



## **TECHNICAL SERVICE BULLETIN**

**SB-17-015 CONVENTIONAL AIR SUSPENSION  
DUMP VALVE INOPERATIVE**

**GROUP: 48-SUSPENSION  
BULLETIN NO: SB-17-015  
DATE: 10-31-2017  
REFERENCE: HMM-170519-J1**

**SUBJECT VEHICLES:** Certain 15MY-16MY Conventional Trucks equipped with the rear air suspension dump valve.

**Note:** This service bulletin is provided as technical information and is not authorization for a warrantable repair.

**OVERVIEW:**

A subject vehicle may experience an inoperative air suspension dump function due to a failed dump valve. An updated dump valve, and dump valve brackets are available to address this condition. Note that the updated brackets **MUST** be used in conjunction with the updated valve.

**BEFORE YOU BEGIN:**

- Read and understand all instructions and procedures before you begin the work.
- Read and follow all **WARNINGS** and **NOTICES** set forth in this publication. These alerts help to avoid damage to components, serious personal injury, or both.
- Park the vehicle on a flat, level and solid surface.
- Place the gear shift lever in "Neutral" or "Park".
- Apply the parking brake firmly and confirm parking brake activation.
- Turn off the engine and remove the key from the ignition switch.
- Always wear safety glasses or goggles to protect your eyes.
- Place wheel chocks in front of and behind all the wheels to prevent the vehicle from moving.

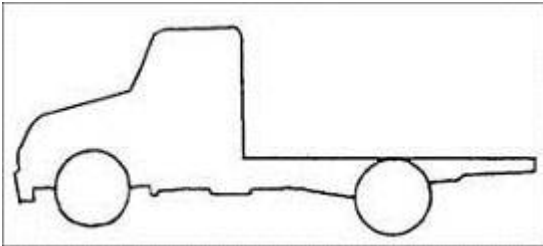


## PARTS:

| PART NUMBER | DESCRIPTION             | QUANTITY |
|-------------|-------------------------|----------|
| 27690-E0390 | Solenoid Assembly       | 1        |
| 44182-E0180 | Bracket, Solenoid Valve | 1        |
| 44182-E0190 | Bracket, Solenoid Valve | 1        |

## VEHICLE PREPARATION

1. Park the vehicle on a flat, level and solid surface.



2. Confirm the engine is stopped, the ignition switch is in the off (LOCK) position, and the key is removed.



3. Apply the parking brake.



4. Chock all of the wheels.



## REPAIR PROCEDURE:

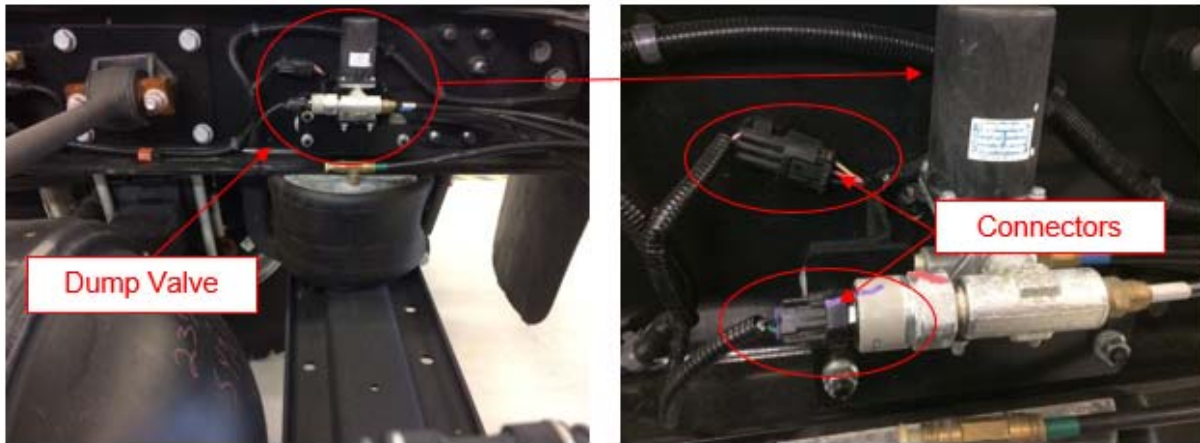
1. If functional, with the ignition on, enable the dump function of the rear air suspension to drain air pressure from the rear air springs by pressing the down arrow on the dump switch.



