



RECALL CAMPAIGN BULLETIN

Reference:

NTB13-032a

Date:

June 4, 2013

VOLUNTARY SAFETY RECALL CAMPAIGN 2013 SENTRA OCS SENSORS

This bulletin has been amended. Information to help perform the Service Procedure has been added on pages 19 and 25, and the Owner Letter was added. Please discard previous versions of this bulletin.

CAMPAIGN ID #: PC213

NHTSA #: 13V-069

APPLIED VEHICLES: 2013 Sentra (B17)

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 Sentra vehicles at no charge for parts or labor.

IDENTIFICATION NUMBER

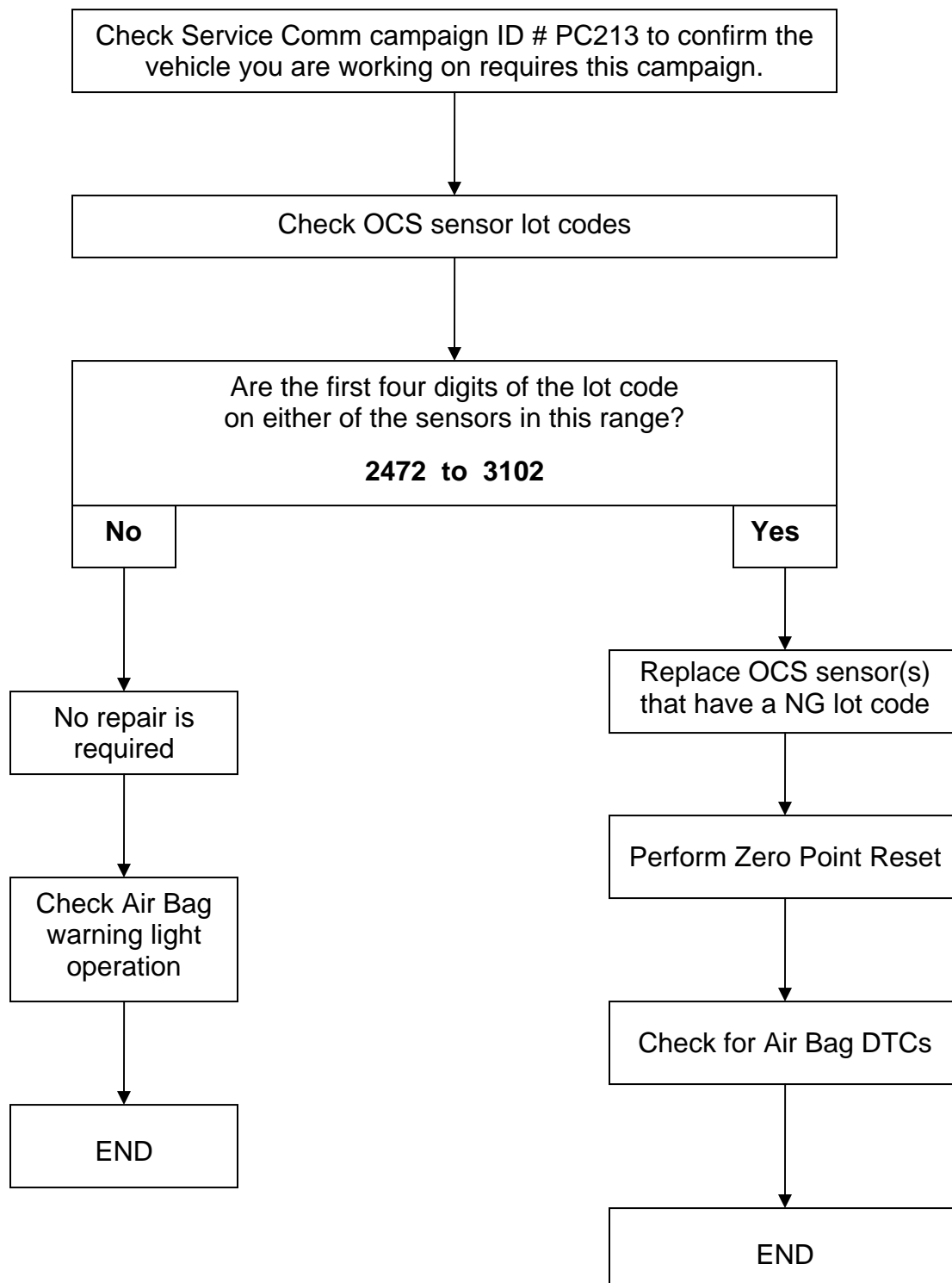
Nissan has assigned identification number PC213 to this campaign. This number must appear on all communications and documentation of any nature dealing with this campaign.

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



REQUIRED SPECIAL TOOLS

J-50079

- Video Borescope J-50079 is a dealer “essential tool”.
- Each dealer was previously shipped one J-50079.
- Additional tools can be ordered from TECH-MATE at 1-800-662-2001.



Figure ST1

J-49752

- 14 mm Torque Adaptor J-49752 is a dealer “essential tool”.
- Each dealer was previously shipped one J-49752.
- Additional tools can be ordered from TECH-MATE at 1-800-662-2001.



Figure ST2

J-51289

- Seat Track Alignment Gauge J-51289 is a dealer “essential tool”.
- Each dealer will be shipped one J-51289 the week of April 8, 2013.
- Additional tools can be ordered from TECH-MATE at 1-800-662-2001.



Figure ST3

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.

Check OCS Sensor Lot Codes

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

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

- **Remove ignition key / Intelligent Key from cabin of the vehicle and set aside, away from the vehicle. This will prevent accidentally turning ignition ON.**
- **Make sure the ignition remains OFF until after the lot code check is complete.**
- **Wait for all control units to “power down” (at least 3 minute) after the ignition is turned OFF.**

2. From under the passenger front seat, disconnect the OCS electrical connectors (see Figure A).

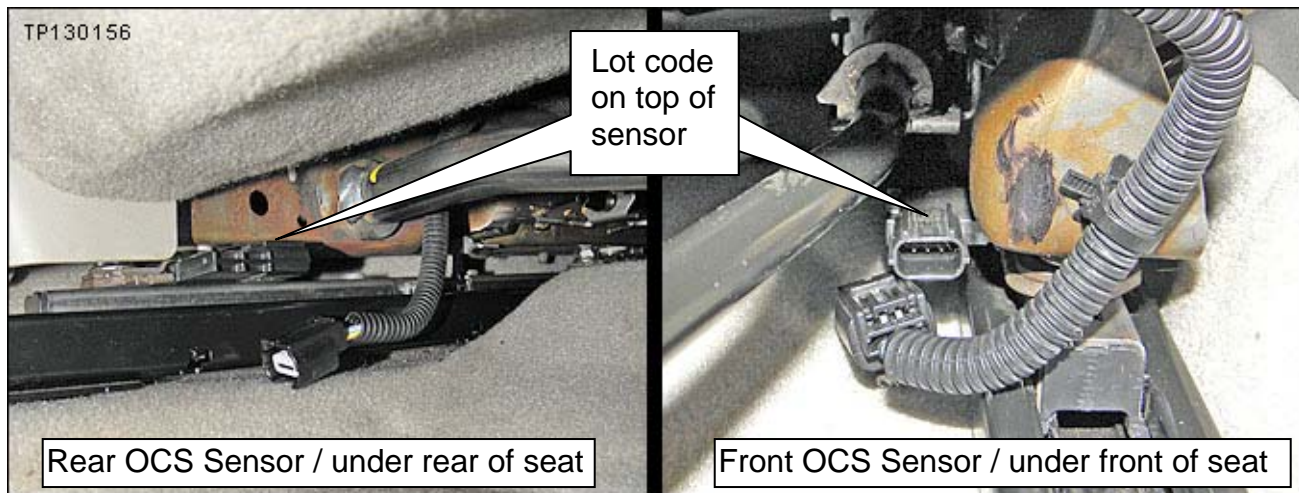


Figure A

3. Use borescope (J-50079 or equivalent) to read the lot code on top of each sensor.



Figure B

OCS sensor lot code example – your vehicles lot code numbers may be different.

