



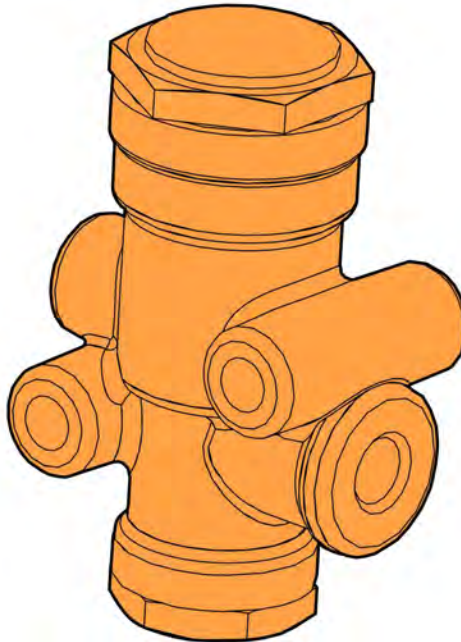
Pressure Reduction Valve, Replacement LEU

PI0844, Pressure Reducing Valve, Replacement

(April 2014)

Some MACK LEU trucks were built between 08/15/2012–11/05/2012, with an inversion valve installed instead of a pressure reducing valve for the work brake system. The existing inversion valve (part number 21007503) may cause maximum brake system pressure while applying the truck's work brake. The new pressure reduction valve (part number 25157242) will gradually regulate the proper brake system pressure to 379 kPa (55 psi) while applying the truck's work brake.

Note: This bulletin does not apply to MACK Trucks Australia.



W5088414

Required Parts

Pressure Reduction Valve Parts			
Item	Qty	Part Number	Description
1	1	25157242	Pressure Reduction Valve

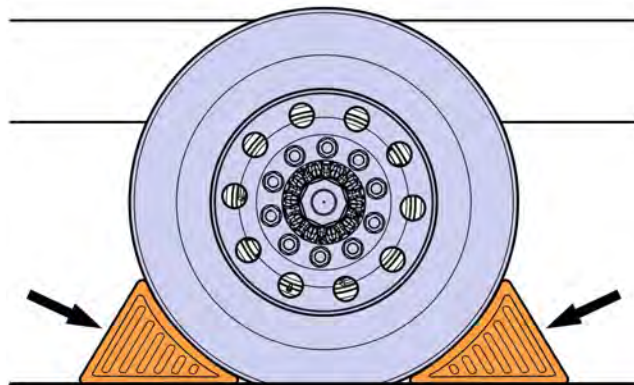
Valve Inspection

You must read and understand the precautions and guidelines in Service Information, group 50, "General Safety Practices, Brakes" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

DANGER

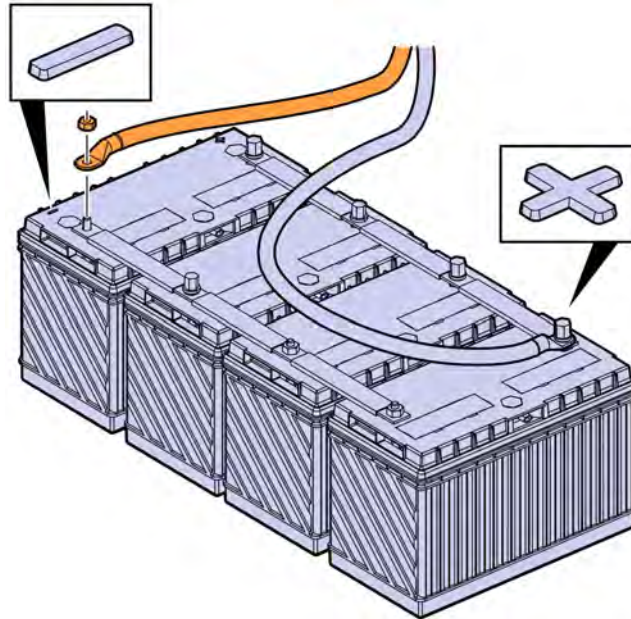
Do not attempt to repair or service this vehicle without having sufficient training, the correct service literature and the proper tools. Failure to follow this could make the vehicle unsafe and lead to serious personal injury or death.

- 1 Park the vehicle on a level surface.
- 2 Apply the parking brake.
- 3 Place the transmission in neutral or park.
- 4 Install the wheel chocks.



