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# RECALL CAMPAIGN BULLETIN

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Reference:

NTB13-035c

Date:

January 23, 2014

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## VOLUNTARY SAFETY RECALL CAMPAIGN 2013 PATHFINDER OCS SENSORS

The SERVICE PROCEDURE has been amended. A Flow Chart on page 14 gives further detail on how to more accurately read the OCS sensor lot code number. The Repair Overview has been edited to follow these changes. Please discard previous versions of this bulletin.

**CAMPAIGN ID #:** PC216

**NHTSA #:** 13V-069

**APPLIED VEHICLES:** 2013 Pathfinder (R52)

**Check Service COMM to confirm campaign eligibility.**

### INTRODUCTION

Nissan is conducting a Voluntary Safety Recall Campaign to inspect, and if needed, replace the Occupant Classification System (OCS) sensors on certain specific 2013 Pathfinder vehicles at no charge for parts or labor.

### IDENTIFICATION NUMBER

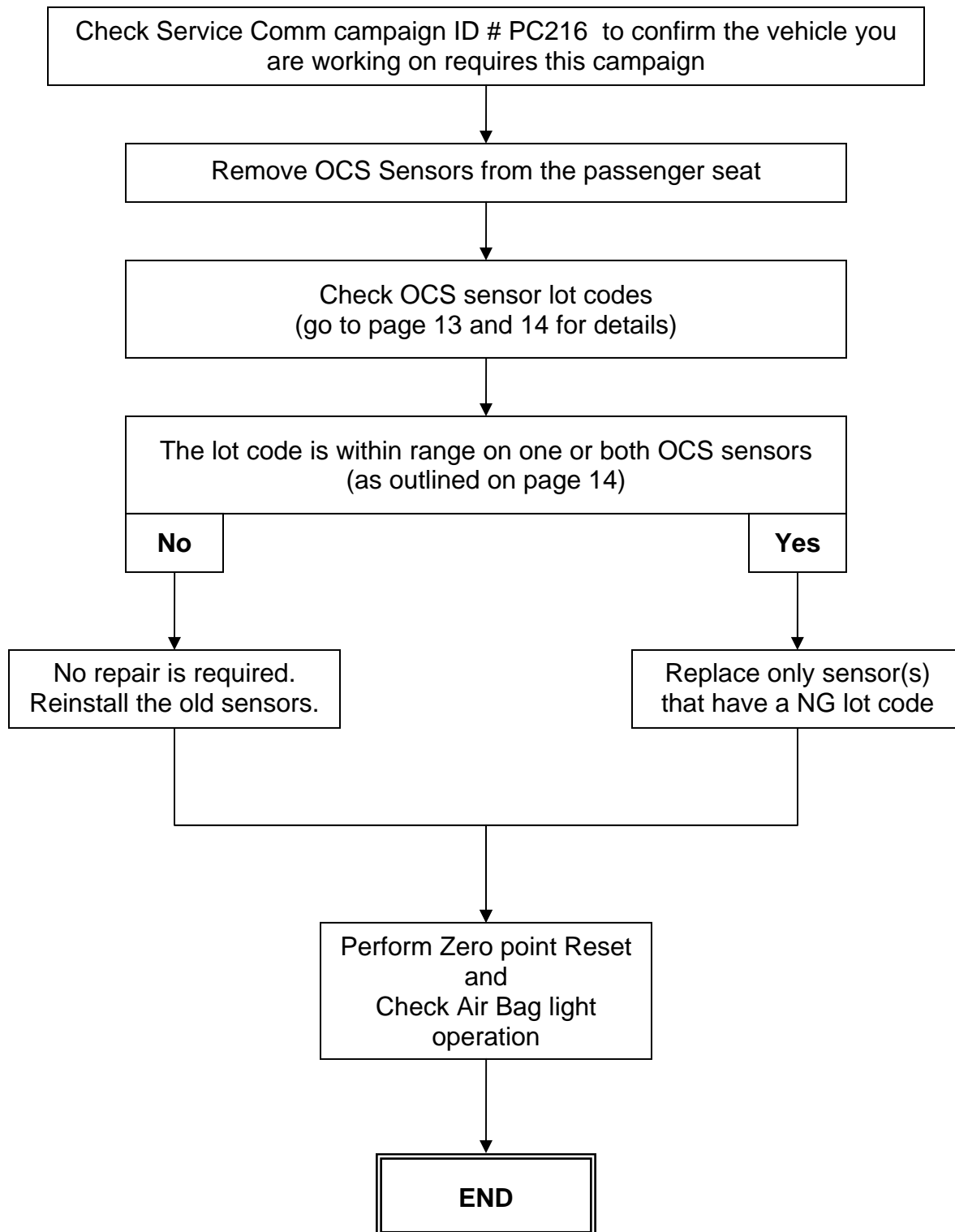
Nissan has assigned identification number PC216 to this campaign. This number must appear on all communications and documentation of any nature dealing with this campaign.

### DEALER RESPONSIBILITY

It is the dealer's responsibility to check Service Comm for the campaign status on each vehicle falling within the range of this voluntary safety recall campaign which for any reason enters the service department. This includes vehicles purchased from private parties or presented by transient (tourist) owners and vehicles in a dealer's inventory. **Federal law requires that new vehicles in dealer inventory which are the subject of a safety recall must be corrected prior to sale. Failure to do so can result in civil penalties by the National Highway Traffic Safety Administration.** While federal law applies only to new vehicles, Nissan strongly encourages dealers to correct any used vehicles in their inventory before they are retailed.

Nissan Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Nissan dealer to determine if this applies to your vehicle.

## Repair Overview



## SERVICE PROCEDURE

**CAUTION:** Handle interior trim carefully to avoid damage. Work with clean hands and clean tools to avoid dirt and stains. Use protective covers as needed.

**WARNING:** This procedure involves working with the metal seat frame. The metal seat frame has sharp edges.

**NOTE:** Make sure to follow this procedure exactly as specified (including torque specifications) to ensure proper operation of the Occupant Classification System.

1. **WARNING:** Turn the Ignition OFF and prepare the vehicle for OCS sensor replacement as follows:

The following are **VERY IMPORTANT** to prevent unexpected air bag deployment.

- Remove the ignition key / Intelligent Key from the cabin of the vehicle and set aside, away from the vehicle. This will prevent accidentally turning the ignition ON.
- Make sure the ignition remains OFF until after the procedure is complete.
- Wait for all control units to “power down” (at least 1 minute) after the ignition is turned OFF.

2. Place the passenger side 2<sup>nd</sup> row seat cushion in the UP position.
  - To release the seat cushion, slide the lever on the side of the seat back UP, and allow the seat back to lean forward a few inches.
3. Place the passenger side 2<sup>nd</sup> row seat in the full rearward position.



Figure 1

4. Place the front passenger seat head restraint in the full down position.



Figure 2

5. Move the front passenger seatback to the fully reclined position.

**NOTE:** To fully recline the seat:

- Rear seat must be positioned as shown in steps 2 and 3.
- Head restraint must be in the full down position.
- Moving the seat a few inches forward will help the head restraint clear the rear seat.



Figure 3

6. Remove the seat cushion inner finishers (left and right side), shown in Figure 4, as follows.

**NOTE:** These finishers have two halves. Only the half on the seat cushion side will be removed.

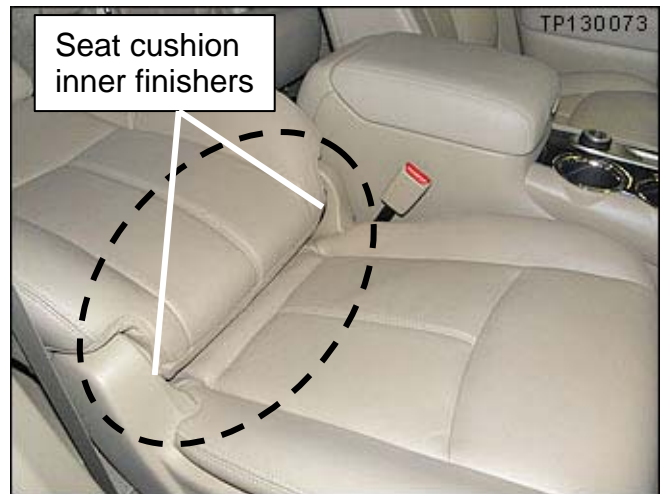


Figure 4

- a. Remove 1 Phillips head screw (the front most screw) from each finisher (see Figure 5).

**NOTE:**

- There are two #2 Phillips head screws in the openings shown in Figure 5. Remove only the front most screw.
- Using a magnetic #2 Phillips screwdriver may be helpful.
- The plastic trim tool is being used to hold the seat cushion out of the way.



