

Reductant Tank - Regular Cab

Special Tool(s) / General Equipment

Transmission Jack

Removal

NOTICE: Selective Catalyst Reduction (SRC)/Reductant system components are very sensitive to external contamination. Any possible measure should be taken to prevent contamination from entering the system while servicing it.

NOTICE: Discard the drained reductant fluid. Always refill the reductant tank with new reductant fluid to avoid reductant system contamination.

NOTICE: Fresh reductant fluid should be the only lubricant used in the assembly of these components. The use of any other lubricant ESPECIALLY PETROLEUM BASED LUBES may cause damage to the system.

NOTICE: Reductant fluid can corrode some metals. Reductant fluid must be stored and transported carefully. Reductant fluid must be disposed of according to local regulations.

NOTICE: Petroleum contamination will cause permanent damage to the reductant system.

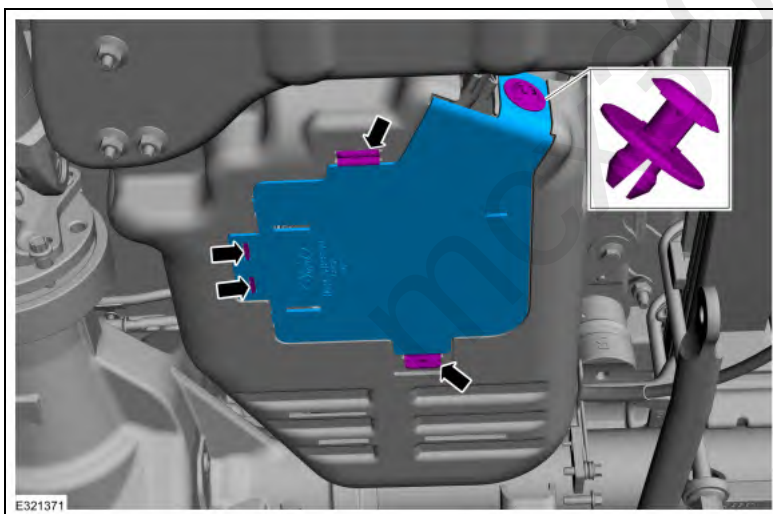
NOTICE: During the removal or installation of components, cap, tape or otherwise appropriately protect all openings and tubes/fittings to prevent the ingress of dirt or other contamination. Remove caps, tape and other protective materials prior to installation.

All vehicles

1. With the vehicle in NEUTRAL, position it on a hoist.
Refer to: Jacking and Lifting - Overview (100-02 Jacking and Lifting, Description and Operation).
2. Drain the reductant tank.
Refer to: Reductant Tank Draining (303-08B Engine Emission Control - 6.7L Power Stroke Diesel, General Procedures).

Inboard Frame Mounted Reductant Tank - Type 1

3. Remove the lower reductant tank cover access door retainer and then remove the lower reductant tank cover access door.



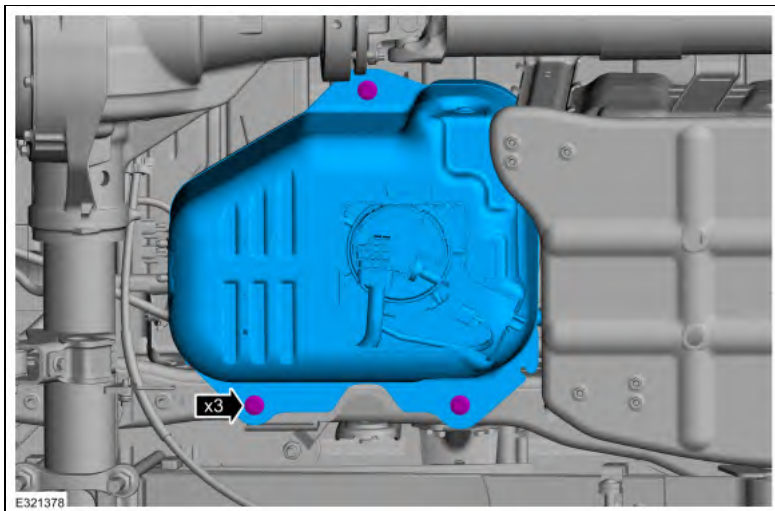
4. **NOTICE:** When disconnecting the reductant pressure line from the reductant pump assembly, gently press the reductant pressure line connector towards the pump assembly and hold. Then press the connector tabs and pull the connector straight off the pump assembly nipple. Failure to follow these instructions may cause damage to the reductant pump assembly and the reductant pressure line.

NOTE: Disconnect the reductant pressure line before disconnecting the reductant pressure line heater electrical connector.

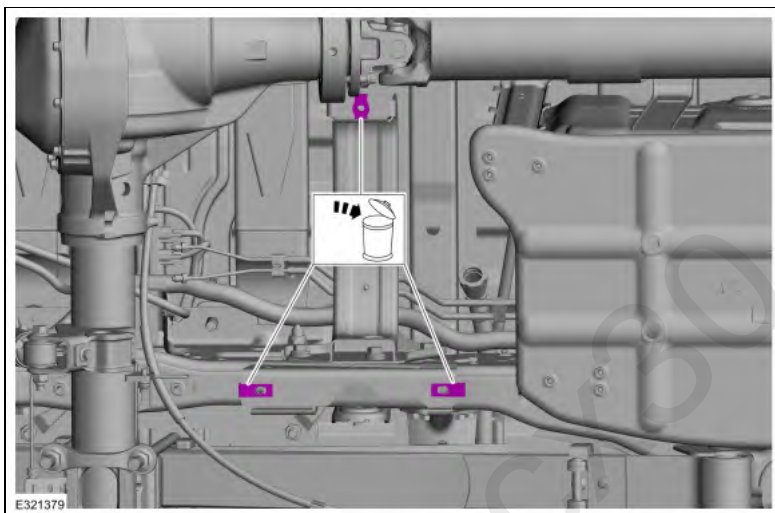
1. Disconnect the reductant pressure line quick release coupling from the reductant pump.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .
2. Disconnect the reductant pressure line heater electrical connector.
 - Release the reductant pressure line from the reductant tank cover retainer and the reductant tank.

7.

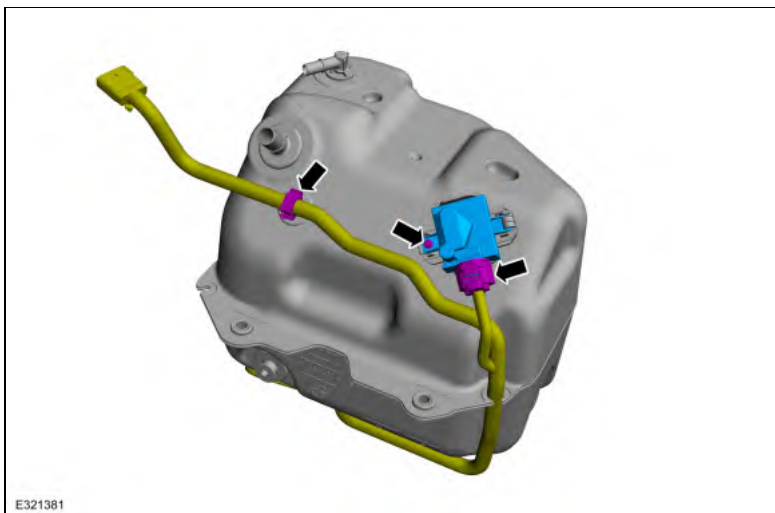
- Using a transmission jack, support the reductant tank.
- Install the General Equipment: Transmission Jack
- Remove the reductant tank retaining bolts and then remove the reductant tank.



8. Remove and discard the reductant tank retaining J-nuts.



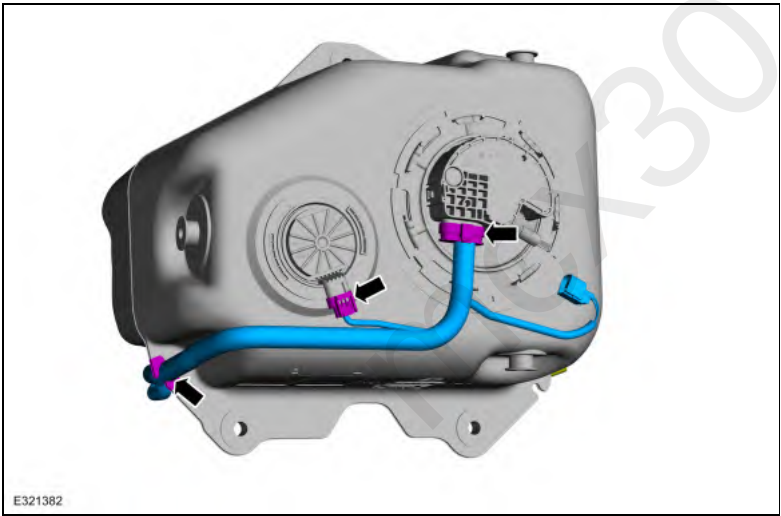
9. If needed disconnect reductant pump control module connector and detach wiring clip.