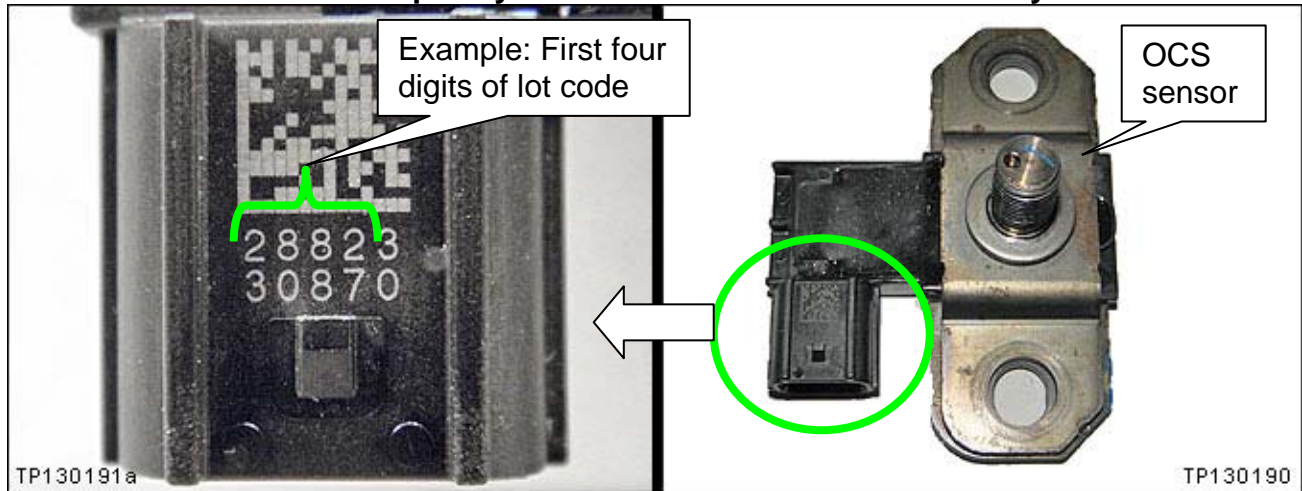


Figure C

4. Write the first four digits of the lot code **for each sensor** on the repair order.
 - In the **example** above, the first four digits are “2882”.
5. Reconnect the electrical connectors for both OCS sensors.
6. Determine if the OCS sensors are NG or OK.

NG: Lot code is in this range: 2472 to 3102

- If the first four digits of the lot code are 2472 to 3102, replace the sensor.

NOTE: Only replace a sensor if its lot code is within the above range. Some vehicles may require only one new sensor; some may require two new sensors.

- Refer to Replace OCS Sensor(s) on the next page.

OK: Lot code is not in the above range

- If the first four digits of the lot code for both sensors are **not** in the above range, no repair is needed:
 - a. Make sure the OCS sensor electrical connectors are connected.
 - b. Turn the ignition from OFF to 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.

- b. Return the vehicle to the customer.

Replace OCS Sensor(s)

IMPORTANT: Follow all cautions, warnings, and notes in the Electronic Service Manual (ESM) when working on or near a Supplemental Restraint System (SRS), such as an air bag).

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 passenger 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.**
- The center console is removed in the first part of this procedure. This is required to access seat track bolts later in the procedure.

1. Write down the radio settings.

- Before turning the ignition ON, make sure the electrical connectors for both OCS sensors are connected.

Presets	1	2	3	4	5	6
AM						
FM 1						
FM 2						
SAT 1						
SAT 2						
SAT 3						
Bass	Treble		Balance		Fade	Speed Sen. Vol.

2. **If equipped;** Write down the customer preferred setting for the Automatic Air Conditioning System.

- If needed, refer to System Settings in the HAC section of the Service Manual.

3. Block the wheels so the vehicle will not roll, shift the gear selector to Neutral, and Turn the Ignition OFF.

4. Disconnect both battery cables, negative cable first.

- Wait at least 3 minutes before continuing.

5. Remove the shift selector knob as follows.

- a. Slide the knob cover down.
- b. Remove the lock pin (clip).
- c. Slide the selector knob up.

Recommend the following:

- d. Reinstall the clip.
- e. Slide the knob cover back in place.

The selector knob is now ready for installation at the end of the procedure.

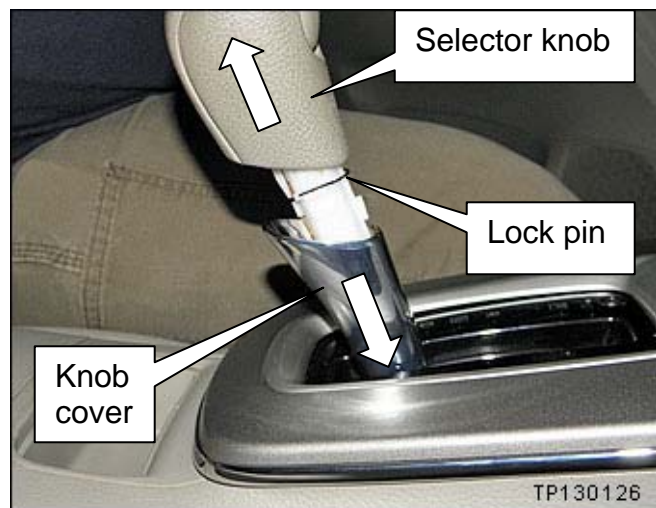


Figure 1

6. Remove cluster lid C cover.

- Use a plastic trim tool to snap loose and remove.



Figure 2

7. Remove the 2 screws shown in Figure 3.

- These screws hold the front of the shift selector finisher.

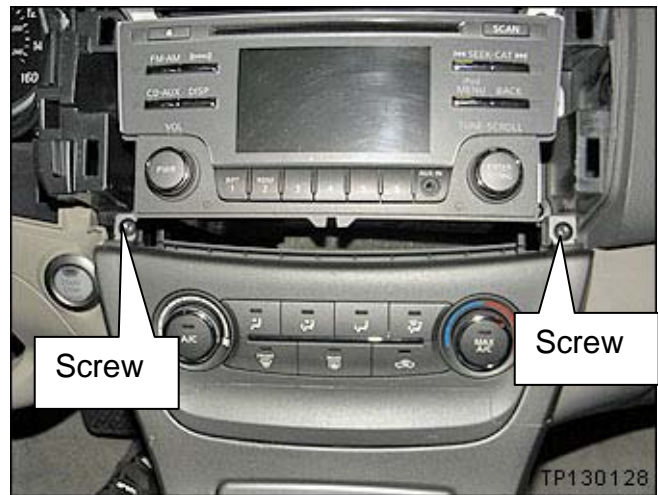


Figure 3

8. Remove the shift selector finisher.

- a. Use a plastic trim tool to snap it loose.
- b. Disconnect the electrical connector.

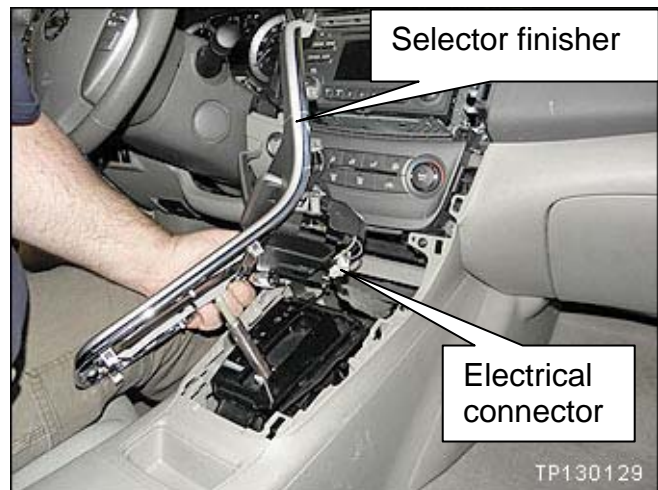


Figure 4

9. Use a plastic trim tool to snap loose and remove the center console cup holder finisher.



Figure 5

10. Remove the center console upper finisher.

- Remove the 8 screws shown in Figure 6.