Figure 5

- b. Use a plastic trim tool to separate the inboard half of each finisher (see Figure 6).



Figure 6

- c. Pull the finishers toward the front of the vehicle to remove (see Figure 7).

**NOTE:** Slightly rotating the top of the finishers toward the front of the vehicle will aid removal.



Figure 7

7. Remove nuts from the rear of the seat frame as follows (see Figures 8 and 9):
- Use a plastic trim tool to hold the seat cushion out of the way.
  - Look down from the seat cushion toward the seat track.

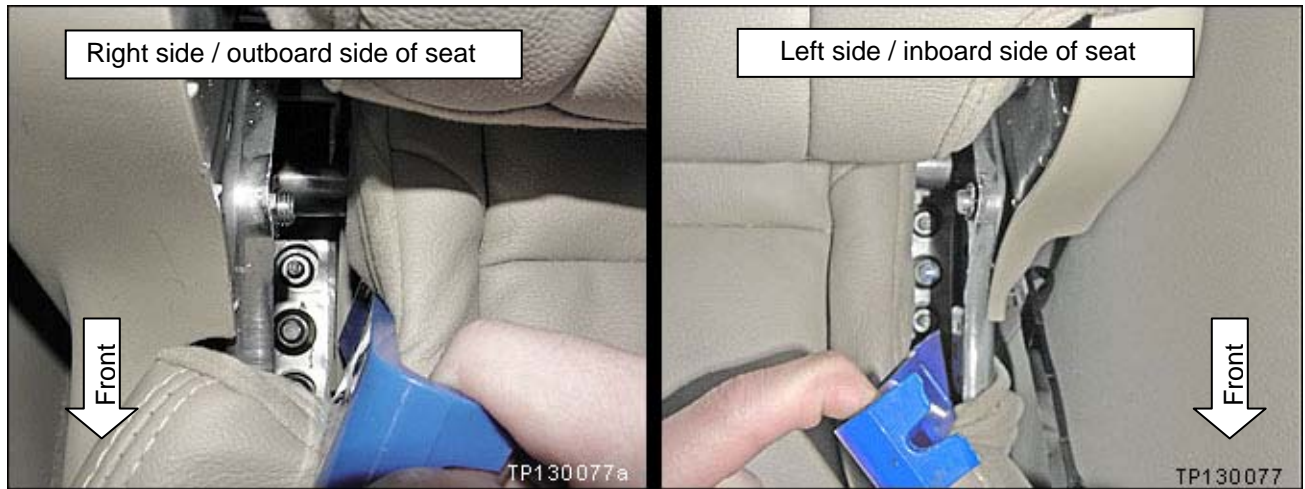


Figure 8

- Remove **only** the nuts indicated in Figure 9.

**NOTE:**

- The nuts look the same on both sides. Do not remove the 12 mm nuts on the right side, outboard side.
- The old nuts will not be reused.

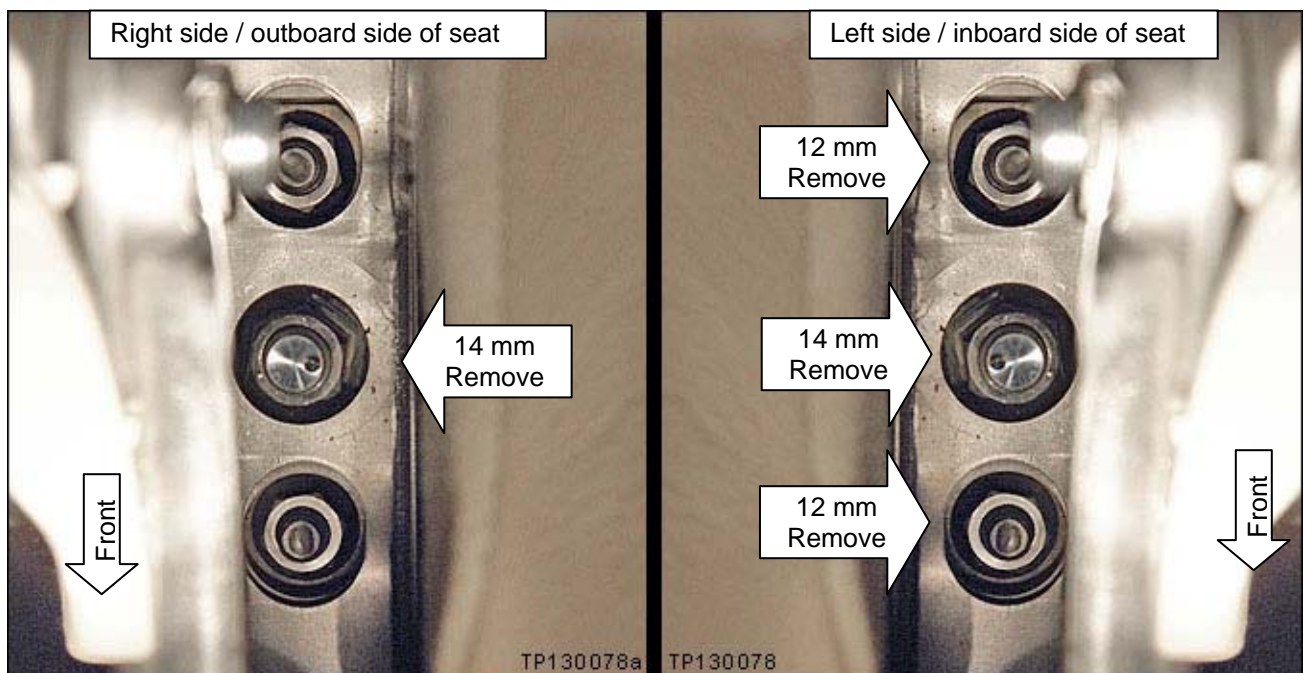


Figure 9

**WARNING: The metal seat frame has sharp edges.**

8. Remove the nuts from the front of the seat frame as follows (see Figures 10, 11 and 12).

a. Look under the front of the seat.



Figure 10

b. Locate and remove the 3 OCS sensor nuts shown in Figure 11.

**NOTE:** The old nuts will not be reused.

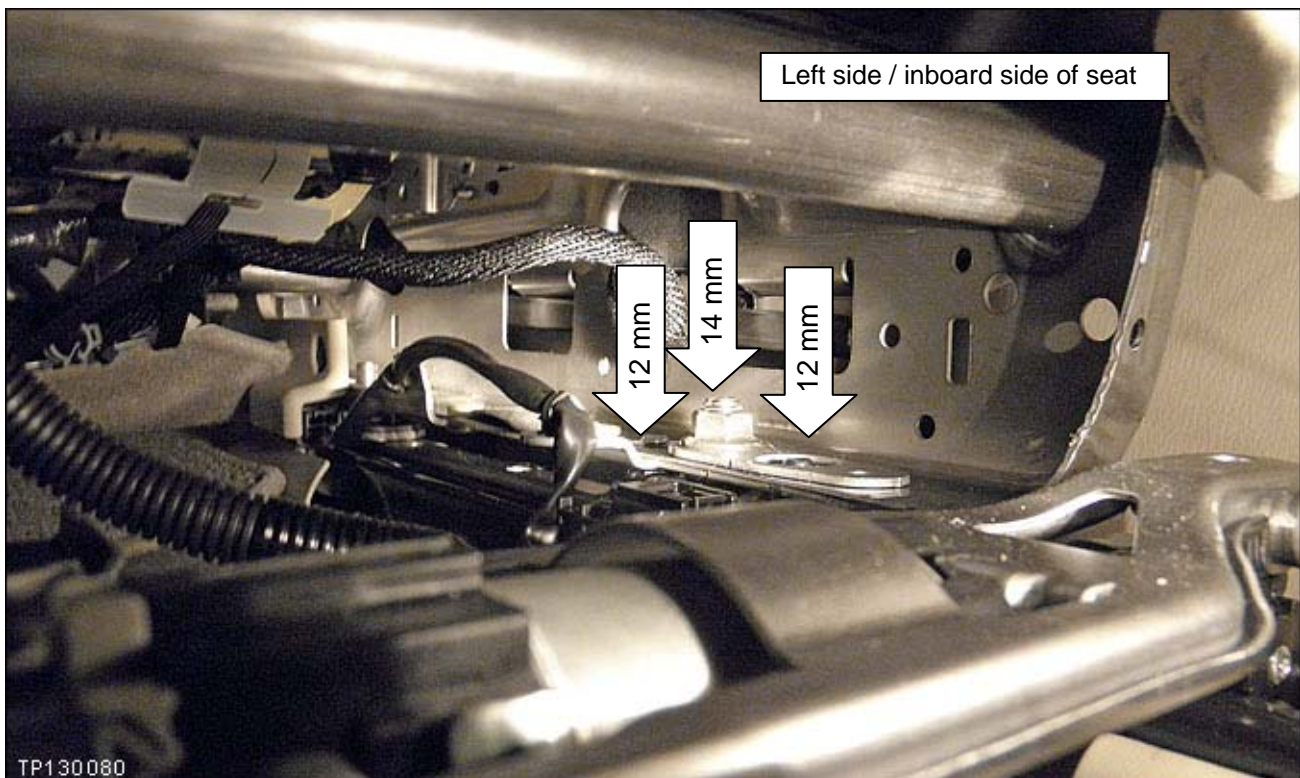


Figure 11



c. Locate and remove the 14 mm nut shown in Figure 12.

