

## Document ID: 4647051

# Spare Wheel Carrier Package Installation

## Installation Instructions Part Number

84081014



### Kit Contents

Item	Qty	Description
1	1	SPARE TIRE CARRIER ASSEMBLY
2	1	FRONT LOWER CARRIER BRACKET
3	2	REAR LOWER CARRIER BRACKET

© 2018 General Motors. All rights reserved.

Item	Qty	Description
4	2	M10 x 1.5 x 40 BOLT
5	1	M6 x 1.0 x 86.65 BOLT (FOR FRONT LOWER BRACKET)
6	2	M6 x 1.0 x 35.65 BOLT (FOR REAR LOWER BRACKETS)
7	3	WHEEL LUG NUT – M14x1.5
-	1	Installation Instructions

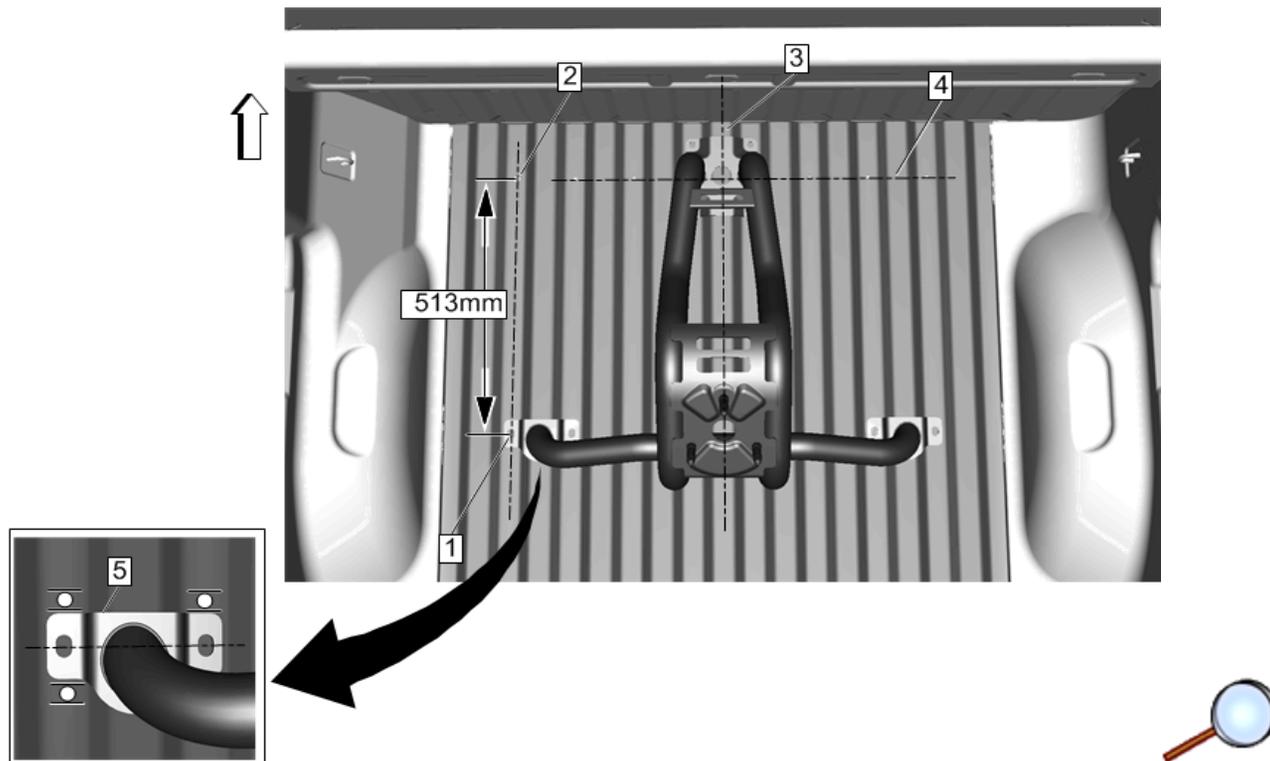
### Tools Needed

- Drill & Drill Bits: 5mm, 8.5mm and 13mm
- Center Punch and/or Paint Pen (if vehicle has spray-in bed liner)
- Torque Wrench
- Sockets: 10mm, 13mm, 15mm and 21mm
- Pry-bar and/or flat head screwdriver
- Corrosion inhibitor (GM P/N: 12371287)
- Thread lock

### Procedure

#### 1. **Determine vehicle type – Crew Cab Short Box or Extended/Crew Cab Long Box Configuration:**

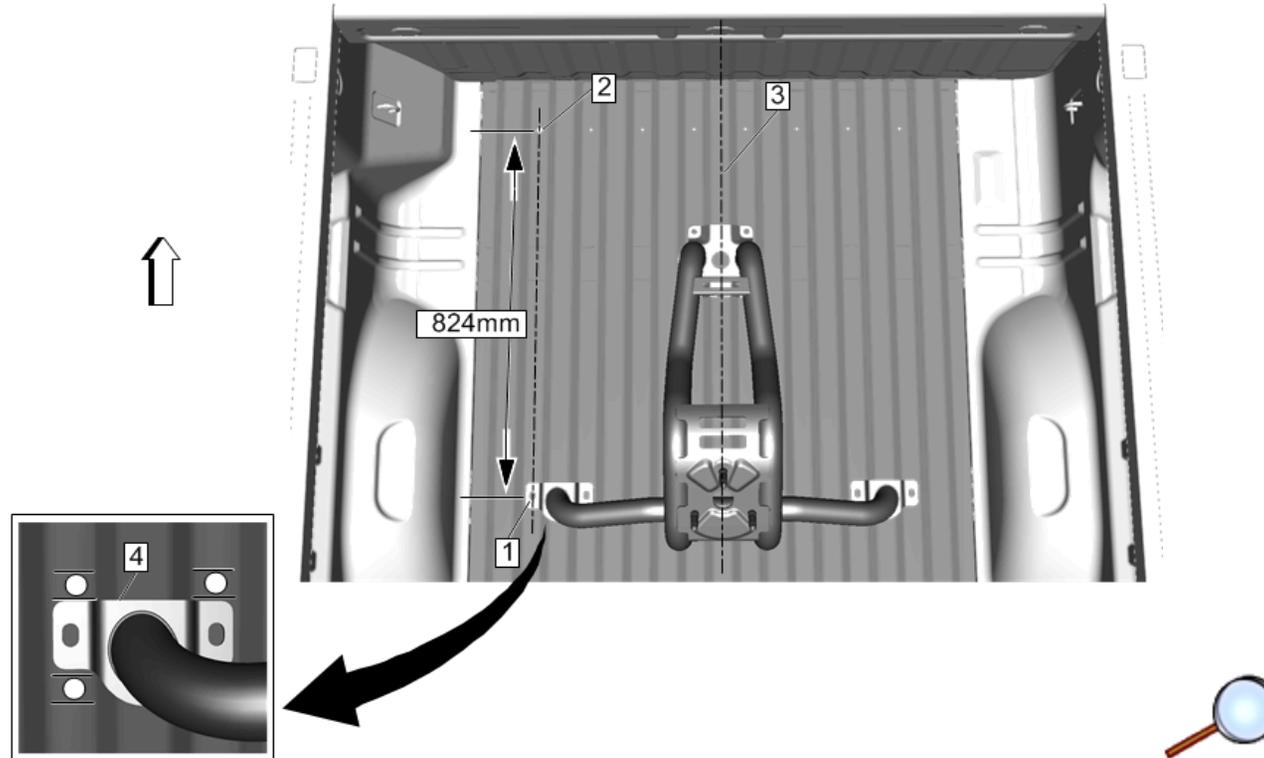
- 1.1. Determine if the vehicle is a Crew Cab with Short Box (5'-2") or Extended/Crew cab with Long Box (6'-2").
- 1.2. If vehicle is a Crew Cab with Short Box, proceed to **STEP 2**. If vehicle is an Extended Cab or Crew Cab with a Long Box, skip to **STEP 3**.