2. Completely drain the vehicles air tanks by rapidly pumping the brake pedal dozens of times with the engine off. Turn the ignition on to verify the gauges show zero air pressure in the tanks. Depress the drain valve on each air tank to ensure the tanks have been fully drained of all air pressure. Turn the ignition key to the off (Lock) position and remove the key.



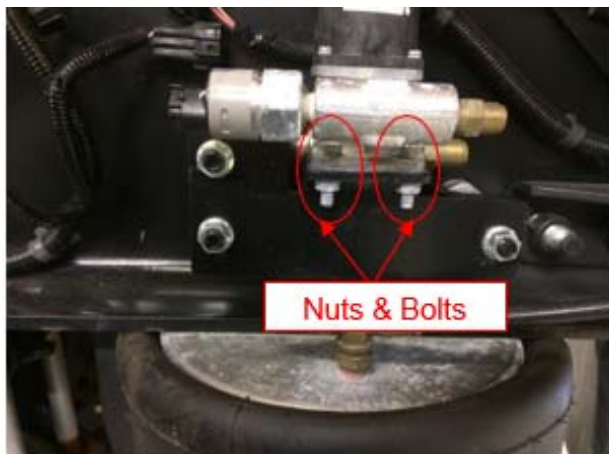
3. Unplug the 2 electrical connectors from the dump valve solenoid.



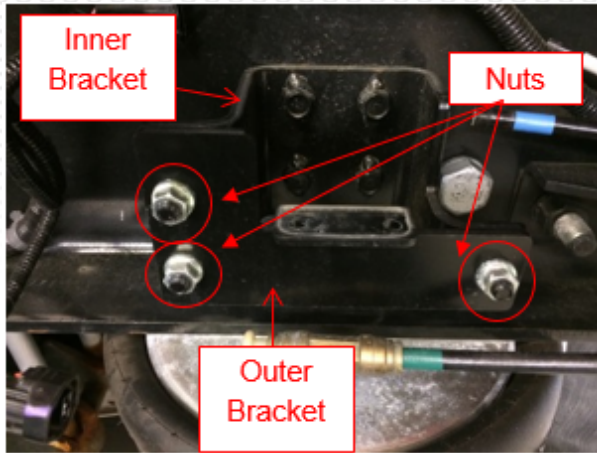
4. Remove the 2 air lines from the dump valve. Begin by first pushing in one of the plastic lines, then depressing the metal collar around the line, and then pulling back on the air line to remove it from the fitting. Repeat this procedure with the second plastic line.



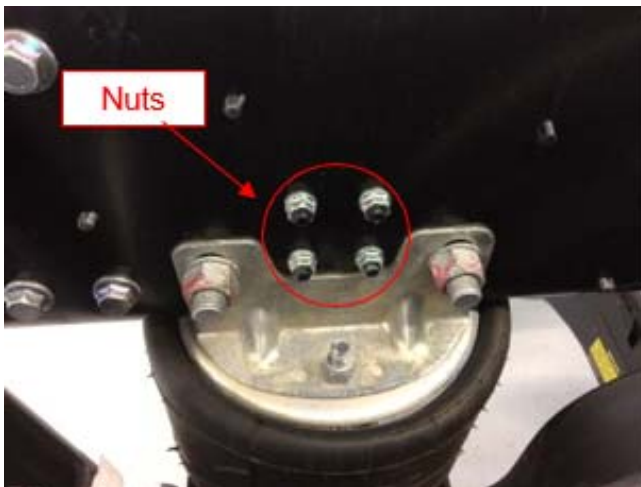
5. Remove the 2 nuts and bolts that secure the dump valve to the bracket and retain for reinstallation. Set the dump valve aside.



