

Group:	61 – Cab & Body
Bulletin No.:	SB-14-001
Issue Date:	08/25/2014

SERVICE BULLETIN

OVERVIEW:

In the event that a cracked or broken cab step exists on the driver's side or passenger side of the subject vehicles, a revised cab step has been released with a reinforcement pipe that will increase the robustness of the cab step to reduce the chance of repeated cracking or breaking. Vehicles built on or before January 18, 2013 will also require a reinforcement bolt be installed in the multi-layer steel flange on both sides of the vehicle.

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

SUBJECT VEHICLES:

2012MY – 2014 MY COE (XFC710, XFC720, XFC740, XJC700, XJC710, XJC720, XJC740) vehicles that were assembled at the Hamura, Japan plants built on or before 7/31/2013.

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.
- Parking the vehicle on a level and solid surface and apply the parking brake.
- Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.
- Wear safety glasses to prevent eye injuries.
- Place wheel chocks in front of and behind all wheels.

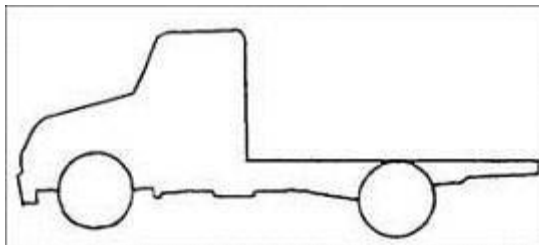
PARTS:

PART NUMBER	DESCRIPTION	QUANTITY
5830737110	Passenger Side Reinforcement Pipe	1
5830837090	Driver Side Reinforcement Pipe	1
5108337064	Passenger Side Cab Step	1
5108437053	Driver Side Cab Step	1
9017908184	Nut	0-2
9010908295	Bolt	0-2
9155180820	Bolt	2

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VEHICLE PREPARATION:

1. Park the vehicle on level ground.



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.



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NOTICE: This Technical Service Bulletin contains 3 different repair procedures.

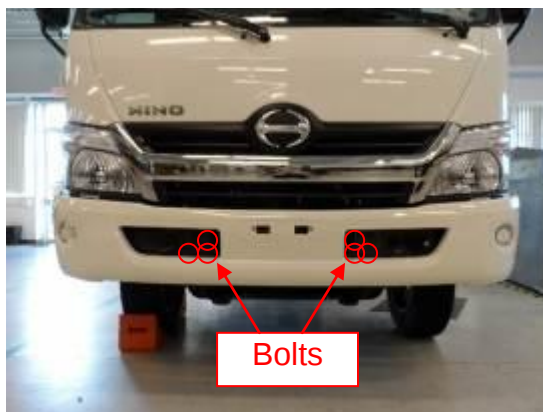
- Repair Procedure - A is for single cab vehicles built on or before January 18, 2013.
- Repair Procedure - B is for crew cab vehicles built on or before January 18, 2013.
- Repair Procedure - C is for both single cab and crew cab vehicles built after January 18, 2013.

Note: Some photographs will picture a single cab rather than a crew cab, but the applicable procedures for the crew cab will be similar.

REPAIR PROCEDURE – A:

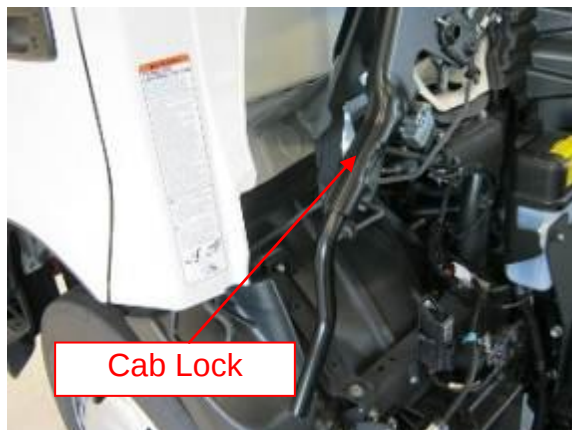
NOTICE: This procedure only applies to single cab vehicles built *on or before January 18, 2013*.

1. Remove the 6 bolts from the front bumper.
Remove the bumper.



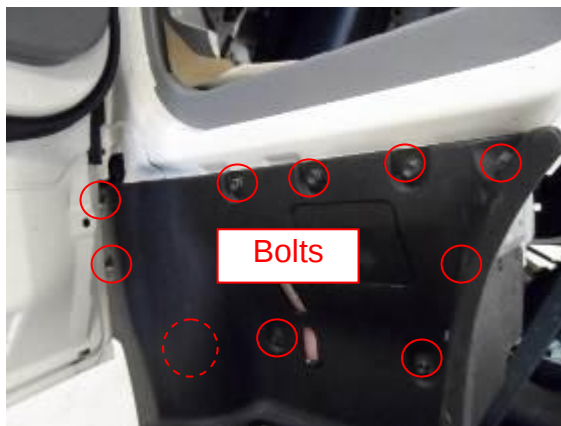
NOTICE: Do not discard the bumper or bumper bolts. They will be reused during the reassembly procedure.

2. Release the cab lock and raise the cab.



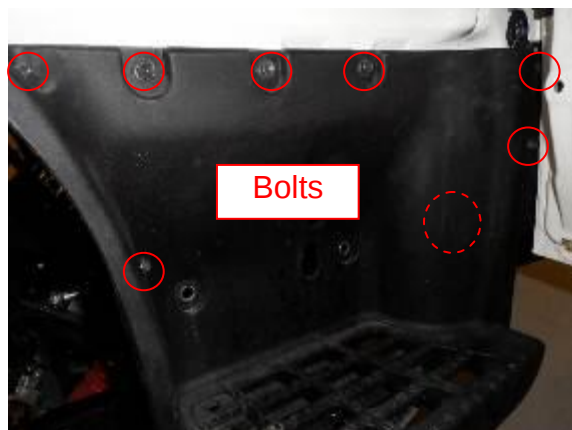
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- Open the driver's door and remove the 10 bolts from the driver's side cab step. Remove and discard the driver's side cab step.



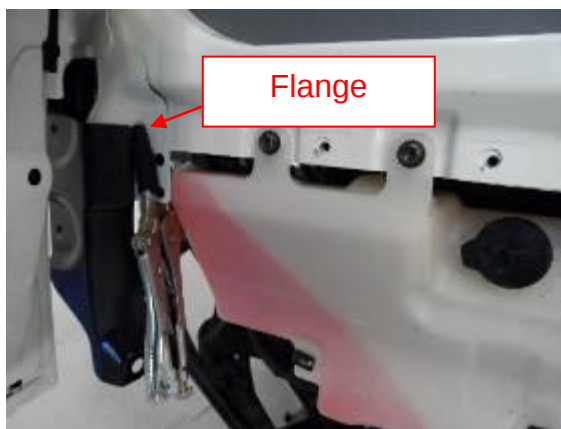
NOTICE: Do not discard the 10 bolts. They will be reused during the reassembly procedure.

- Open the passenger door and remove the 8 bolts from the passenger side cab step. Remove and discard the passenger side cab step.



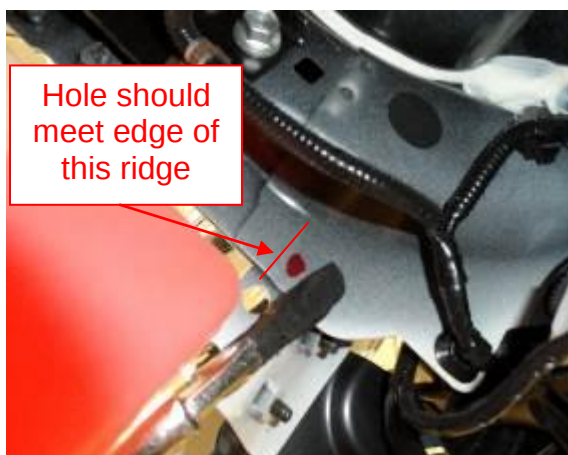
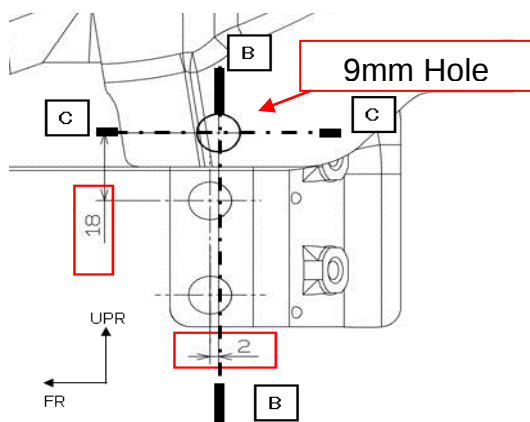
NOTICE: Do not discard the 8 bolts. They will be reused during the reassembly procedure.

- On the driver's side, locate the flange near the front of the bottom of the cab. The spot weld may be broken. Regardless of whether or not the spot weld is broken, install Vice-Grips to lock the flange together in preparation for drilling through the multi-layer steel flange.



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6. While looking under the driver's side of the cab, mark the 9mm hole to be drilled. The hole should be 18mm (3/4 inch) above the top hole in the lower flange. It should be 2mm to the right of the center of the 2 holes in the flange (on the edge of the ridge in the flange). See diagram below.



WARNING: To avoid personal injury, eye and ear protection must be worn when drilling under the cab of the vehicle.

NOTICE: Use caution to avoid drilling into the door once the drill bit protrudes from the multi-layer steel flange.