**NOTE:** The old nut will not be reused.

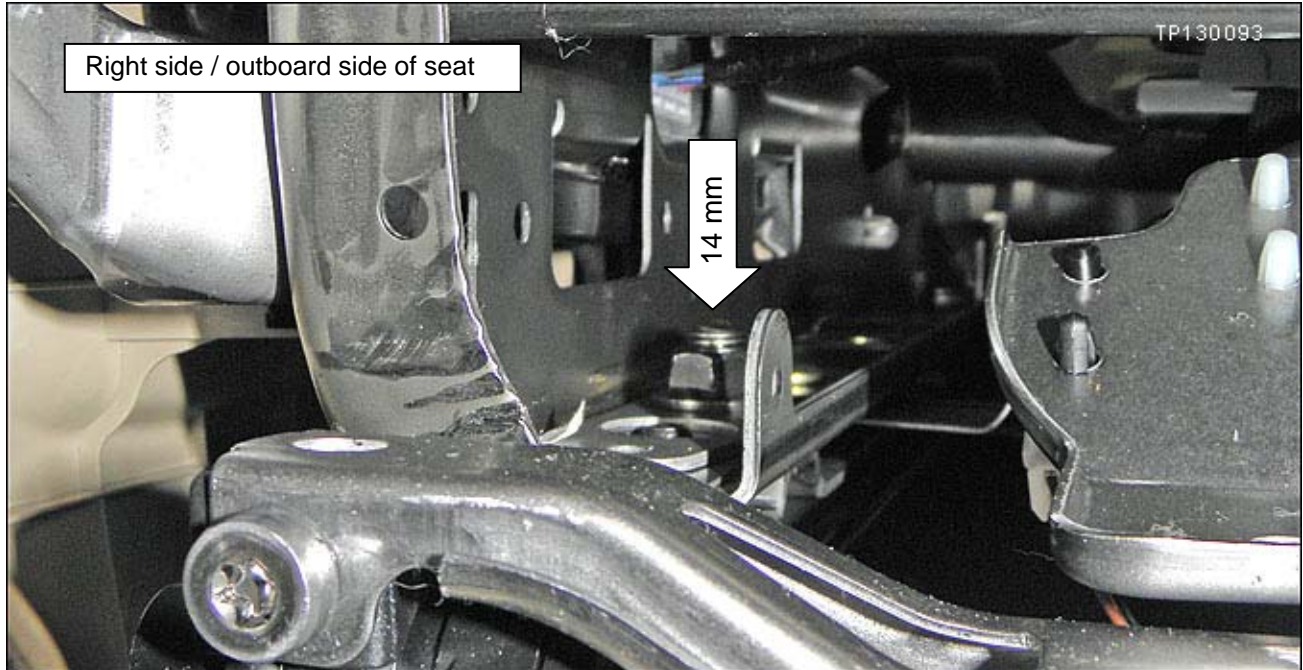


Figure 12

**NOTE:**

- Some vehicles are equipped with an accessory DVD control unit.
- The DVD control unit must be removed to access the 14 mm bolt shown in Figure 12.
- Remove one nut and one bolt, and then remove the DVD control unit.

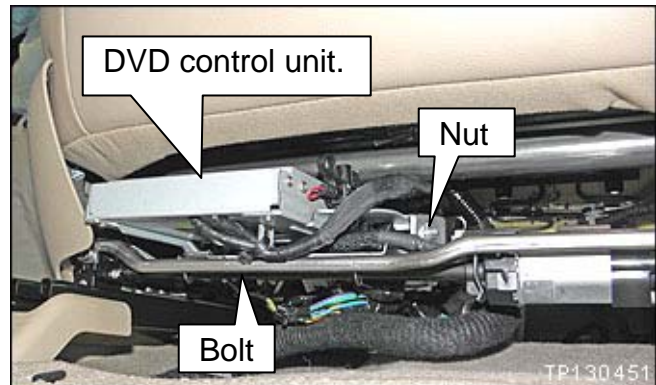


Figure 12a

9. Move the passenger seatback to the upright position.



Figure 13

10. Check the lot code on the front OCS sensor as follows.

- a. Lift the front of the seat to rock it back.



Figure 14

- b. Disconnect the OCS sensor electrical connector.

**NOTE:** The nuts should already be removed.

- c. Remove the old sensor.

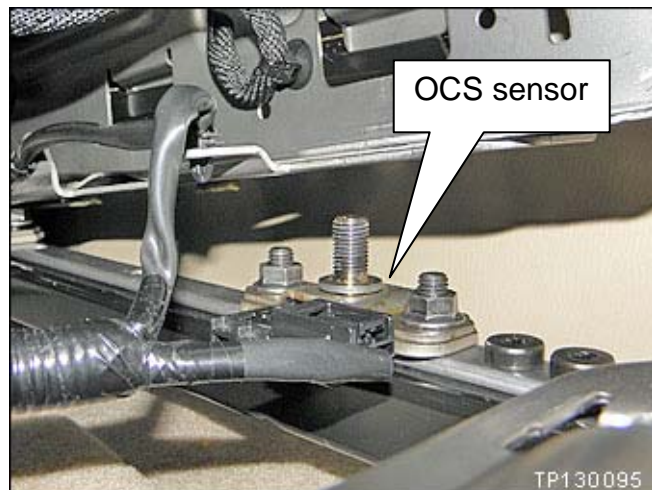


Figure 15

d. Check the lot code.

**OCS sensor lot code example – your vehicle’s lot code numbers may be different.**

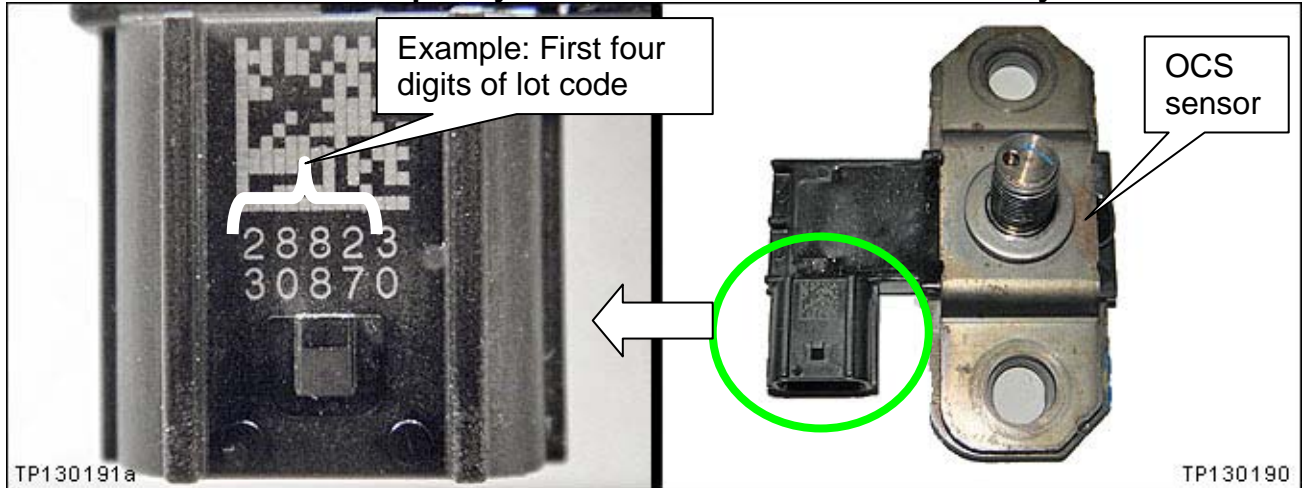


Figure 16

e. Write the first four digits of the lot code on the repair order.

- In the **example** above, the first four digits are “2882”.

f. Go to page 14 and use the “**Lot Code**” **Flow Chart** to determine if the front OCS sensor is NG or OK.

- Use the “**Lot Code**” **Flow Chart** before continuing to step 11.

