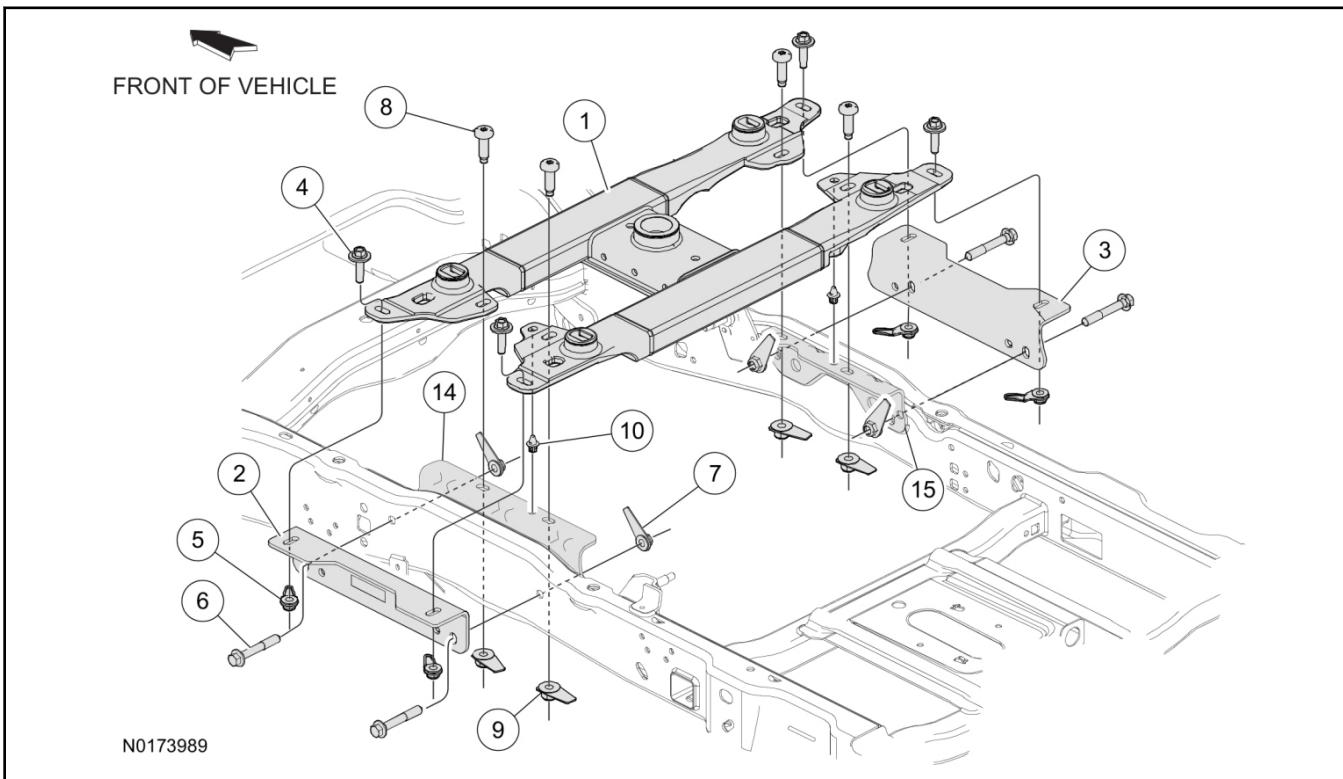


5th Wheel Hitch Crossmember Kits

CONTENTS

INSTALLATION

5th Wheel Hitch Crossmember

INSTALLATION**5th Wheel Hitch Crossmember****Review 5th Wheel Hitch Crossmember Kit(s)****NOTE:**

Callout items 14 and 15 are only included with kit HC3Z-5F057-B, for vehicles not equipped with inner L-brackets.

1. Review kit HC3Z-5F057-A components.

ITEM	QTY	DESCRIPTION
1	1	5th Wheel Hitch Crossmember
2	1	Outer L-Bracket - LH
3	1	Outer L-Bracket - RH
4	4	Bolt and Washer - M14X45 Hex
5	4	Flag Nut - M14
6	4	Bolt - M16X103.5
7	4	Flag Nut - M16 (Long)
8	4	Bolt - M16X45 - Torx
9	4	Flag Nut - M16 (Short)
10	2	Locating Pins
11	1	Trim Kit (Not Shown)
12	1	Trailer Hitch Prep Package (Not Shown)
13	1	Installation Instructions

INSTALLATION (Continued)

2. Review additional HC3Z-5F057-B kit components listed below (vehicles not equipped with inner L-brackets).

ITEM	QTY	DESCRIPTION
14	1	Inner L-Bracket - LH
15	1	Inner L-Bracket - RH

Pickup Bed Removal**NOTE:**

Diesel with 8.0 foot pickup bed shown, all others similar.

3. Remove the tailgate from the pickup bed.
 - 1 Open the tailgate.
 - 2 While an assistant holds the tailgate, detach the tailgate tether cables (one each side).
 - 3 Remove the tailgate from the pickup bed.
4. If equipped, remove the bed liner.
 - Bed liners can not be reinstalled after the 5th wheel hitch crossmember is installed.
5. Remove the fuel fill cap.
 - If equipped, remove the urea fill cap.
6. **NOTE:**
Diesel engine shown, gas engine similar.