10. If needed remove the pushpins and the reductant tank lower cover.

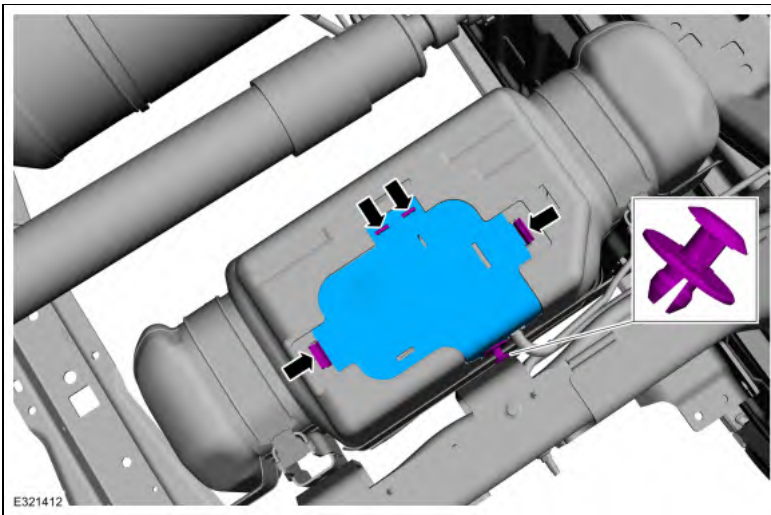


11. If needed disconnect the reductant pump and heater assembly electrical connector.



Inboard Frame Mounted Reductant Tank - Type 2

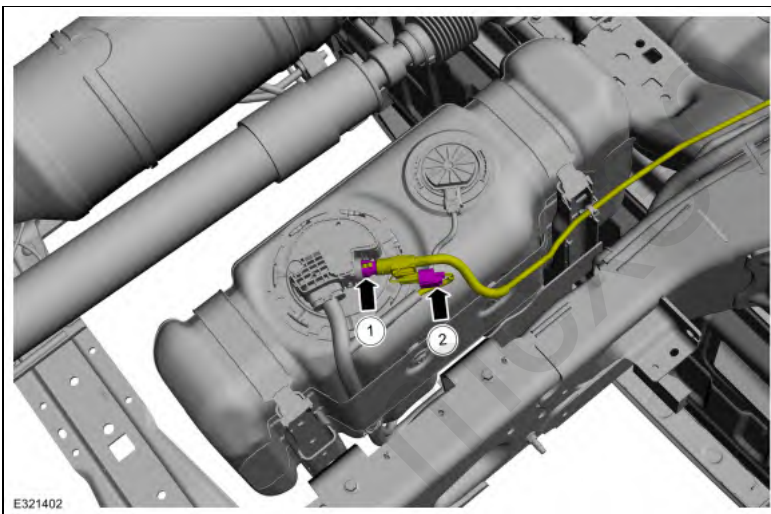
12. Remove the lower reductant tank cover access door retainer and then remove the lower reductant tank cover access door.



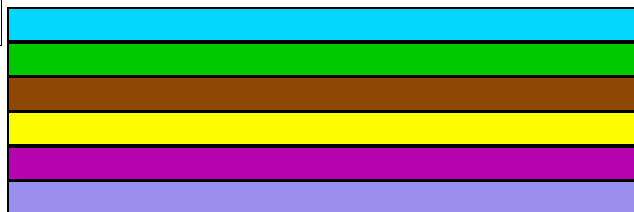
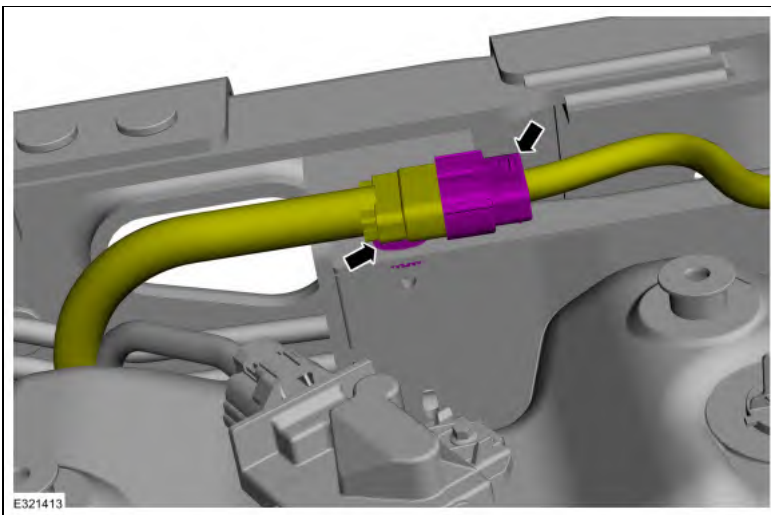
13. **NOTICE:** When disconnecting the reductant pressure line from the reductant pump assembly, gently press the reductant pressure line connector towards the pump assembly and hold. Then press the connector tabs and pull the connector straight off the pump assembly nipple. Failure to follow these instructions may cause damage to the reductant pump assembly and the reductant pressure line.

NOTE: Disconnect the reductant pressure line before disconnecting the reductant pressure line heater electrical connector.

1. Disconnect the reductant pressure line quick release coupling from the reductant pump.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .
2. Disconnect the reductant pressure line heater electrical connector.



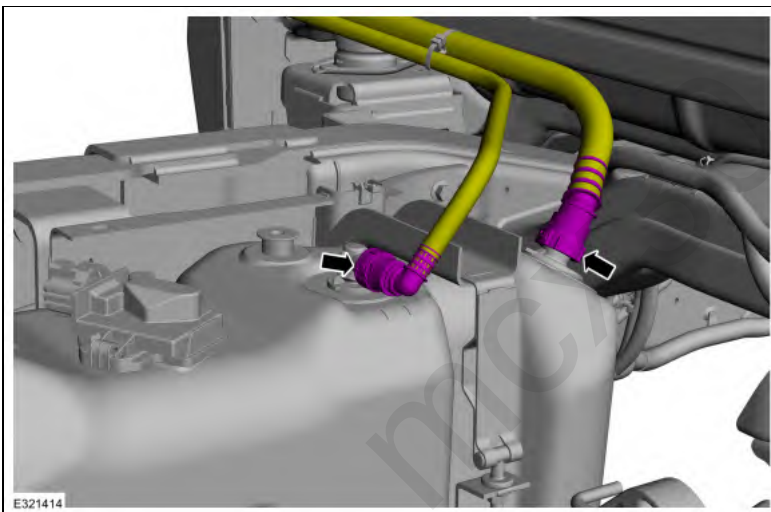
14. Disconnect the reductant tank main harness electrical connector, and then release the electrical connector retainer.



15.

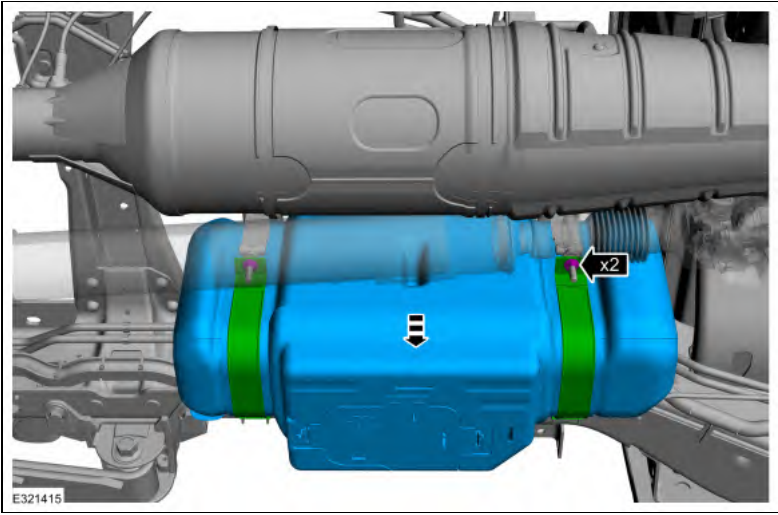
- Disconnect the reductant tank vent hose.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .
- Disconnect the reductant tank fill hose.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .

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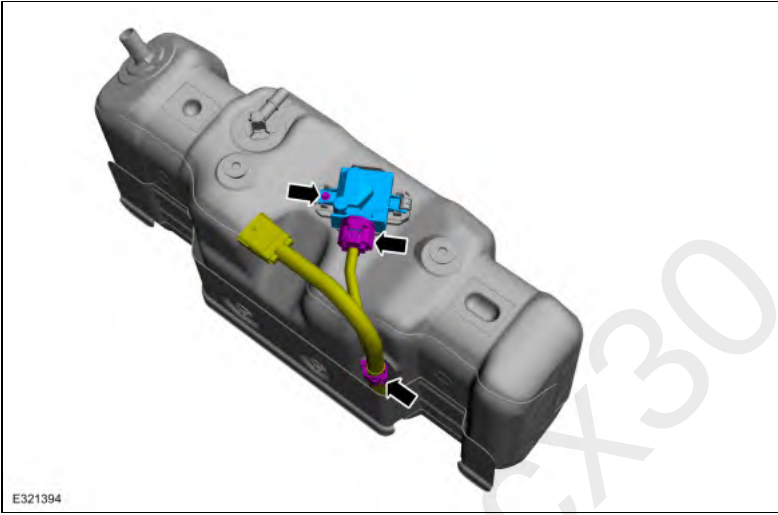


16.