**NOTE: Both sensors must be checked.**

11. Install the front OCS sensor (new or original).

a. **Use new 12 mm nuts.**

- Torque nuts to:  
22 N•m (3.04 kg-m, **16 ft-lb**)

b. Reconnect the electrical connector.

**NOTE:** If a new sensor is used, render the old sensor unusable by breaking its electrical connector.

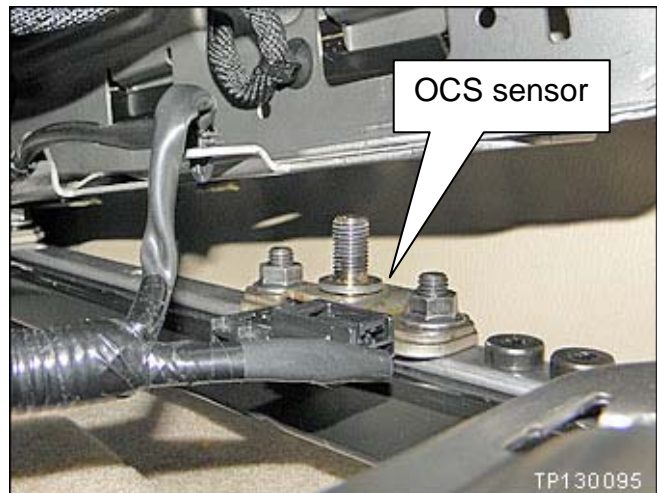


Figure 17

Go to the next page.

12. Check the lot code on the rear OCS sensor as follows.

- a. Lift the back of the seat to rock it forward.



Figure 18

- b. While holding the seat, disconnect the OCS sensor electrical connector.

**NOTE:** The nuts should already be removed.

- c. Remove the sensor.

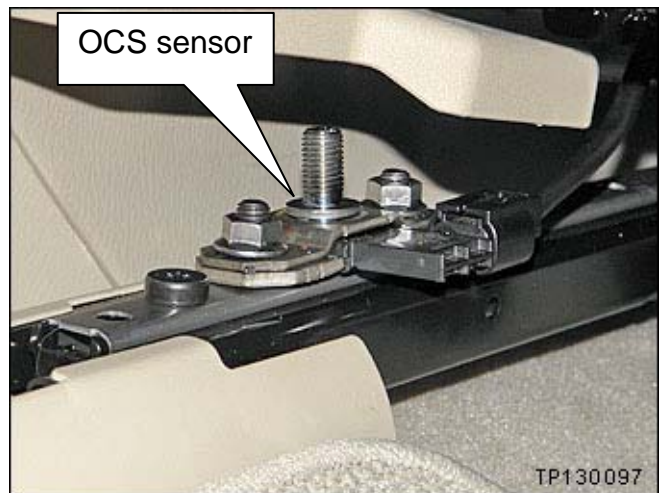


Figure 19

- d. Check the lot code.

**OCS sensor lot code example – your vehicle’s lot code numbers may be different.**

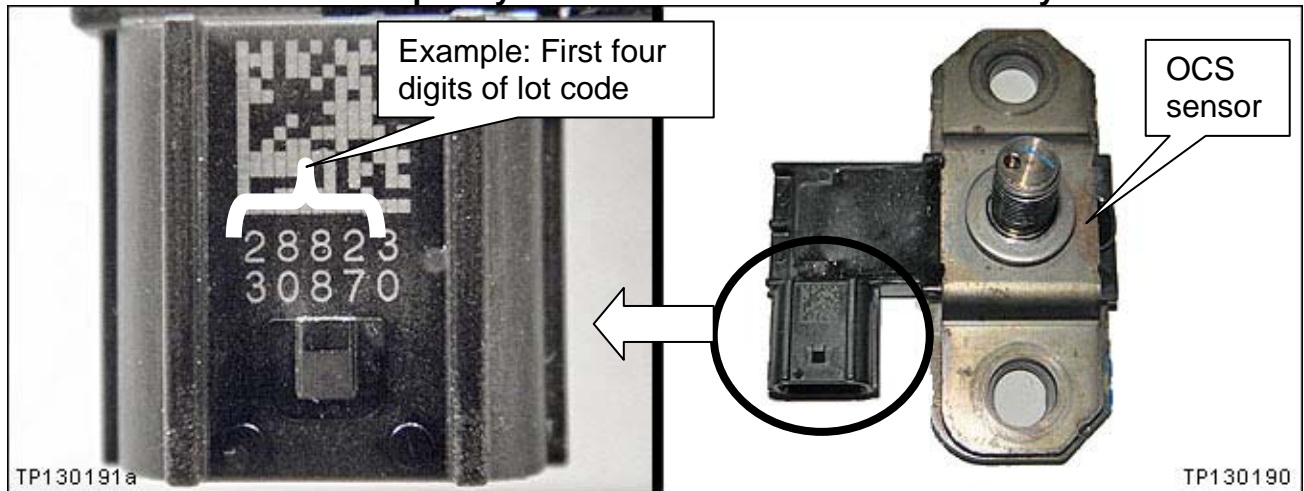


Figure 20

- e. Write the first four digits of the lot code on the repair order.
- In the **example** above, the first four digits are “2882”.
- f. Go to page 14 (next page) and use the “**Lot Code**” **Flow Chart** to determine if the rear OCS sensor is NG or OK.
- Use the “**Lot Code**” **Flow Chart** before continuing to step 13.
  - **NOTE: Both sensors must be checked.**

13. Install the rear OCS sensor (new or original).

a. Use new 12 mm nuts.

- Torque nuts to:  
22 N•m (3.04 kg-m, **16 ft-lb**)

b. Reconnect the electrical connector.

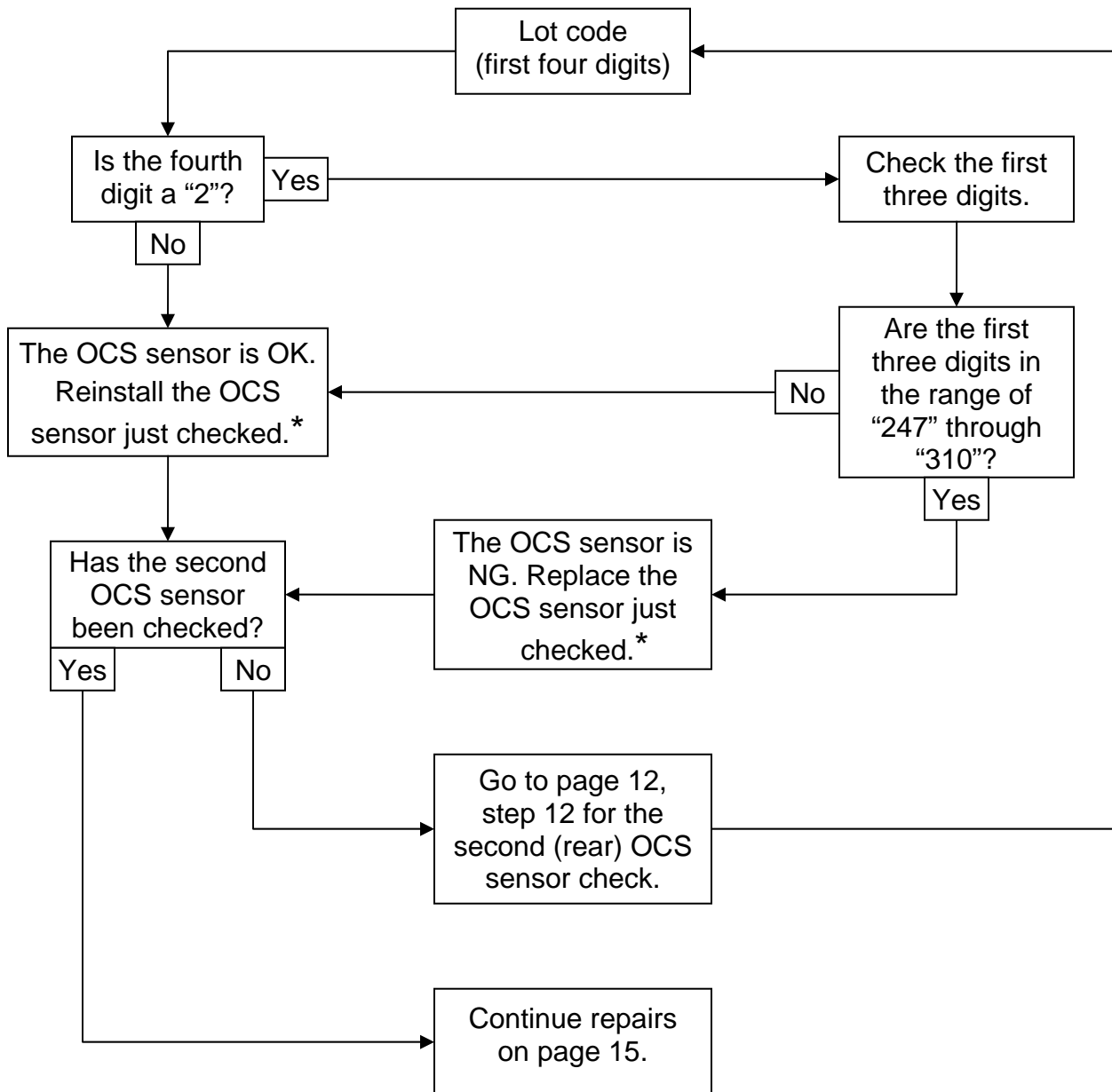
**NOTE:** If a new sensor is used, render the old sensor unusable by breaking its electrical connector.



