INFINITI ® | **SERVICE BULLETIN**

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Classification:	Reference:	Date:
RS13-011	ITB13-016	May 17, 2013

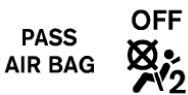# AIR BAG AND SEAT BELT
WARNING LIGHTS INCORRECT INDICATION

APPLIED VEHICLES: 2011 – 2013 QX56 (Z62)
2009 – 2013 FX (S51)

IF YOU CONFIRM

One or more of the following conditions:

- Front passenger air bag status light is ON (illuminated) with the front passenger seat empty.

- Front passenger air bag status light is ON (illuminated) with an adult* sitting in the front passenger seat.

- Seat belt warning light is ON (illuminated) with the front passenger seat empty (driver seat belt is buckled).

- Supplemental air bag warning light is flashing but no Air Bag DTCs are stored.

    * The front passenger air bag is designed to automatically turn OFF under some conditions. Refer to the appropriate Vehicle Owner's Manual for complete information on proper use of the front passenger seat.

PASS AIR BAG **OFF** **Front passenger air bag status light** (Front passenger air bag OFF indicator)	**Supplemental air bag warning light**	**Seat belt warning light**

Infiniti 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 Infiniti dealer to determine if this applies to your vehicle.

ACTION

1. Visually check the front passenger seat and seat rails for any structural damage.

    - **If any structural damage is found, this bulletin does not apply.**

2. Visually check the front passenger seat for any items in the seat pockets, or any items on, under, or hanging from the seat (front, back, and sides).

    - If any items are found, remove the items and recheck the incident before proceeding.

3. Replace the OCS control unit.

4. Perform Zero Point Rest and check for DTCs.

> **IMPORTANT:** The purpose of ACTION (above) is to give you a quick idea of the work you will be performing. You MUST closely follow the <u>entire</u> SERVICE PROCEDURE as it contains information that is essential to successfully completing this repair.

PARTS INFORMATION

MODEL	DESCRIPTION	PART NUMBER	QUANTITY
FX	Controller Assy- Occupant sensor (OCS Control Unit)	98856 – 3GT0A	1
QX56		98856 – 1V90A	

CLAIMS INFORMATION

Submit a Primary Part (PP) type line claim using the following claims coding:

FX

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Replace OCS Control Unit	(1)	RX3SAA	ZE	32	0.8

(1) Refer to the Parts Information table and use the applicable OCS Control Unit (98856-XXXXX) part number as the Primary Part (PFP).

QX56

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Replace OCS Control Unit	(1)	RX3SAA	ZE	32	0.6

(1) Refer to the Parts Information table and use the applicable OCS Control Unit (98856-XXXXX) part number as the Primary Part (PFP).

SERVICE PROCEDURE

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.

Preliminary checks

1. Visually check the front passenger seat and seat rails for any structural damage.

    - **If any seat structural damage is found, this bulletin does not apply.**

2. Visually check the front passenger seat for any items in the seat pockets, or any items on, under, or hanging from the seat (front, back, or sides).

    a. If any items are found, remove the items and recheck the incident before proceeding.

    b. If the incident still occurs with items removed, continue with this procedure.

Preparation for Replacing OCS Control Unit:

1. Write down the radio settings.

Presets	1	2	3	4	5	6
AM						
FM 1						
FM 2						
SAT 1						
SAT 2						
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. Turn the ignition OFF.

4. Go to Replace OCS Control Unit on the next page.

FX: Replace OCS Control Unit:

1. Remove the mounting bolts that hold the front passenger seat to the floor.

    - If needed, refer to the SE section of the appropriate Service Manual.

2. Disconnect both battery cables, negative cable first.

    CAUTION: Wait at least 3 minutes before disconnecting any air bag electrical connectors.