6. Remove 3 nuts that secure the outer bracket to the inner bracket and retain for reinstallation. Discard the outer bracket. The old bracket is not intended for use with the updated dump valve.

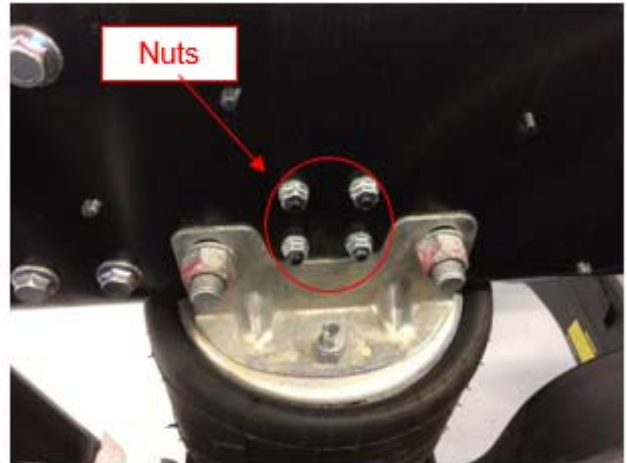
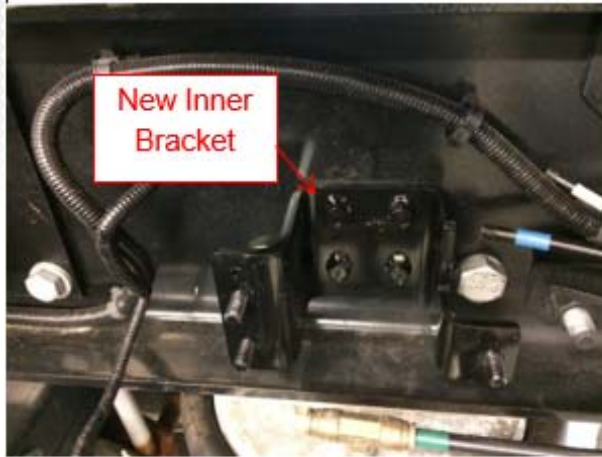


7. From the outside of the right frame rail, remove the 4 nuts that secure the inner bracket to the frame rail and retain for reinstallation. Discard the inner bracket. The old bracket is not intended for use with the updated dump valve.



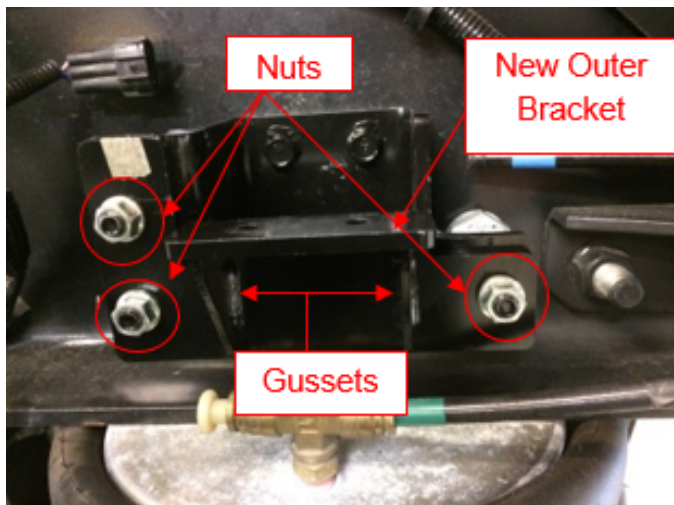
8. Install the new inner bracket to the frame rail using the 4 nuts previously removed. Tighten the nuts to the specified torque.