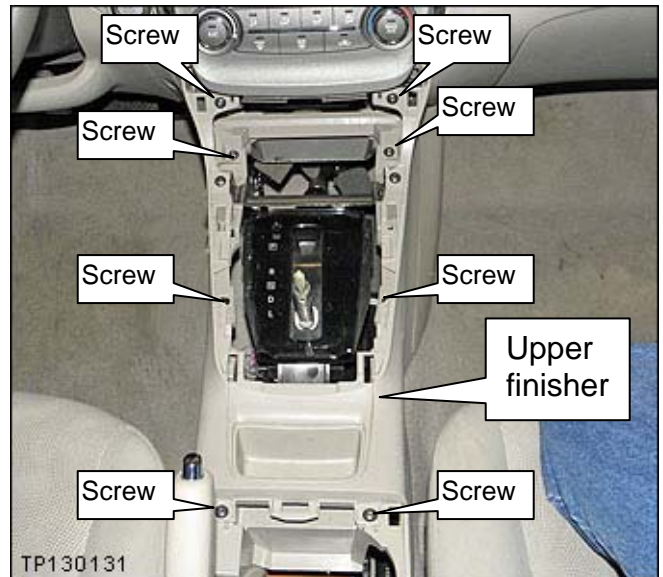


Figure 6

NOTE: If vehicle is equipped with heated seats:

- Remove the 4 screws holding the heated seat switch.

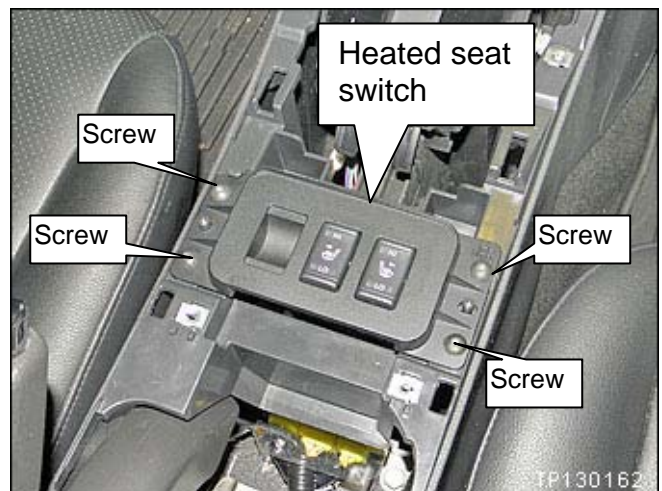


Figure 6a

- Disconnect the electrical connectors and the harness mount.

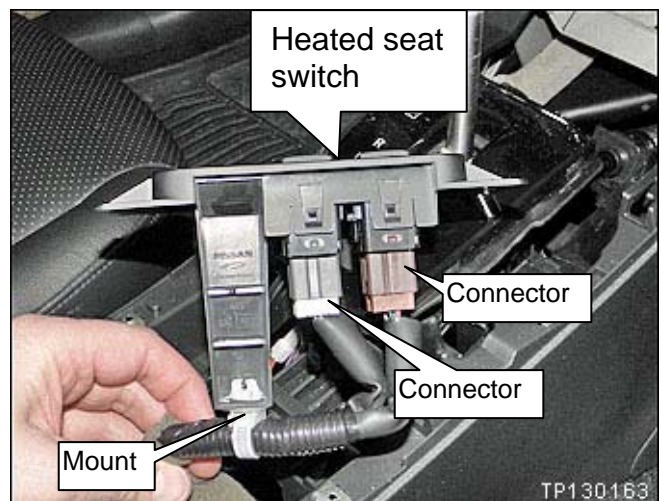


Figure 6b

11. Remove both center console side finishers.

- Right side is shown; left side is a mirror image.
- a. Remove the clip shown in Figure 7.
- b. Use a plastic trim tool to snap loose and remove the finisher.

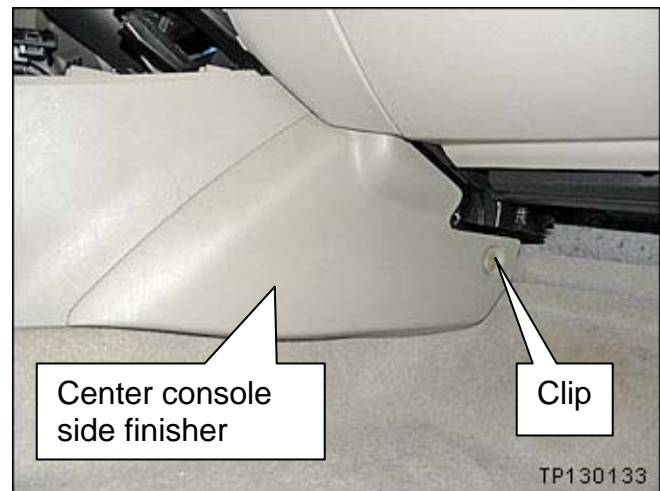


Figure 7

12. Remove screws from the front sides of the center console.

- One front screw on the right side is shown.
- One front screw on the left side is not shown.



Figure 8

13. Remove 2 screws at the front of the center console shown in Figure 9.



Figure 9

14. Remove the center console rear finisher cover.
- Use a plastic trim tool to snap it loose.

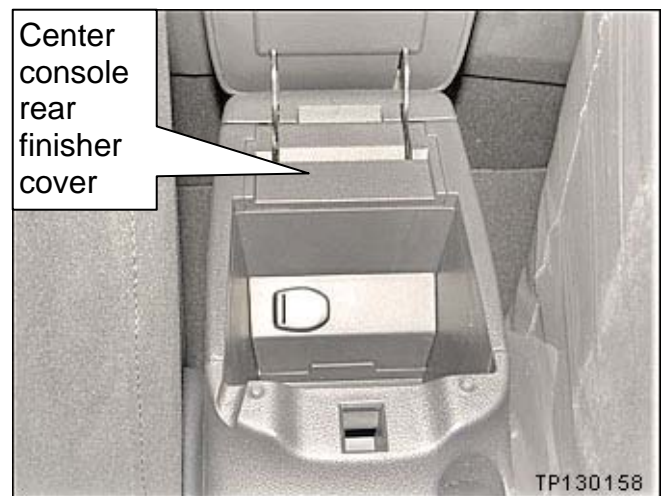


Figure 10

15. Remove the center console rear finisher.
- a. Use a plastic trim tool to snap it loose.
 - b. Disconnect the electrical connectors.

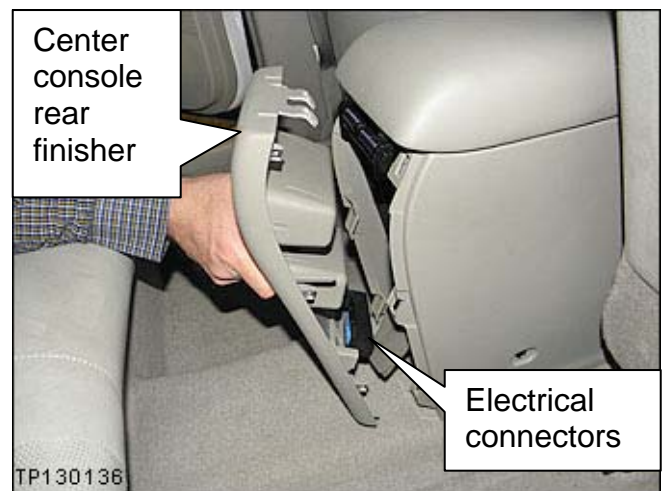


Figure 11

16. Disconnect electrical connectors at the rear of the center console.

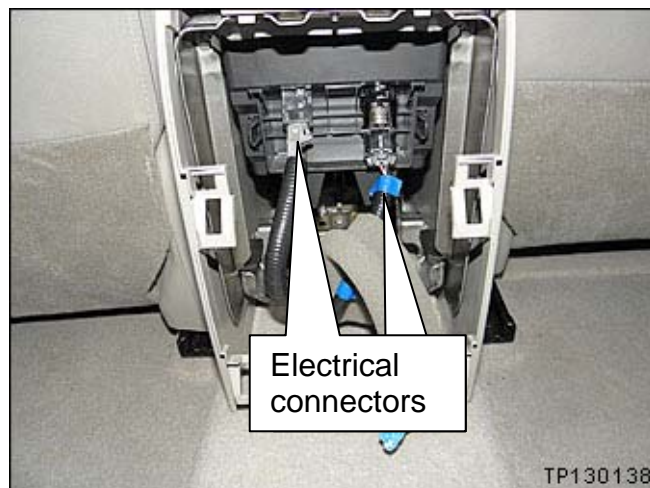


Figure 12

17. Remove screws from the rear sides of the center console.

- One screw on the right side is shown.
 - One screw on the left side is not shown.
- a. Use a plastic trim tool to remove the screw cover.
- b. Remove the screw.