7. Using a 9mm (23/64th) drill bit, drill a hole through the multi-layer steel flange where the marking was made.

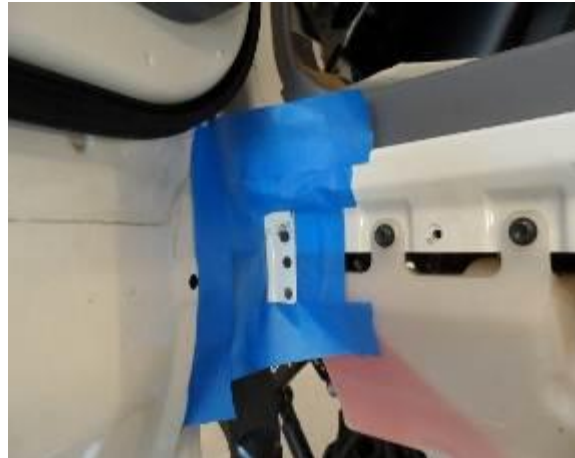


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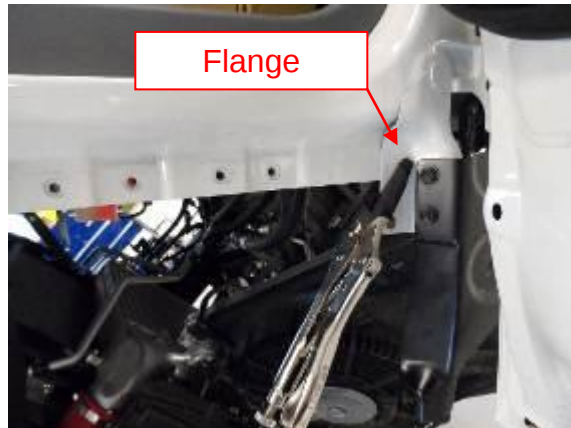
8. Using a rat tail file, de-burr the outside edge of the drilled hole.



9. Mask the area around the drilled hole. Apply an anti-rust aerosol spray paint such as Rustoleum that matches the color of the cab. Allow the paint to dry before installing the retainer bolt.

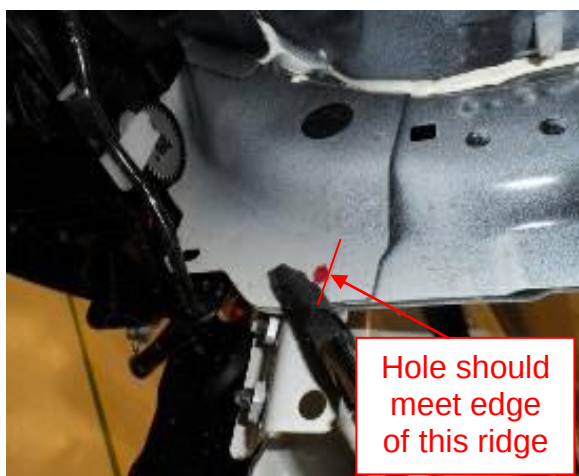
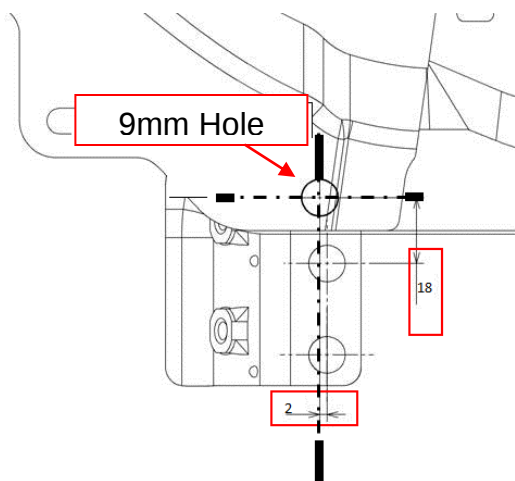


10. On the passenger side, locate the flange near the front of the bottom of the cab. The spot weld may be broken. Regardless of whether or not the spot weld is broken, install Vice-Grips to lock the flange together in preparation for drilling through the multi-layer steel flange.



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11. While looking under the passenger side of the cab, mark the 9mm hole to be drilled. The center of the hole should be 18mm (3/4 inch) above the center of the top hole in the lower flange. It should be 2mm to the left of the center of the 2 holes in the flange (on the edge of the ridge in the flange). See diagram below.



WARNING: To avoid personal injury, eye and ear protection must be worn when drilling under the cab of the vehicle.

NOTICE: Use caution to avoid drilling into the door once the drill bit protrudes from the multi-layer steel flange.

12. Using a 9mm (23/64th) drill bit, drill a hole through the multi-layer steel flange where the marking was made.

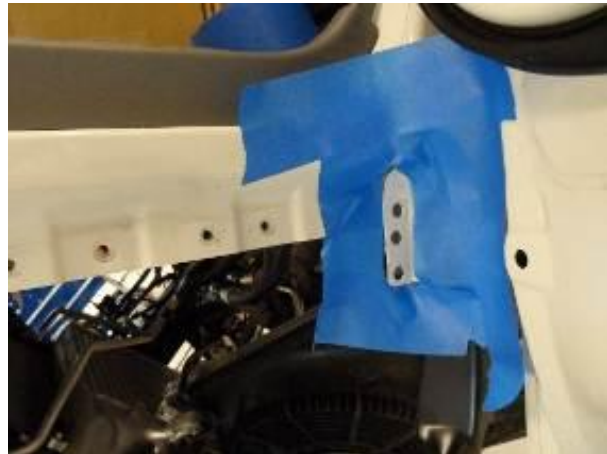


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13. Using a rat tail file, de-burr the outside edge of the drilled hole.

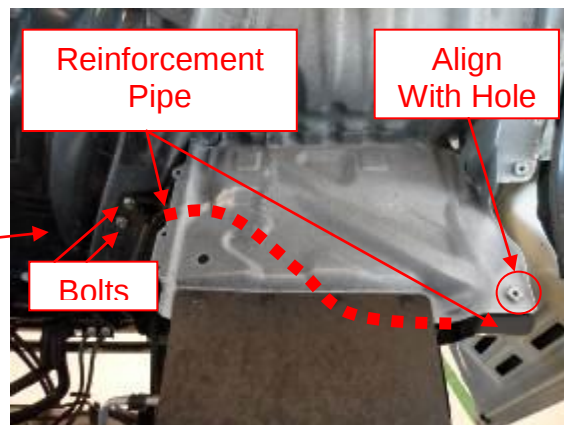


14. Mask the area around the drilled hole. Apply an anti-rust aerosol spray paint such as Rustoleum that matches the color of the cab. Allow the paint to dry before installing the retainer bolt.



15. Install the passenger side reinforcement pipe (58307-37110) for the passenger side cab step using 2 bolts (91551-80820). Ensure the hole on the pipe is aligned with the welded nut located where the cab step attaches to the body. Tighten the 2 bolts to the specified torque.

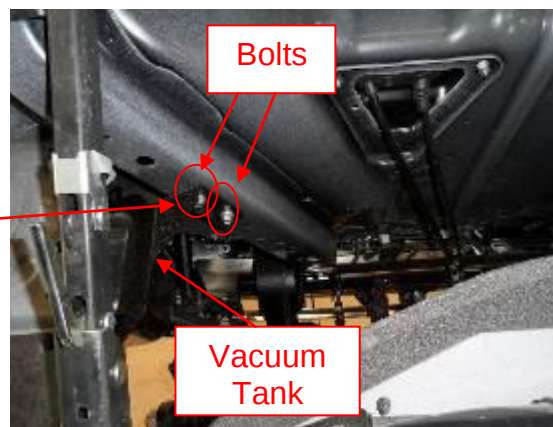
Specified Torque: 23 lb-ft (31 Nm)



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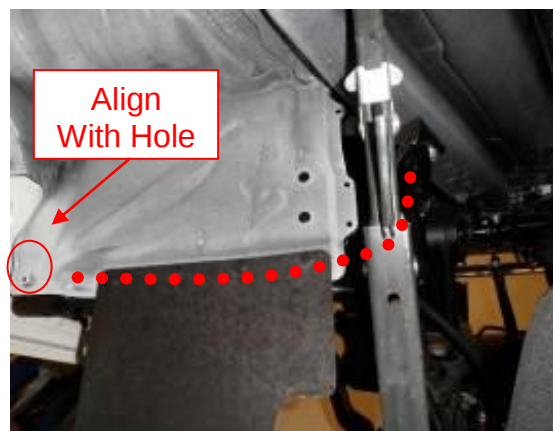
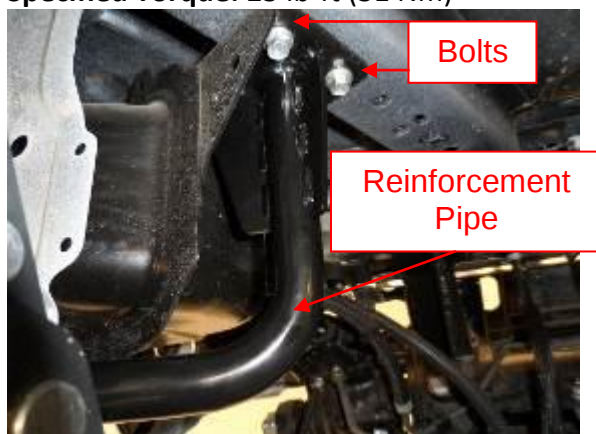
16. Remove the 2 bolts from the rear of the vacuum tank under the cab on the driver's side.

NOTICE: Do not discard the bolts. They will be reused during the next step.



17. Install the driver's side reinforcement pipe (58308-37090) for the cab step. The pipe will be mounted in the same place from which the vacuum tank bolts were removed. Ensure the hole on the pipe is aligned with the welded nut located where the cab step attaches to the body. Tighten the 2 bolts to the specified torque.