**Specified Torque:** 38 lb-ft (51 Nm)

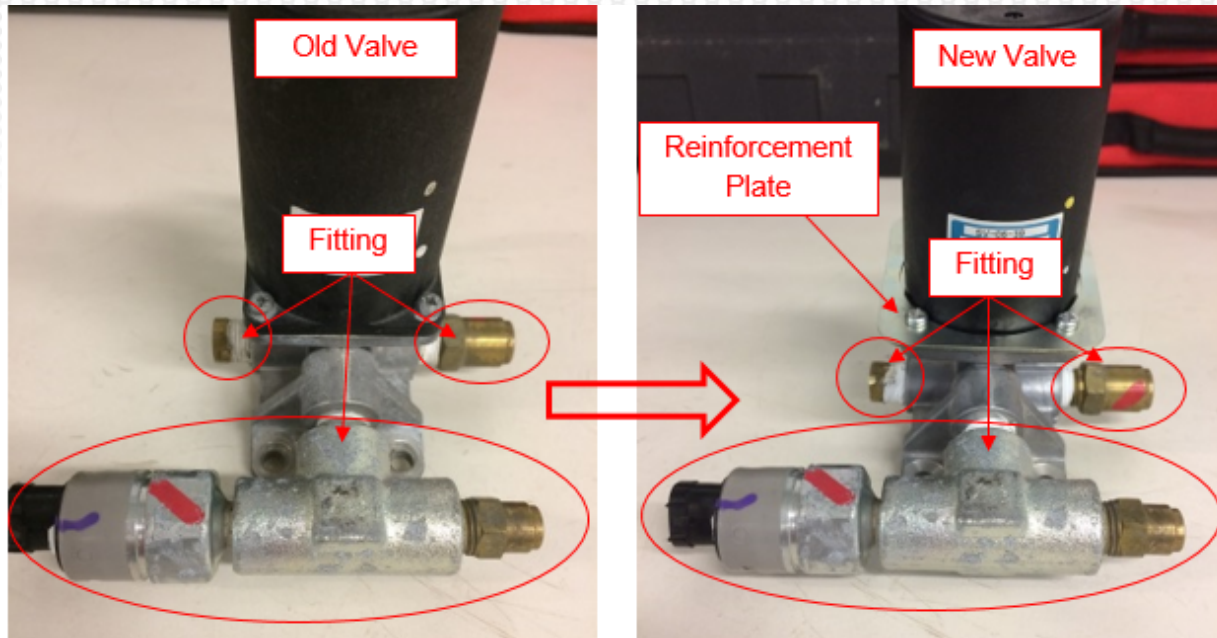


9. Install the new outer bracket using the 3 nuts previously removed. Note that the new outer bracket has reinforcement gussets. Tighten the nuts to the specified torque.

**Specified Torque:** 38 lb-ft (51 Nm)

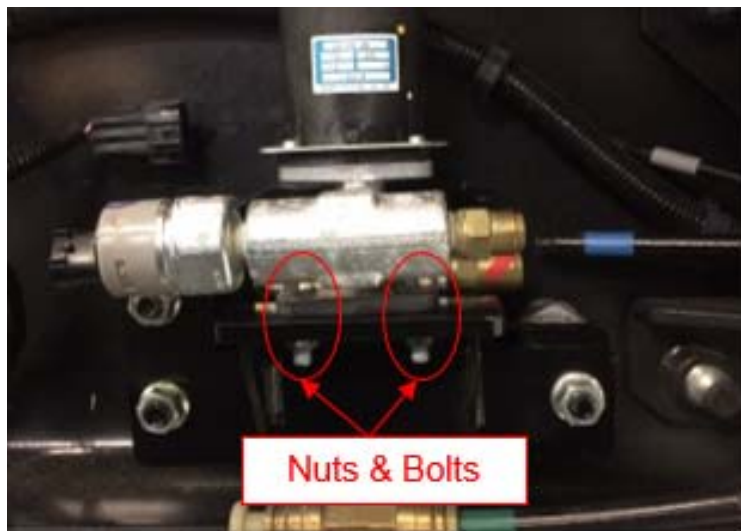


**10.** Transfer the air fittings from the old dump valve to the new dump valve. Use teflon tape or pipe thread sealer on the threads of the fittings during installation. Note that the new dump valve has a metal reinforcement plate. Discard the old dump valve.