Figure 13

18. Remove the center console from the vehicle.

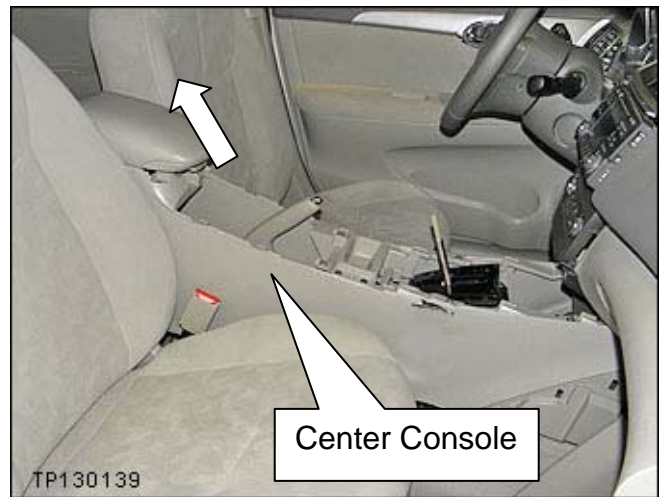


Figure 14

19. Remove the passenger front seat from the vehicle as follows:

- a. Remove the 4 bolts that hold the seat to the floor.
- b. Rock the seat back to access the electrical harness.



Figure 15

- c. From under the seat:
 - Release 2 harness attachment clips.
 - Disconnect 3 harness connectors.
- d. Remove the seat from the vehicle and place it in a clean working area.

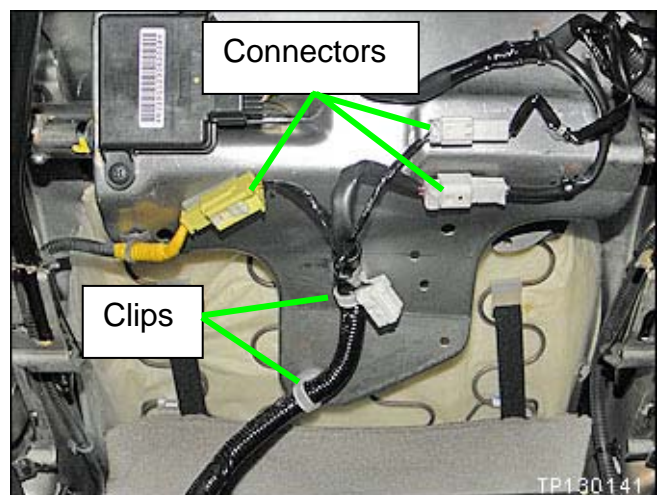


Figure 16

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

20. Disconnect the electrical connectors from both OCS sensors.

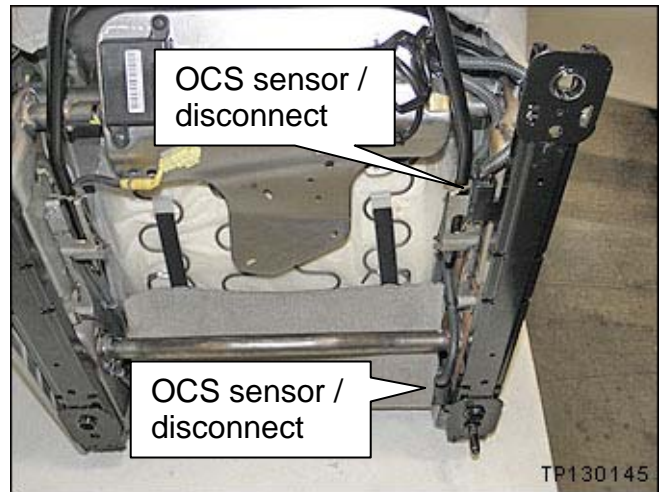


Figure 17

21. Remove 1 bolt holding the seatbelt buckle.

- Leave the electrical harness connected to the buckle.
- Set the buckle out of the way.

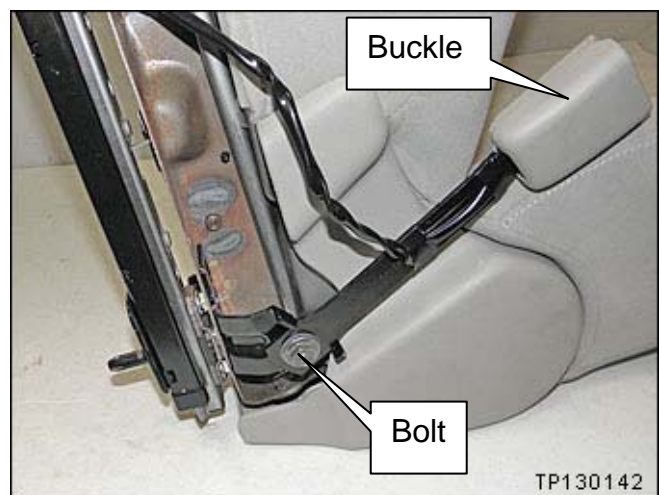


Figure 18

22. Remove the inboard seat track.

- Remove both 14 mm nuts shown in Figure 19.

NOTE: These nuts will not be reused.

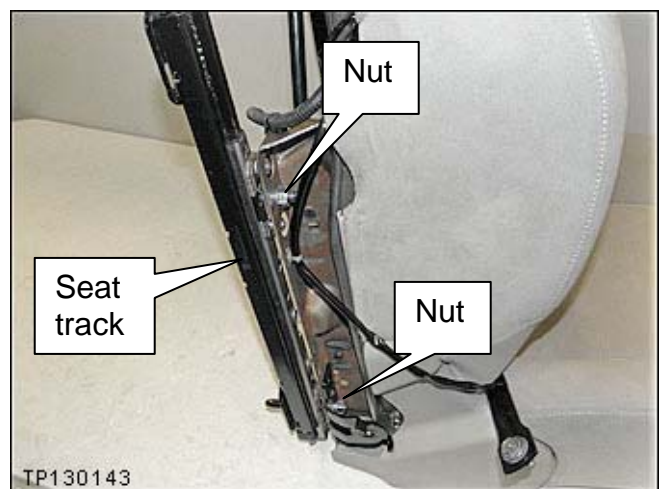


Figure 19

NOTE:

- **Only replace OCS sensor(s) if the lot code is NG (see page 5).**
- Some vehicles will require only one new sensor; some will require two new sensors.

23. Remove the old OCS sensor(s).

24. Install new OCS sensor(s).

- Make sure the spacer plate under the sensor(s) remains on the seat track.
- Do not reuse the old nuts.
- **Use new 12 mm nuts.**
- Tighten the 12 mm nuts holding the new sensor(s) **finger tight only**. Do not torque at this time.