3. Tilt the seat back to gain access to the OCS control unit.

4. Replace the OCS control unit with the one listed in the Parts Information.

5. Position the seat into its proper place.

6. Make sure all of the seat electrical connectors are connected.

7. Reconnect battery cables – positive cable first.

8. Reinstall the mounting bolts that hold the front passenger seat to the floor.

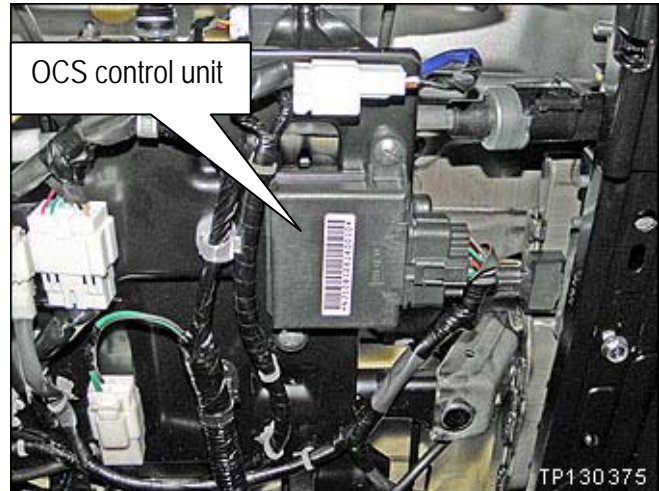OCS control unit

TP130375

Figure 1

    - Refer to the SE section of the appropriate Service Manual for bolt torque specification and bolt torque order.

9. Go to Reset Vehicle Settings on the next page.

QX56: Replace OCS Control Unit:

1. Disconnect both battery cables, negative cable first.

    CAUTION: Wait at least 3 minutes before disconnecting any air bag electrical connectors.

2. Remove the front passenger seat cushion front finisher.

    - If needed, refer to the SE section of the appropriate Service Manual.

3. Replace the OCS control unit with the one listed in the Parts Information (see Figure 2).

4. Reinstall the front passenger seat cushion front finisher.

5. Reconnect battery cables – positive cable first.

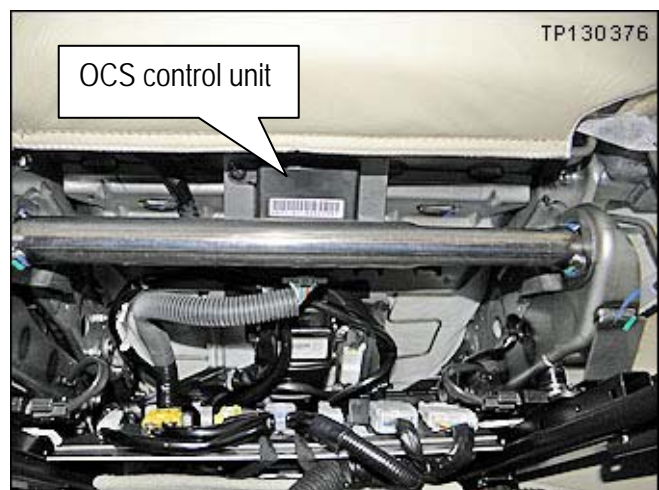6. Go to Reset Vehicle Settings on the next page.

TP130376

OCS control unit

Figure 2

Reset Vehicle Settings

1. Reset the clock in the combination meter.

2. Reset the radio settings.

3. **If equipped**; check/reset the clock in the navigation system.

4. **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.

5. Inform the customer:

   - **If equipped**; some memory settings in the navigation system may need to be reset.
   - **If equipped**; Automatic Drive Position (ADP) settings will need to be reset.

6. Reinitialize and check the Anti-Pinch Function for all <u>Auto-UP</u> power windows:

   <u>Reinitialize:</u>

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

   <u>Check Anti-Pinch Function</u>

   a. Operate the power window switch to fully open the window (glass all the way down).
   b. Hold a piece of wood near the fully closed position.
   c. Close the door window glass using the AUTO-UP switch. Allow the window glass to hit the wood.
   d. Check the following conditions:
      - Check that the glass lowers for approximately 150 mm (5.9 in), without pinching the wood, and stops.
      - Check that the glass does not rise when operating the power window main switch, while the widow is lowering after hitting the wood.