Figure 21

Continue repairs on page 15.

## “Lot Code” Flow Chart



\* For front OCS sensor installation (new or original), go to page 11, step 11.  
For rear OCS sensor installation (new or original), go to page 13, step 13.

14. Make sure the seat frame is positioned correctly on all 4 of the studs.

15. From under the front of the seat, install both front 14 mm nuts **finger tight only** (see Figures 22 and 23).

- Use new nuts.

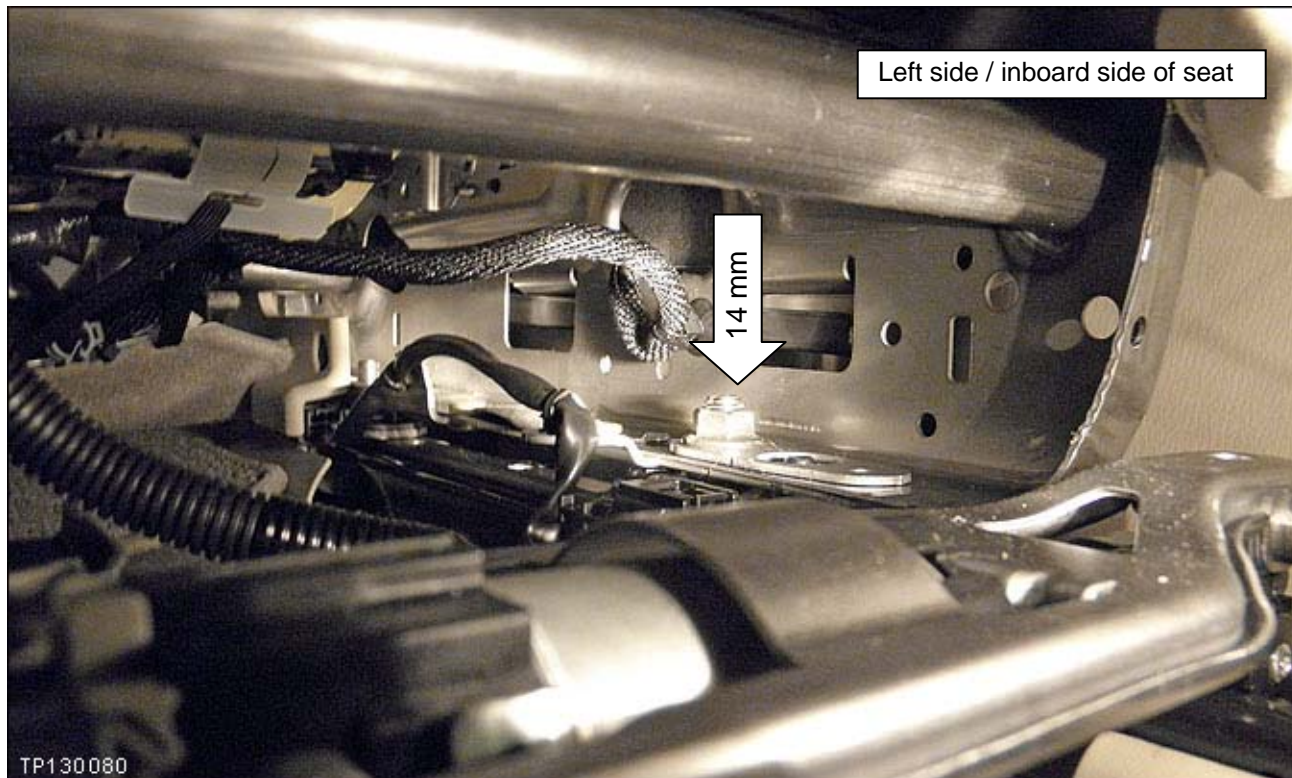


Figure 22

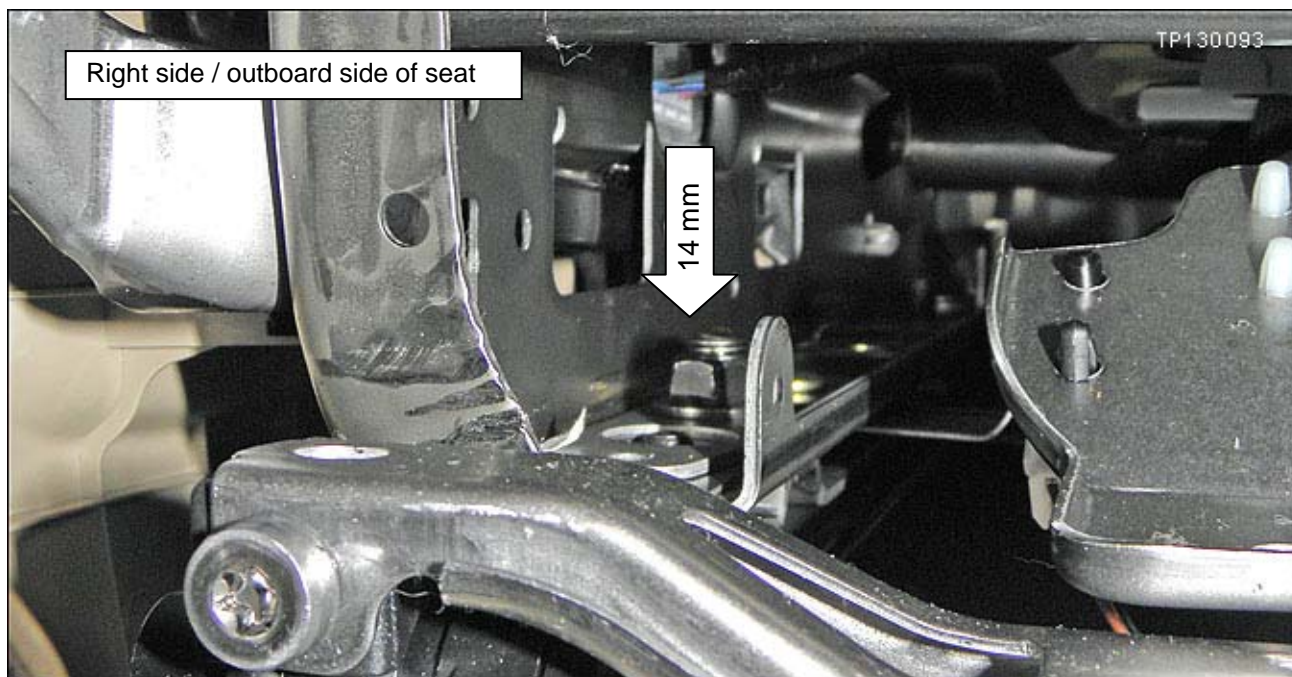


Figure 23

16. Move the passenger seatback to the fully reclined position.

**NOTE:** To fully recline the seat:

- Rear seat must be positioned as shown on page 3, steps 2 and 3.
- Head restraint must be in the full down position.
- Moving the seat a few inches forward will help the head restraint clear the rear seat.



Figure 24

17. From the top of the seat cushion, install both rear 14 mm nuts **finger tight only**.

- **Use new nuts.**



Figure 25



**NOTE:**

- In steps 18 and 19 you will be tightening the 14 mm nuts that hold the seat frame to the seat tracks.
- Torque the nuts in the order shown in Figure 26.

**IMPORTANT:**

- **This is a critical torque specification.**
- **Make sure the torque wrench is properly calibrated.**
- **Make sure to torque these nuts as indicated.**

18. From under the front of the seat, torque the front 14 mm nuts:

1<sup>st</sup>, torque outboard side.

2<sup>nd</sup>, torque inboard side.

- Torque nuts to:  
45 N•m (4.56 kg-m, **33 ft-lb**)

19. From the top of the seat cushion, torque the rear 14 mm nuts:

3<sup>rd</sup>, torque inboard side.