2. **Spare tire carrier assembly – Position for CREW CAB Short Box (5'-2") Vehicles:** Locate the 13.1mm diameter gage hole (2) in the front, left-hand corner of the pick-up box floor. Center (3) the Spare Tire Carrier Assembly (Item 1) cross-car on the pick-up box floor. Position the assembly so that the fore/aft distance between the pick-up box gage hole center (2) and rear left Spare Tire Carrier Assembly attachment slot center (1) are 513mm. For reference, the center of the Carrier Assembly front plate will be centered with the pick-up box 13.1mm diameter gage hole. When complete skip to **STEP 4**.

**Note:** Center of carrier front plate (4) should be centered with gage hole (2).

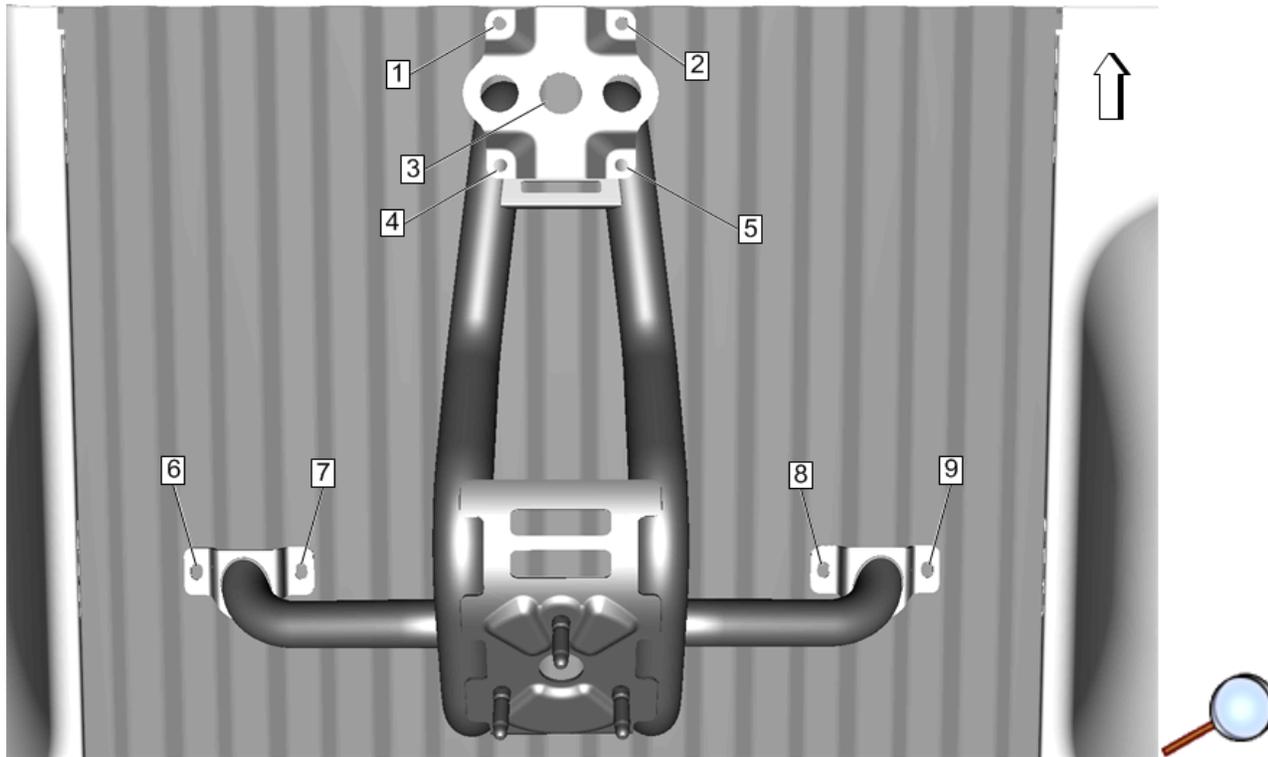
**Note:** Rear legs (5) will be roughly centered between spot welds from below cross sill.



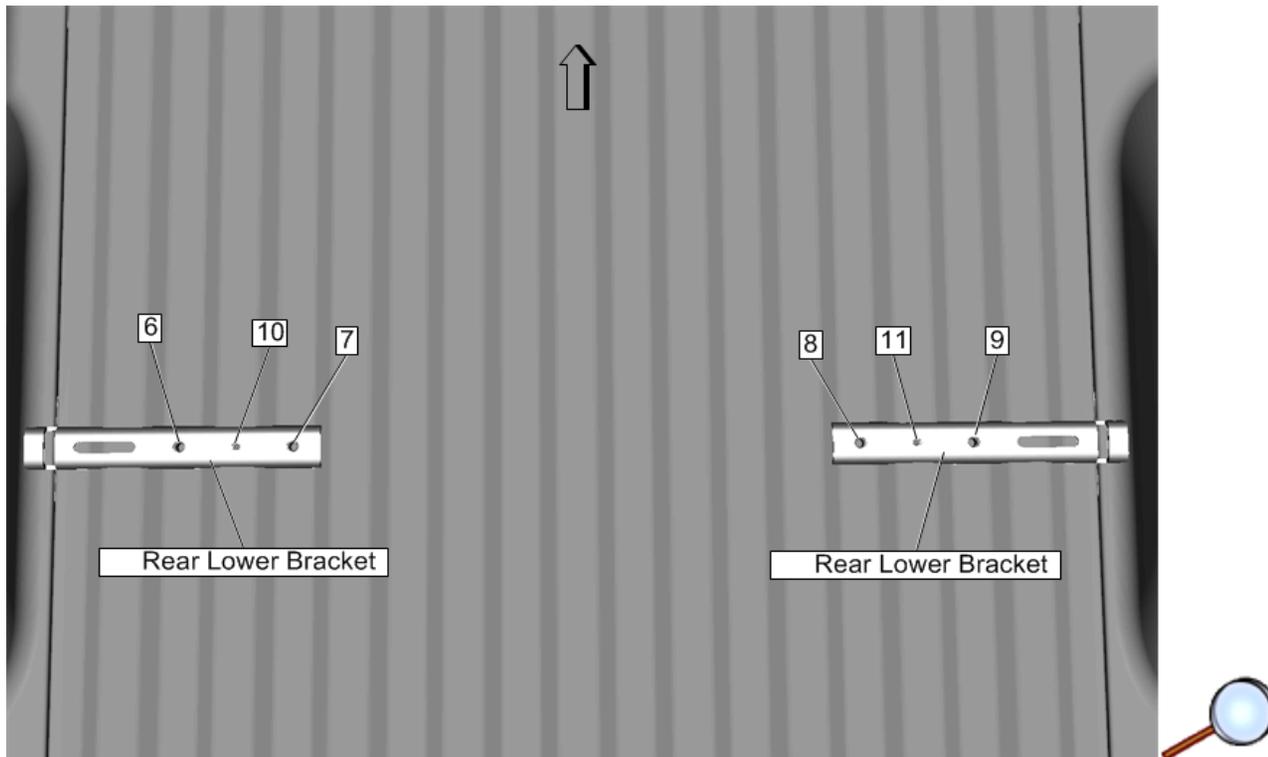
3. **Spare tire carrier assembly – Position for EXTENDED CAB and CREW CAB Long Box (6'-2") Vehicles:** Locate the 13.1mm diameter gage hole (2) in the front, left-hand corner of the pick-up box floor. Center (3) the Spare Tire Carrier Assembly (item 1) cross-car on the pick-up box floor. Position the assembly so that the fore/aft distance between the pick-up box gage hole center (2) and rear left Spare Tire Carrier Assembly attachment slot center (1) are 824mm.