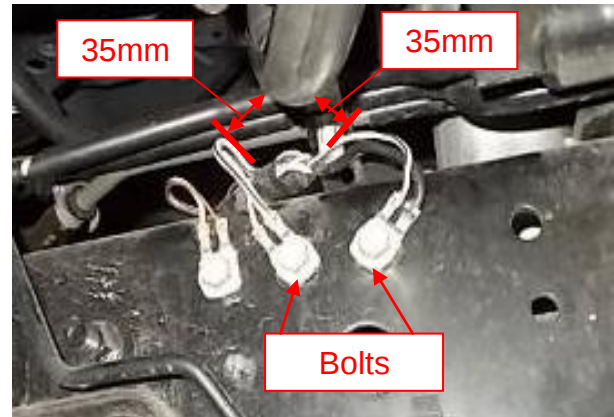
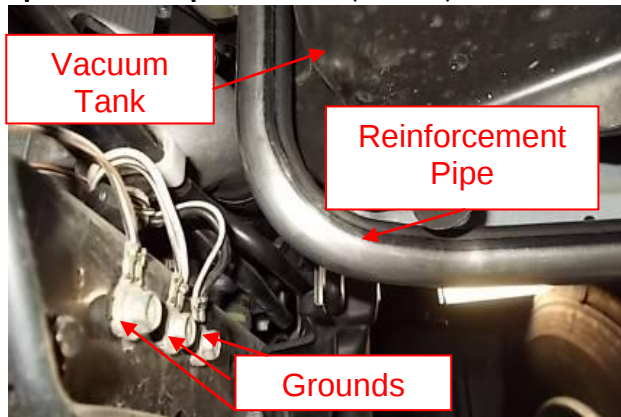
Specified Torque: 23 lb-ft (31 Nm)



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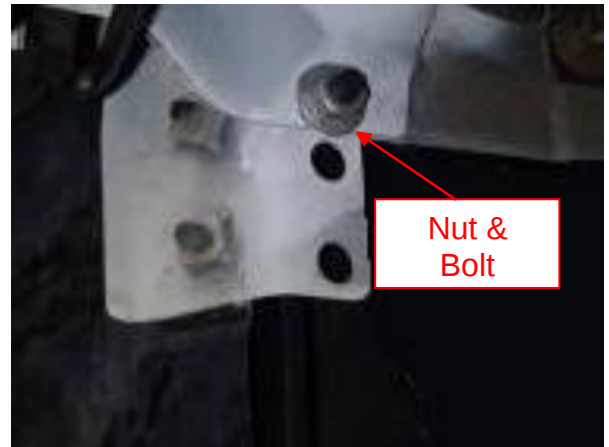
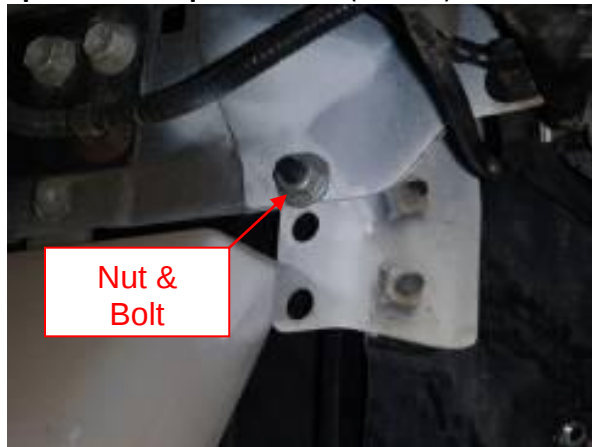
18. Locate the ground wires on the driver's side frame rail. The ground wires will need to be repositioned to allow for 35mm of clearance between the new reinforcement pipe and the chassis grounds. Loosen the 2 ground bolts; reposition the wires as needed, then torque the ground bolts to the specified torque.

Specified Torque: 13 lb-ft (18 Nm)



19. Once the paint has dried, install a bolt (90109-08295) through the flange on each side. Install a nut (90179-08184) on the back side of the flange. Tighten the nut to the specified torque.

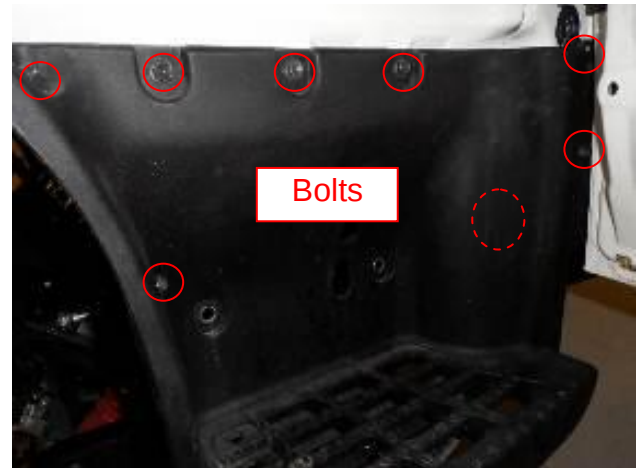
Specified Torque: 20 lb-ft (27 Nm)



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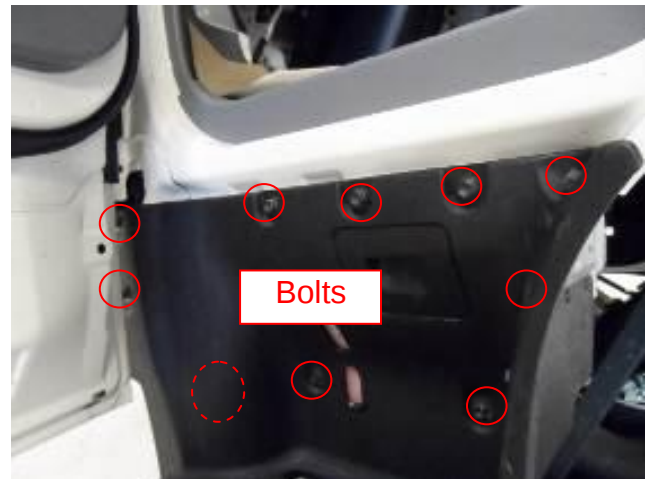
20. Install the new passenger side cab step (51083-37064). Install the 8 bolts into the cab step. Tighten them to the specified torque.

Specified Torque: 9.5 lb-ft (13 Nm)

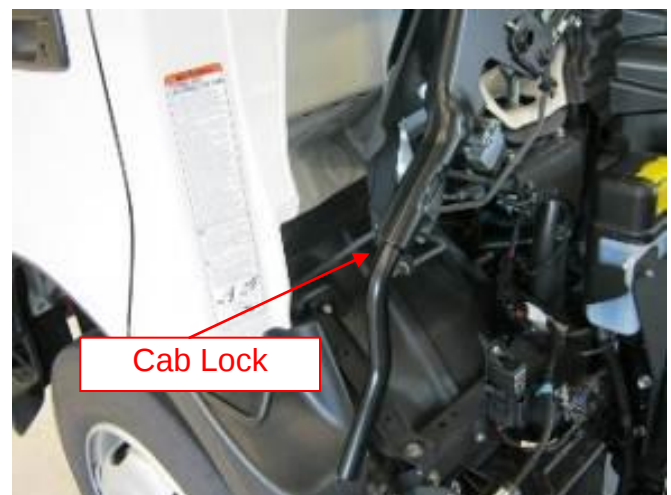


21. Install the new driver's side cab step (51084-37053). Install the 10 bolts into the cab step. Tighten them to the specified torque.

Specified Torque: 9.5 lb-ft (13 Nm)



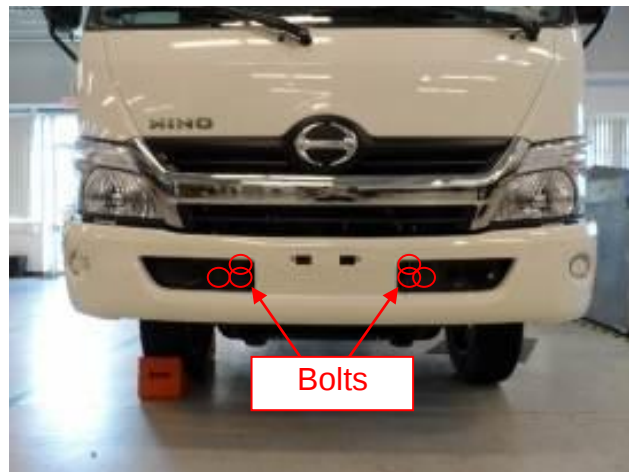
22. Lower the cab and engage the cab lock.



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23. Install the 6 bolts in the front bumper. Tighten them to the specified torque.

Specified Torque: 13 lb-ft (18 Nm)

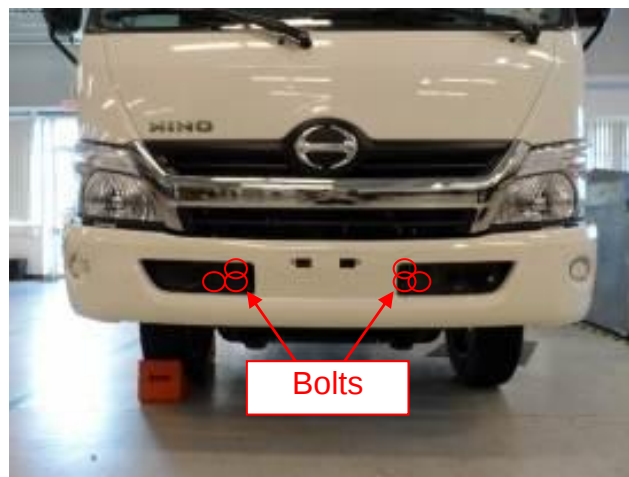


REPAIR PROCEDURE – B:

NOTICE: This procedure only applies to crew cab vehicles built on or *before January 18, 2013*.

1. Remove the 6 bolts from the front bumper. Remove the bumper.

NOTICE: Do not discard the bumper or bumper bolts. They will be reused during the reassembly procedure.



2. Open the driver's door and remove the 10 bolts from the driver's side cab step. Remove and discard the driver's side cab step.