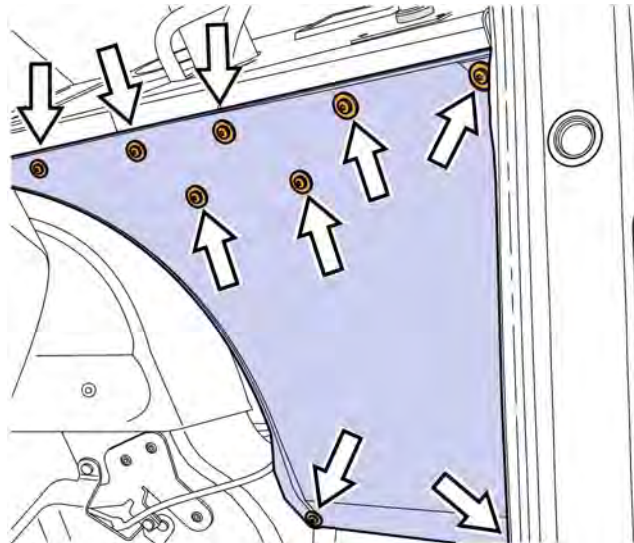
W7086748

5 Disconnect the cable from the battery's negative terminal.



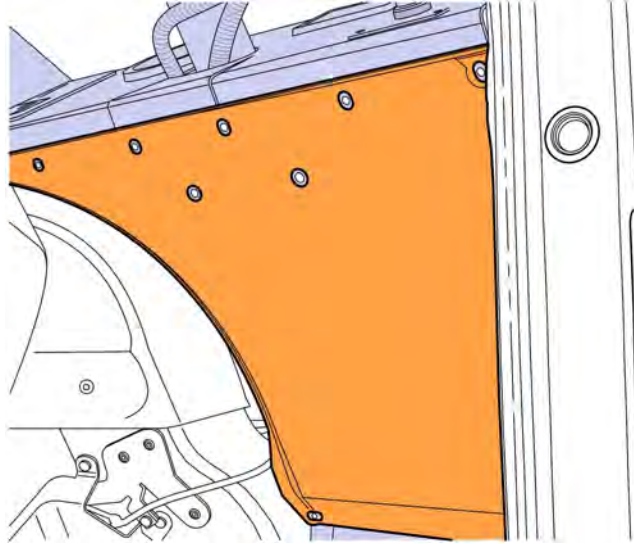
W3086747

6 Remove the fasteners securing the upper dash panel.



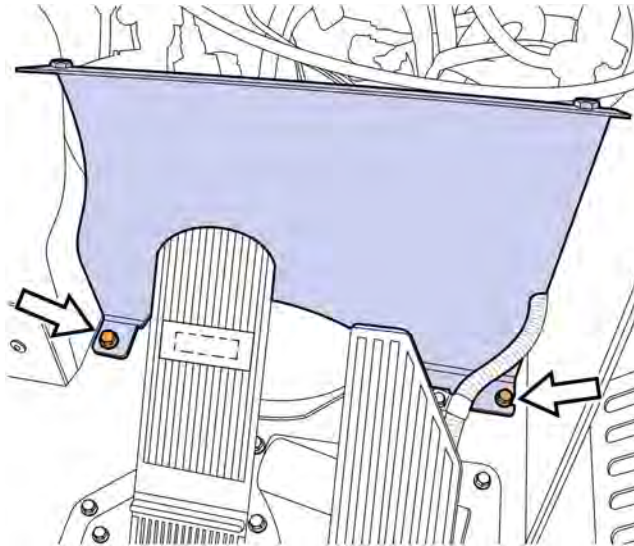
W5088415

7 Remove the upper dash panel.



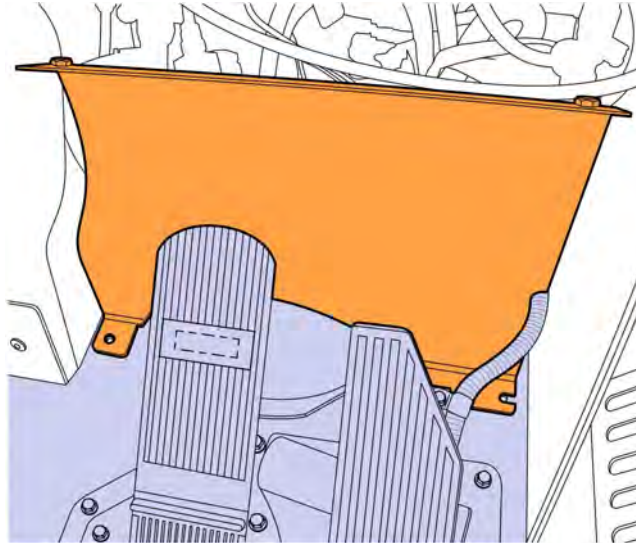
W5088416

8 Remove the fasteners securing the lower dash panel.



W5088417

9 Remove the lower dash panel.

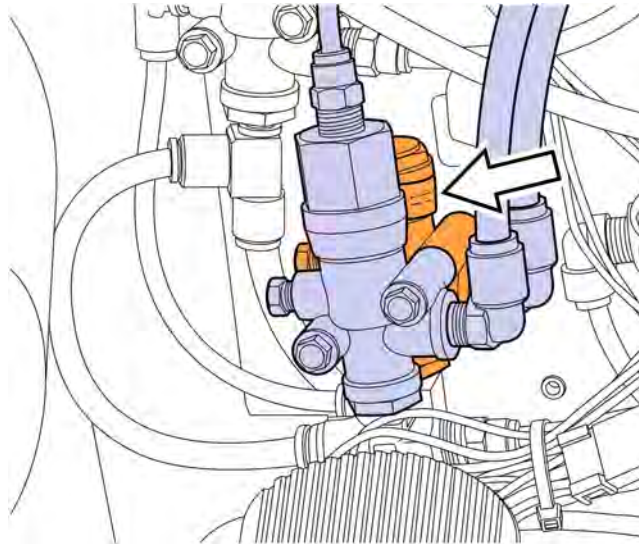


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10 Inspect the valve closest to the bulk head of the paired valves for part number 25157242.

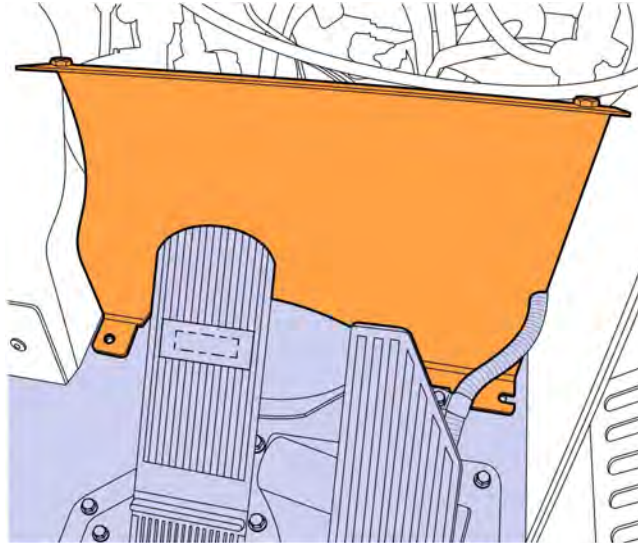
Note: If the inspected valve is a pressure reducing valve part number 25157242, go to step 11 and complete the inspection.