**Note:** Rear legs (4) will be roughly centered between spot welds from below cross sill.

4. **Mark hole locations in pick-up box:**



- 4.1. With the Spare Tire Carrier Assembly (item 1) in position, use a marker to carefully mark the center of Holes (1-9), as shown, on the pick-up box floor. When the holes are marked and verified to be centered with the Spare Tire Carrier Assembly (item 1), use a center punch to mark each center. If the vehicle is equipped with a spray-in bed liner, a white paint pen or alternative can be used to mark the hole centers.



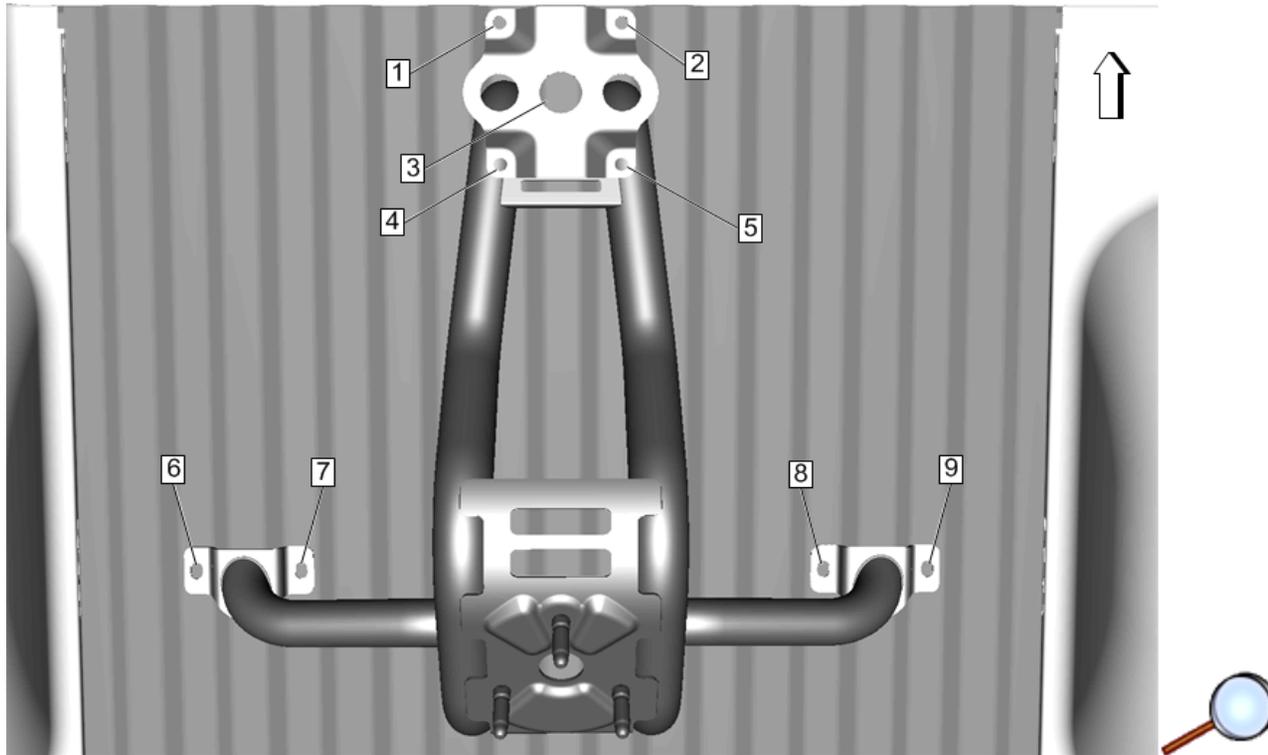
4.2. Set the Spare Tire Carrier Assembly (item 1) aside. Use the Rear Lower Carrier Bracket (item 3), flat side down with slots outboard and centered on the markings for Holes (6 & 7), to mark the center of Hole (10), as shown. Repeat step to mark the center of Hole (11).

#### 5. Drill pilot holes in pick-up box:

**Caution:** Always check scale, size and position before drilling. Failing to do so may cause damage to the vehicle, misalignment of components or the ability to install the accessory.

5.1. Carefully drill 5mm pilot holes at all of the marked locations (11 total). \*IMPORTANT – If available, use a step drill to prevent the drill bit from walking while drilling the holes in the pick-up box floor.