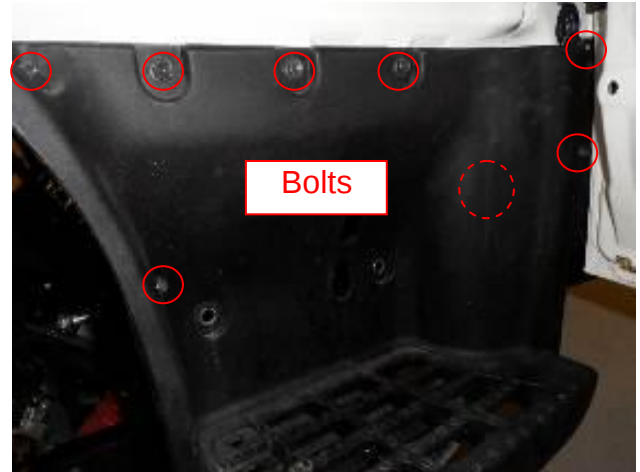
NOTICE: Do not discard the 10 bolts. They will be reused during the reassembly procedure.



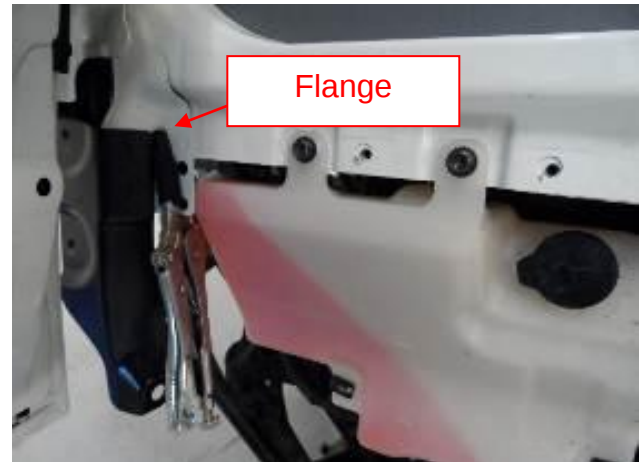
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- Open the passenger door and remove the 8 bolts from the passenger side cab step. Remove and discard the passenger side cab step.

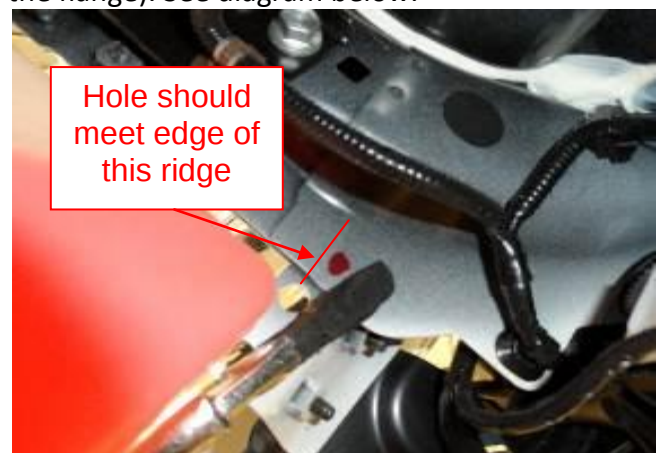
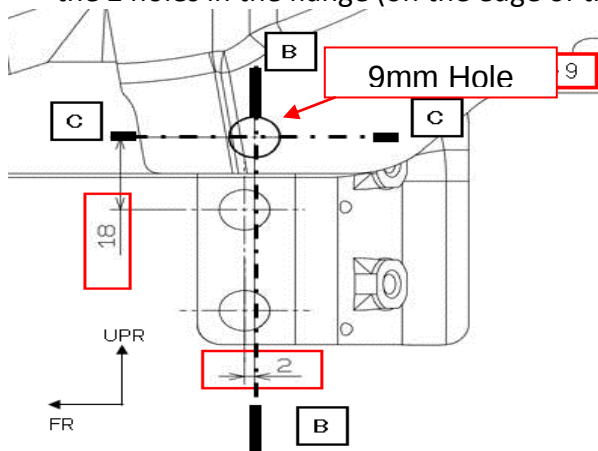
NOTICE: Do not discard the 8 bolts. They will be reused during the reassembly procedure.



- On the driver's side, locate the flange near the front of the bottom of the cab. The spot weld may be broken. Regardless of whether or not the spot weld is broken, install Vice-Grips to lock the flange together in preparation for drilling through the multi-layer steel flange.



- While looking under the driver's side of the cab, mark the 9mm hole to be drilled. The hole should be 18mm (3/4 inch) above the top hole in the lower flange. It should be 2mm to the right of the center of the 2 holes in the flange (on the edge of the ridge in the flange). See diagram below.



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WARNING: To avoid personal injury, eye and ear protection must be worn when drilling under the cab of the vehicle.

6. Using a 9mm (23/64th) drill bit, drill a hole through the multi-layer steel flange where the marking was made.

NOTICE: Use caution to avoid drilling into the door once the drill bit protrudes from the multi-layer steel flange.

7. Using a rat tail file, de-burr the outside edge of the drilled hole.

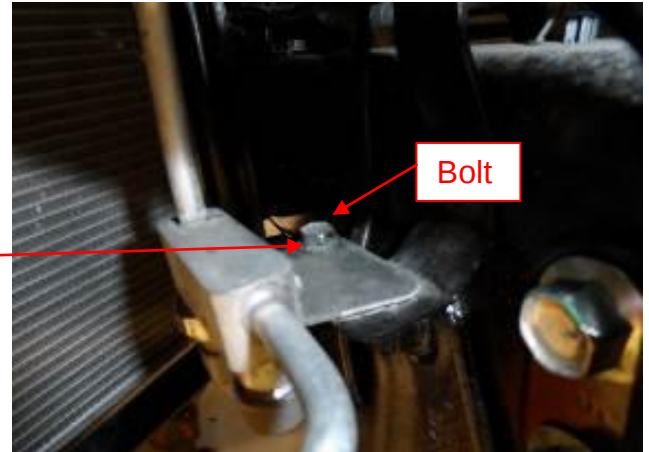
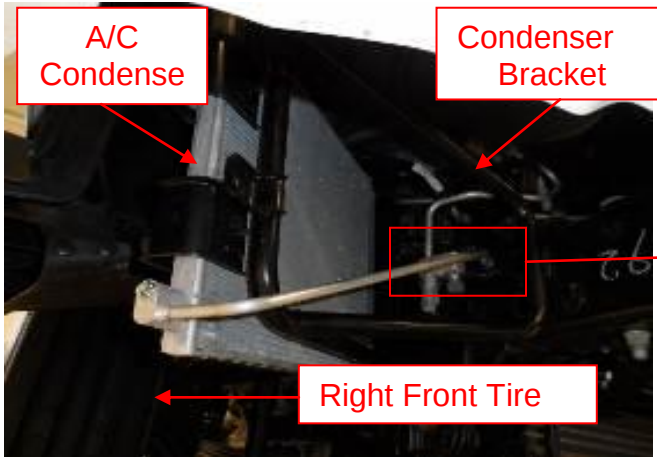
8. Mask the area around the drilled hole. Apply an anti-rust aerosol spray paint such as Rustoleum that matches the color of the cab. Allow the paint to dry before installing the retainer bolt.



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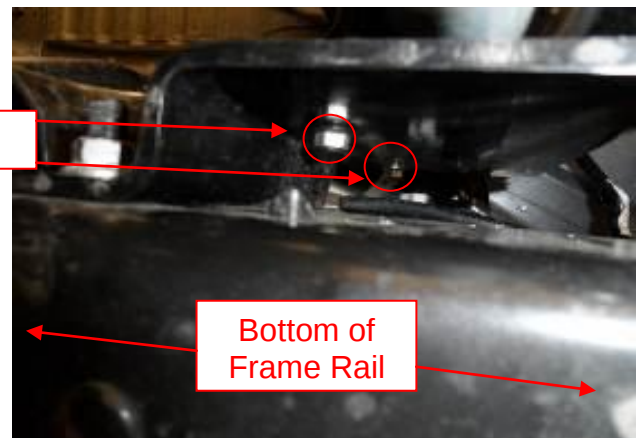
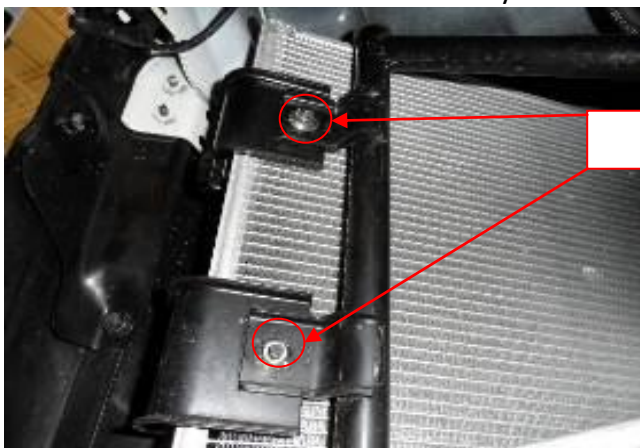
9. To drill the hole on the passenger side flange, it will be necessary to loosen and reposition the A/C condenser and the A/C condenser bracket. First, remove the bolt retaining the A/C line to the support bracket.

NOTICE: Do not discard the bolt. It will be reused.