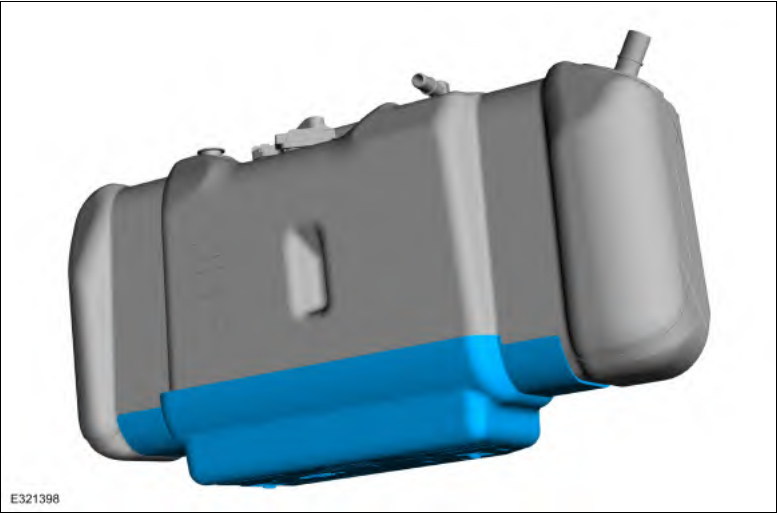
- Using a transmission jack, support the reductant tank.
Install the General Equipment: Transmission Jack
- Remove the reductant tank strap nuts, remove the straps, and then remove the reductant tank.



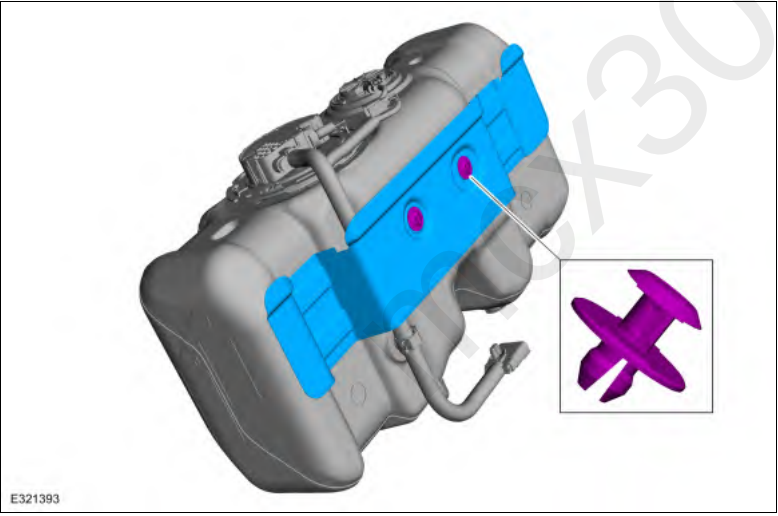
17. If needed disconnect reductant pump control module connector and detach wiring clip.



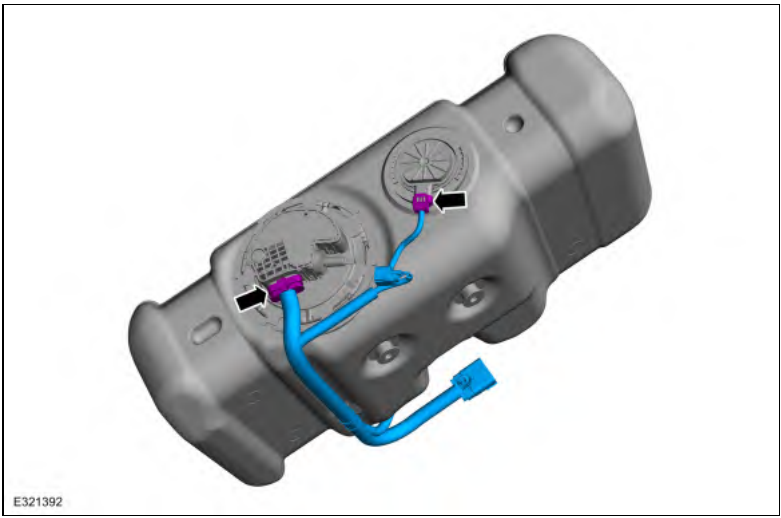
18. If needed remove the reductant tank lower cover.



19. If needed remove the pushpins and the reductant tank side cover.

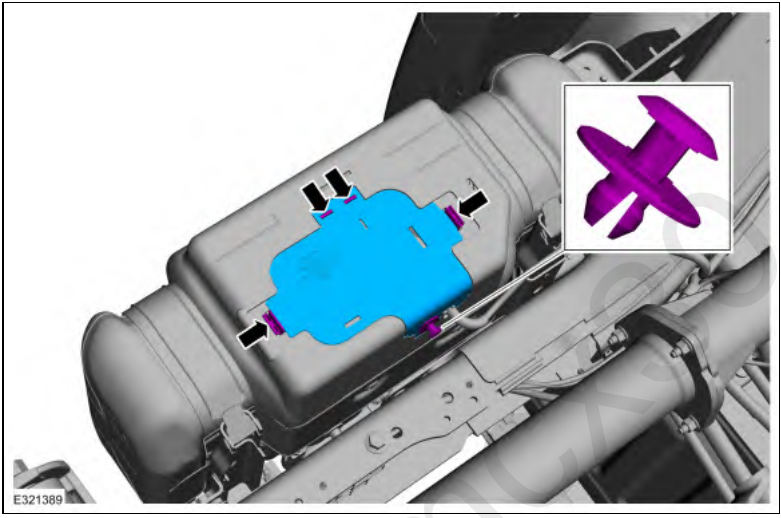


20. If needed disconnect the reductant pump and heater assembly electrical connector.



Outboard Frame Mounted Reductant Tank

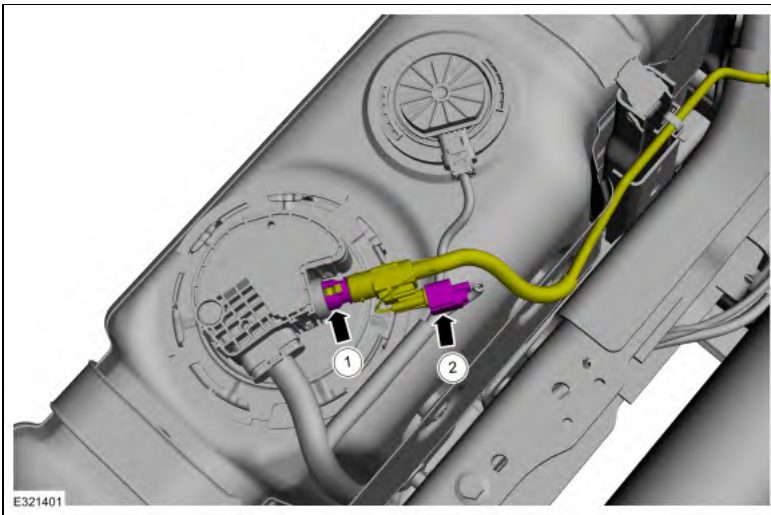
21. Remove the lower red ductant tank cover access door retainer and then remove the lower red ductant tank cover access door.



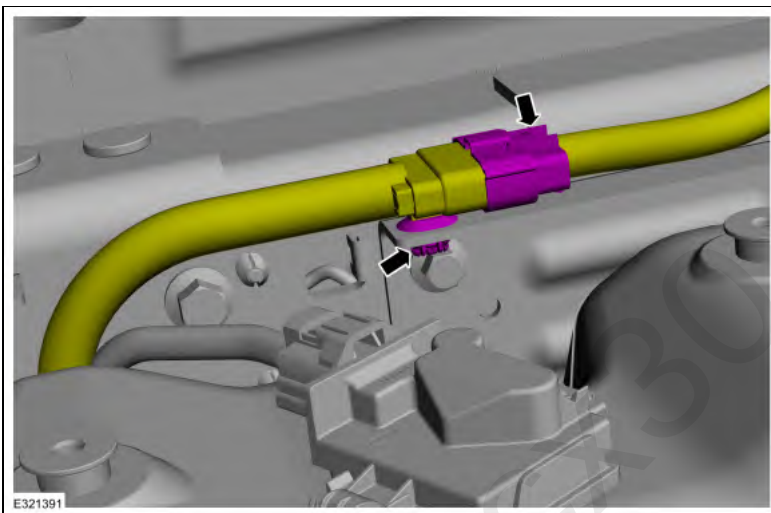
22. **NOTICE:** When disconnecting the red ductant pressure line from the red ductant pump assembly, gently press the red ductant pressure line connector towards the pump assembly and hold. Then press the connector tabs and pull the connector straight off the pump assembly nipple. Failure to follow these instructions may cause damage to the red ductant pump assembly and the red ductant pressure line.

NOTE: Disconnect the red ductant pressure line before disconnecting the red ductant pressure line heater electrical connector.

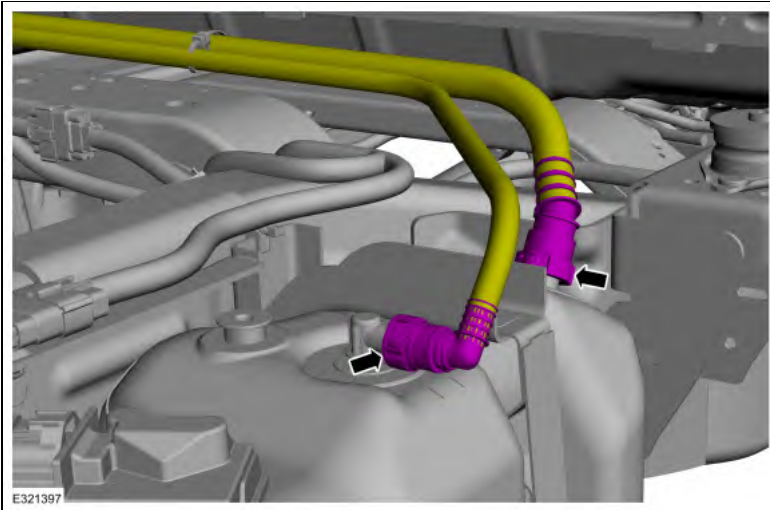
- 1. Disconnect the red ductant pressure line quick release coupling from the red ductant pump.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .
- 2. Disconnect the red ductant pressure line heater electrical connector.