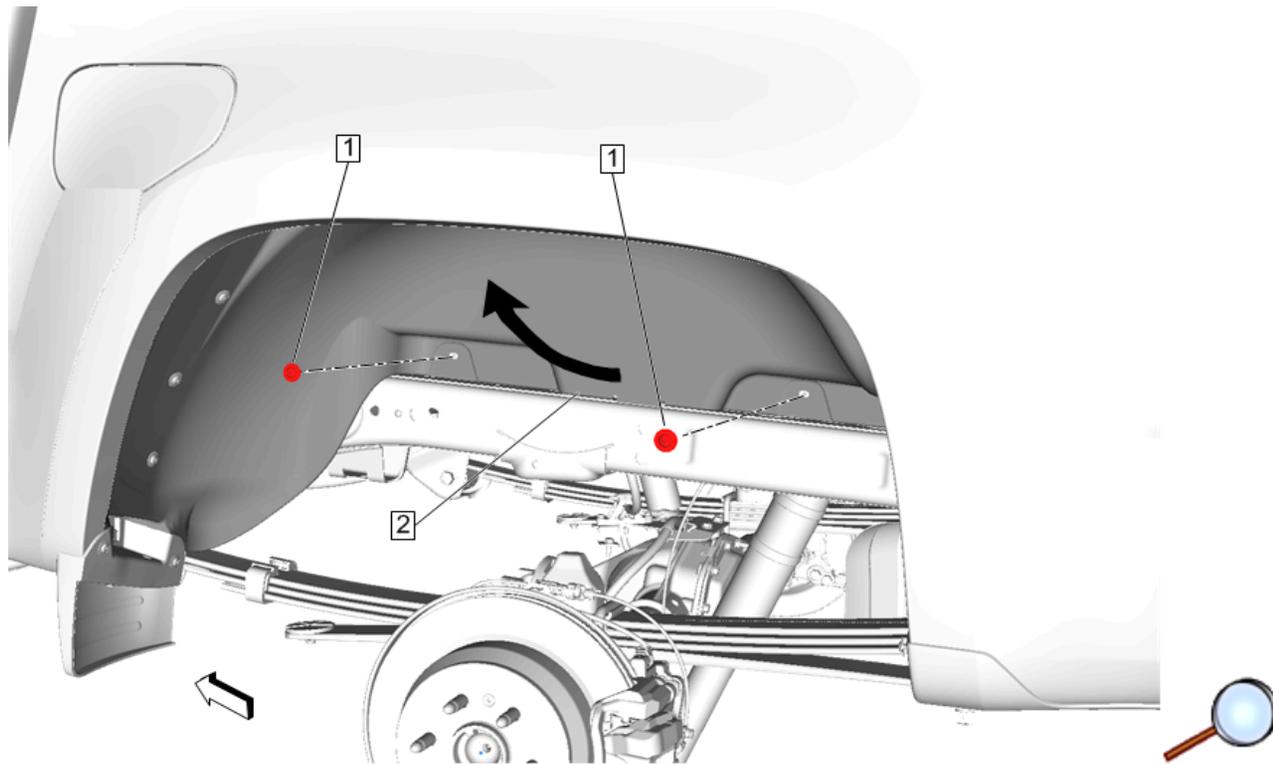
5.2. Set Spare Tire Carrier Assembly (item 1) in position to verify hole alignment. Once verified, set Spare Tire Carrier Assembly (item 1) aside, and carefully drill all (11 holes) with an 8.5mm drill bit.



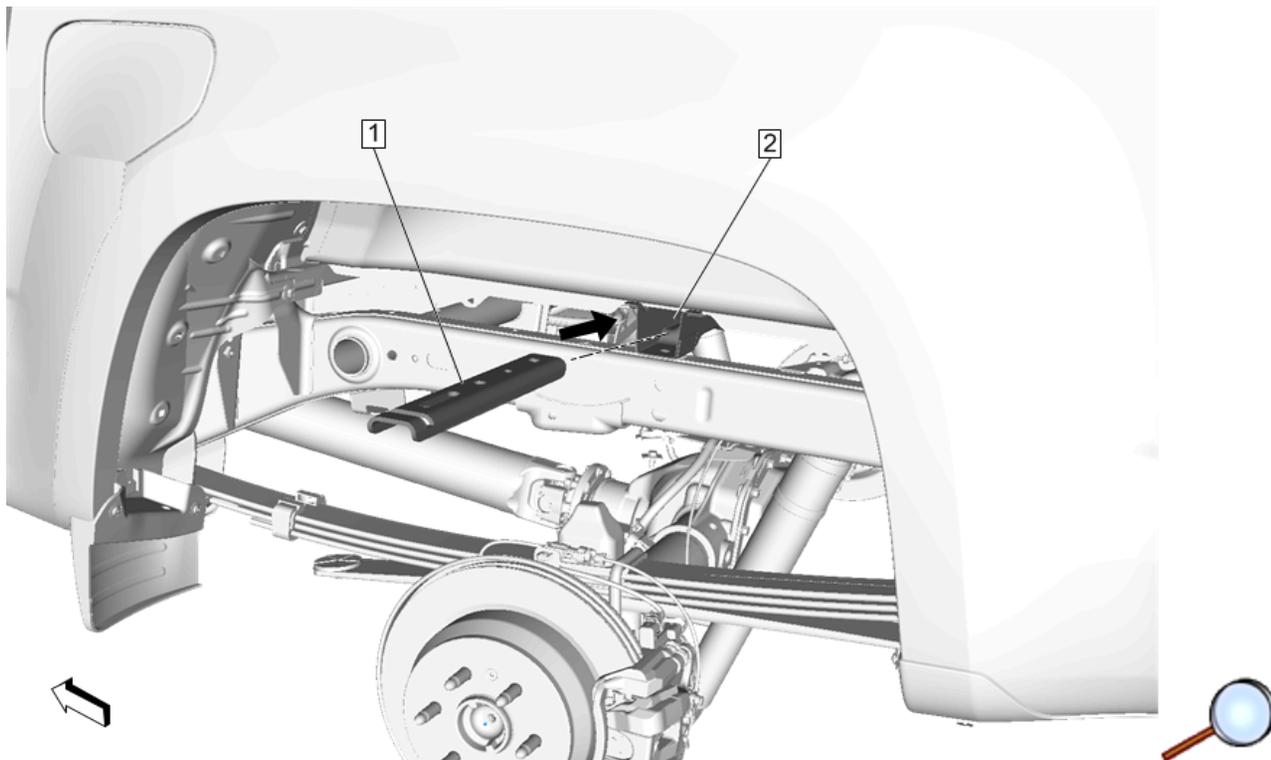
5.3. Drill Holes (1), (2), (4), (5), (6-9), as shown, with a 13mm drill bit. All other hole locations require a 8.5mm hole only.

5.4. Clear the debris from the pick-up box, and apply Corrosion Inhibitor (GM P/N: 12371287) to all the holes drilled into the pick-up box.