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

7. Perform <u>Zero Point Reset and check for DTCs</u>; next page.

Zero Point Reset / Check for DTCs

1. Attach 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. Open/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)**.
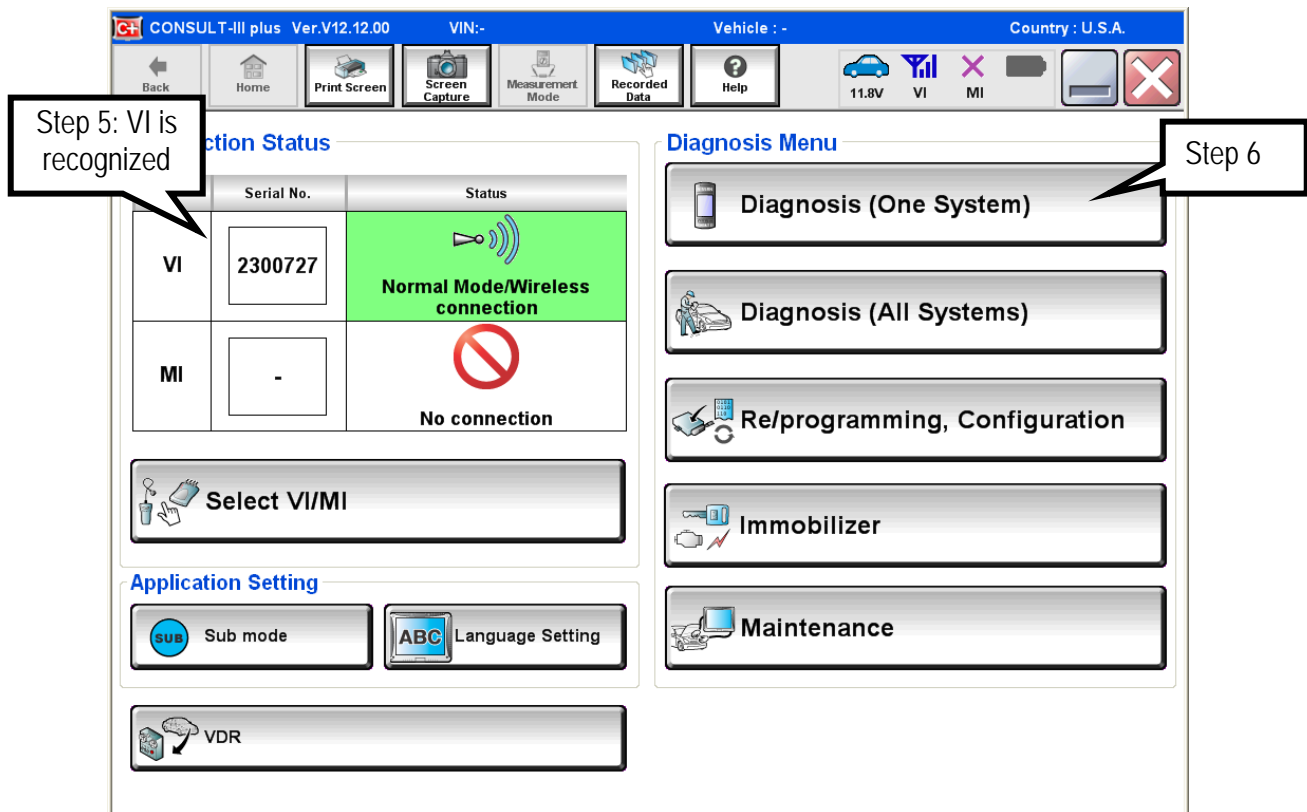
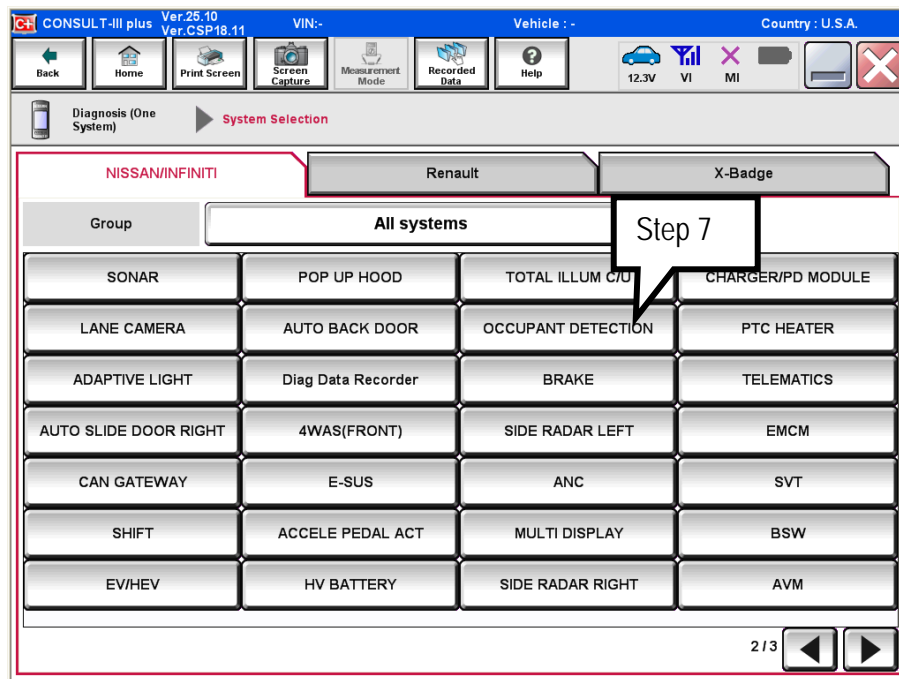Figure Z1