23. Disconnect the reductant tank main harness electrical connector, and then release the electrical connector retainer.



- 24.
- Disconnect the reductant tank vent hose.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .
 - Disconnect the reductant tank fill hose.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .

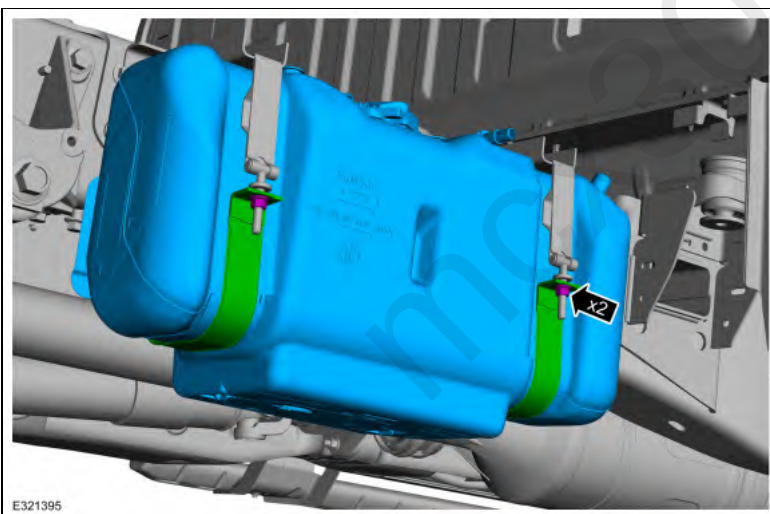


25.

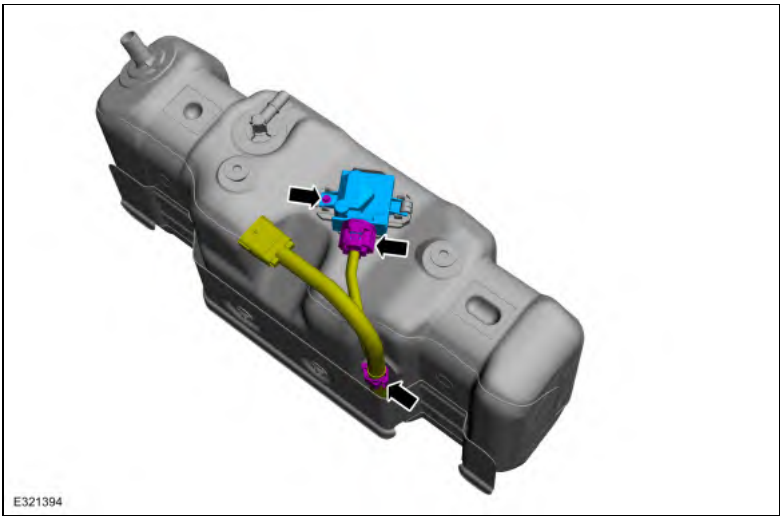
- Using a transmission jack, support the reductant tank.

Install the General Equipment: Transmission Jack

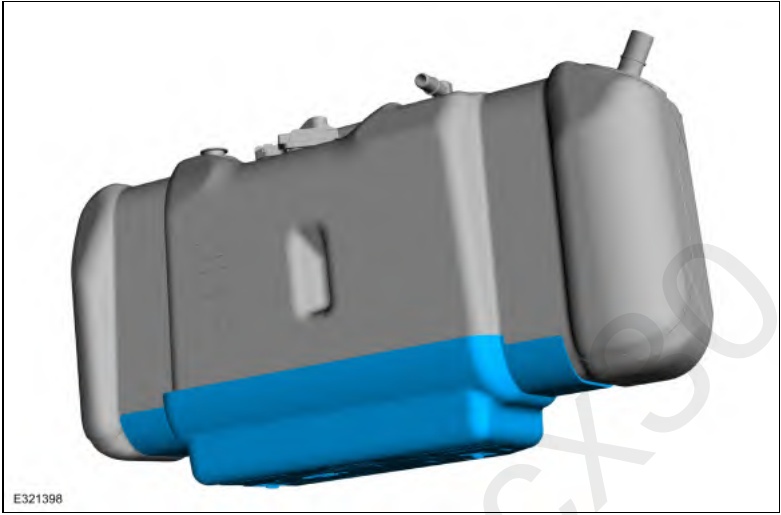
- Remove the reductant tank strap nuts, remove the straps, and then remove the reductant tank.



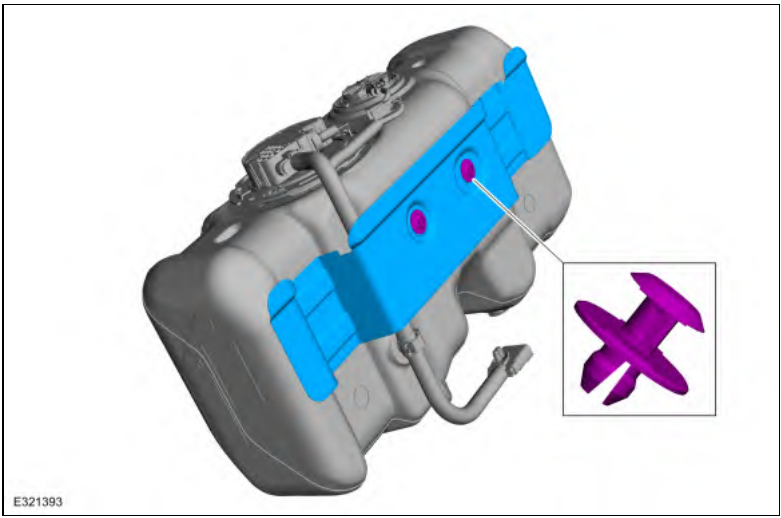
26. If needed disconnect reductant pump control module connector and detach wiring clip.



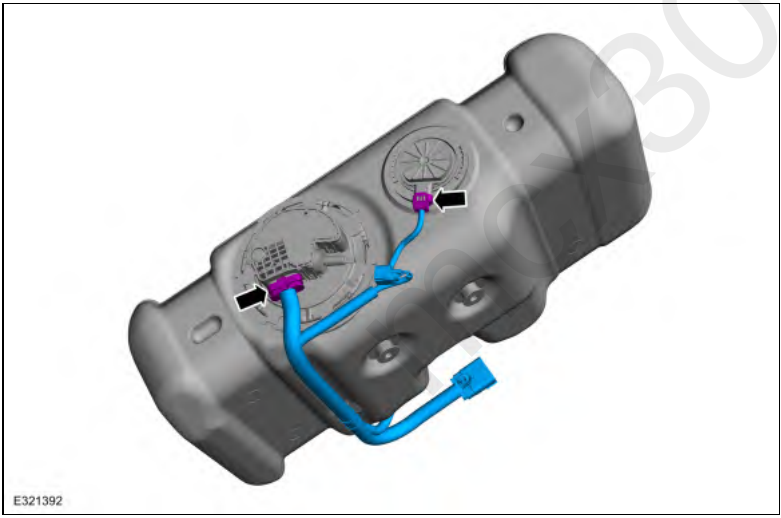
27. If needed remove the reductant tank lower cover.



28. If needed remove the pushpins and the reductant tank side cover.



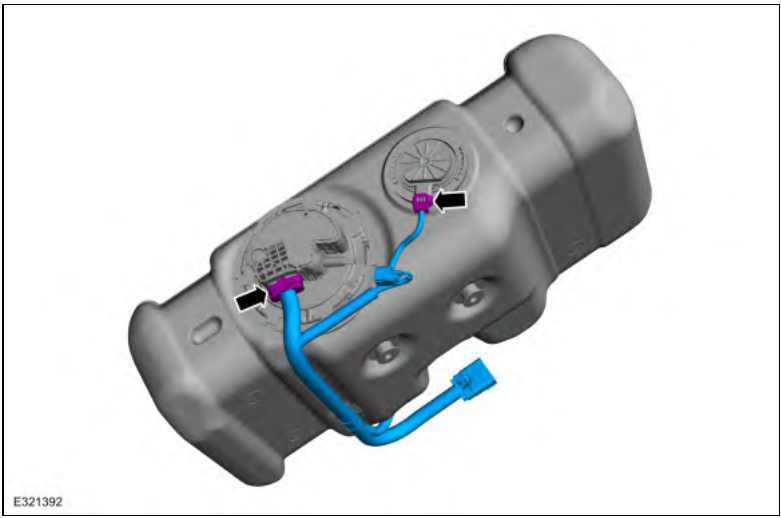
29. If needed disconnect the reductant pump and heater assembly electrical connector.