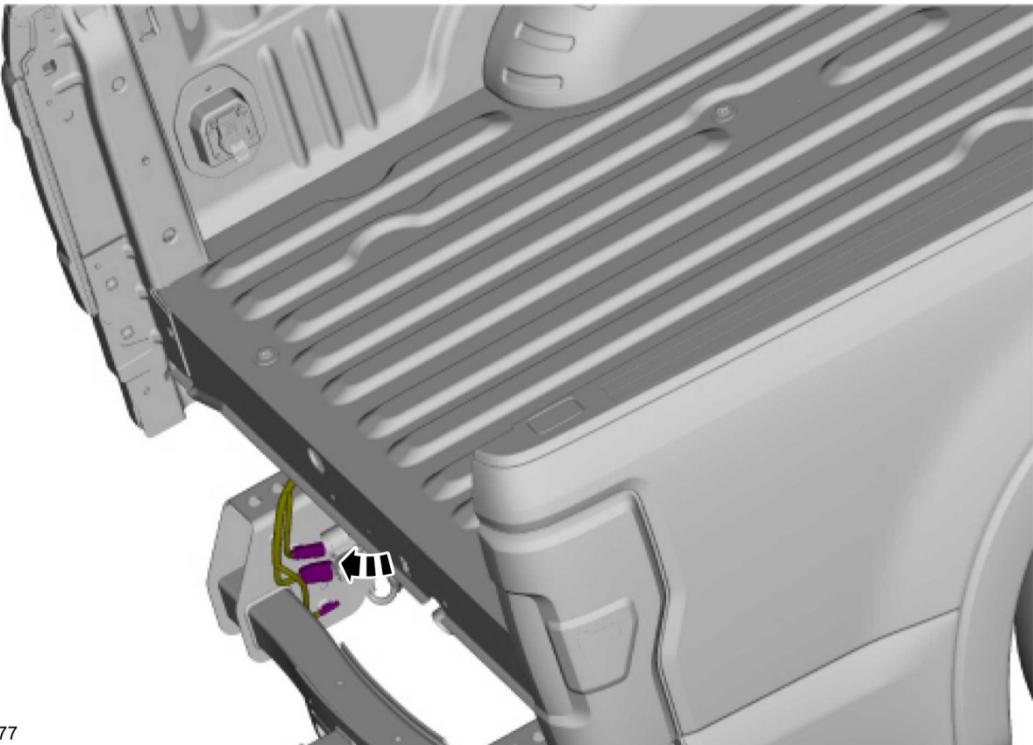
Remove the filler and urea (if equipped) pipe retaining screws and position the filler pipe(s) down and out of the bed, to prevent them from catching on the bed when raised.



INSTALLATION (Continued)**NOTE:**

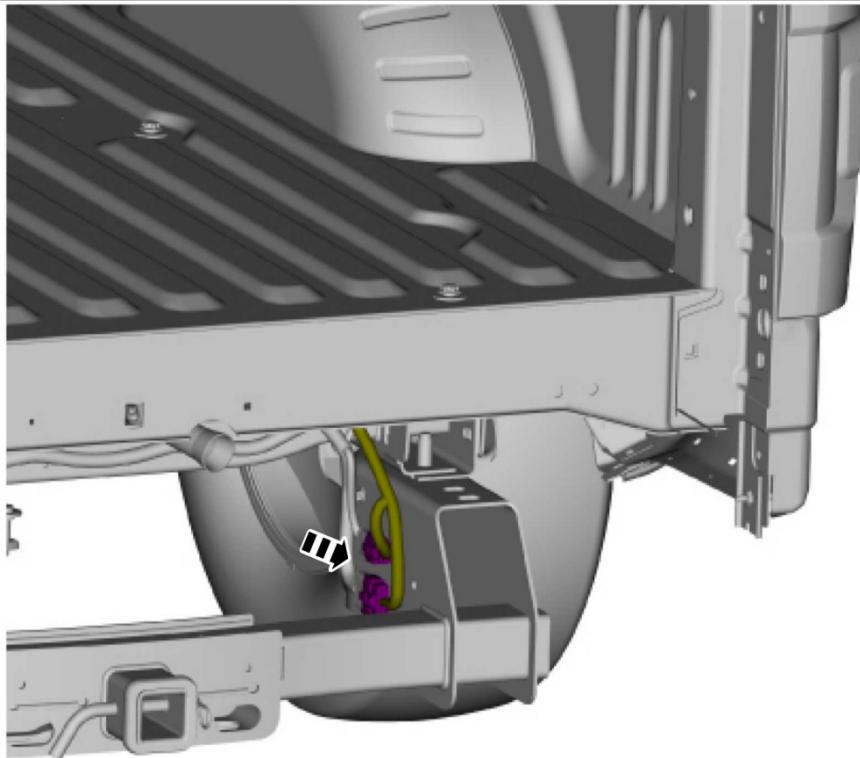
Bumper and spare tire are removed for clarity.

7. Disconnect the LH wire harness connectors located on hitch.



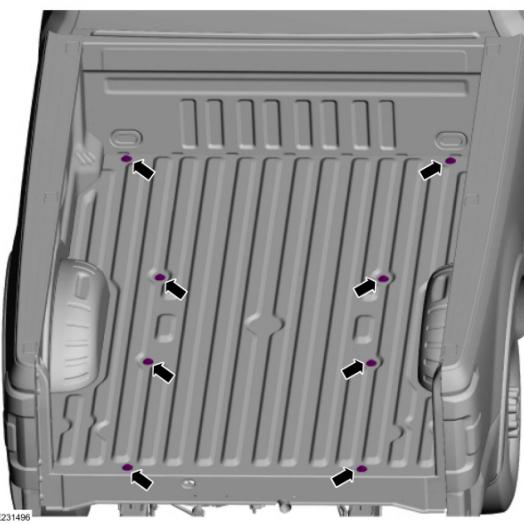
INSTALLATION (Continued)

8. Disconnect the RH wire harness connectors located on hitch.



9. Remove the pickup bed bolts.

- Use a 24EP TORX Plus® socket, such as Snap-on® SLEP240, or equivalent.



INSTALLATION (Continued)**⚠ CAUTION:**

Handle the pickup bed carefully when removing from the vehicle to avoid damage to the truck cab or pickup bed finish.