Note: If the inspected valve is an inversion valve part number 21007503, go to step 10, of Valve Replacement and install the pressure reducing valve.



W5088419

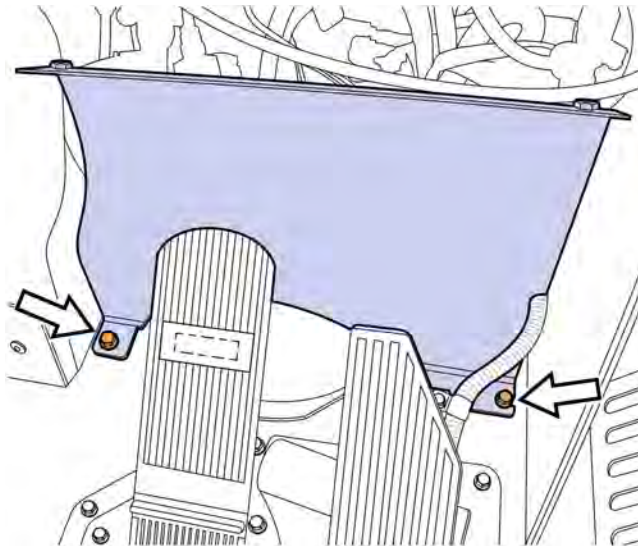
11 Install the lower dash panel.



W5088418

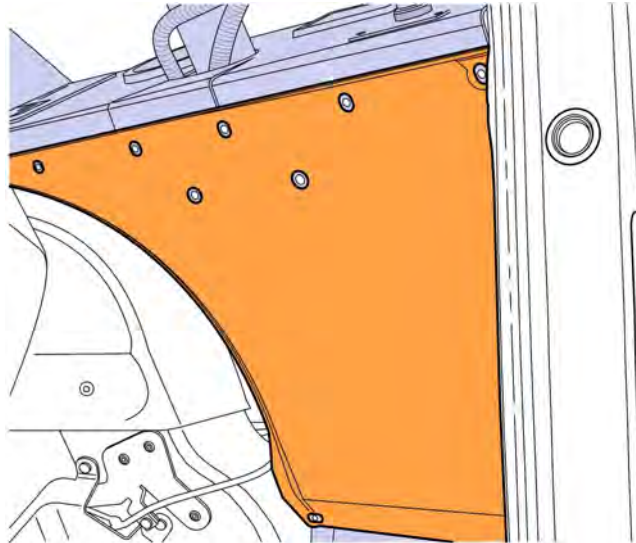
12 Install the fasteners securing the lower dash panel.

Note: Tighten the fasteners with hand tools only.



W5088417

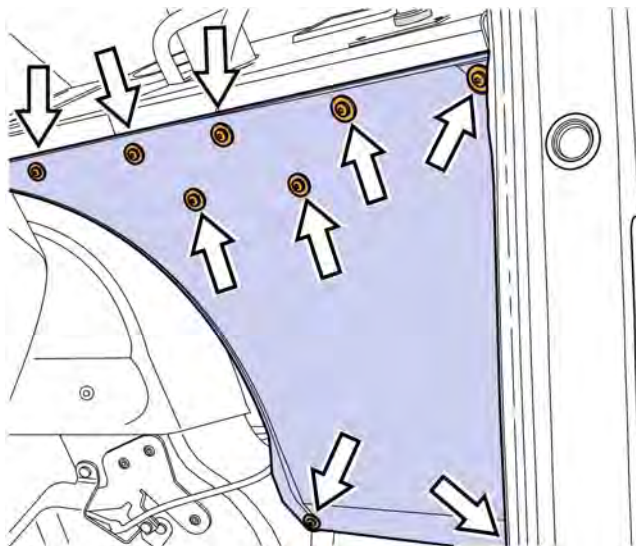
13 Install the upper dash panel.



W5088416

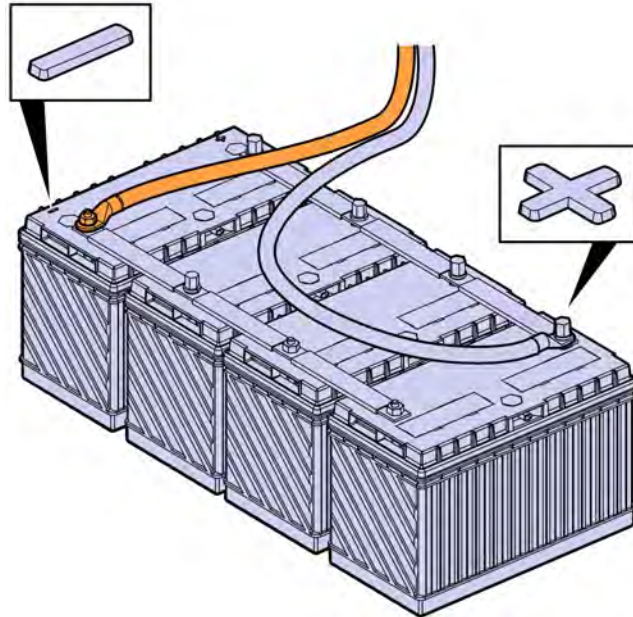
14 Install the fasteners securing the upper dash panel.

Note: Tighten the fasteners with hand tools only.