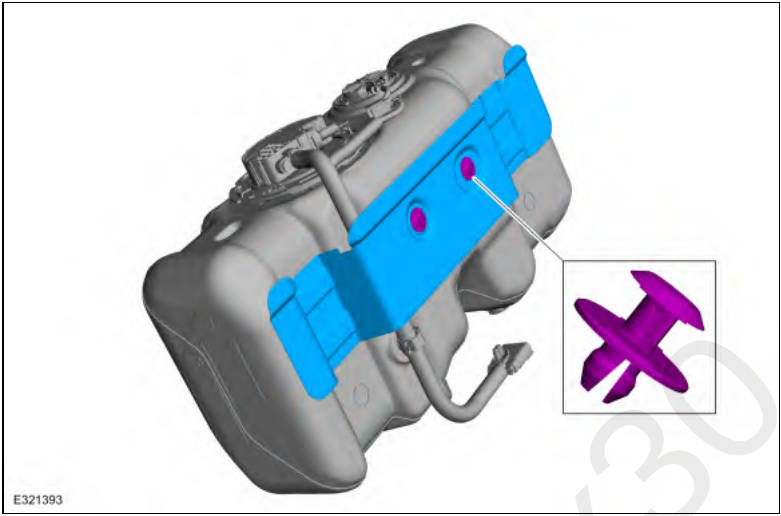
Installation

Outboard Frame Mounted Reductant Tank

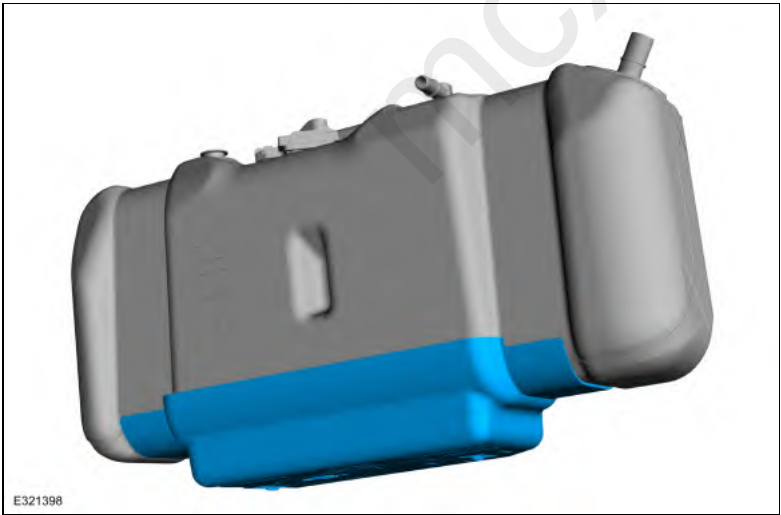
- 1. If removed, install the reductant pump and heater assembly electrical connector.



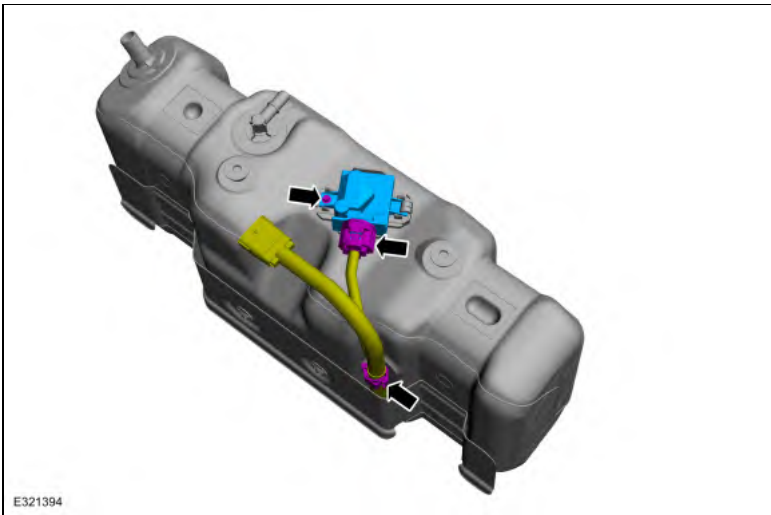
2. If removed, install the reductant tank side cover.



3. If removed, install the reductant tank lower cover.



4. If removed, connect reductant pump control module connector and attach wiring clip.
Torque: 22 lb.in (2.5 Nm)

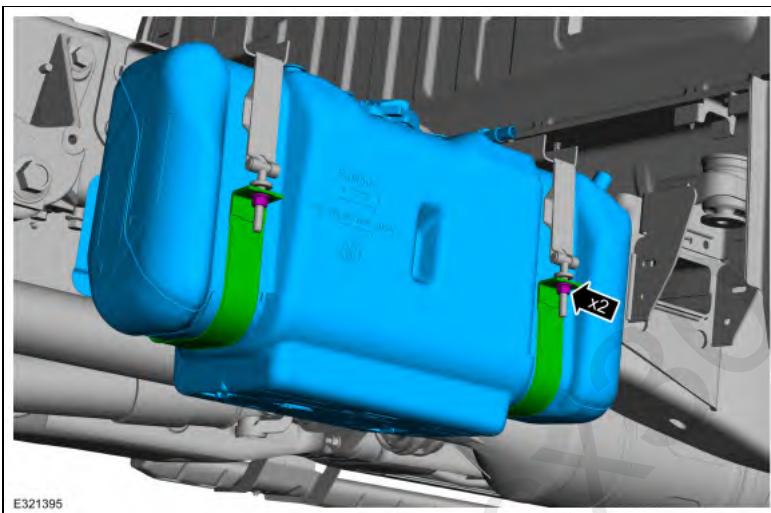


5.

- Using a transmission jack, support the reductant tank.

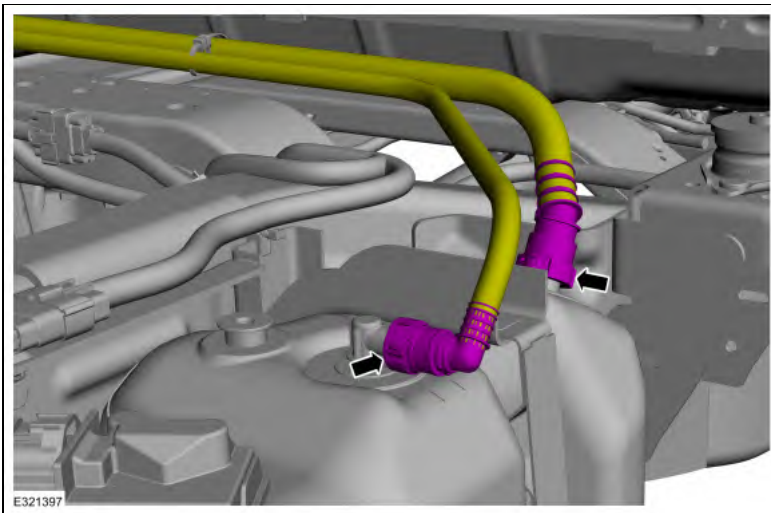
Install the General Equipment: Transmission Jack

- Install the reductant tank, install the straps and then install and tighten the reductant tank strap nuts.
Torque: 30 lb.ft (40 Nm)

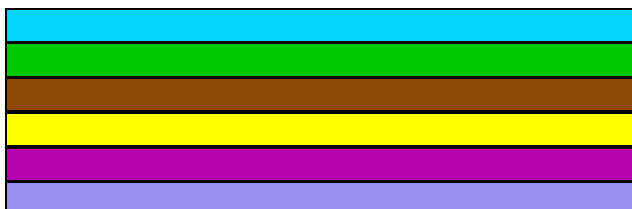
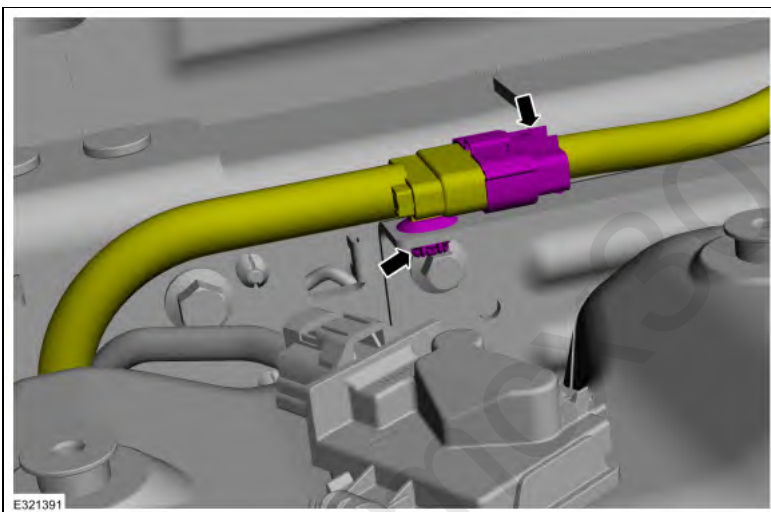


6.

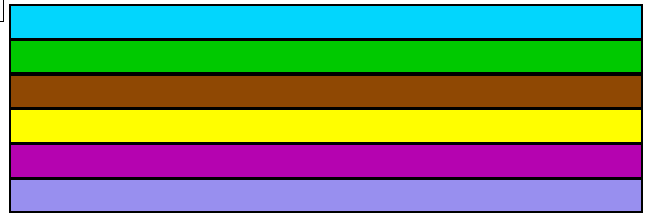
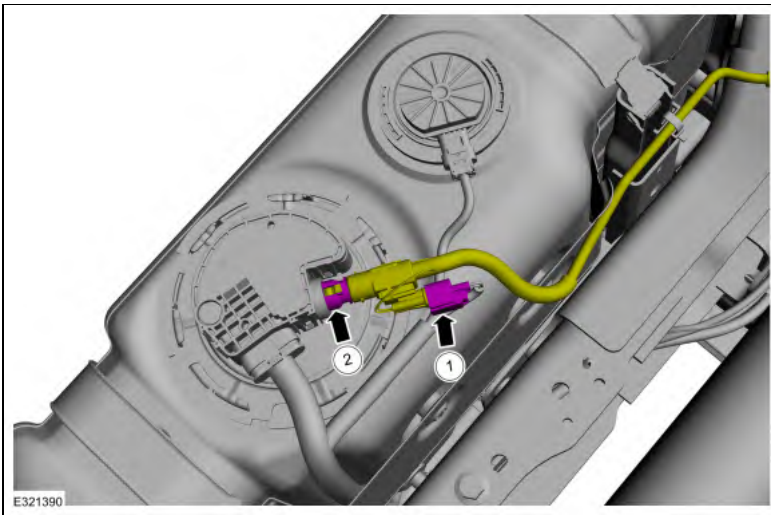
- Connect the reductant tank fill hose.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .
- Connect the reductant tank vent hose.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .



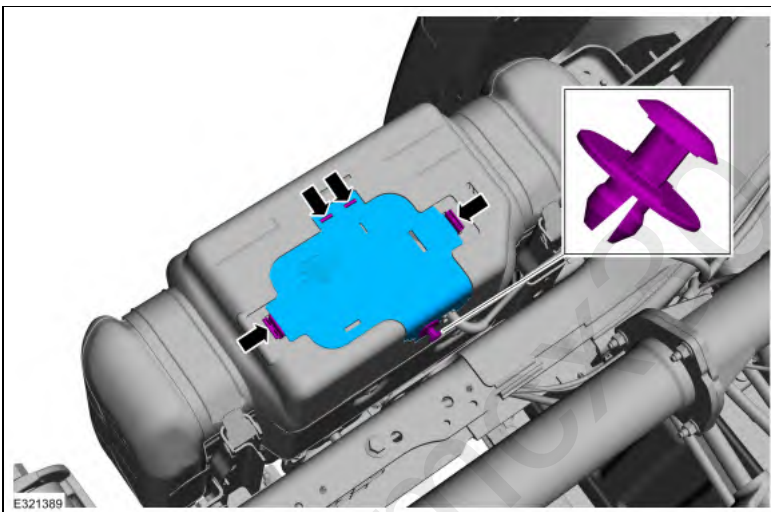
7. Connect the reductant tank main harness electrical connector, and then attach the electrical connector retainer.



- 8.
1. Connect the reductant pressure line heater electrical connector.
 2. Connect the reductant pressure line quick release coupling to the reductant pump.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .

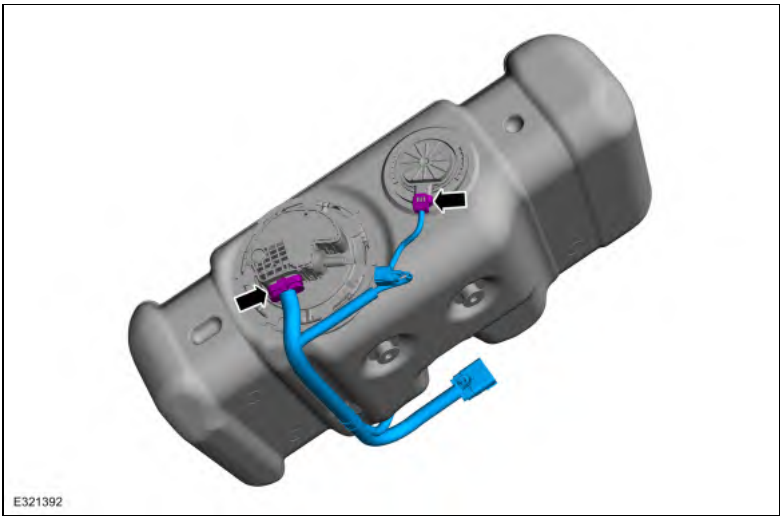


9. Install the lower reductant tank cover access door, and then install the lower reductant tank cover access door retainer.

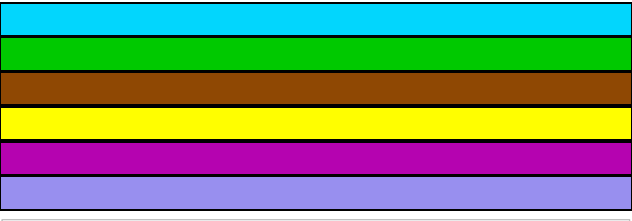
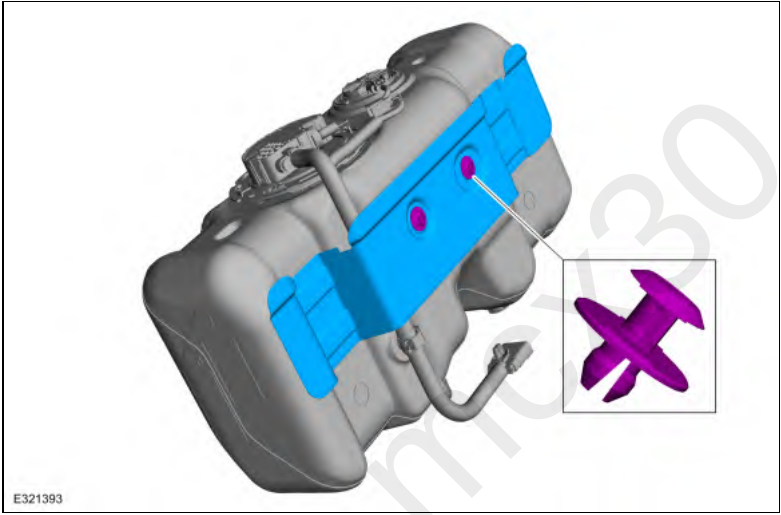


Inboard Frame Mounted Reductant Tank - Type 2

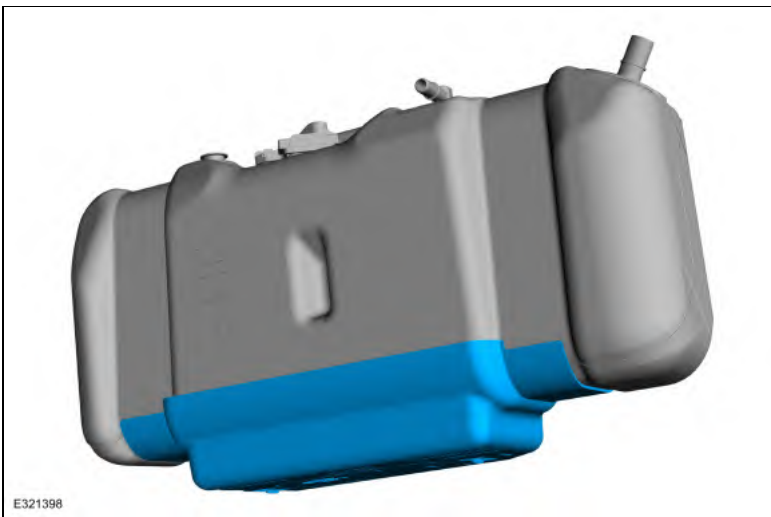
10. If removed, install the reductant pump and heater assembly electrical connector.



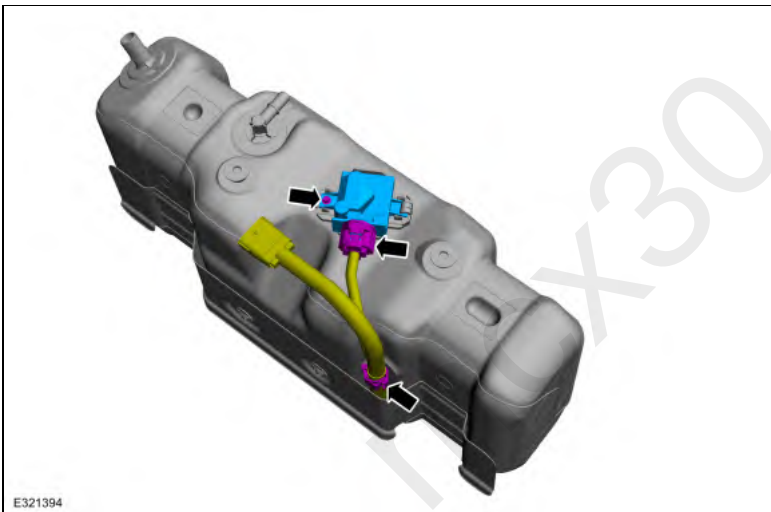
11. If removed, install the reductant tank side cover.



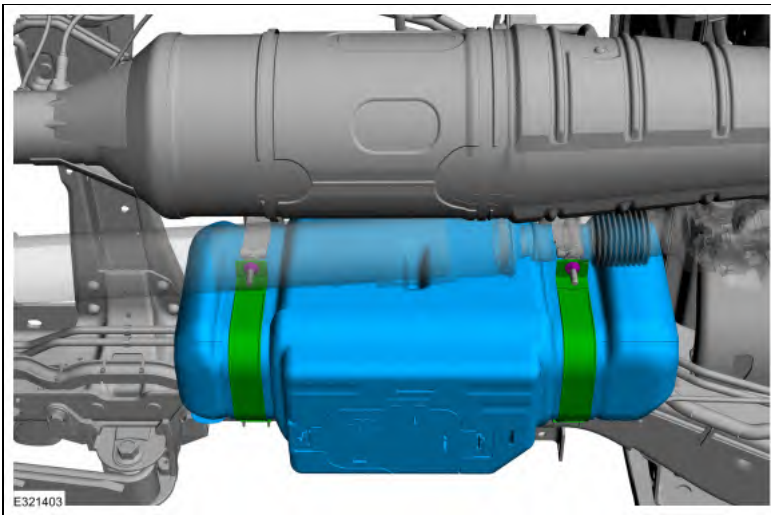
12. If removed, install the reductant tank lower cover.