4<sup>th</sup>, torque outboard side.

- Torque nuts to:  
45 N•m (4.56 kg-m, **33 ft-lb**)

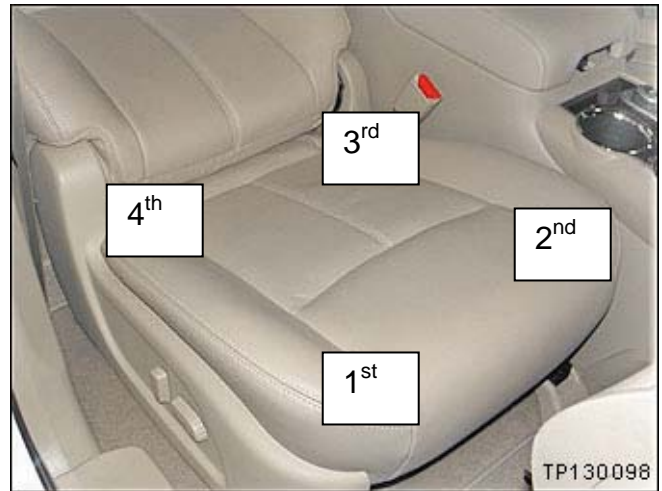


Figure 26

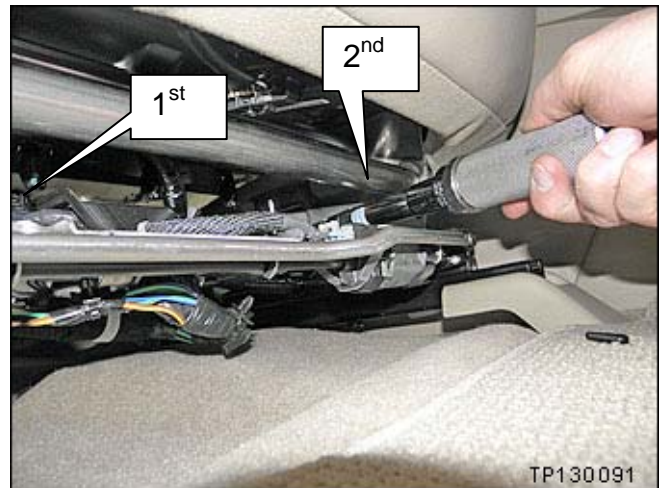


Figure 27

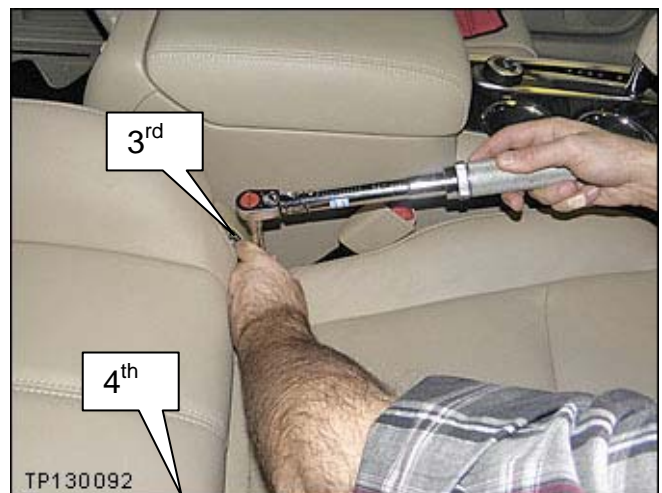


Figure 28

20. Reinstall the seat cushion inner finishers.

- Make sure they are snapped in place securely and correctly.



Figure 29

21. Reinstall the screw for both seat cushion finishers.

**NOTE:** Using a magnetic #2 Phillips screwdriver may be helpful.



Figure 30

22. For manually adjusted seat, operate the seat slide and make sure both tracks (left and right side) lock in place at each adjustment point.

23. Perform Zero Point Reset, next page.

## Zero Point Reset

1. Attach the CONSULT-III plus (C-III plus) VI to the vehicle.
2. Prepare the vehicle for Zero Point Rest.
  - Place the vehicle in a level area.
  - Minimize vibrations near the vehicle.
  - Remove any objects on the passenger seat.
  - Seatback in the standard upright position.
  - **No occupants in the vehicle – including the servicing technician.**
  - Close all of the vehicle doors.
  - Do not touch the vehicle during zero point reset.
3. Place the CONSULT PC outside the vehicle and away from the vehicle.
4. Turn the ignition ON and start C-III plus.
5. Wait for the plus VI to be recognized.
  - The serial number will display when the VI is recognized.
6. Select **Diagnosis (One System)**.