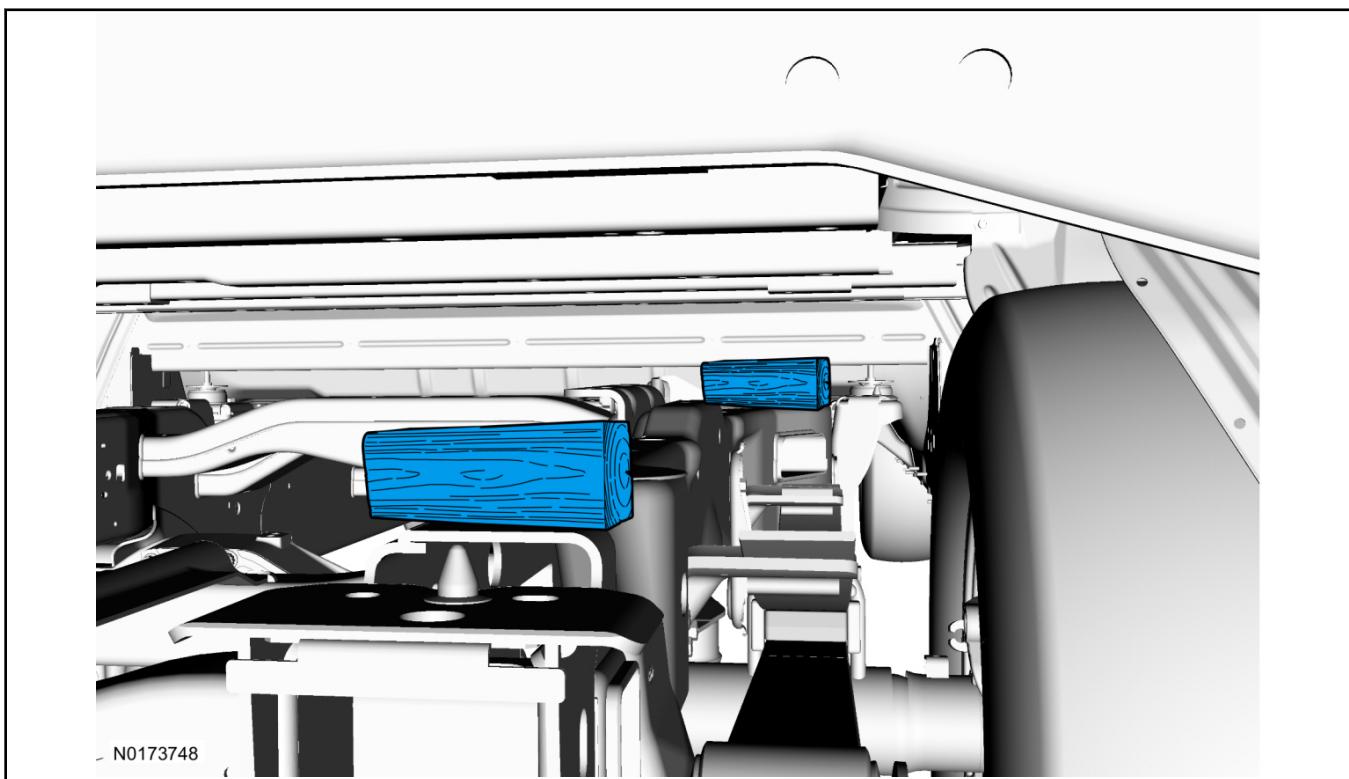
⚠ CAUTION:

Four people are recommended for lifting the pickup bed. An additional (5th person) is needed to insert the wooden blocks.

10. NOTE:

RH side shown, LH side similar.

Raise the pickup bed and place four 4" by 4" (101.6 mm) wooden blocks at four points on the frame. Then Lower the bed slowly onto the wooden blocks.



Pickup Bed Preparation**CAUTION:**

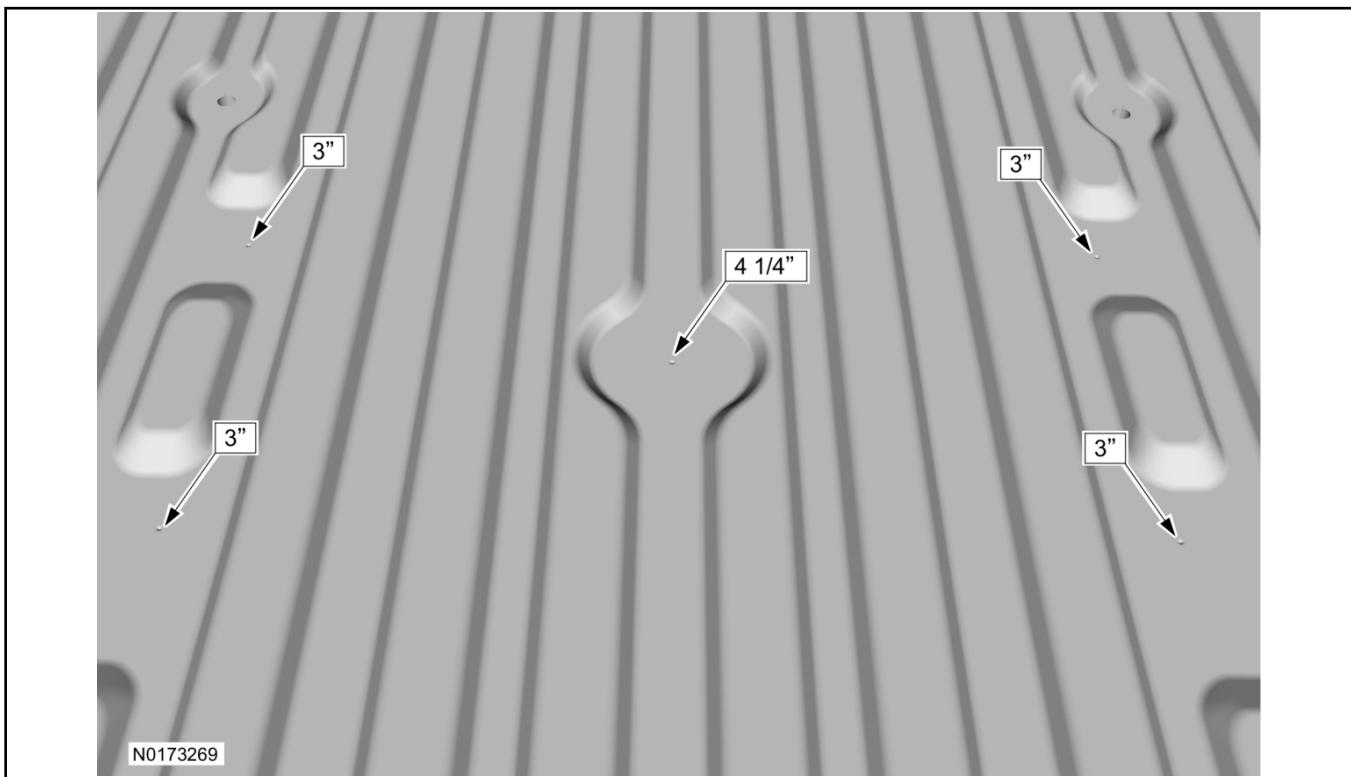
Be careful when climbing onto and working inside the pickup bed. If tipping occurs readjust position of wooden blocks.