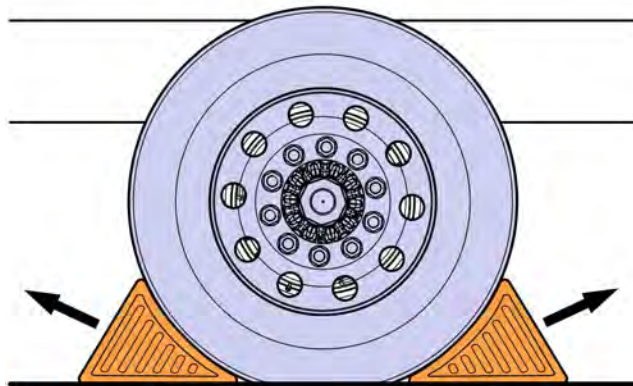
W5088415

15 Connect the battery cable to the negative (ground) terminal.



W3086758

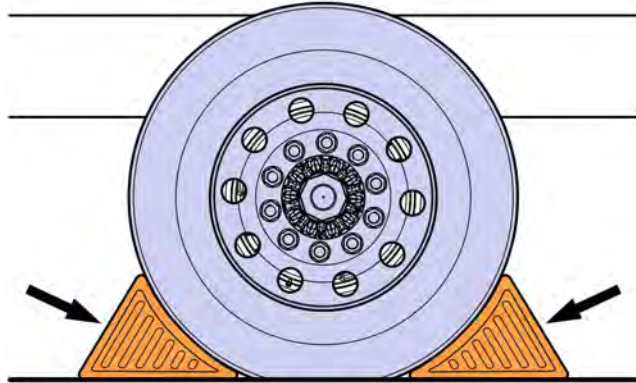
16 Remove the wheel chocks.



W7086759

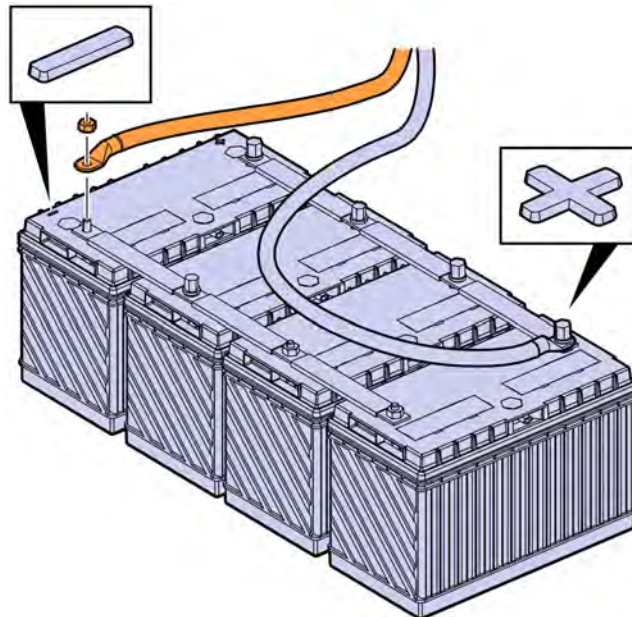
Valve Replacement

- 1 Park the vehicle on a level surface.
- 2 Apply the parking brake.
- 3 Place the transmission in neutral or park.
- 4 Install the wheel chocks.



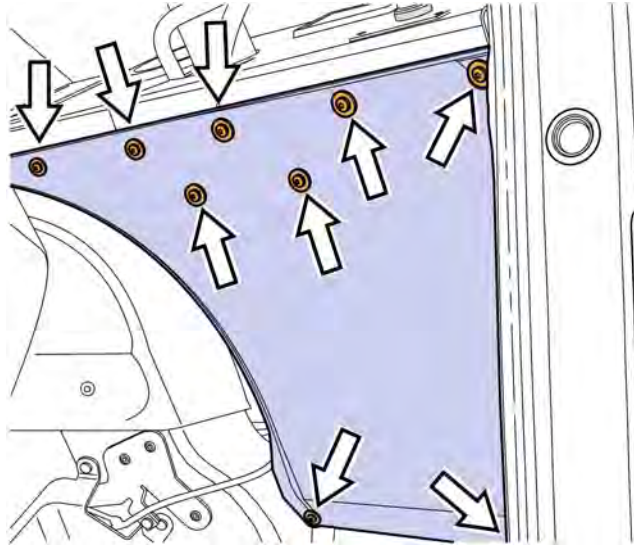
W7086748

- 5 Disconnect the cable from the battery's negative terminal.