10. Remove the 4 nuts retaining the A/C condenser to the A/C condenser bracket.

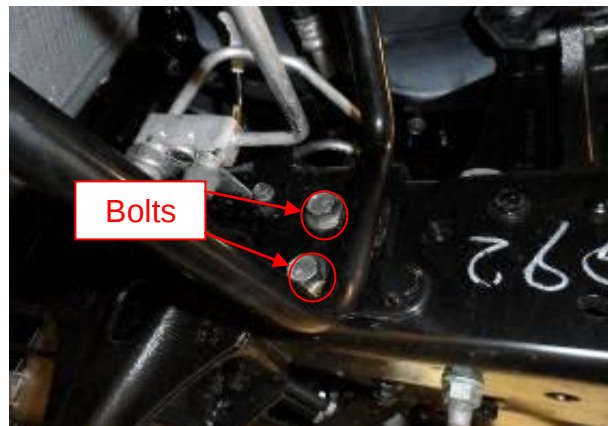
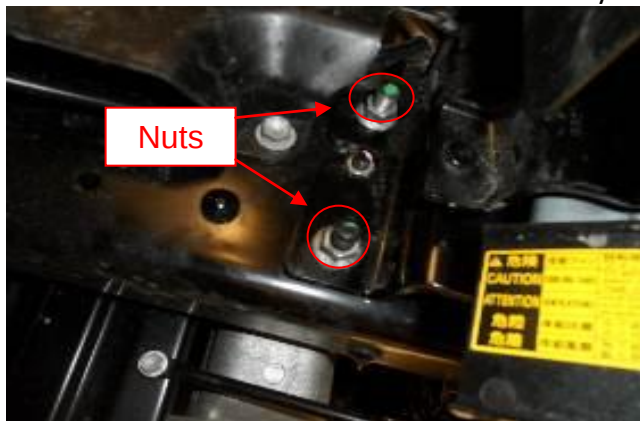
NOTICE: Do not discard the nuts. They will be reused.



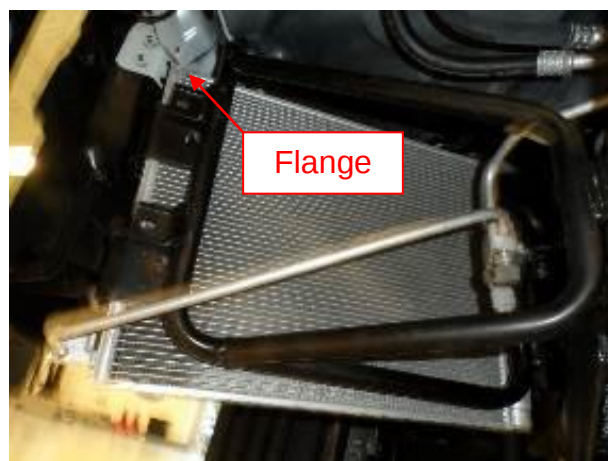
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11. Remove the 2 bolts and 2 nuts retaining the A/C condenser bracket to the frame.

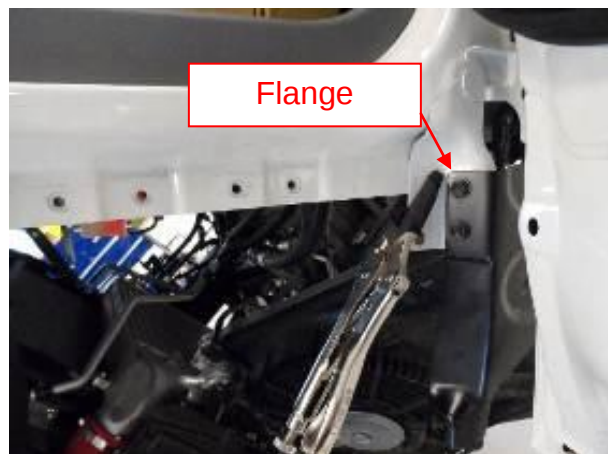
NOTICE: Do not discard the nuts or bolts. They will be reused.



12. Reposition the A/C condenser and the condenser bracket so that there is room to drill the hole in the multi-layer steel flange.

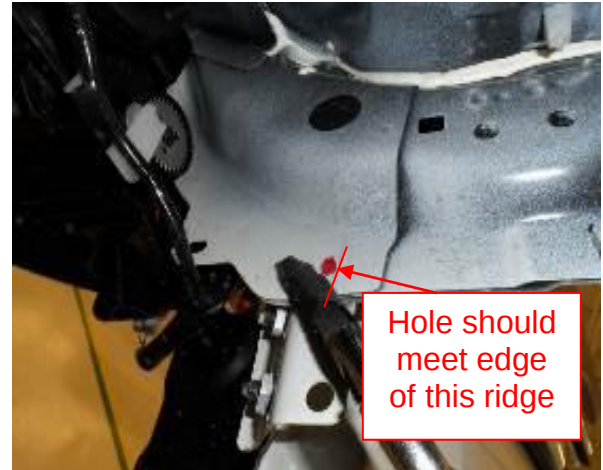
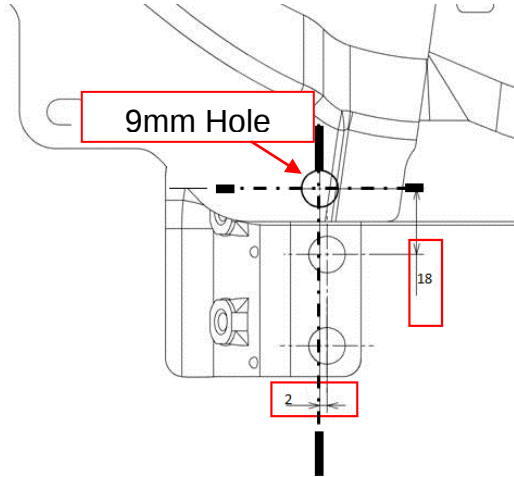


13. On the passenger side, locate the flange near the front of the bottom of the cab. The spot weld may be broken. Regardless of whether or not the spot weld is broken, install Vice-Grips to lock the flange together in preparation for drilling through the multi-layer steel flange.



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14. While looking under the passenger side of the cab, mark the 9mm hole to be drilled. The center of the hole should be 18mm (3/4 inch) above the center of the top hole in the lower flange. It should be 2mm to the left of the center of the 2 holes in the flange (on the edge of the ridge in the flange). See diagram below.



WARNING: To avoid personal injury, eye and ear protection must be worn when drilling under the cab of the vehicle.

15. Using a 9mm (23/64th) drill bit, drill a hole through the multi-layer steel flange where the marking was made.



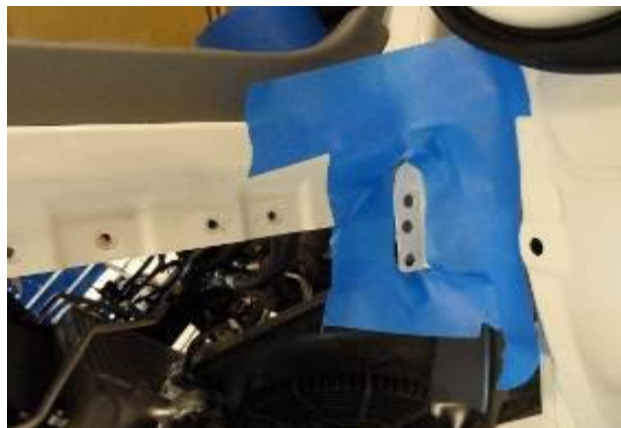
NOTICE: Use caution to avoid drilling into the door once the drill bit protrudes from the multi-layer steel flange.

16. Using a rat tail file, de-burr the outside edge of the drilled hole.



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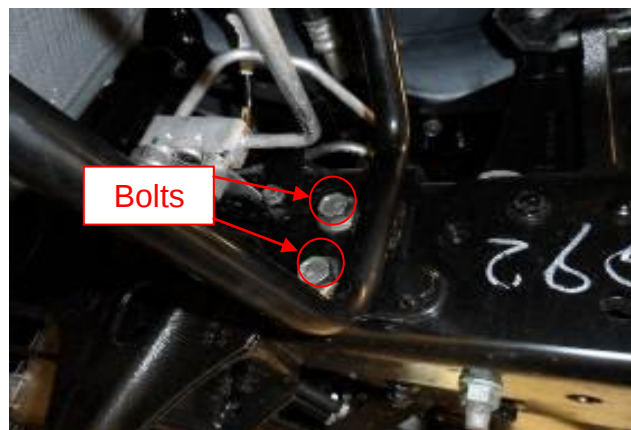
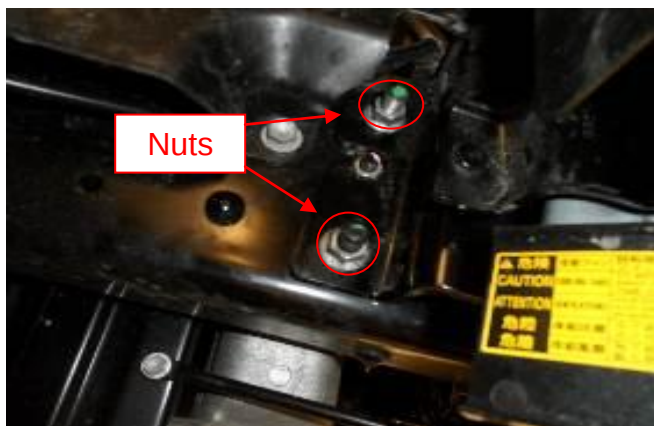
17. Mask the area around the drilled hole. Apply an anti-rust aerosol spray paint such as Rustoleum that matches the color of the cab. Allow the paint to dry before installing the retainer bolt.