NOTE:

Read this procedure before drilling any holes to ensure accurate placement.

11. Identify the pickup bed hole drill locations and drill holes as follows:

- 1 Locate the five dimples in the pickup bed. These dimples indicate the center hole for drilling holes that will allow the 5th wheel hitch pucks on the crossmember to fit through the pickup bed.
- 2 Using a 4 1/4" hole saw, cut out the center puck hole (See Figure).
- 3 Using a 3" hole saw cut out the 4 outer puck holes (See Figure).



12. Deburr the rough edges of the five newly drilled holes.
13. Apply Motorcraft® Rust Inhibitor PM-13A on the five drilled hole edges.

INSTALLATION (Continued)**Fifth Wheel Hitch Crossmember Installation****NOTICE:**

Use caution not to damage the vehicle wire harness while installing the crossmember/bolts/flag nuts on the RH side of the vehicle frame.

NOTE:

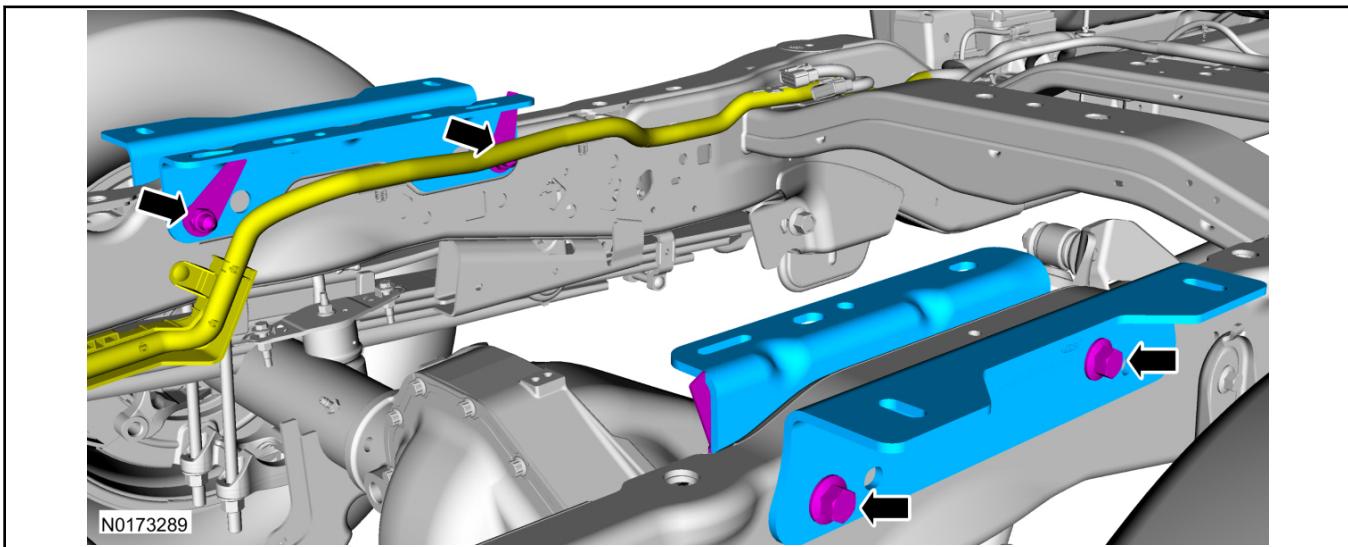
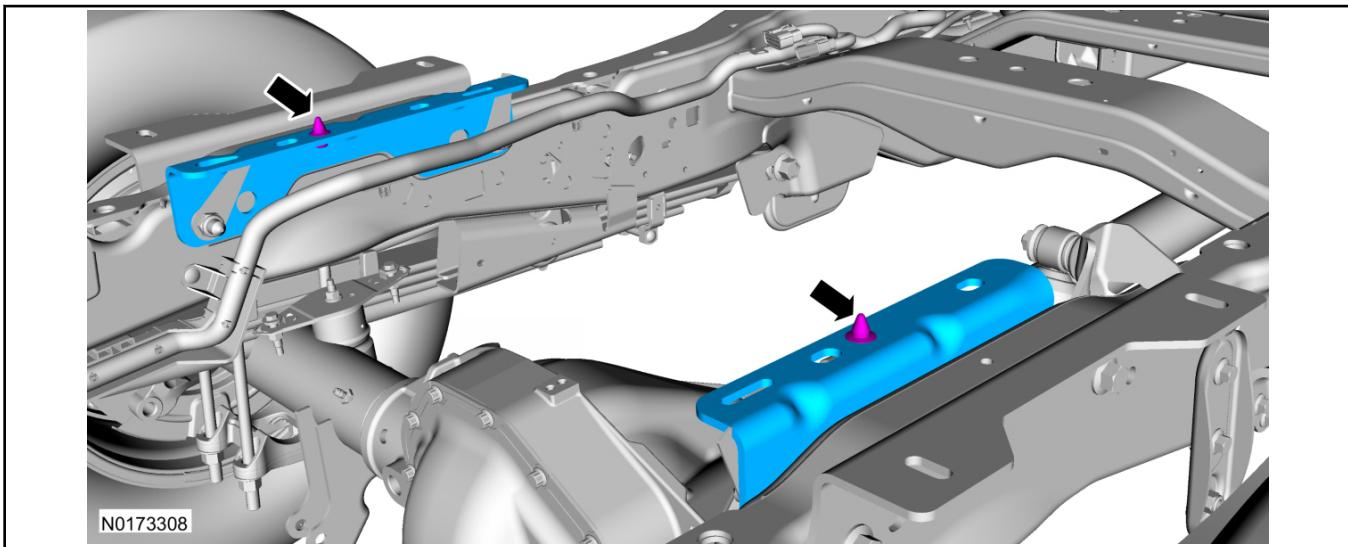
The wire harness is highlighted yellow in the illustration below.