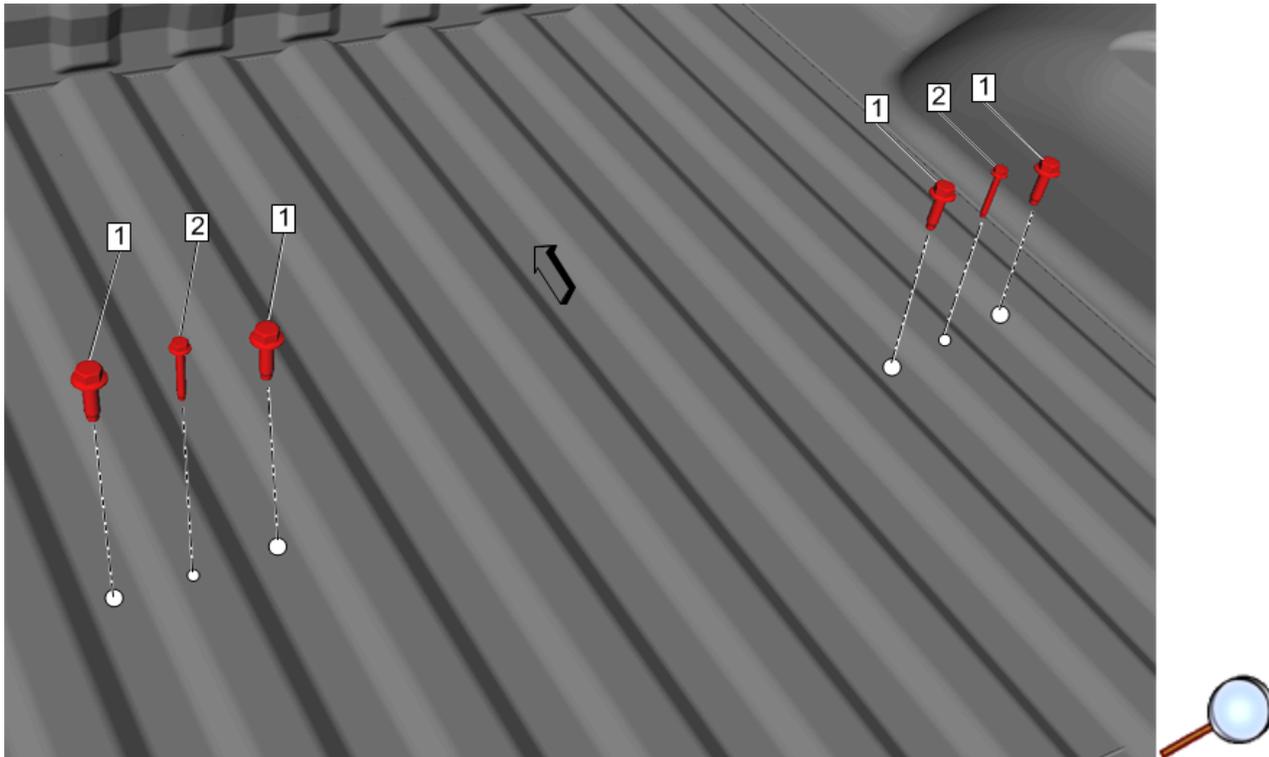
#### 6. **Rear Lower Carrier Bracket Installation: (Requires two people)**



- 6.1. The LH and RH rear wheel liners will need to be pulled upward temporarily to allow for installation of the Rear Lower Carrier Brackets (item 3) into the pick-up box center cross sill. Locate the rear wheel liner (2) at either side of the vehicle and remove the two screws (1) shown below to allow access to the cross sill.



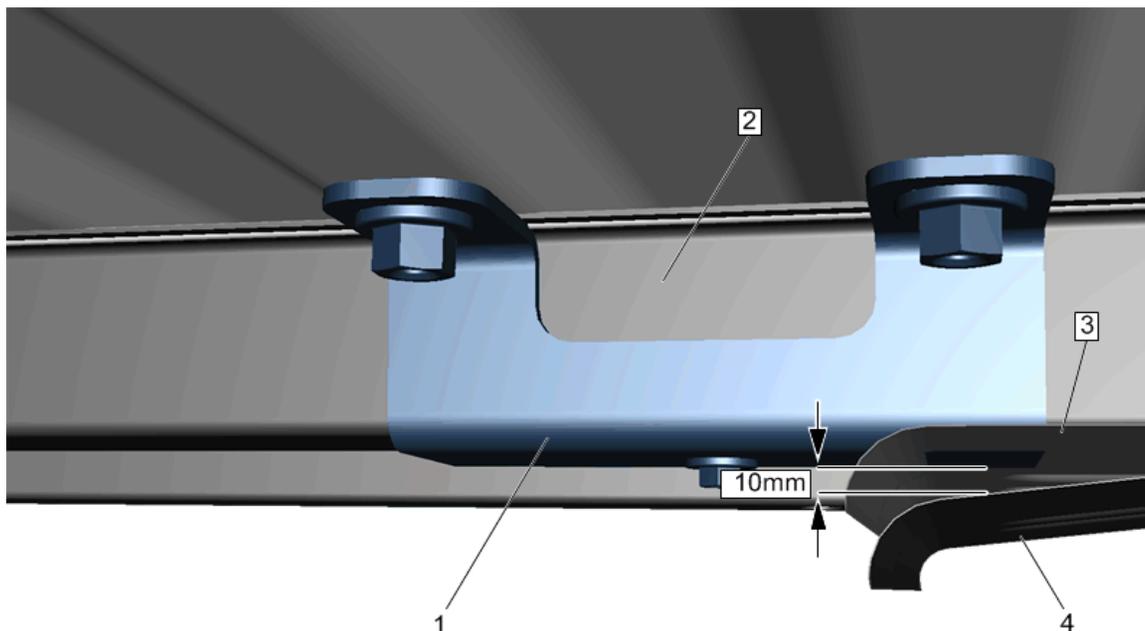
- 6.2. With the rear wheel liner pulled up and pick-up box cross sill exposed, insert the Rear Lower Carrier Bracket (1) (item 3) into the cross sill (2) with the weld nuts pointing down and the fore/aft slot in the Rear Lower Carrier Bracket (item 3) facing outboard, roughly in-line with the downward flange in the sheet metal of the pick-up box.
- 6.3. Have an installer inside the pick-up box verify the hole alignment between the Rear Lower Carrier Bracket (item 3) and the previously drilled holes in the pick-up box floor. The installer holding the Rear Lower Carrier Bracket (item 3) in position may benefit from using a pry bar or flat head screwdriver to hold the bracket in position, while the installer inside the pick-up box performs Steps 6.4-6.8 below.



**Caution:** Use the correct fastener in the correct location. Replacement fasteners must be the correct part number for that application. Fasteners requiring replacement or fasteners requiring the use of thread locking compound or sealant are identified in the service procedure. Do not use paints, lubricants, or corrosion inhibitors on fasteners or fastener joint surfaces unless specified. These coatings affect fastener torque and joint clamping force and may damage the fastener. Use the correct tightening sequence and specifications when installing fasteners in order to avoid damage to parts and systems.