18. Install the 2 bolts and 2 nuts retaining the A/C condenser bracket to the frame. Tighten to the specified torque.

Nut Specified Torque: 55 lb-ft (75 Nm)

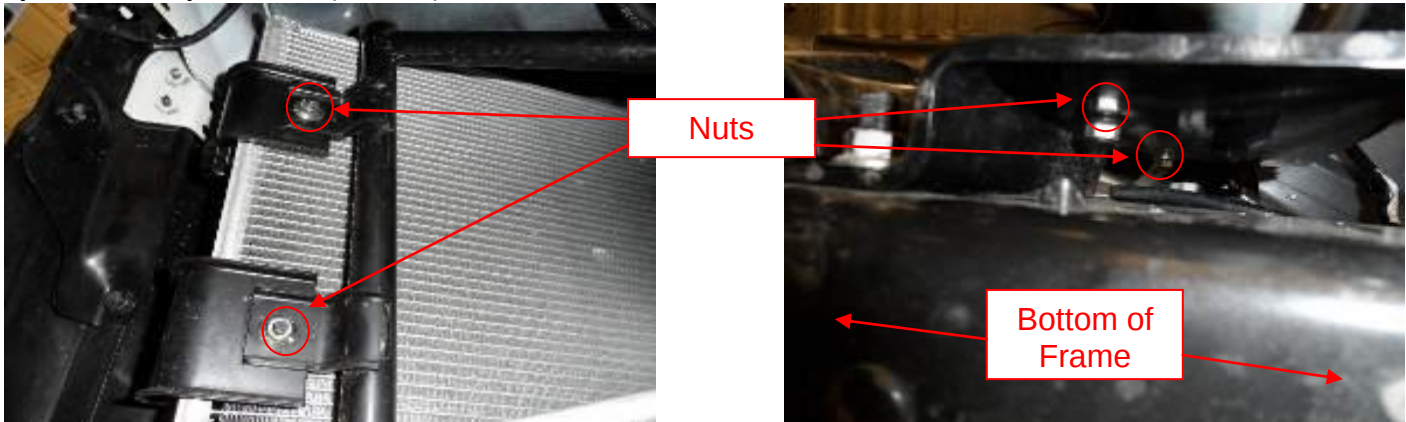
Bolt Specified Torque: 89 lb-ft (120 Nm)



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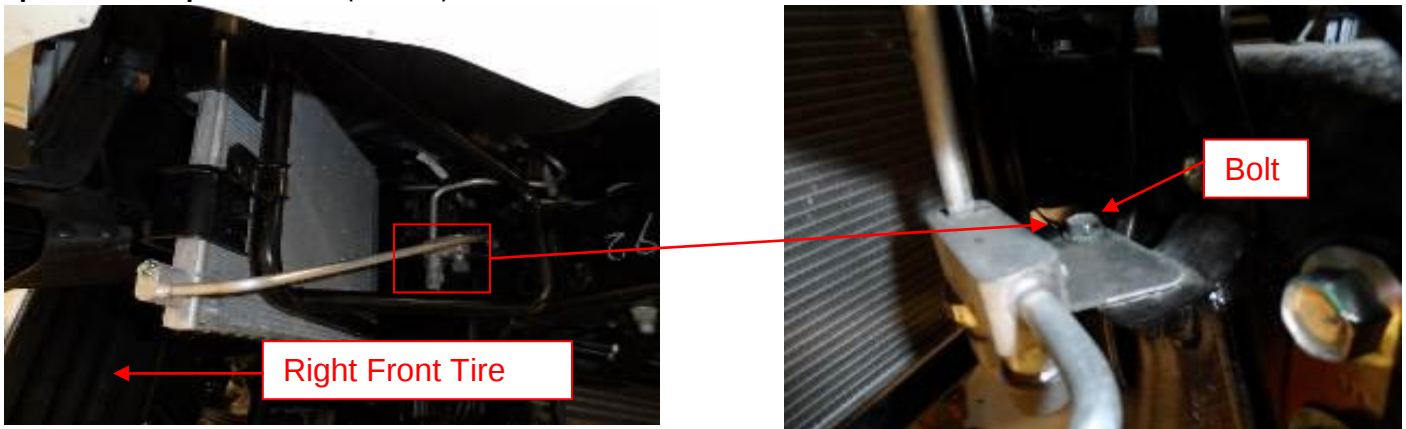
19. Install the 4 nuts retaining the A/C condenser to the A/C condenser bracket. Tighten to the specified torque.

Specified Torque: 4 lb-ft (5.5 Nm)



20. Install the bolt retaining the A/C line to the support bracket. Tighten to the specified torque.

Specified Torque: 11 lb-ft (15 Nm)

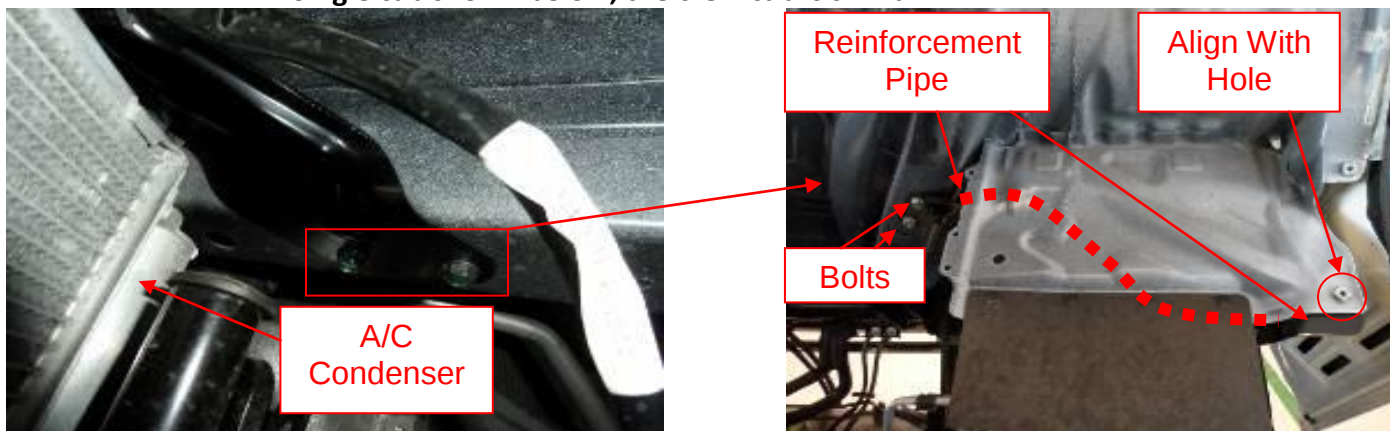


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21. Install the passenger side reinforcement pipe (58307-37110) for the passenger side cab step using 2 bolts (91551-80820). Ensure the hole on the pipe is aligned with the welded nut located where the cab step attaches to the body. Tighten the 2 bolts to the specified torque.

Specified Torque: 23 lb-ft (31 Nm)

-Single cab shown below; the crew cab is similar-



22. Remove the 2 bolts from the rear of the vacuum tank under the cab on the driver's side.

NOTICE: Do not discard the bolts. They will be reused during the next step.

-Single cab shown below; the crew cab is similar-

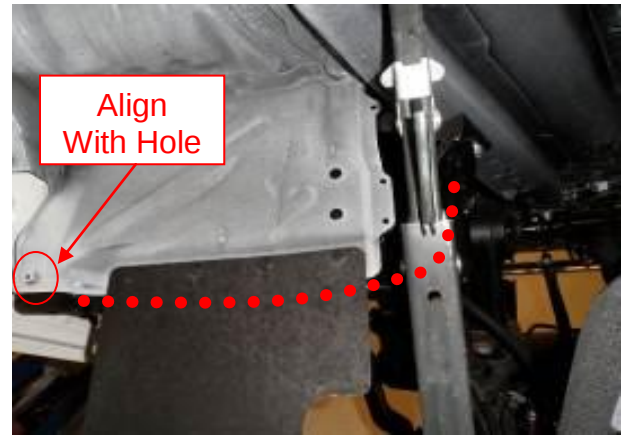
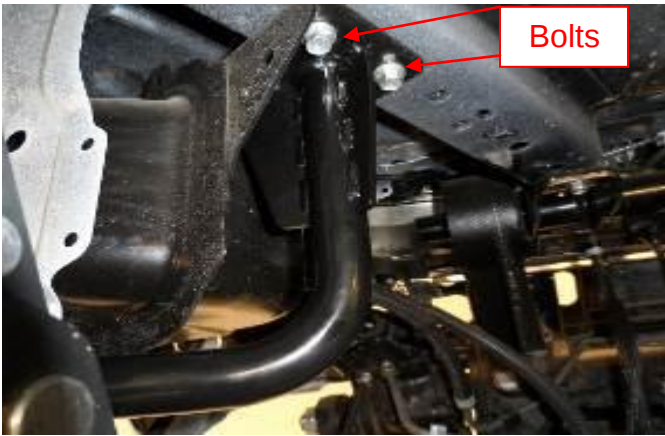


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23. Install the driver's side reinforcement pipe (58308-37090) for the cab step. The pipe will be mounted in the same place from which the vacuum tank bolts were removed. Ensure the hole on the pipe is aligned with the welded nut located where the cab step attaches to the body. Tighten the 2 bolts to the specified torque.

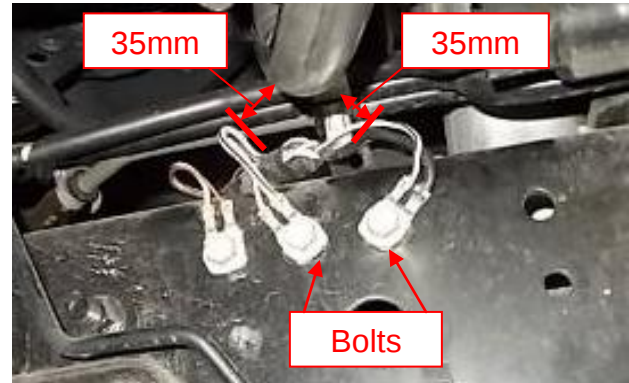
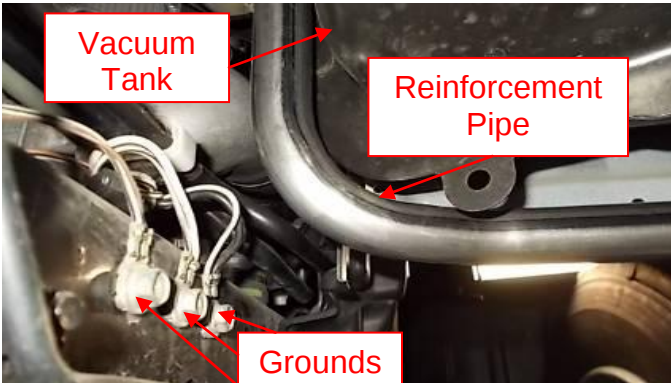
Specified Torque: 23 lb-ft (31 Nm)

-Single cab shown below; the crew cab is similar-



24. Locate the ground wires on the driver's side frame rail. The ground wires will need to be repositioned to allow for 35mm of clearance between the new reinforcement pipe and the chassis grounds. Loosen the 2 ground bolts; reposition the wires as needed, then torque the ground bolts to the specified torque.