14. NOTE:

Some vehicles may have the inner L-bracket installed/welded on the frame from factory.

Position the crossmember RH and LH L-brackets. Install the bolts (4) and flag nuts (4).

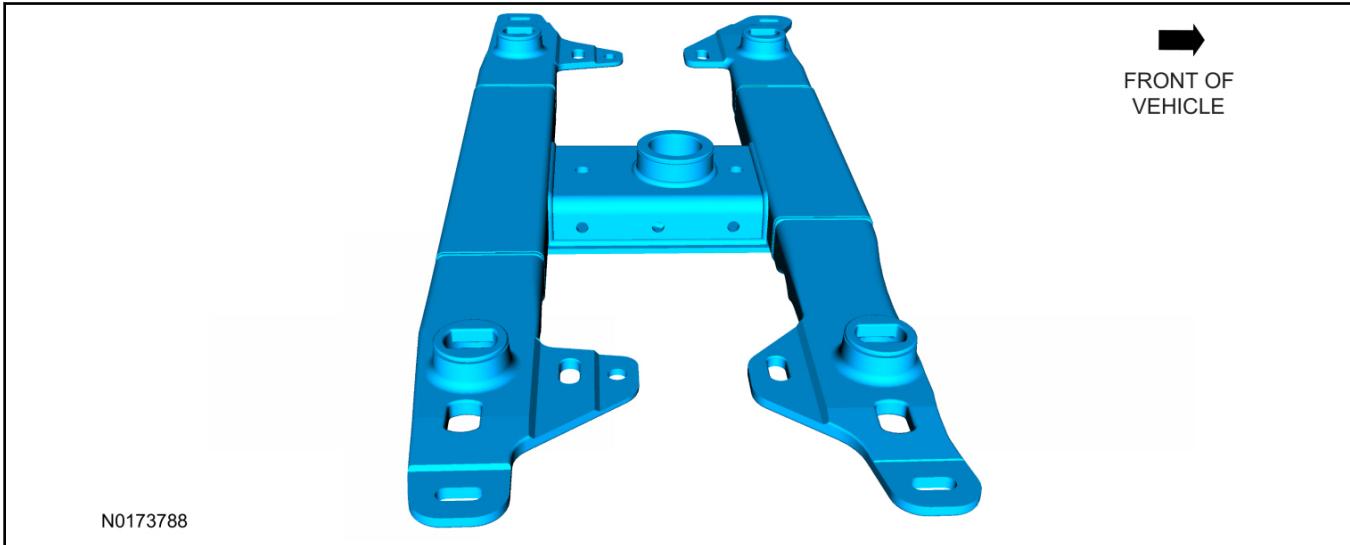
- Do not tighten at this time.

**15. Install the crossmember locating pins (2) onto the LH and RH inner L-brackets.**

INSTALLATION (Continued)

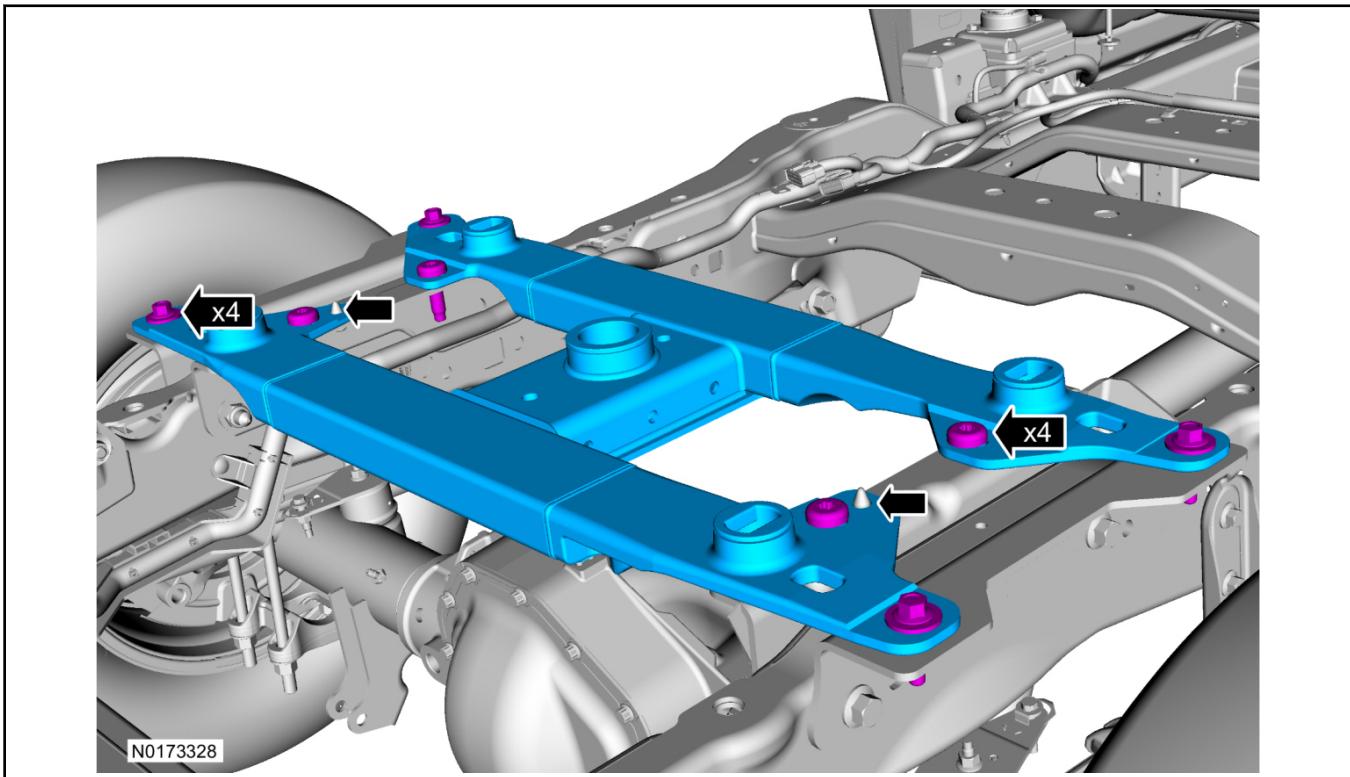
16. Identify the front of the crossmember.