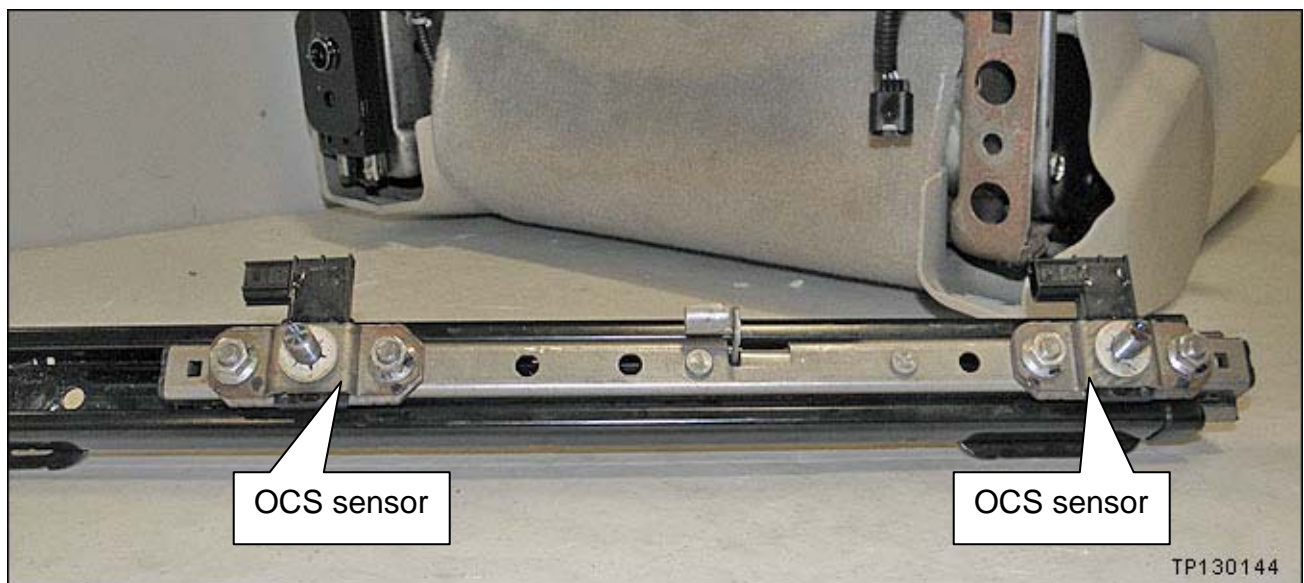


Figure 20

NOTE: Render the old sensor(s) unusable by breaking the plastic electrical connector.

25. Reinstall the inboard seat track.

- **Use new 14 mm nuts.**
- Install the 14 mm nuts **finger tight only.**
- **Do not** install the seatbelt buckle bracket at this time.

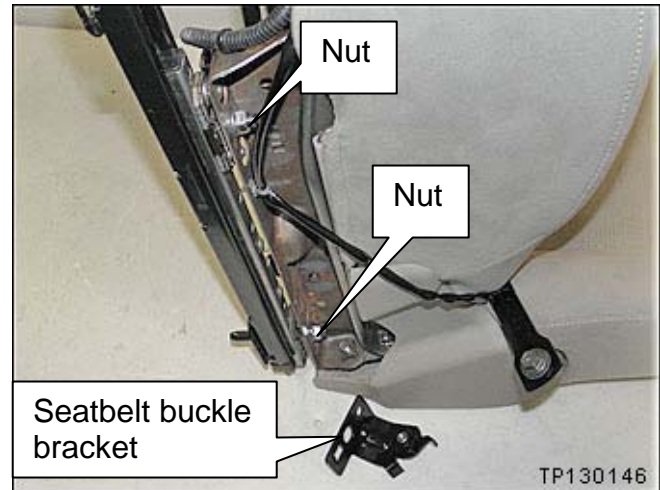


Figure 21

26. Connect the electrical connector for both OCS sensors.

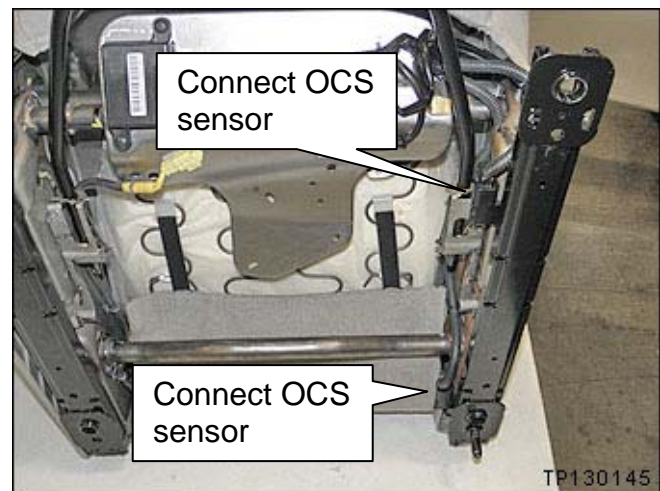


Figure 22

27. Make sure the seat tracks are synchronized.

- a. Pull the adjustment bar up.
- b. Slide both tracks full forward.
- c. Release the adjustment bar.

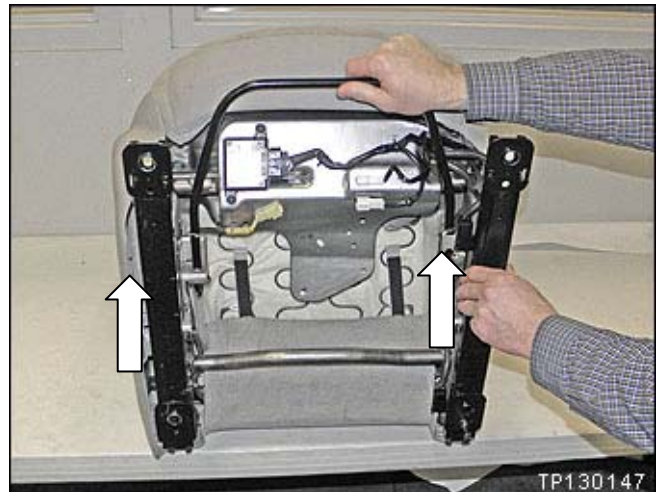


Figure 23

28. Install the passenger front seat into the vehicle as follows:

- a. Set the seat into the vehicle and rock it back to access the electrical harness.



Figure 24

b. From under the seat:

- Connect the 2 harness attachment clips.
- Connect the 3 harness connectors.

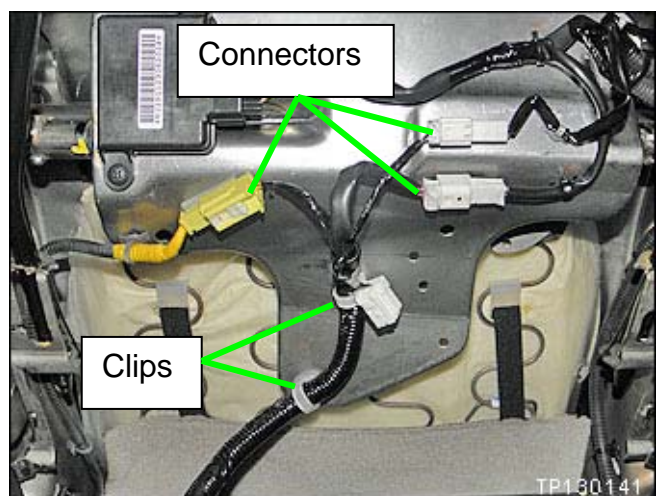


Figure 25

- c. Install the 4 bolts that hold the seat to the floor **finger tight only**.



Figure 26

- d. At the front of the seat, place the Seat Track Alignment Gauge (special tool J-51289) between the seat tracks as shown.

- e. Torque the front seat track bolts.

- Torque in the order shown.
- Torque to:
40 N•m (4.1 kg-m, **30 ft-lb**)



Figure 27

- f. Move the seat to the full forward position.

- g. At the rear of the seat, place the Seat Track Alignment Gauge (special tool J-51289) between the seat tracks as shown.

- h. Torque the rear seat track bolts.

