luxfer valves.
  1. Truck information: VIN, model number, body serial number, miles on truck
  2. Information on the CNG tanks the valves were attached to (such as size of tank in DGE)
  3. Service location of the vehicle (company name, street address, city, and state)
  4. Date and time the valves were removed from the vehicle.
  5. Note any issues with valve removal (e.g., difficult to remove, damage noted on valves after removal).

6. Return vehicle to service.



**(888) 686-7278**

**[www.streetsmartparts.com](http://www.streetsmartparts.com)**