- The offset of the center puck sits on the front half of the crossmember and should sit closest to the vehicle cab.



17. Install the 5th wheel hitch crossmember onto the frame

- 1 Slide the crossmember between the frame and pickup bed and onto the crossmember locating pins.
- 2 Install the torx bolts (4) and flag nuts (4).
- 3 Install the crossmember upper bolts (4) and flag nuts (4).
- Do not tighten at this time.



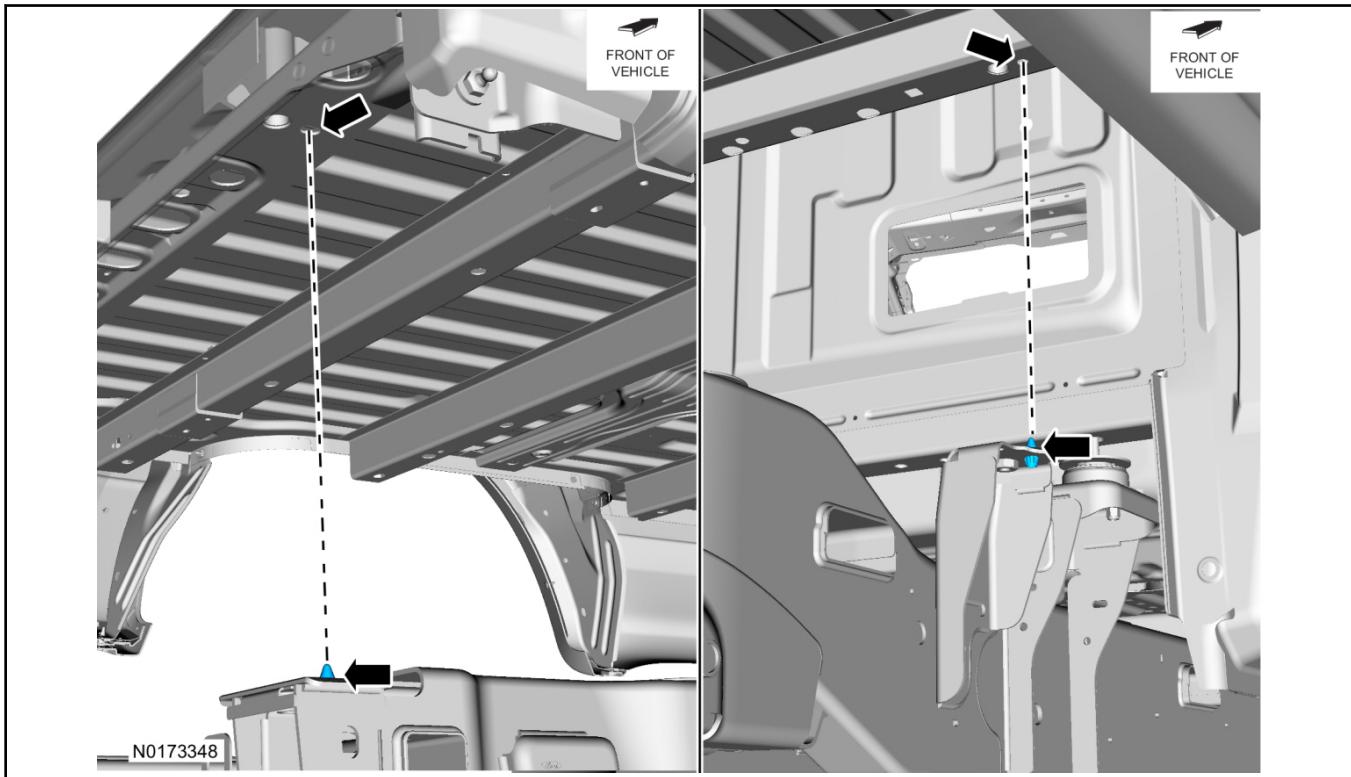
INSTALLATION (Continued)

18. Tighten the 5th wheel hitch crossmember retainers in the following sequence:

- 1 Tighten the RH and LH L-bracket (4) bolts to 184 lb-ft (250 Nm).
- 2 Tighten the crossmember torx (4) bolts to 173 lb-ft (235 Nm).
- 3 Tighten the crossmember upper (4) bolts to 110 lb-ft (150 Nm).

Pickup Bed Installation**NOTICE:**

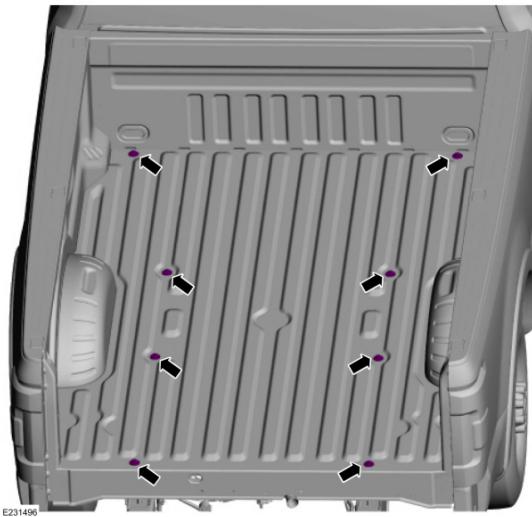
When lowering the pickup bed onto the frame ensure the bed to frame locating pins are properly aligned and installed into the locating holes in the pickup bed.