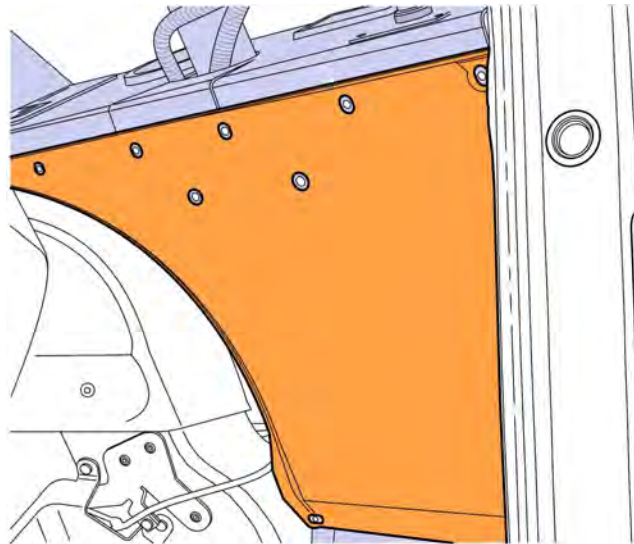
W3086747

6 Remove the fasteners securing the upper dash panel.



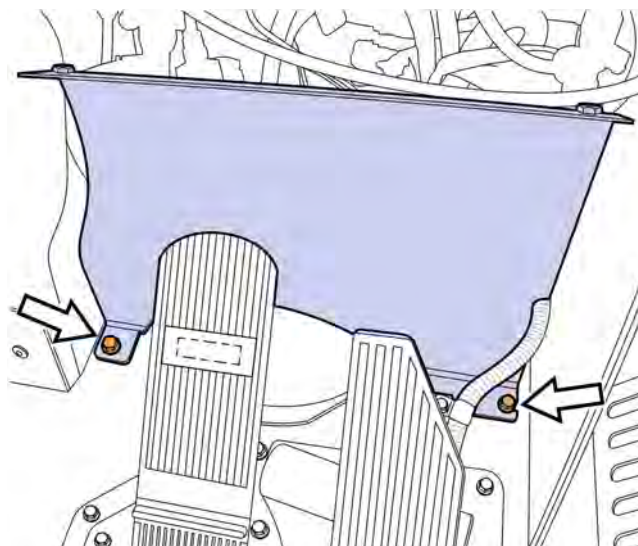
W5088415

7 Remove the upper dash panel.



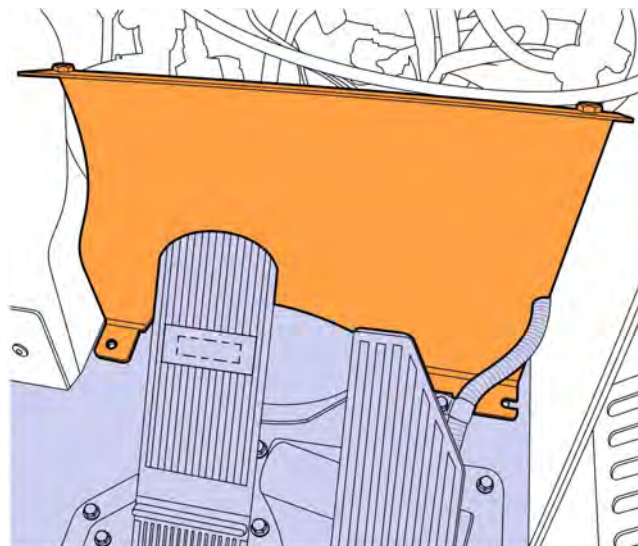
W5088416

8 Remove the fasteners securing the lower dash panel.



W5088417

9 Remove the lower dash panel.



W5088418

10 Drain the air system.

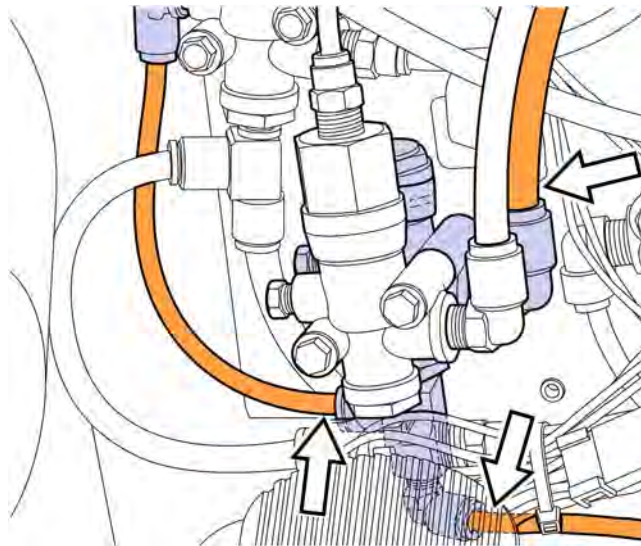
11 Disconnect the air lines from the inversion valve (part number 21007503).



CAUTION

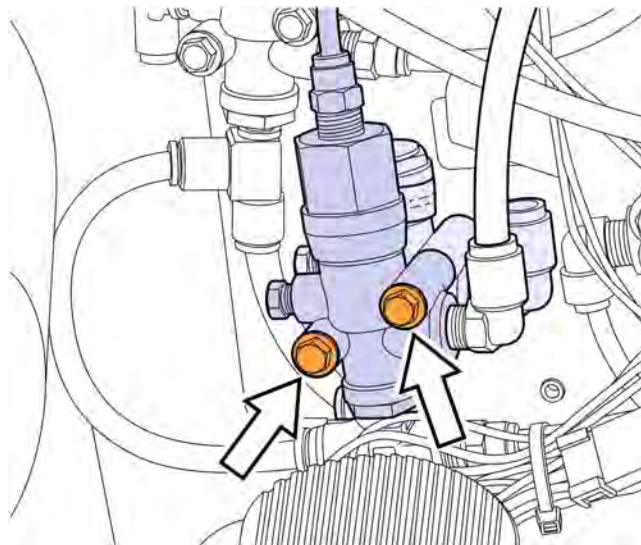
There may be some residual air pressure in the air lines.

Note: Note the orientation of the air lines before removal.



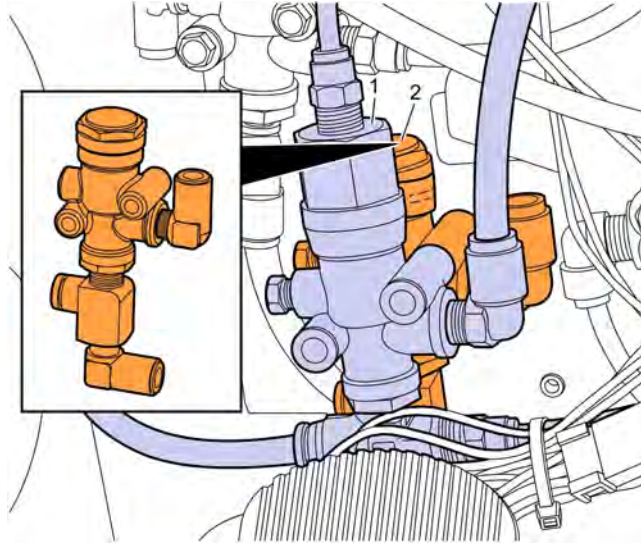
W5088420

12 Remove the fasteners securing the inversion valve.



W5088421

- 13 Position the inversion valve (1) away from the valve to be replaced (2).
- 14 Remove the inversion valve (2).