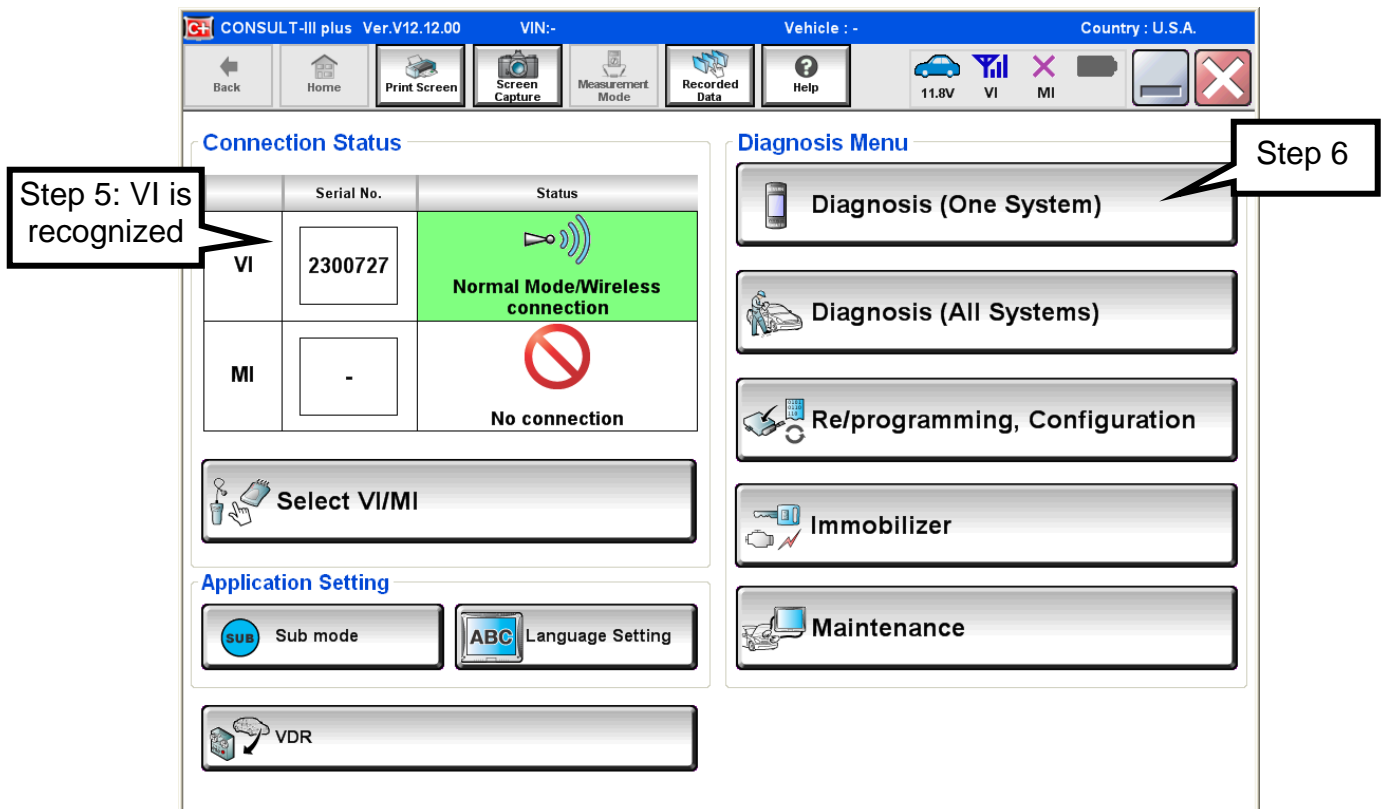


Figure Z1

7. Select **OCCUPANT DETECTION**.

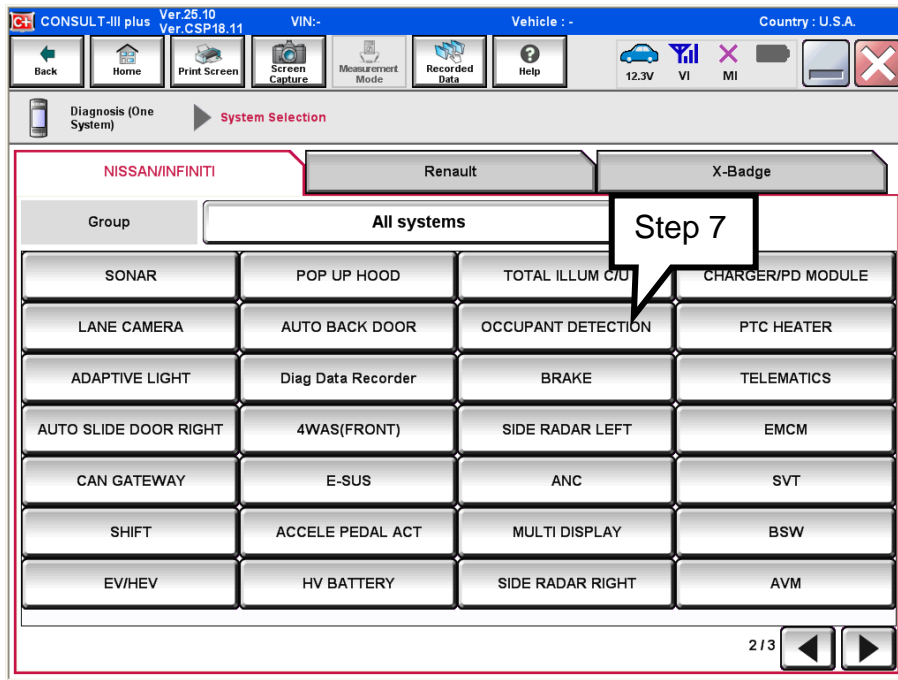


Figure Z2

8. Wait for System Call to complete.

9. Select **Zero point reset function**.

10. Select **Start**.

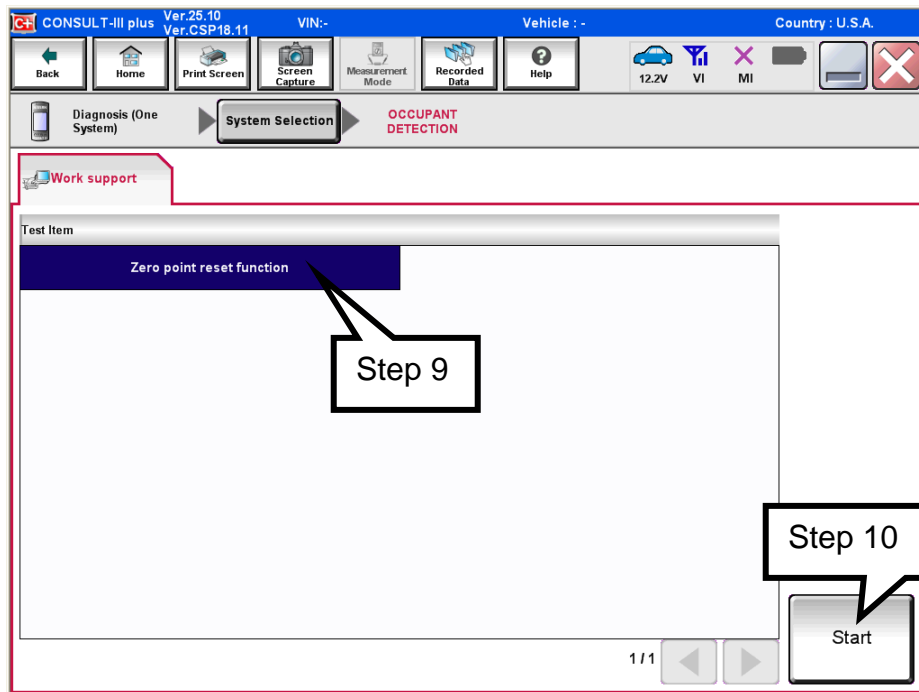


Figure Z3

## 11. Select Next.

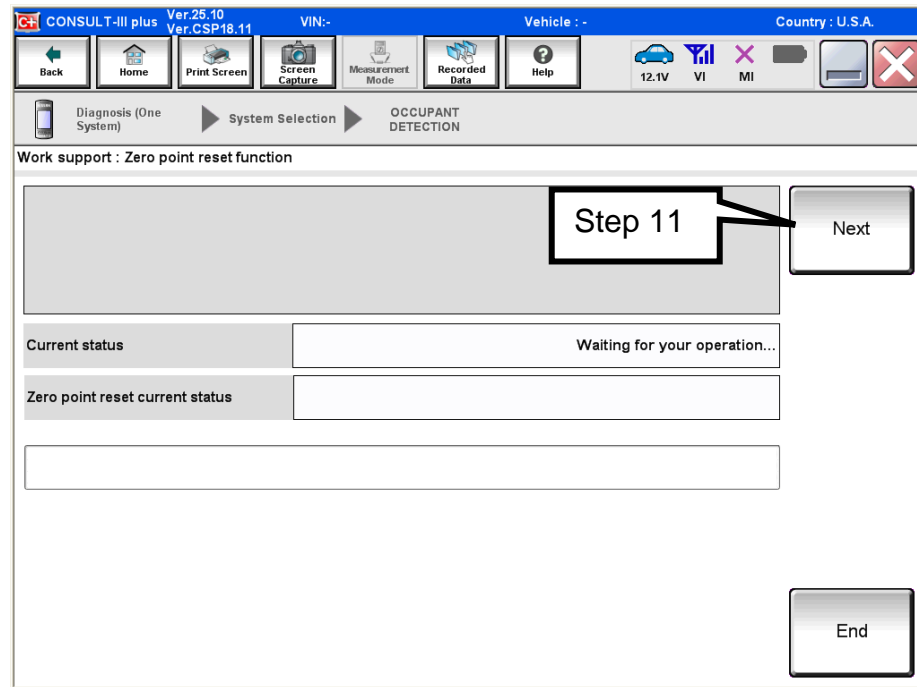


Figure Z4

## 12. Select Start.

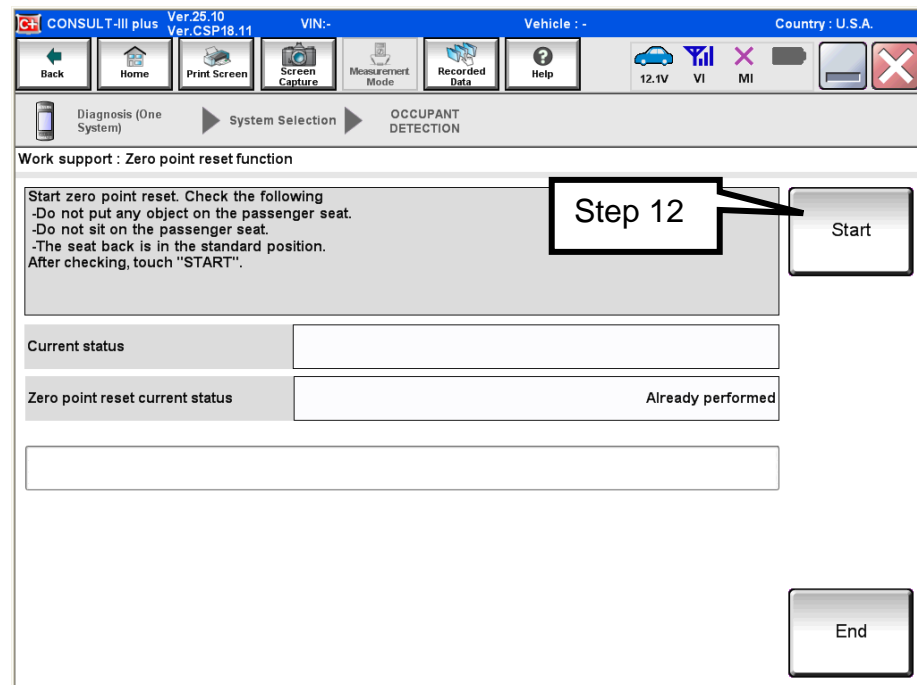


Figure Z5

**NOTE: Zero Point Reset must be performed even if:**

- “Current status” indicates “Completed”, or
- “Zero point reset current status” indicates “Already performed”