INSTALLATION (Continued)

19. Remove the wooden blocks and lower the pickup bed onto the frame. Install the pickup bed bolts.

- Ensure the bed locating pins are properly installed in the frame and pickup bed, to prevent misalignment.
- Tighten the eight bolts to 129 lb ft (175 Nm).

**20. NOTE:**

Diesel engine shown, gas engine similar.

Install the filler pipe and screws.

- Fuel filler pipe: Tighten to 44 lb in (5.0 Nm).
- If equipped, urea filler pipe: Tighten to 22 lb in (2.5 Nm).

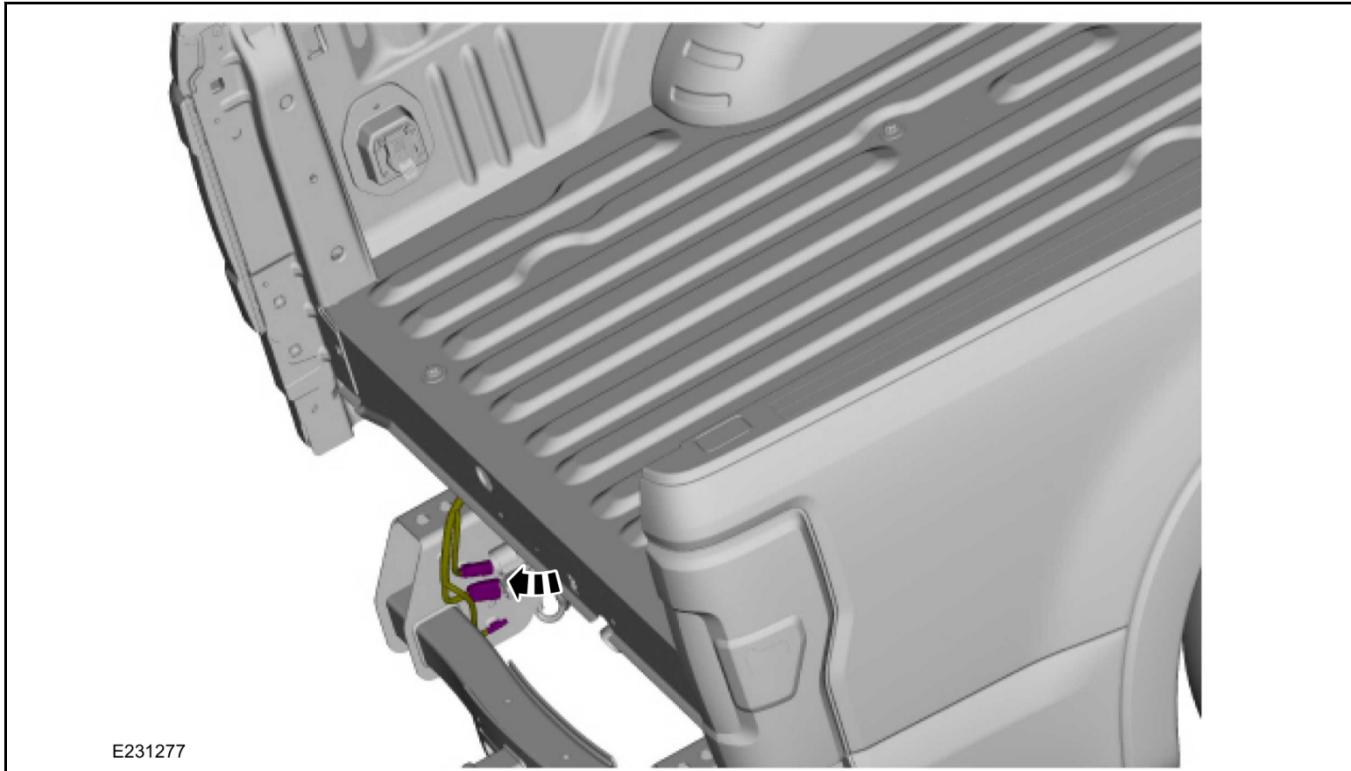


INSTALLATION (Continued)

21. Install the fuel fill cap.
 - If equipped, install the urea fill cap.

22. **NOTE:**
Bumper removed for clarity.

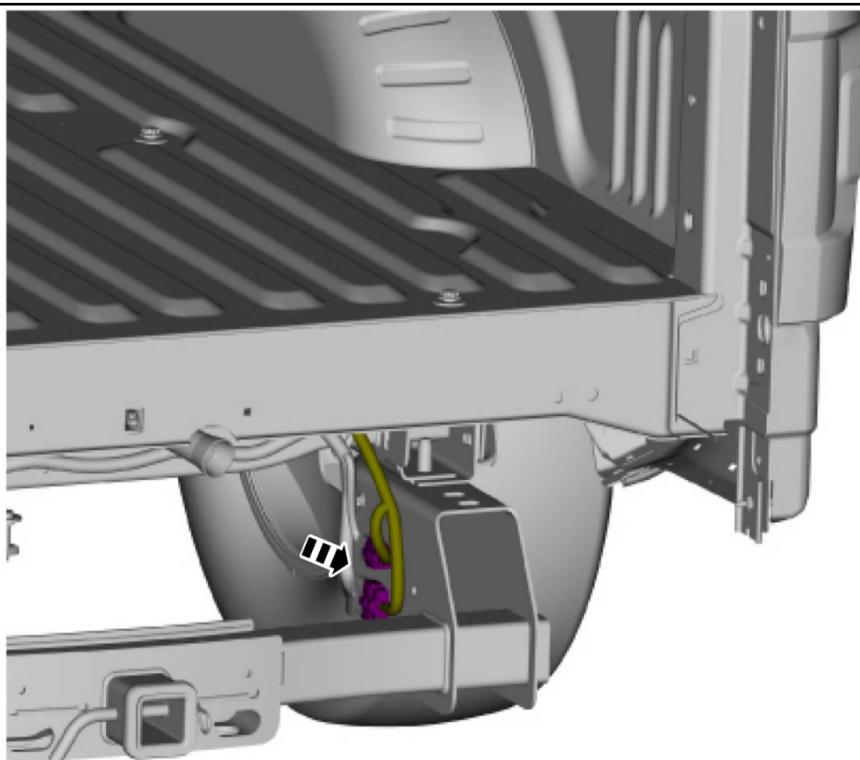
Connect the LH wire harness connectors located on hitch.