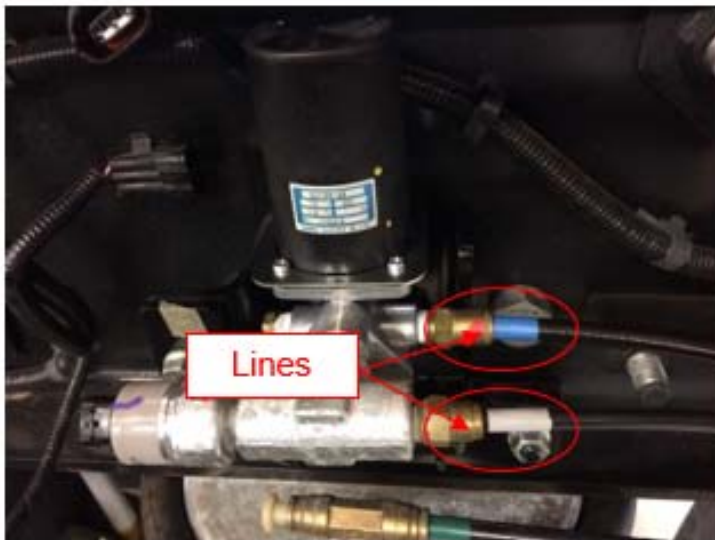


**11.** Install the 2 nuts and bolts that secure the dump valve to the bracket and tighten to the specified torque.

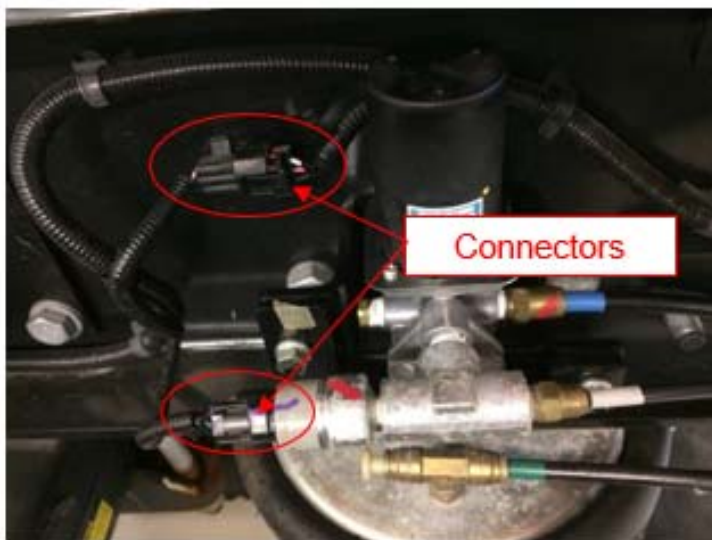
**Specified Torque:** 6 lb-ft (8 Nm)



**12.** Connect the 2 air lines to the dump valve. Pull on the air lines to make certain they are securely seated.



**13.** Connect the 2 electrical connectors to the dump valve. Make certain they are securely seated.



**14.** Start the engine and allow the air tanks to fill completely. The rear of the vehicle should rise to normal ride height. Validate the rear suspension dump function works properly by pressing the down arrow on the dump switch. The rear suspension should return to normal ride height by pressing “OFF” on the dump switch.



### **FINAL INSPECTION:**

1. To complete this TSB review and confirm the following:
  - The 2 updated brackets and the updated dump valve have been installed.
  - All nuts and bolts have been tightened to their specified torque.
  - Electrical connectors and air lines have been firmly seated.
  - No air leaks are present at the dump valve fittings or air lines connections.
  - The suspension dump function works properly.

**NOTE:** This procedure is provided as technical information and is not an authorization for a warranty repair.

**CLAIM APPLICATION:**

*\* Reimbursable in accordance within the terms and policies of the Hino Truck limited warranties.*

**Dump Valve Replacement:**

- Labor charge: 1.5 Hr.
- Warranty code: 54551
- Trouble code: 50
- Operation code: 54503ARE
- Original failed part: 27690E0310