13. If removed, connect reductant pump control module connector and attach wiring clip.
Torque: 22 lb.in (2.5 Nm)

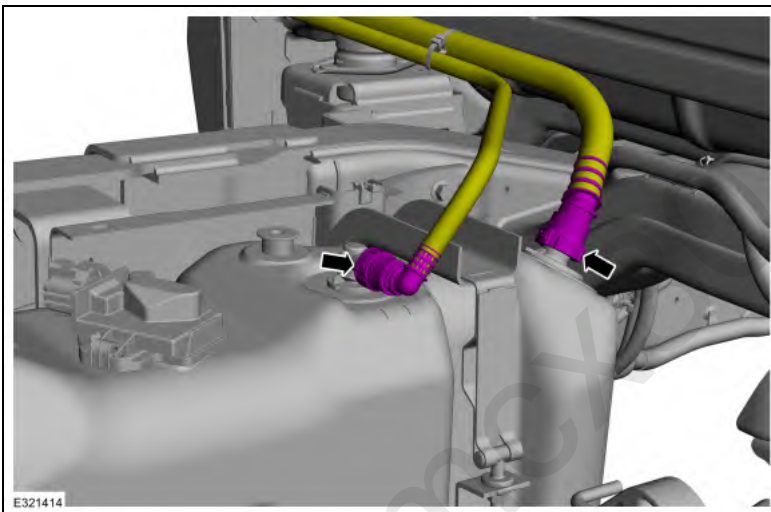


- 14.
- Using a transmission jack, support the reductant tank.
- Install the General Equipment: Transmission Jack
- Install the reductant tank, install the straps and then install and tighten the reductant tank strap nuts.
Torque: 30 lb.ft (40 Nm)

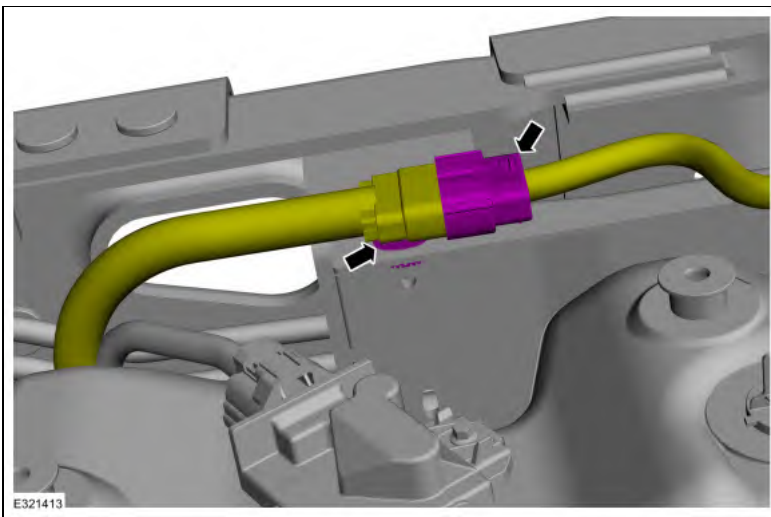


15.

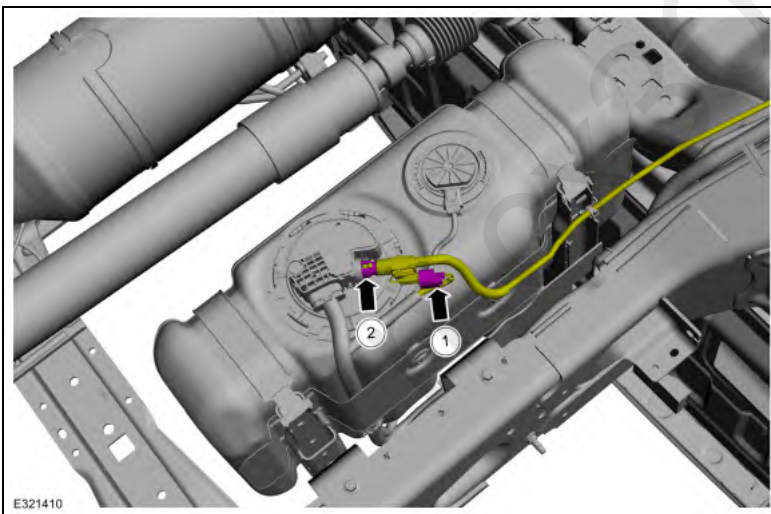
- Connect the reductant tank fill hose.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .
- Connect the reductant tank vent hose.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .



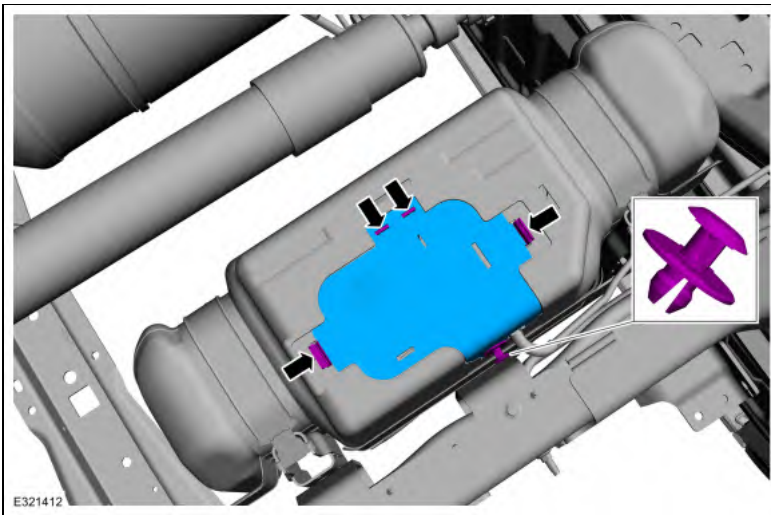
16. Connect the reductant tank main harness electrical connector, and then attach the electrical connector retainer.



- 17.
1. Connect the reductant pressure line heater electrical connector.
 2. Connect the reductant pressure line quick release coupling to the reductant pump.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .

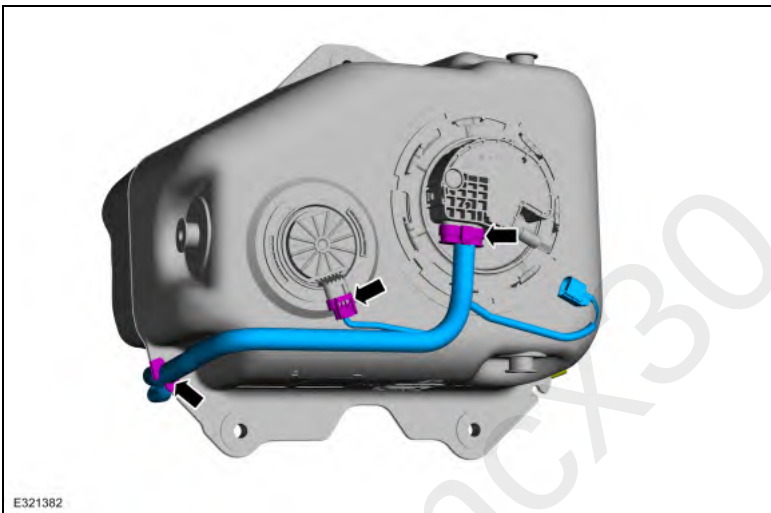


18. Install the lower reductant tank cover access door, and then install the lower reductant tank cover access door retainer.

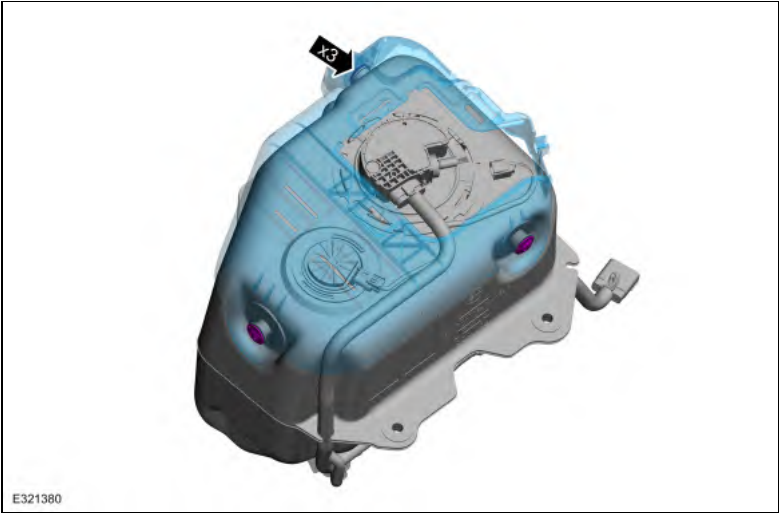


Inboard Frame Mounted Reductant Tank - Type 1

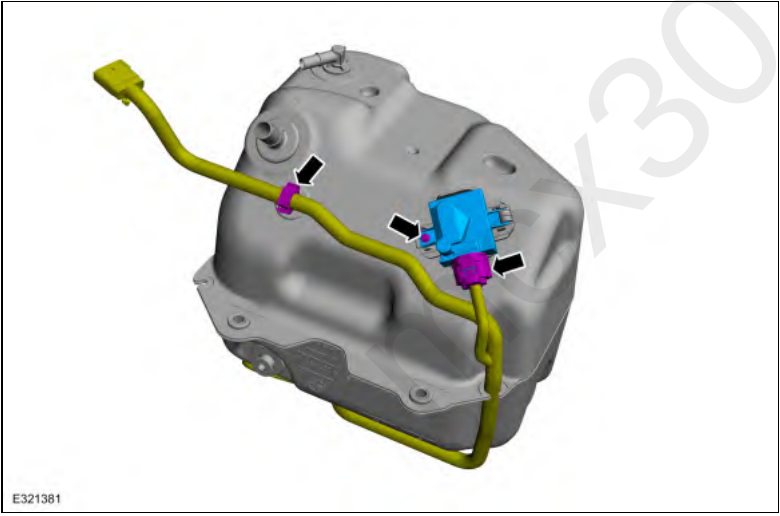
19. If removed, install the reductant pump and heater assembly electrical connector.