- Torque in the order shown.
- Torque to:
40 N•m (4.1 kg-m, **30 ft-lb**)

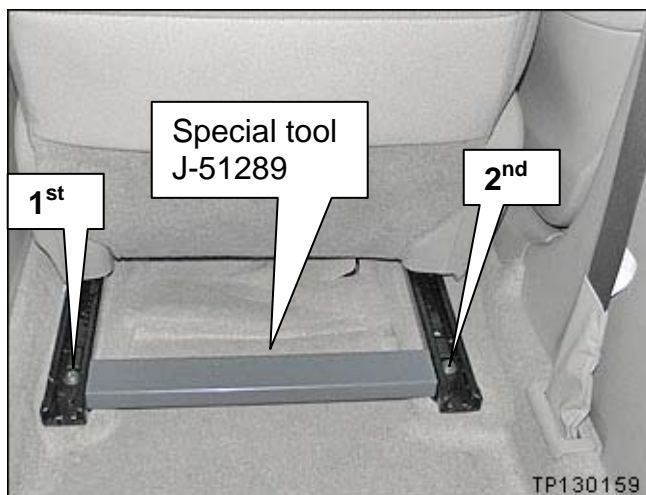


Figure 28

29. At the rear of the inboard seat track:

- a. Torque the 12 mm OCS sensor nuts.
 - Use a ¼ drive 12 mm universal chrome socket.
 - Torque 12 mm nuts to:
22 N•m (3.04 kg-m, **16 ft-lb**)

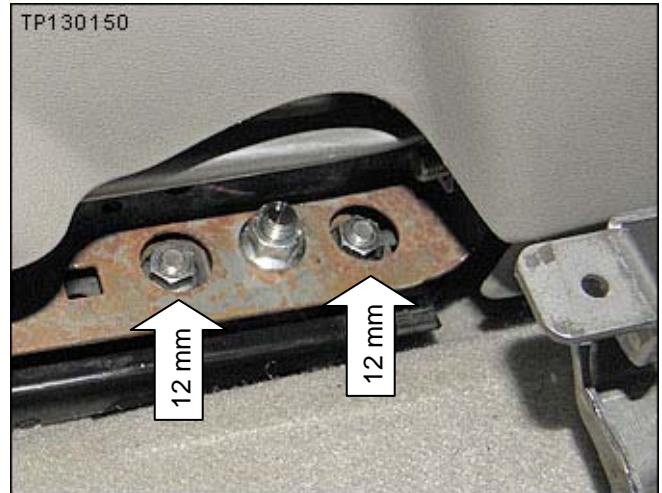


Figure 29

- b. Install the seatbelt buckle bracket.
 - Remove the 14 mm nut, install the bracket, and reinstall the 14 mm nut.

IMPORTANT:

- The torque specification for the 14 mm nuts in steps 29 and 30 is critical.
- Make sure your torque wrench is properly calibrated.
- Make sure to torque these nuts as indicated.

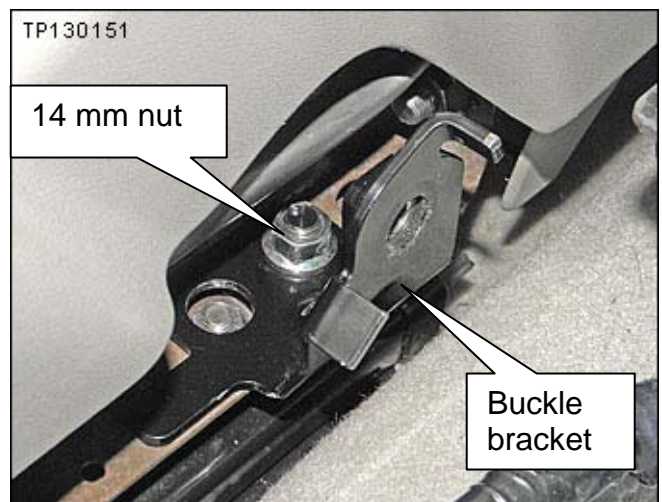


Figure 30

- c. Use special tool J-49752 to torque the 14 mm nut.
 - Torque 14 mm nut to:
39.3 N•m (4.0 kg-m, **29 ft-lb**)*

* **NOTE:** The above torque values have already been adjusted to compensate for the length of the J-49752 tool when used with a torque wrench of 11 to 15 inches in length.



Figure 31

30. At the front of the inboard seat track:

1st, torque **12 mm** OCS sensor nuts.

- Use a ¼ drive 12 mm universal chrome socket.
- Torque 12 mm nuts to:
22 N•m (3.04 kg-m, **16 ft-lb**)

2nd, torque the **14 mm** nut:

- Use special tool J-49752 to torque the 14 mm nut.
- Torque 14 mm nut to:
39.3 N•m (4.0 kg-m, **29 ft-lb**)*

* **NOTE:** The above torque values for the 14 mm nut have already been adjusted to compensate for the length of the J-49752 tool when used with a torque wrench of 11 to 15 inches in length.

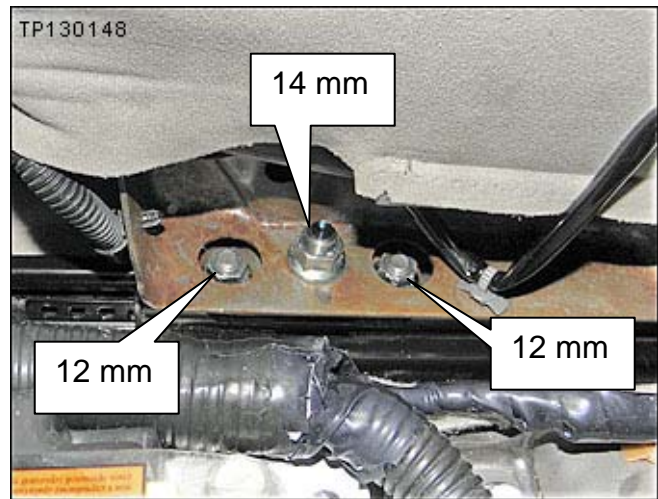


Figure 32

31. Reinstall the seatbelt buckle.

- Torque bolt to:
49 N•m (5.0 kg-m, **36 ft-lb**)

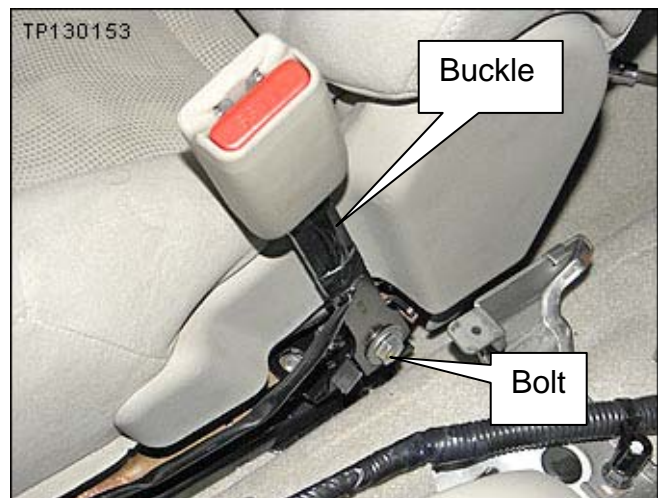


Figure 33

32. Operate the seat slide and make sure both tracks (left and right side) lock in place at each adjustment point.

33. Reinstall the center console and all other parts in reverse order of removal.

34. Connect both battery cables – positive cable first.

35. Reset the clock and the radio settings.

36. **If equipped**; reset the customer preferred settings for the Automatic Air Conditioning System.

- If needed, refer to System Settings in the HAC section of the Service Manual.

37. **If equipped**; inform the customer that some memory settings in the navigation system may need to be reset.

38. Reinitialize and check Anti-Pinch Function for all Auto-UP power windows:

Reinitialize:

- a. Turn the ignition ON.
- b. Operate the power window switch to fully open the window (all the way down).
- c. Hold the window switch UP until the window is completely closed, and then continue holding for 2 seconds or more.
- d. Check that the AUTO-UP function operates normally.

Check Anti-Pinch Function

- a. Fully open the door window glass.
- b. Place a piece of wood near the fully closed position.
- c. Close the door window glass completely with the AUTO-UP function.
- d. Check the following conditions:
 - Check that glass lowers for approximately 150 mm (5.9 in) without pinching the piece of wood, and stops.
 - Check that the glass does not rise when operating the power window main switch, while the window is lowering after hitting the wood.

CAUTION: Do not check anti-pinch function with hands or other body parts because they may be pinched.

39. Perform Zero Point Reset and check for DTCs – Next page.

Zero Point Reset / DTC Check

1. Attach the CONSULT-III plus (C-III plus) VI to the vehicle.
2. Prepare the vehicle for Zero Point Reset.
 - Place the vehicle in a level area.
 - Minimize vibrations near the vehicle.
 - Remove any objects on the passenger seat.
 - **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)**.