INSTALLATION (Continued)**23. NOTE:**

Bumper removed for clarity.

Connect the RH wire harness connectors located on hitch.



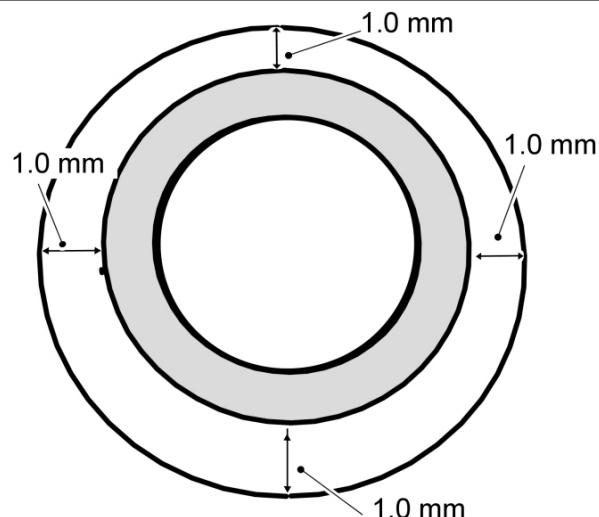
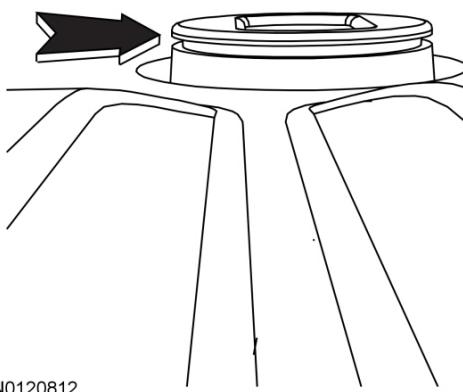
E231276

24. Install the tailgate onto the pickup bed.

- Attach both tailgate support cables to the sides of the pickup bed, then raise the tailgate.

25. While inside the pickup bed, inspect the fifth wheel hitch for proper puck placement.

- Puck grooves should sit above the drilled holes.
- There should be at least 1 mm (0.039 in) of clearance between the 5th wheel hitch pucks and the holes in the pickup bed.

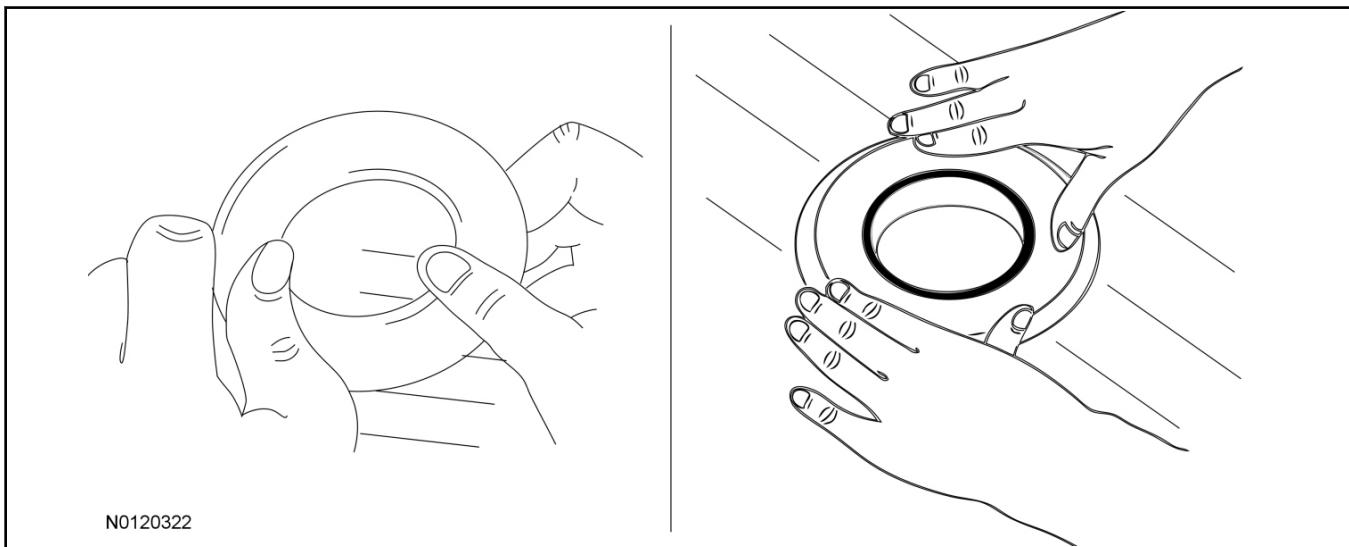


INSTALLATION (Continued)

26. Clean any debris and marks from the pickup bed.
27. Check the vehicle exterior lighting for proper operation.

Install Trim Kit

28. Install the trim rings.
 - Slightly invert the trim ring by pressing on the inner diameter with your thumbs.
 - Insert the trim ring around the groove of the mounting puck. Work the trim ring around the puck to seat.
 - Repeat for remaining mounting pucks.



29. Install the mounting puck center covers.