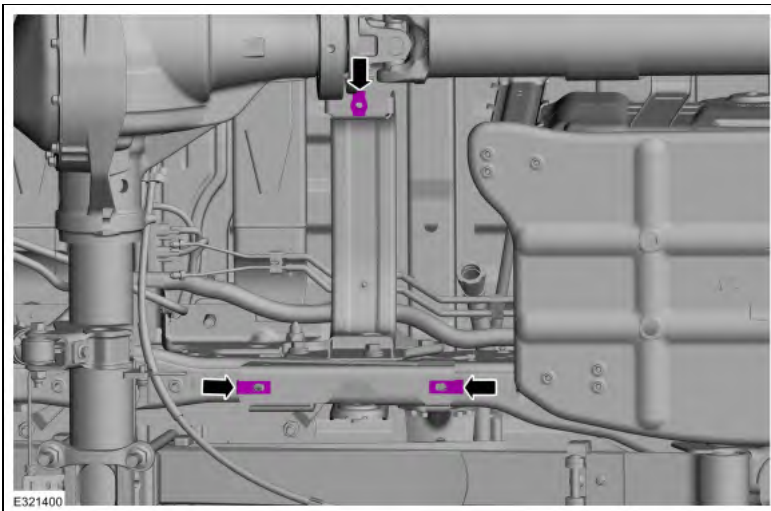
20. If removed, install the reductant tank lower cover.



21. If removed, connect reductant pump control module connector and attach wiring clip.
Torque: 22 lb.in (2.5 Nm)

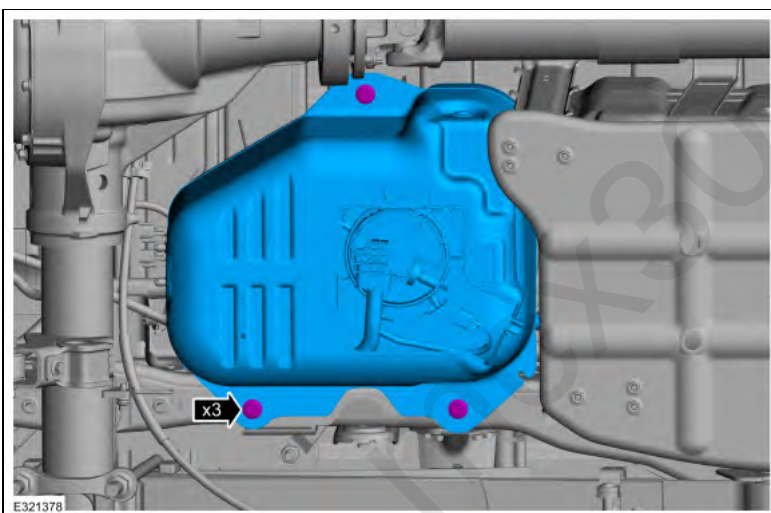


22. Install the new reductant tank retaining J-nuts.



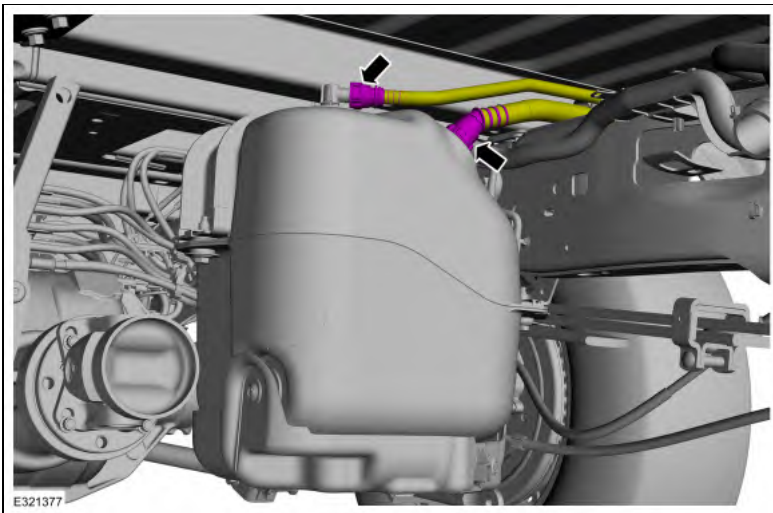
23.

- Using a transmission jack, support the reductant tank.
- Install the General Equipment: Transmission Jack
- Install the reductant tank, then install and tighten the reductant tank retaining bolts.
Torque: 30 lb.ft (40 Nm)

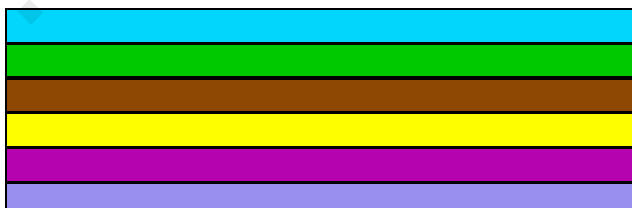
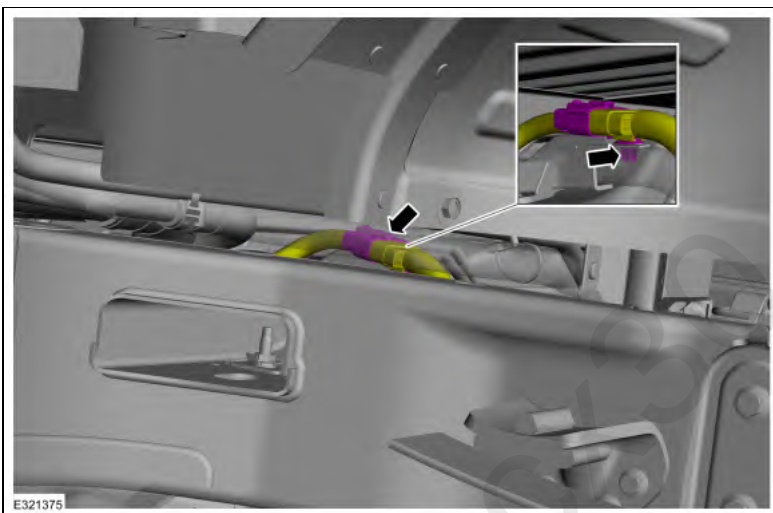


24.

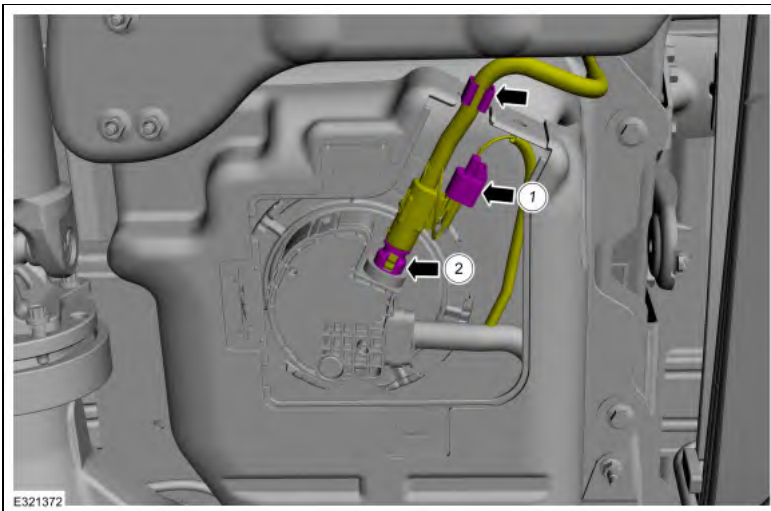
- Connect the reductant tank fill hose.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .
- Connect the reductant tank vent hose.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .



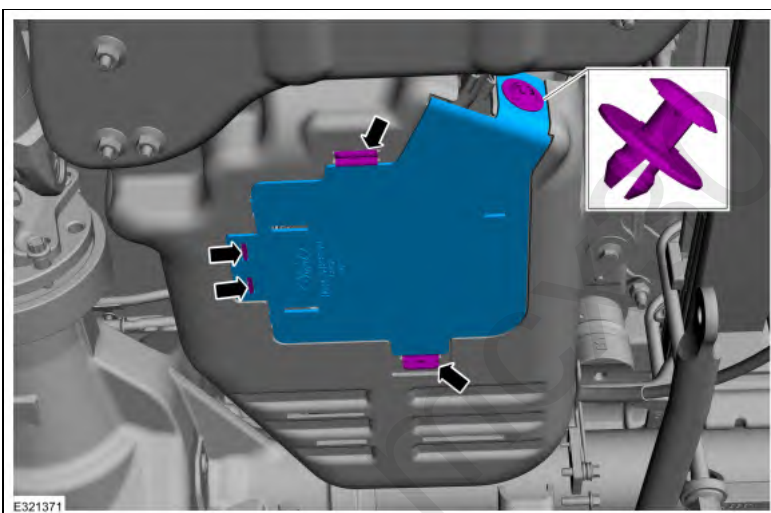
25. Connect the reductant tank main harness electrical connector, and then attach the electrical connector retainer.



- 26.
1. Connect the reductant pressure line heater electrical connector.
 2. Connect the reductant pressure line quick release coupling to the reductant pump.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information) .
 - Attach the reductant pressure line to the reductant tank cover retainer and the reductant tank.



27. Install the lower reductant tank cover access door, and then install the lower reductant tank cover access door retainer.



All vehicles

28. **NOTICE:** Always refill the reductant tank with NEW reductant fluid to avoid reductant system contamination.

Fill the reductant tank with new reductant fluid.