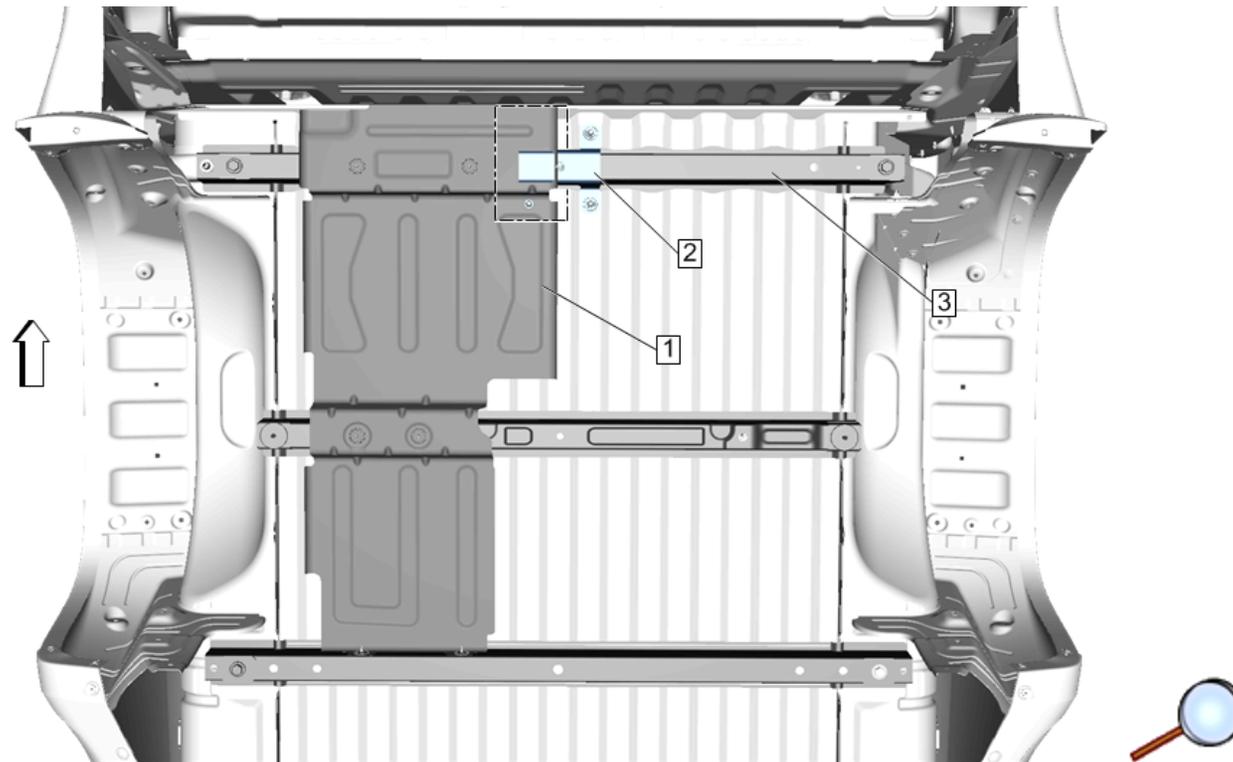
- 6.4. Apply a thread lock & hand-tighten the center M6x1.0x35.65 bolt (2) (item 6) from inside the pick-up box, ensuring the fastener installs into the center weld nut in the Rear Lower Carrier Bracket below.
- 6.5. Hand-tighten the M10x1.5x40 bolts (1) (item 4) from inside the pick-up box to fasten the Rear Lower Carrier Bracket into position.
- 6.6. Torque the center M6x1.0x35.65 bolt (2) (item 6) to 9 +/- 1.5 Nm.
- 6.7. Remove the outer M10x1.5x40 bolts (1) (item 4) and set aside to allow installation in a later step.
- 6.8. Repeat Step 6 for the opposing Rear Lower Carrier Bracket (item 3).

## 7. Front Lower Carrier Bracket Installation: (Requires two people)



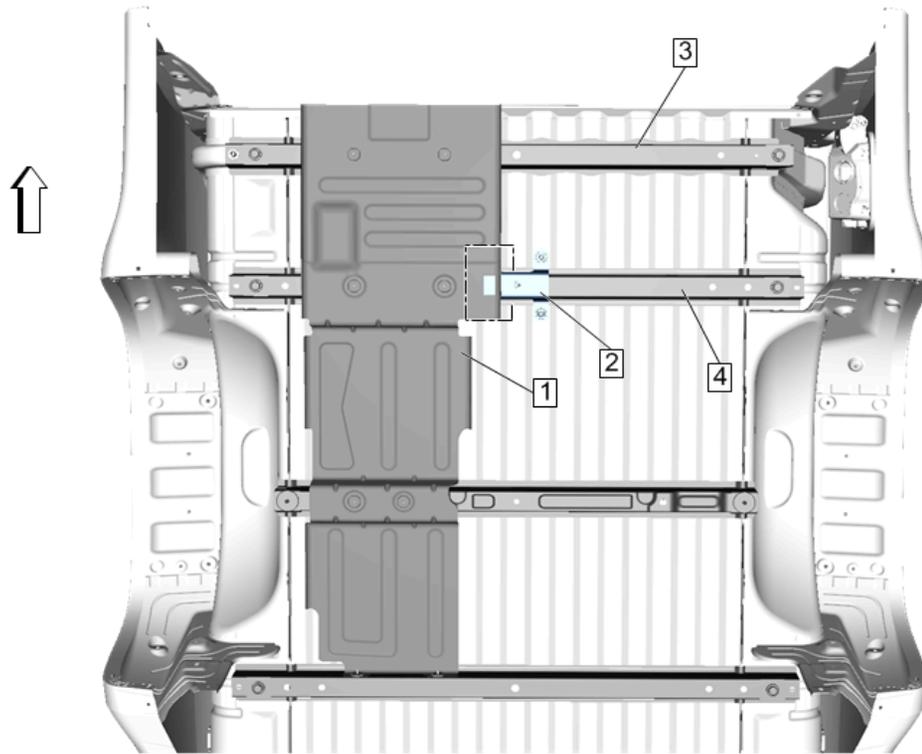
- 7.1. The underbody exhaust heat shield (3) will need to be bent, by hand, downward to allow adequate clearance to the Front Lower Carrier Bracket (1) (item 2). From under the pick-up box, locate the underbody exhaust heat shield near the pick-up box cross sill, and carefully bend downward (4) until there is a minimum clearance of 10mm to the Front Lower Carrier Bracket positioned on the cross sill (2). Refer to the below pictures as a reference for the differences between the Crew Cab Short Box and Extended/Crew Cab Long Box configurations.