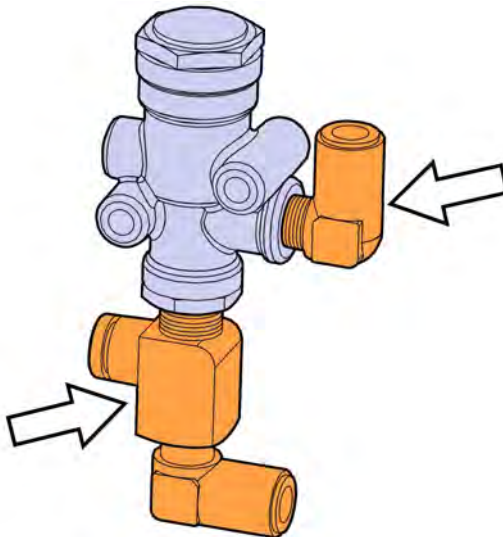


W5088422

- 15 Remove the valve fittings from the inversion valve.

Note: Note the orientation of the valve fittings before removal.

Note: Secure the valve fittings for reuse.

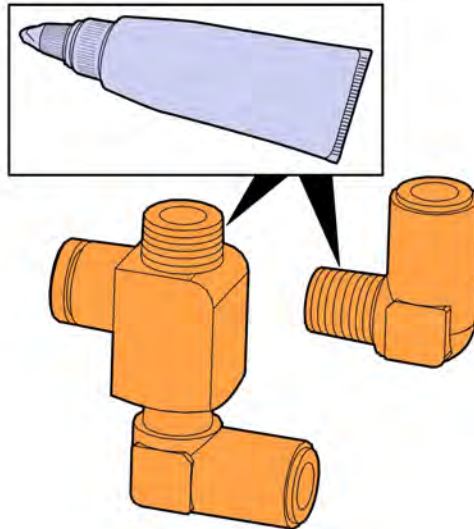


W5088423

16 Remove any old pipe thread sealant from the valve fittings.

Note: Thoroughly clean the valve fittings of any debris.

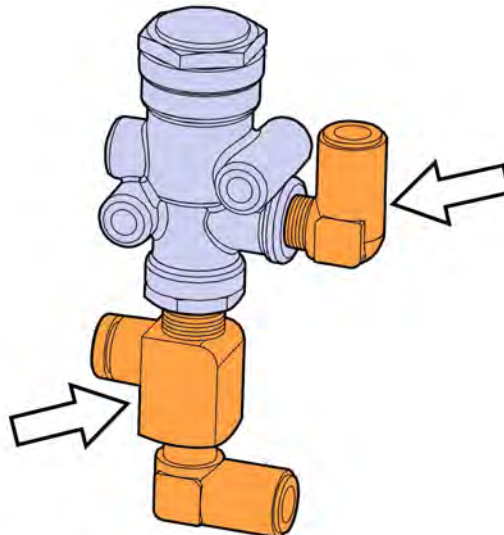
17 Apply thread sealant to the valve fittings before assembly.



W5088424

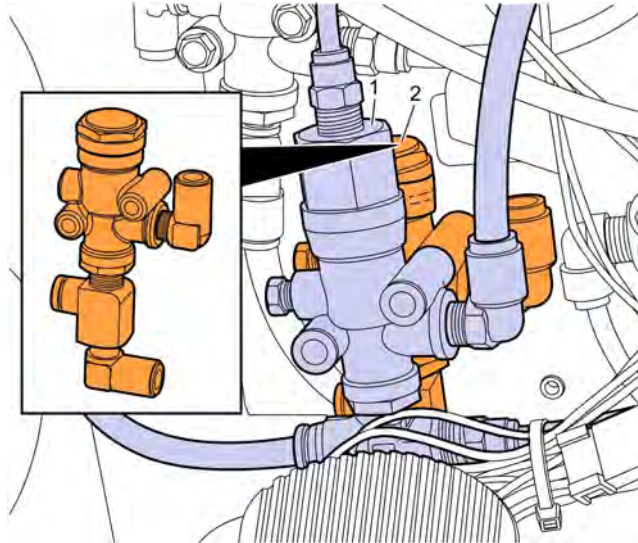
18 Install the valve fittings to the new pressure reducing valve (part number 25157242).

Note: Ensure the valve fittings are oriented as noted during removal.



W5088423

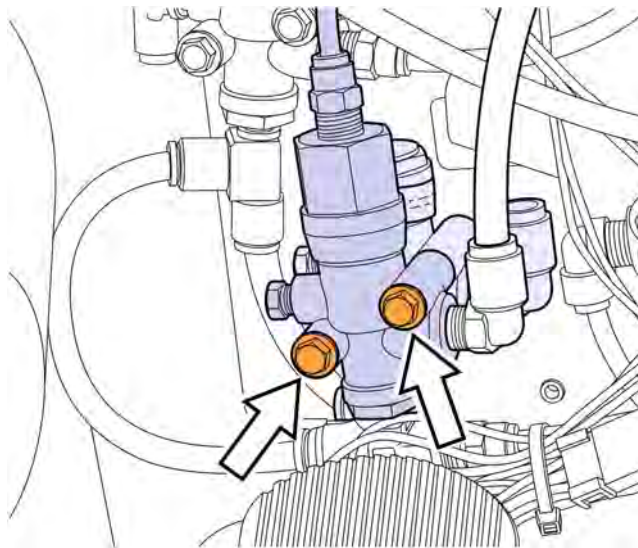
19 Position the pressure reduction valve (2) and inversion valve (1) as shown in figure below.