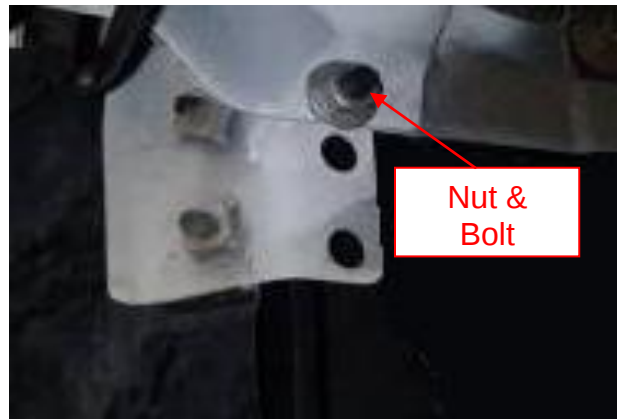
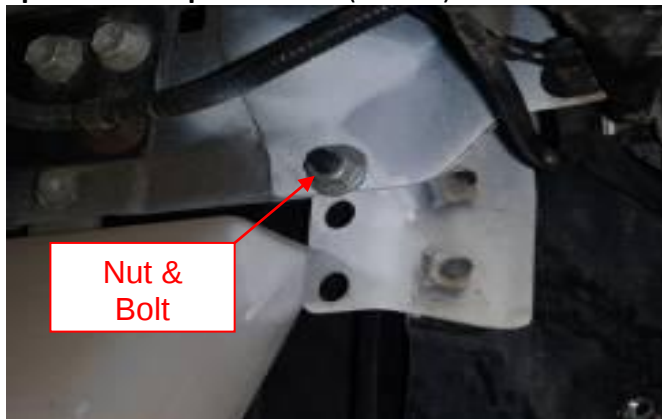
Specified Torque: 13 lb-ft (18 Nm)



SERVICE BULLETIN

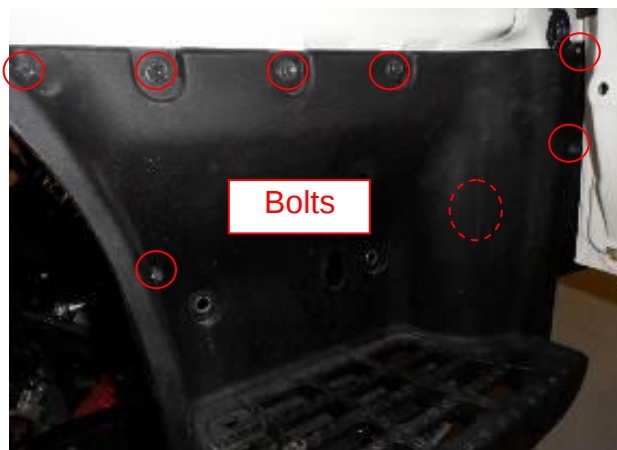
25. Once the paint has dried, remove the masking tape. Install a bolt (90109-08295) through the flange on each side. Install a nut (90179-08184) on the back side of the flange. Tighten the nut to the specified torque.

Specified Torque: 20 lb-ft (27 Nm)



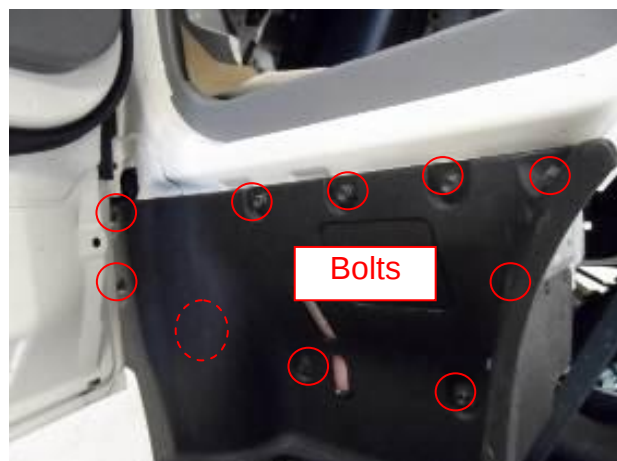
26. Install the new passenger side cab step (51083-37064). Install the 8 bolts into the cab step. Tighten them to the specified torque.

Specified Torque: 9.5 lb-ft (13 Nm)



27. Install the new driver's side cab step (51084-37053). Install the 10 bolts into the cab step. Tighten them to the specified torque.

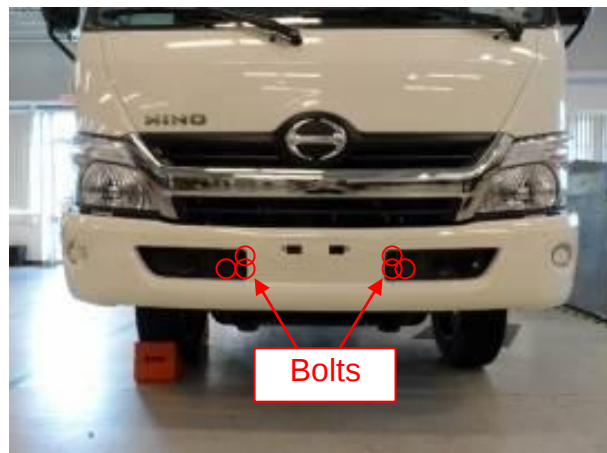
Specified Torque: 9.5 lb-ft (13 Nm)



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28. Install the 6 bolts in the front bumper. Tighten them to the specified torque.

Specified Torque: 13 lb-ft (18 Nm)



REPAIR PROCEDURE – C

NOTICE: This repair procedure is for all vehicles built *after January 18, 2013*.

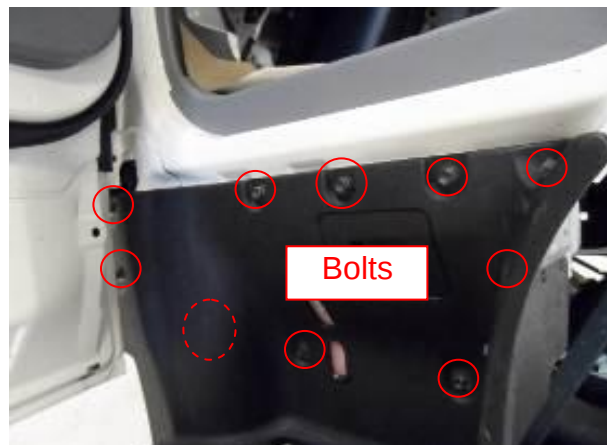
1. On single cab vehicles, release the cab lock and raise the cab.

Note: The cab does not need to be raised on crew cab vehicles.



2. Open the driver's door and remove the 10 bolts from the driver's side cab step. Remove and discard the driver's side cab step.

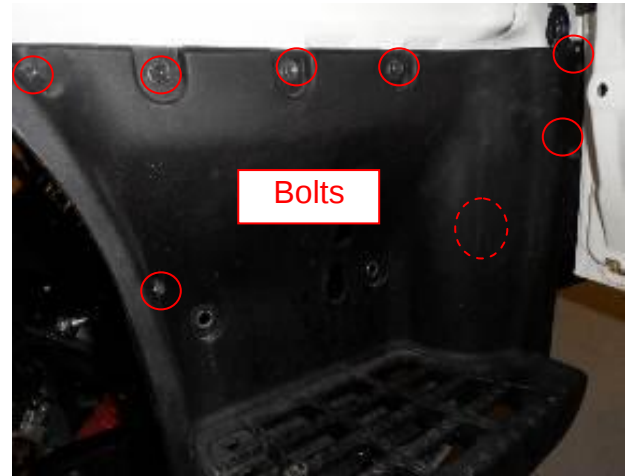
NOTICE: Do not discard the 10 bolts. They will be reused during the reassembly procedure.



SERVICE BULLETIN

- Open the passenger door and remove the 8 bolts from the passenger side cab step. Remove and discard the passenger side cab step.

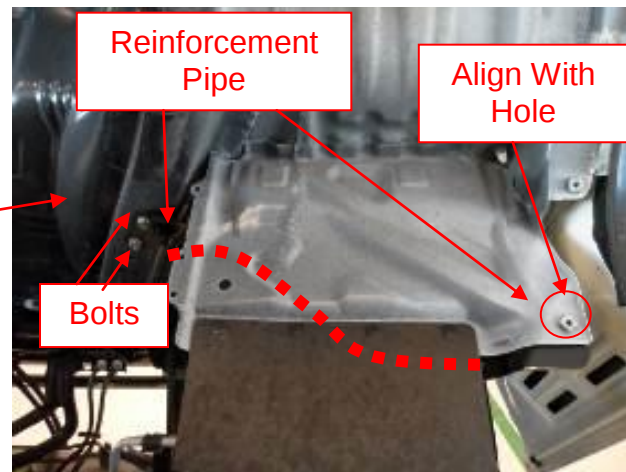
NOTICE: Do not discard the 8 bolts. They will be reused during the reassembly procedure.



- Install the passenger side reinforcement pipe (58307-37110) for the passenger side cab step using 2 bolts (91551-80820). Ensure the hole on the pipe is aligned with the welded nut located where the cab step attaches to the body. Tighten the 2 bolts to the specified torque.