**Crew Cab Short Box (View From Below Vehicle)**

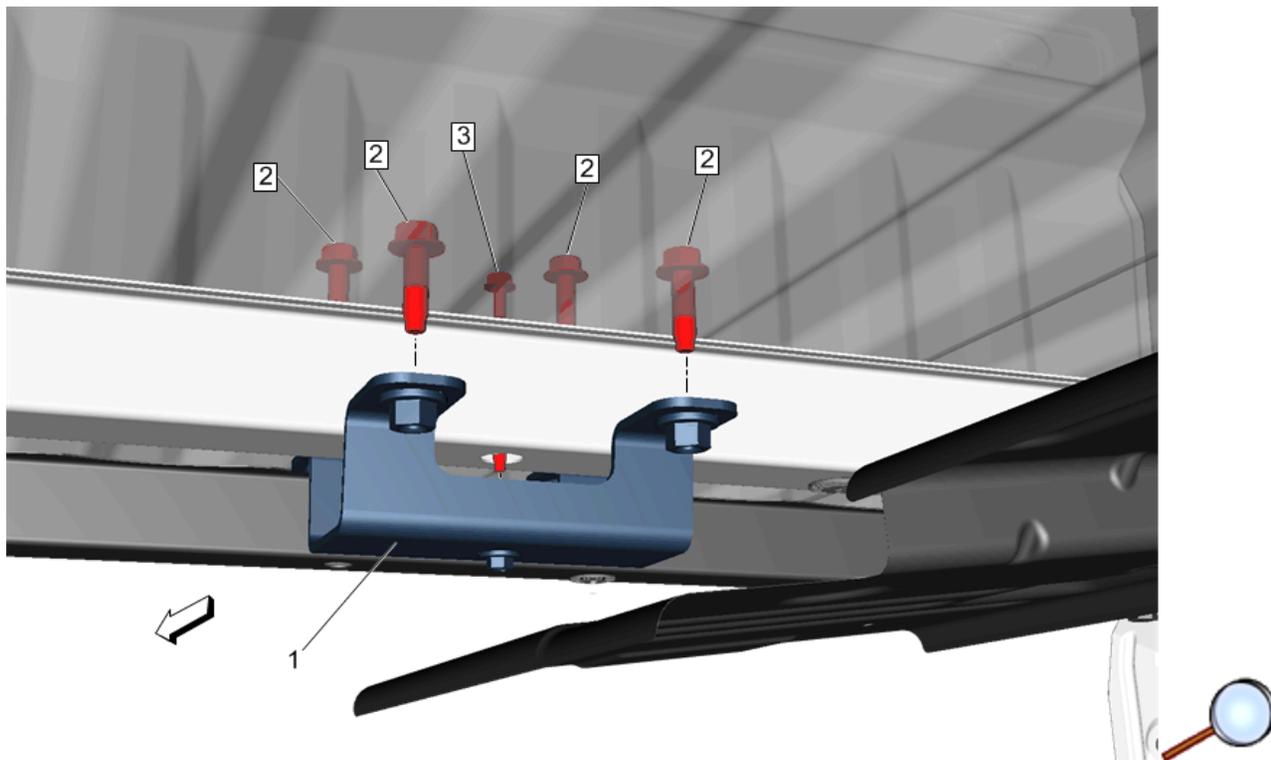


- Underbody exhaust heat shield (1)
- Front lower carrier bracket (2) (item 2)
- Foremost pick-up box cross sill (3)

**Extended/Crew Cab Long Box (View From Below Vehicle)**

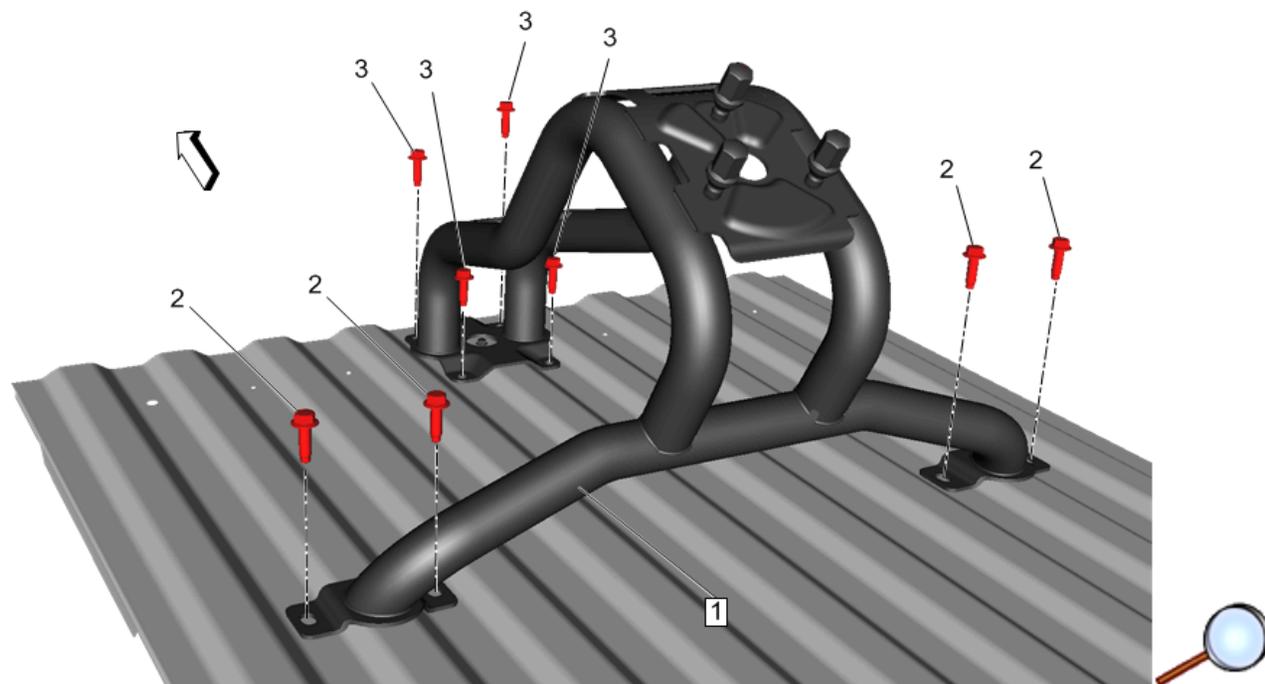


- Underbody exhaust heat shield (1)
- Front lower carrier bracket (2) (item 2)
- Foremost pick-up box cross sill (3)
- Second pickup-box cross sill (4)



- 7.2. With the Front Lower Carrier Bracket (1) held in position from below the pick-up box, have an installer inside the pick-up box verify the alignment with the previously drilled holes in the pick-up box floor.
- 7.3. Apply a thread lock & hand-tighten the center M6x1.0x86.65 bolt (3) (item 5) from inside the pick-up box.
- 7.4. Hand-tighten the four remaining M10x1.5x40 bolts (2) (item 4) to fasten the Front Lower Carrier Bracket into position. \*If the holes drilled previously do not allow installation, the M10 access holes may need to be opened up to accommodate for error.
- 7.5. Torque the center M6x1.0x35.65 bolt (3) (item 5) to 9 +/- 1.5 Nm.
- 7.6. Remove the outer M10x1.5x40 bolts (2) (item 4) and set aside to allow installation in Step 8.