W5088422

20 Install the fasteners securing the pressure reducing valve.

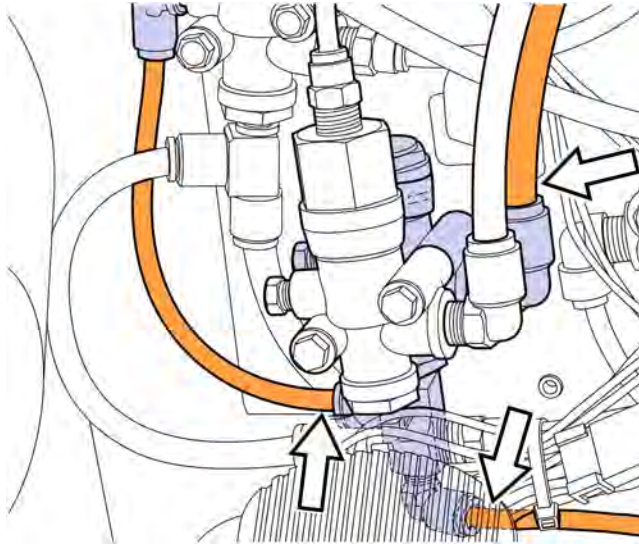
21 Tighten the fasteners to 10.4 Nm (92.4 in-lb).



W5088421

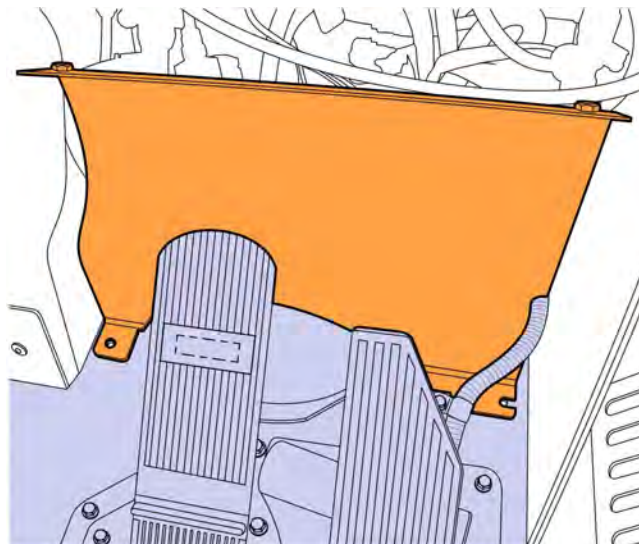
22 Connect the air lines to the pressure reducing valve fittings.

Note: Ensure the air lines are connected as noted during removal.



W5088420

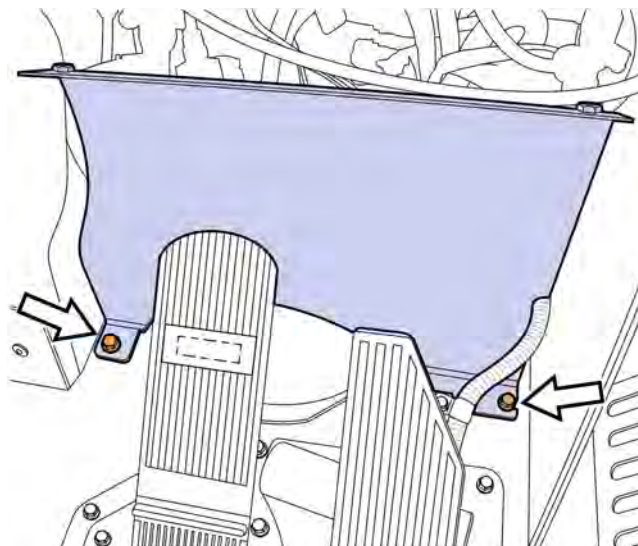
23 Install the lower dash panel.



W5088418

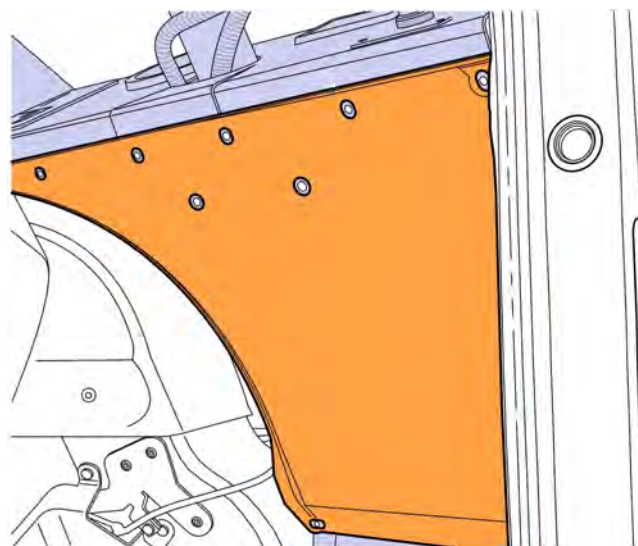
24 Install the fasteners securing the lower dash panel.

Note: Tighten the fasteners with hand tools only.