Specified Torque: 23 lb-ft (31 Nm)

-Single cab shown below; the crew cab is similar-

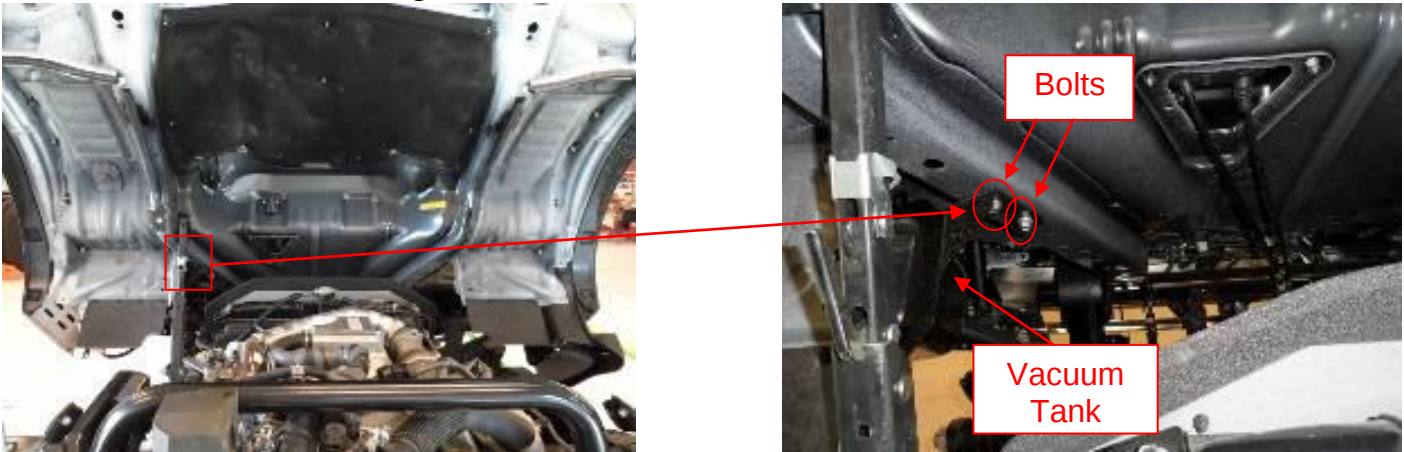


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- Remove the 2 bolts from the rear of the vacuum tank under the cab on the driver's side.

NOTICE: Do not discard the bolts. They will be reused during the next step.

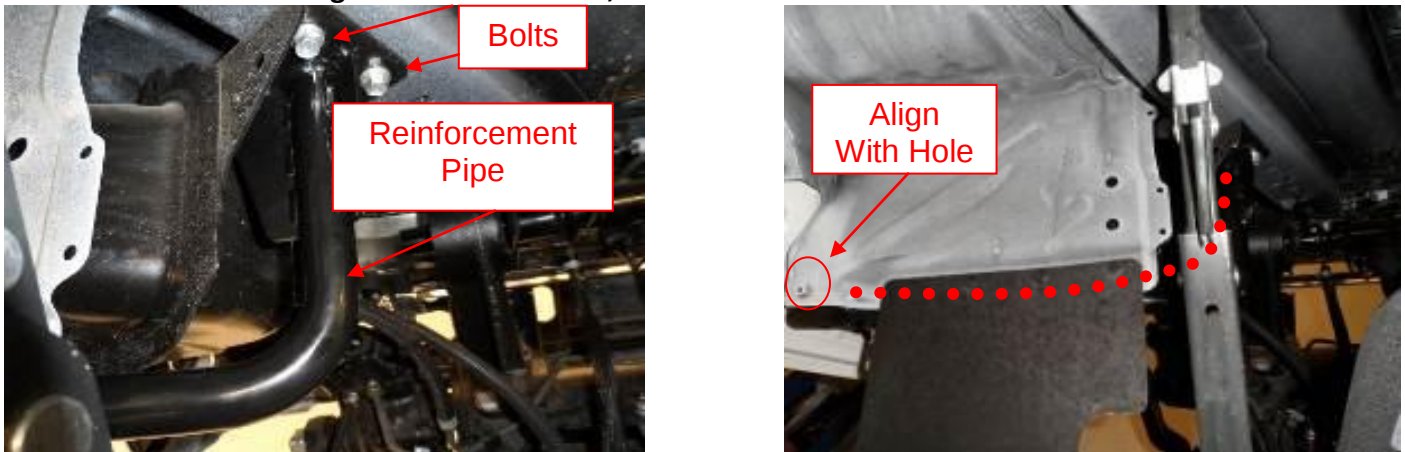
-Single cab shown below, the crew cab similar-



- Install the driver's side reinforcement pipe (58308-37090) for the cab step. The pipe will be mounted in the same place from which the vacuum tank bolts were removed. Ensure the hole on the pipe is aligned with the welded nut located where the cab step attaches to the body. Tighten the 2 bolts to the specified torque.

Specified Torque: 23 lb-ft (31 Nm)

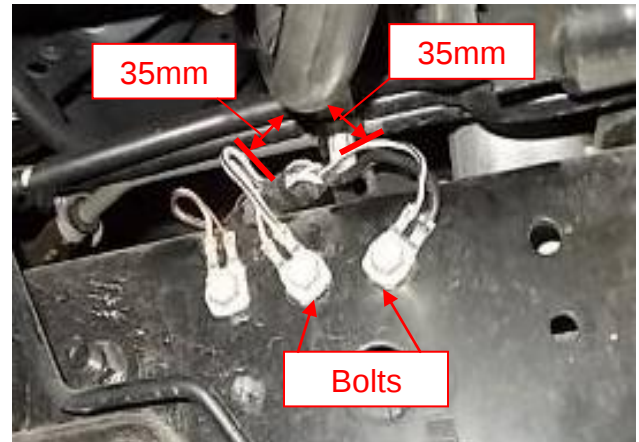
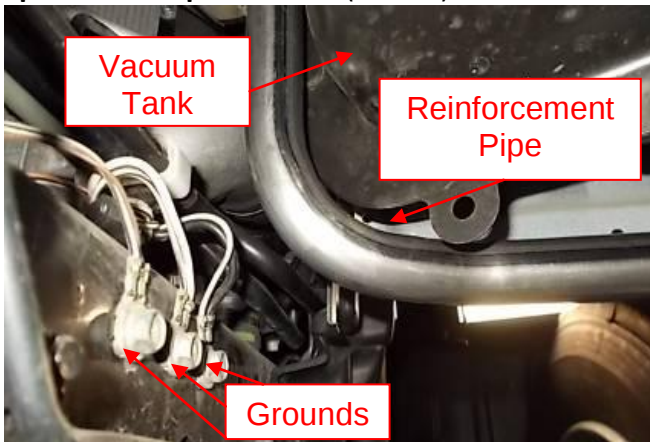
-Single cab shown below; the crew cab is similar-



SERVICE BULLETIN

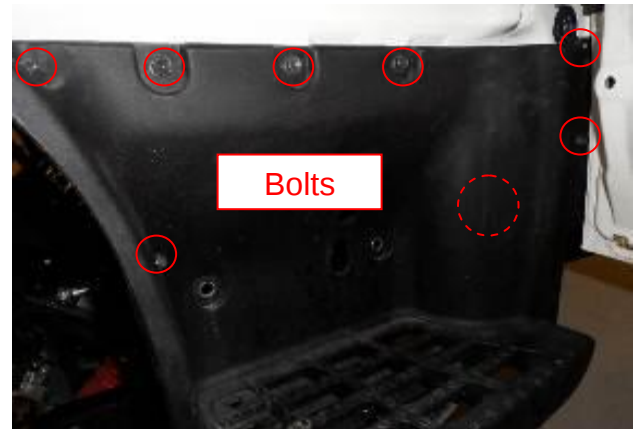
- Locate the ground wires on the driver's side frame rail. The ground wires will need to be repositioned to allow for 35mm of clearance between the new reinforcement pipe and the chassis grounds. Loosen the 2 ground bolts; reposition the wires as needed, then torque the ground bolts to the specified torque.

Specified Torque: 13 lb-ft (18 Nm)



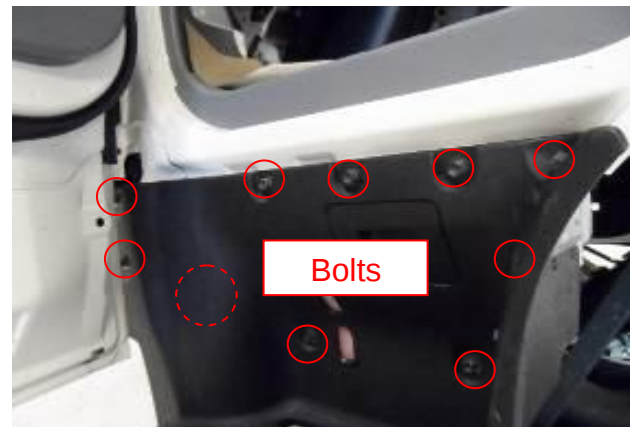
- Install the new passenger side cab step (51083-37064). Install the 8 bolts into the cab step. Tighten them to the specified torque.

Specified Torque: 9.5 lb-ft (13 Nm)



- Install the new driver's side cab step (51084-37053). Install the 10 bolts into the cab step. Tighten them to the specified torque.

Specified Torque: 9.5 lb-ft (13 Nm)



Group:	61 – Cab & Body
Bulletin No.:	SB-14-001
Issue Date:	08/25/2014

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10. On single cab vehicles, lower the cab and engage the cab lock.



FINAL INSPECTION PROCEDURE:

To complete this Technical Service Bulletin, review the bulletin and confirm the following:

- The reinforcement nuts and bolts have been installed through the multi-layer steel flange on vehicles built on or before January 18, 2013.
- All nuts and bolts are secure and have been torqued to specification.
- The cab has been lowered and cab lock engaged.

Claim Application:

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

- a) Bulletin No.: 14-001
b) Labor charge: Based on the following table.

Operation	Labor
Cab step Procedure – A (before 1/18/13)	1.2 Hours
Cab step Procedure – B (before 1/18/13)	1.7 Hours
Cab step Procedure – C (after 1/18/13)	0.6 Hour

- c) Warranty code: 71160
d) Trouble code: 52
e) Operation code: 71150AOT
f) Original failed part: 51084-37051