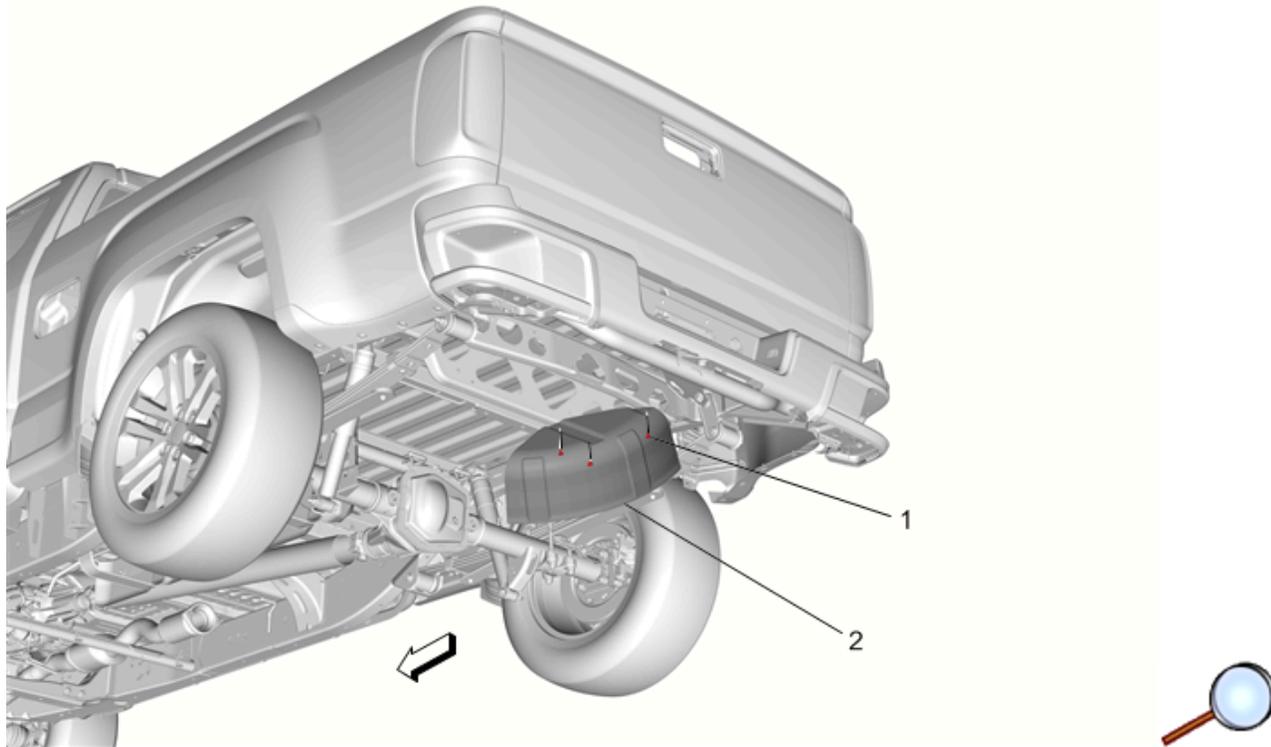
#### 8. Spare Tire Carrier – Assembly:



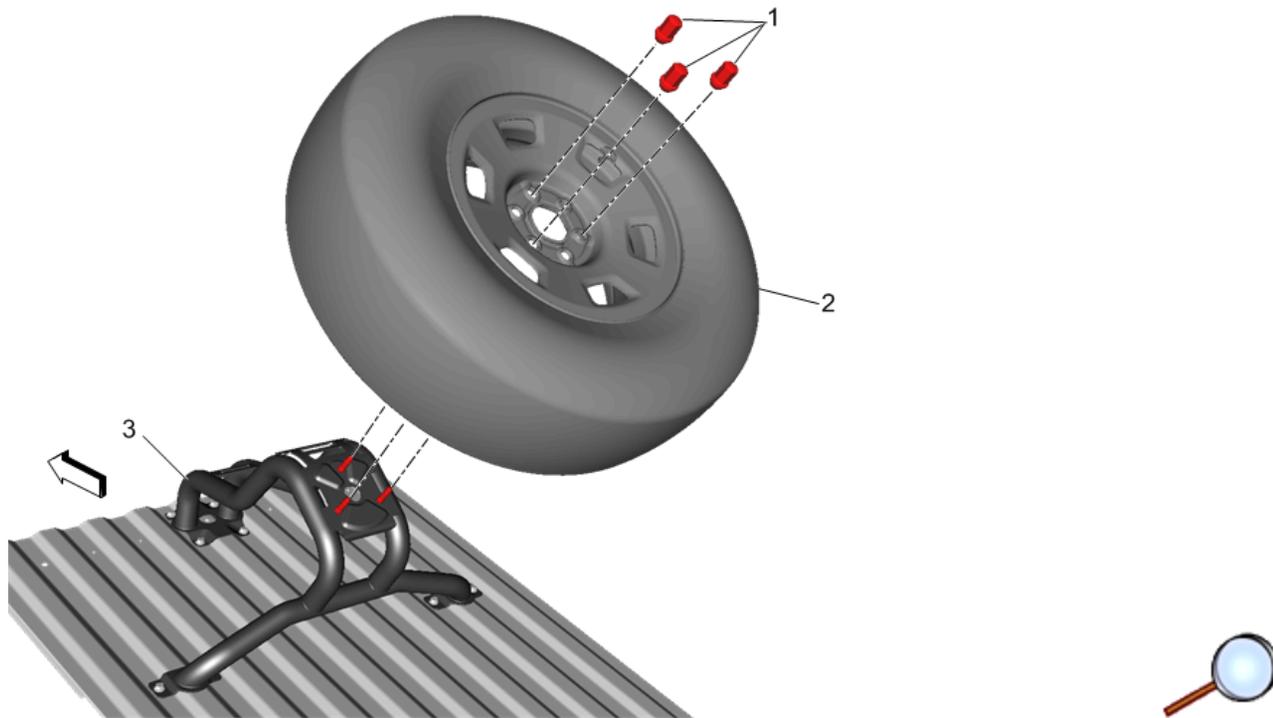
- 8.1. Place the Spare Tire Carrier Assembly (1) (item 1) into position inside the pick-up box, ensuring alignment with the loosely installed Rear Lower Carrier Brackets (item 3) and Front Lower Carrier Bracket (item 2).
- 8.2. From inside the pick-up box, insert and hand-thread the four front M10x1.5x40 bolts (3) (item 4) through the pick-up box floor and into the Front Lower Carrier Bracket (item 2).
- 8.3. Insert and hand thread the four rear M10x1.5x40 bolts (2) (item 4) through the pick-up box floor downward and into the Rear Lower Carrier Brackets (item 3).
- 8.4. From inside the pick-up box, torque all eight of the M10x1.5x40 bolts (2), (3) to 58 +/- 9 Nm.

## 9. Spare Tire – Removal and Installation:

- 9.1. Refer to Vehicle Care section of Vehicle Owner's Manual for instructions to remove existing spare tire and wheel from under the pick-up box.



9.2. After removing the spare tire from under the pickup box, remove the 3 plastic retainers (1) that retain the spare tire heat shield (2), and discard the heat shield.



9.3. Align and install spare wheel/tire assembly (2) to the Spare Tire Carrier Assembly (3) (item 1) and install the three M14x1.5 Wheel Lug Nuts (1) ( item 7).

9.4. Torque Wheel Lug Nuts (item 7) to 135 Nm.

**\*REFERENCE – REMOVING THE CARRIER ASSEMBLY**

If it is desired to remove the Spare Tire Carrier Assembly, it is advised to remove all of the M10 fasteners, but leave the M6 fasteners, which retain the Front Lower Carrier Bracket (item 2) and Rear Lower Carrier Brackets (item 3) in place to allow for quicker, easier re-assembly at a future date.