W5088417

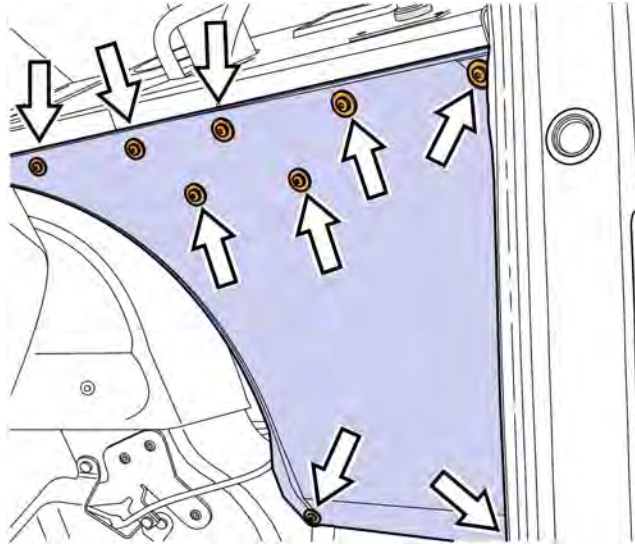
25 Install the upper dash panel.



W5088416

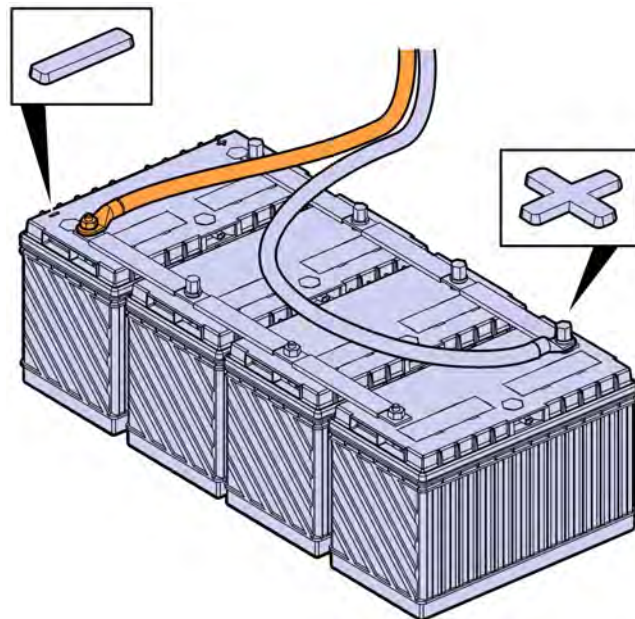
26 Install the fasteners securing the upper dash panel.

Note: Tighten the fasteners with hand tools only.



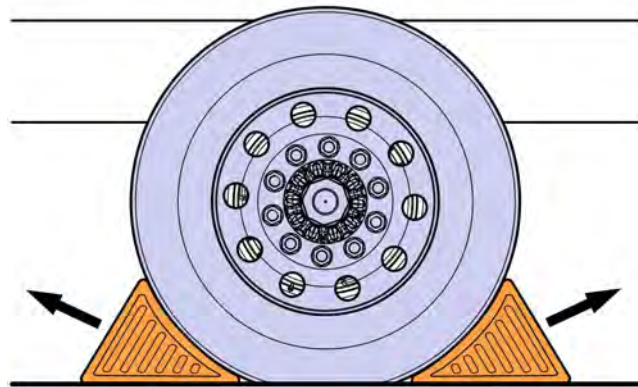
W5088415

27 Connect the battery cable to the negative (ground) terminal.



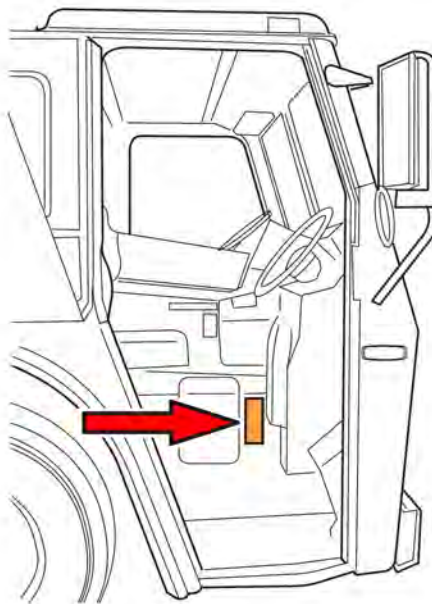
W3086758

- 28 Start and idle the engine until the proper brake system operating air pressure is attained.
- 29 Check and verify the brakes are operational.
- 30 Remove the wheel chocks.



W7086759

Note: To signify that the campaign has been completed, using a permanent-type marker (such as a Sharpie®) to write the campaign number (PI0844) and completion date in the spaces provided on the Campaign Completion label located inside the cab as shown in the illustration below. If a label is not already affixed inside the cab, apply a label (part No. TS897) and supply the information as required. Campaign Completion labels are available in packs of 50 and can be ordered by faxing a completed BR313 to Pacesetters Business Services at 610-264-9465.



W0037063

Reimbursement

This repair is covered by an authorized Service Program. Reimbursement is obtained through the normal claim handling process.	
Claim Type (used only when uploading from the Dealer Bus. Sys.)	B
Recall Status	
Vehicle inspected, repair not required	1- Inspected OK
Vehicle repaired per instruction	2- Modified per instruction
Labor Code	
Primary Labor Code Time for Valve Inspection	5314G-ZV-96 0.3 hrs
Primary Labor Code Time for Valve Inspection and Replacement	5314H-ZV-96 0.8 hrs
Time to take charge and determine campaign status	101AA-0A-00 0.3 hr.
Causal Part	21007503
Authorization Number	PI0844
Expiration Date	21-APR-15

Note: Take Charge Time is not included in the Labor Code for this operation. Take charge may be eligible but can only be used once per repair visit. If vehicle is having other warranty repairs performed, take charge should be charged to the warranty repair, otherwise take charge can be charged to this service program.