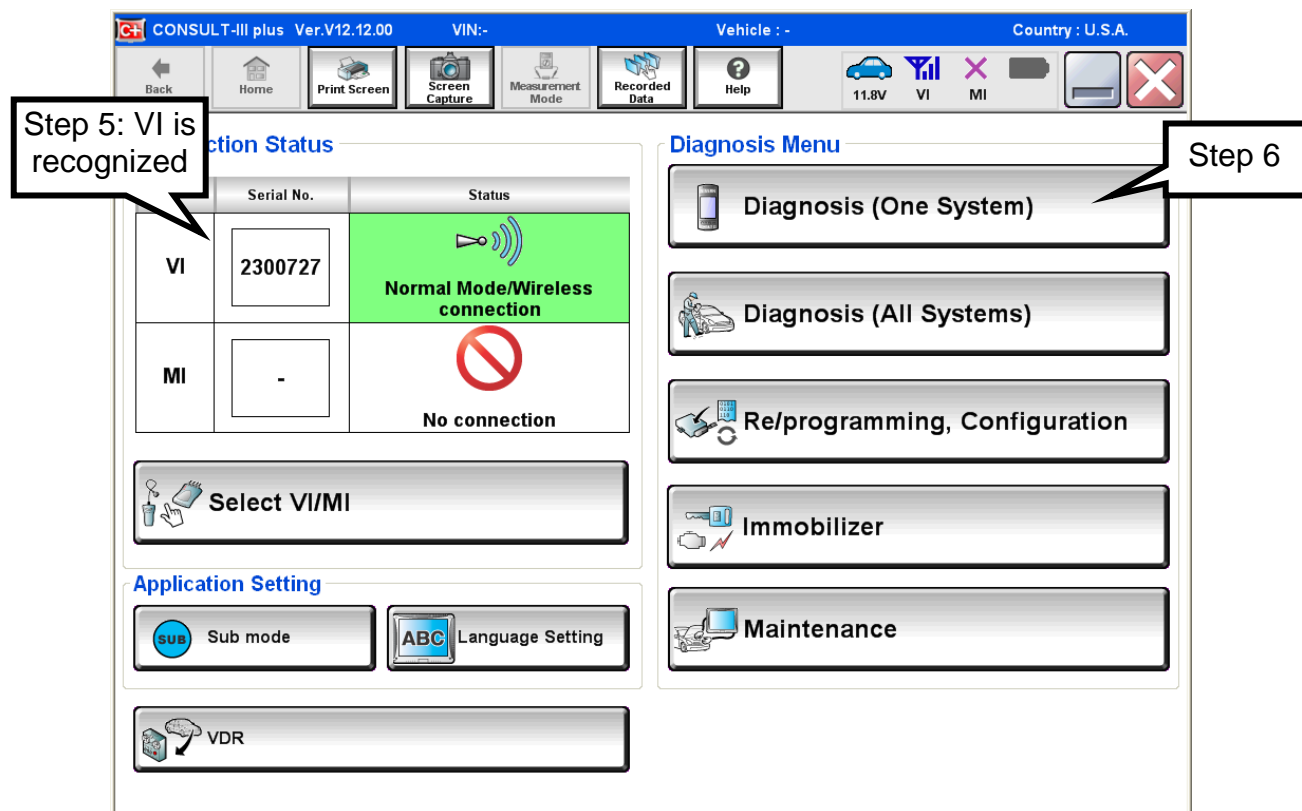


Figure Z1

7. Select **OCCUPANT DETECTION**.

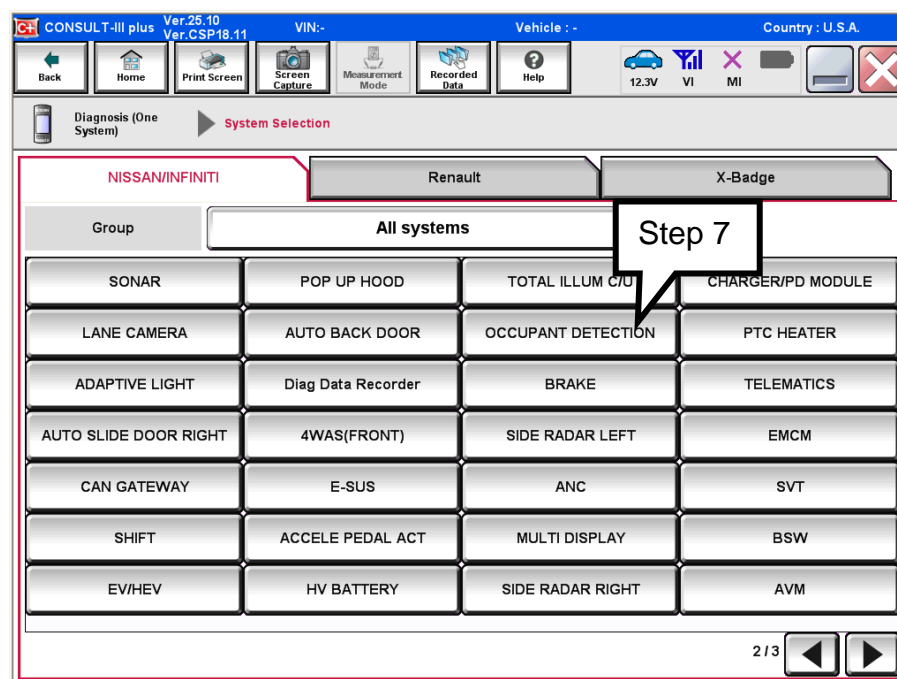


Figure Z2

8. Wait for System Call to complete.

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

10. Select **Start**.

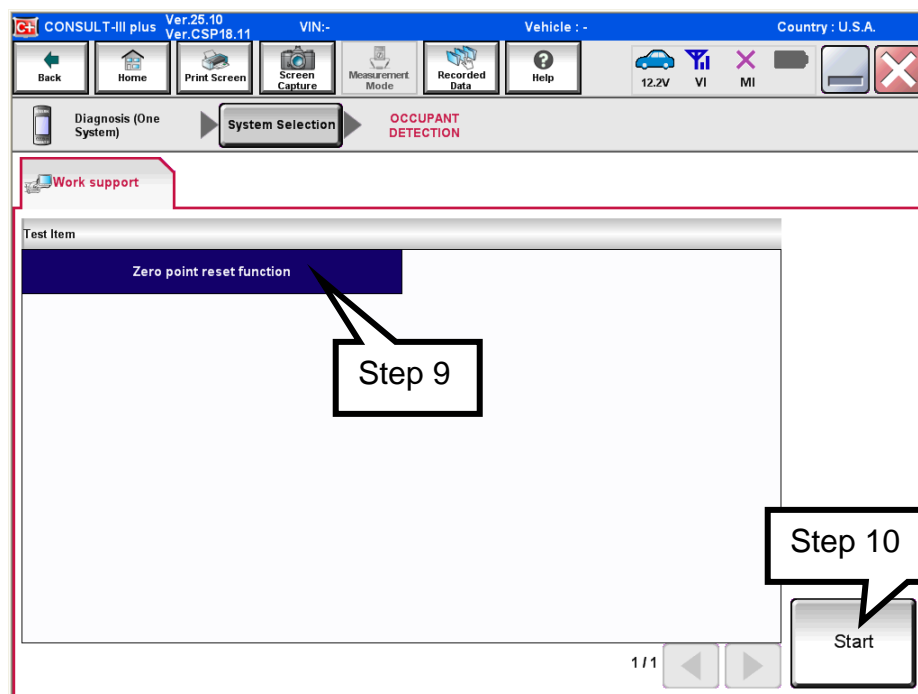


Figure Z3

11. Select **Next**.

The screenshot shows the CONSULT-III plus software interface. The top bar includes the title 'CONSULT-III plus Ver.25.10 Ver.CSP18.11', fields for 'VIN:-' and 'Vehicle :-', and 'Country : U.S.A.'. Below the title bar is a navigation menu with icons for Back, Home, Print Screen, Screen Capture, Measurement Mode, Recorded Data, and Help. To the right of the menu are icons for 12.1V, VI, MI, and a red X. The main area is titled 'Work support : Zero point reset function'. It contains a large grey box with a callout 'Step 11' pointing to a 'Next' button. Below this are two status fields: 'Current status' with the text 'Waiting for your operation...' and 'Zero point reset current status' with an empty field. At the bottom right is an 'End' button.