13. Wait for Zero Point Function to complete.

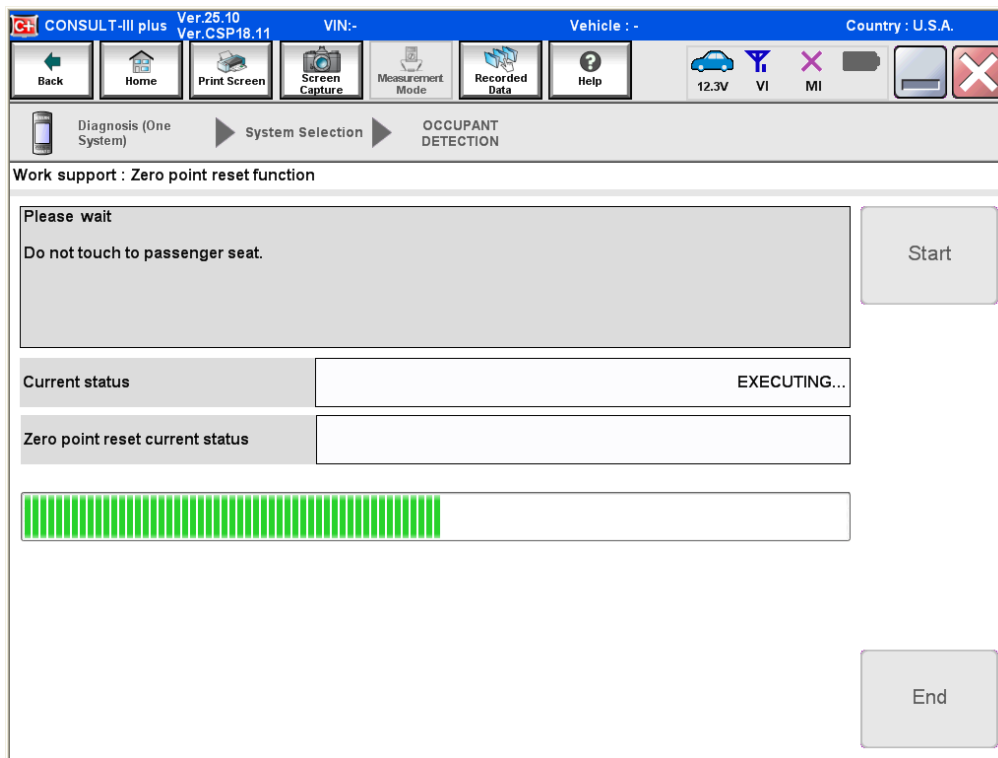


Figure Z6

**If Zero Point Reset will not complete:**

**NOTE:** If Zero Point Reset will not complete, it is likely that something in the Service Procedure was not followed exactly as instructed.

- a. Turn the ignition OFF.
- b. Make sure all electrical connectors under the seat are **securely connected**.
  - Body harness to seat harness.
  - OCS sensors
  - OCS Control Unit.
- c. Try Zero Point Rest again.
- b. If it still will not complete, an installation process or step was not followed exactly as specified.
  - Recheck / re-perform the OCS sensor installation process.
  - **Pay special attention to the 14 mm nut torque (page 17, steps 18 and 19).**

**NOTE:** DTC B1020 is an indication that the 14 mm nuts may be torqued incorrectly.

14. Make sure that "Current status" reads as **Completed**.

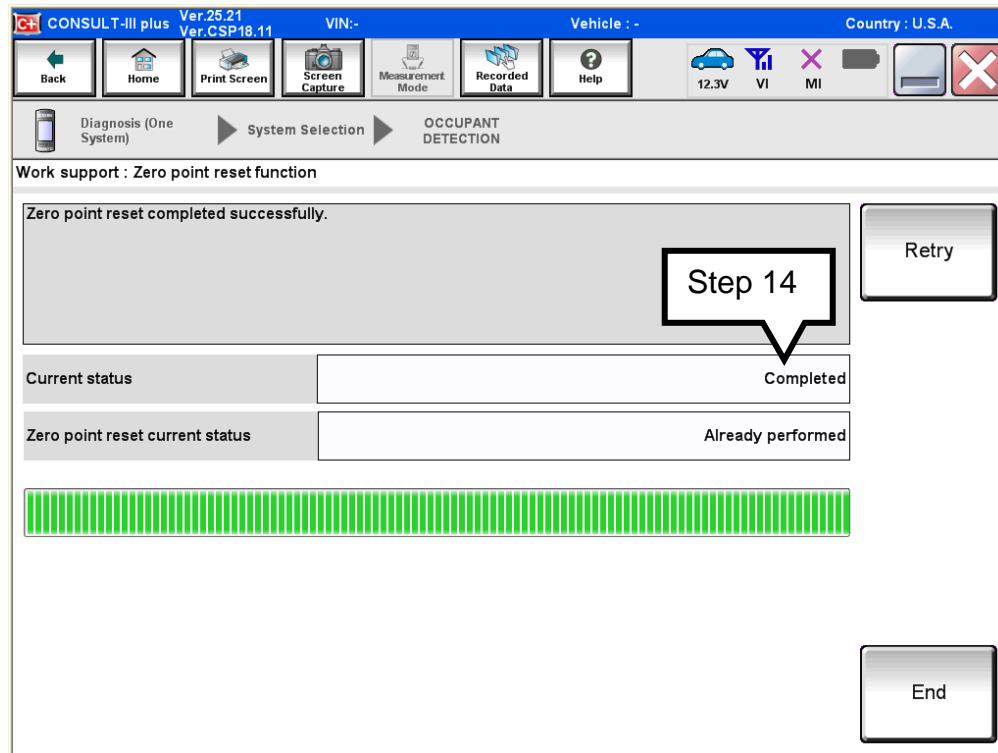


Figure Z7

15. Close C-III plus, turn the ignition OFF, and disconnect from the vehicle.

16. Turn the ignition ON and observe the air bag warning light:

- Light should illuminate for 7 seconds and then go out.

**NOTE:** If the Air Bag Warning light does not operate as described above, there may be an issue not covered by this campaign. Refer to ASIST and the Service Manual for additional diagnostic and repair information.

**PARTS INFORMATION**

<b>DESCRIPTION</b>	<b>PART #</b>	<b>QUANTITY</b>
Sen-Occupant (OCS Sensor)	98853-3JA0A	If needed, 1 or 2.
M10 Nut (14 mm wrench size)	23391-3JA0A	4
M8 Nut (12 mm wrench size)	23188-3JA0A	4

**CLAIMS INFORMATION**

Submit a “CM” line claim using the following claims coding:

<b>CAMPAIGN (“CM”) I.D.</b>	<b>DESCRIPTION</b>	<b>OP CODE</b>	<b>FRT</b>
PC216	Remove, Inspect, Reinstall No Sensor Replacement	PC2160	0.9 hrs.

OR

<b>CAMPAIGN (“CM”) I.D.</b>	<b>DESCRIPTION</b>	<b>OP CODE</b>	<b>FRT</b>
PC216	Inspect and Replace One (1) OCS Sensor	PC2161	0.9 hrs.

OR

<b>CAMPAIGN (“CM”) I.D.</b>	<b>DESCRIPTION</b>	<b>OP CODE</b>	<b>FRT</b>
PC216	Inspect and Replace Two (2) OCS Sensors	PC2162	0.9 hrs.



## OWNER'S LETTER

Dear Nissan owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. Nissan has decided that a defect which relates to motor vehicle safety exists in some vehicles. Our records indicate that you own the Nissan vehicle identified by the Vehicle Identification Number on the inside of this notice.

### Reason for Recall

The Occupant Classification System (a part of the passenger air bag system) in the front passenger seat may have been manufactured out of specification. In some cases, this could deactivate the passenger air bag in your vehicle. If this occurs, the **red** air bag warning light will illuminate and stay illuminated after the vehicle is started (it is normal for the red air bag warning lamp to flash for about seven seconds when the vehicle is first started). This could result in the passenger air bag not inflating in a crash, potentially increasing the risk of injury.

### What Nissan Will Do

Your Nissan dealer will inspect the OCS sensors and, if necessary, replace them with new ones. This service, free for parts and labor, can take up to two hours to complete, but your Nissan dealer may require your vehicle for a longer period of time based upon their work schedule, or parts availability.

### What You Should Do

Contact your Nissan dealer at your earliest convenience in order to arrange an appointment to have your vehicle inspected and, if necessary, repaired. Please bring this notice with you to your service appointment. Instructions have been sent to your Nissan dealer.

**If the red air bag warning light in your vehicle continuously illuminates after the vehicle is started, please take your vehicle to the dealership as soon as possible. In the interim do not allow passengers to ride in the passenger seat.** If the dealer fails, or is unable to make the necessary repairs free of charge, you may contact the National Consumer Affairs Department, Nissan North America, Inc., P.O. Box 685003, Franklin, TN 37068-5003. The toll free number is 1-800-NISSAN1 (1-800-647-7261). You may also contact the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue, SE., Washington, DC 20590; or call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153); or go to <http://www.safercar.gov>.

Federal law requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

Thank you for your cooperation. We are indeed sorry for any inconvenience this may cause you.