Figure Z4

12. Select **Start**.

The screenshot shows the CONSULT-III plus software interface. The top bar includes the title 'CONSULT-III plus Ver.25.10 Ver.CSP18.11', fields for 'VIN:-' and 'Vehicle :-', and 'Country : U.S.A.'. Below the title bar is a navigation menu with icons for Back, Home, Print Screen, Screen Capture, Measurement Mode, Recorded Data, and Help. To the right of the menu are icons for 12.1V, VI, MI, and a red X. The main area is titled 'Work support : Zero point reset function'. It contains a large grey box with a callout 'Step 12' pointing to a 'Start' button. The text inside the grey box reads: 'Start zero point reset. Check the following
-Do not put any object on the passenger seat.
-Do not sit on the passenger seat.
-The seat back is in the standard position.
After checking, touch "START"'. Below this are two status fields: 'Current status' with an empty field and 'Zero point reset current status' with the text 'Already performed'. At the bottom right is an 'End' button.

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.

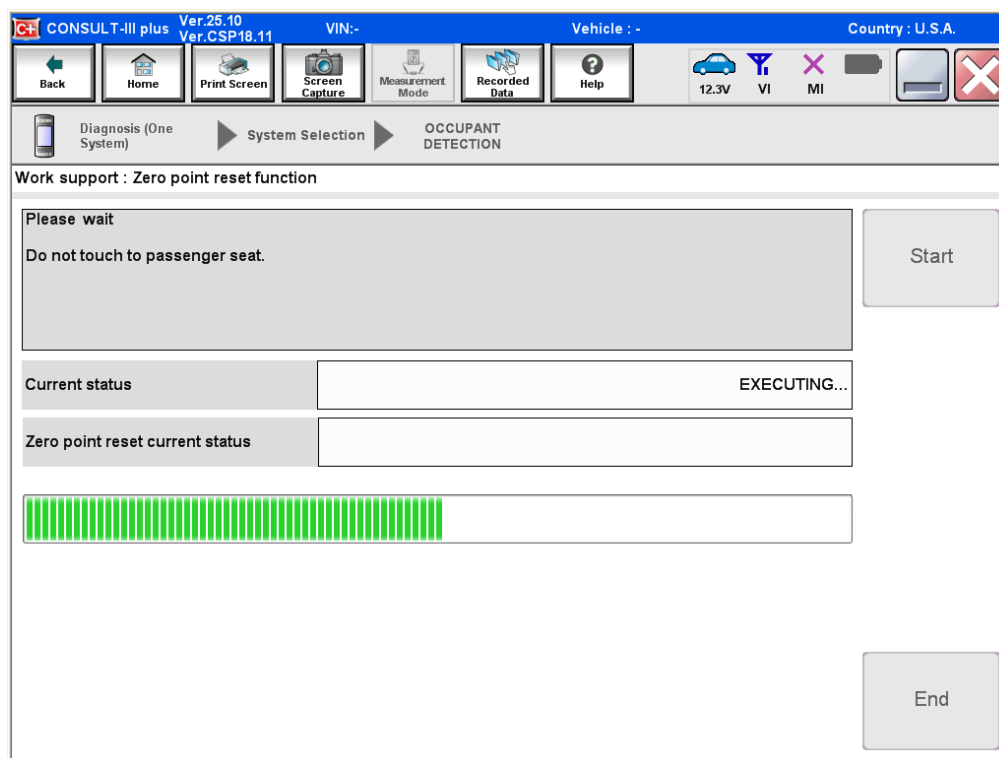


Figure Z6

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 (steps 29 & 30 on pages 19 & 20).**

14. Make sure that "Current status" is **Completed**.

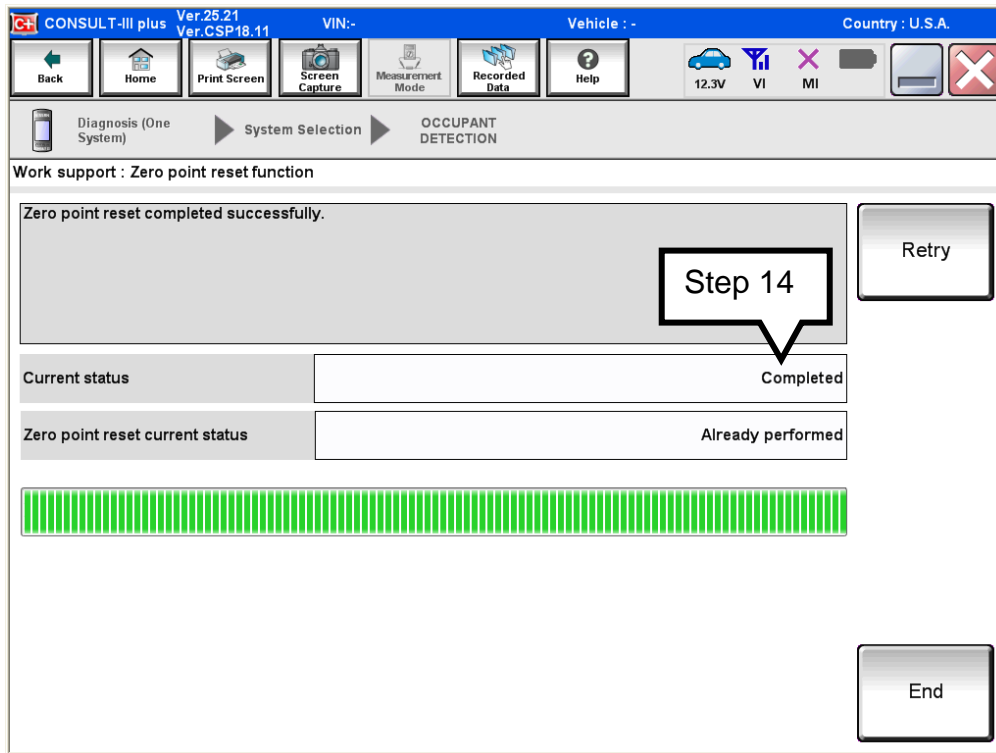


Figure Z7

15. Select **Home** on C-III plus.

16. Check for Air Bag DTCs

Navigate C-III plus to:

Diagnosis (One System) ⇒ AIR BAG ⇒ Self Diagnostic Results

- No Air Bag DTCs stored – go to the next step.
- DTC B00A0 stored (current or past) – erase stored code, then go to the next step.
- Other DTCs stored: Refer to ASIST and the Service Manual for additional diagnostic and repair information. Issues other than replacement of the OCS sensors are not covered by this campaign.

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

18. 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

DESCRIPTION	PART #	QUANTITY
Sen-Occupant (OCS Sensor)	98853-3JA0A	If needed, 1 or 2
M10 Nut (14 mm wrench size)	23391-3NF0A	If sensor is replaced; 2
M8 Nut (12 mm wrench size)	23188-3NF0A	If sensor is replaced; 2 for each sensor (up to 4)

CLAIMS INFORMATION

Submit a Campaign (CM) line claim using the following claims coding:

CAMPAIGN ID #	DESCRIPTION	OP CODE	FRT
PC213	Inspect OCS Sensors	PC2130	0.2 hrs.

OR

CAMPAIGN ID #	DESCRIPTION	OP CODE	FRT
PC213	Inspect and replace One (1) OCS Sensor	PC2131	1.4 hrs.

OR

CAMPAIGN ID #	DESCRIPTION	OP CODE	FRT
PC213	Inspect and replace Two (2) OCS Sensors	PC2132	1.4 hrs

OR

CAMPAIGN ID #	DESCRIPTION	OP CODE	FRT
PC213	Inspect and replace One (1) OCS Sensor With Heated Seats	PC2133	1.4 hrs.

OR

CAMPAIGN ID #	DESCRIPTION	OP CODE	FRT
PC213	Inspect and replace Two (2) OCS Sensors With Heated Seats	PC2134	1.5 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.