7. Select **OCCUPANT DETECTION**.

Figure Z2

8. Wait for System Call to complete.
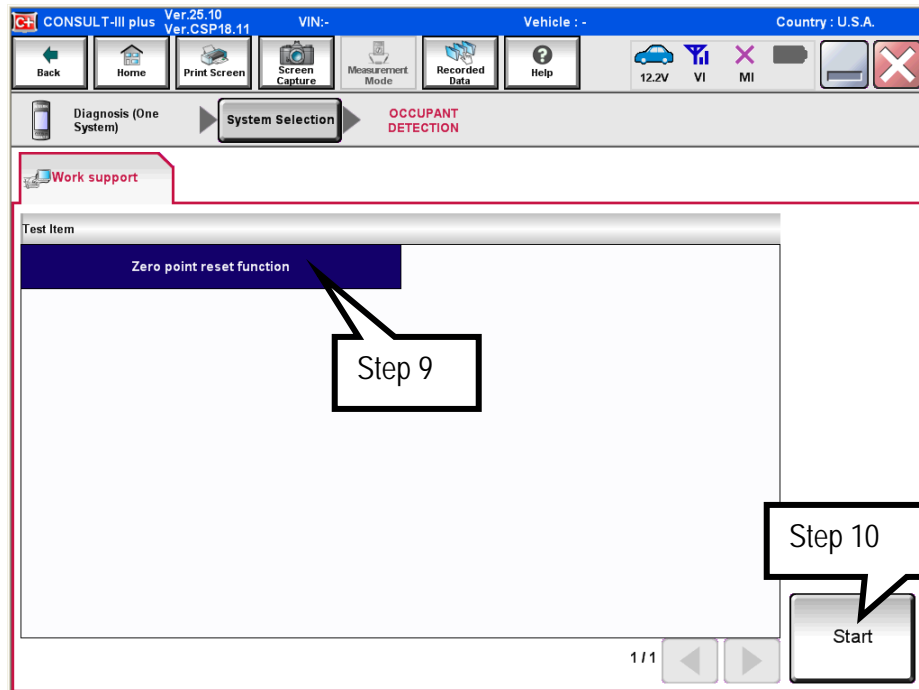
9. Select **Zero point reset function**.

10. Select **Start**.
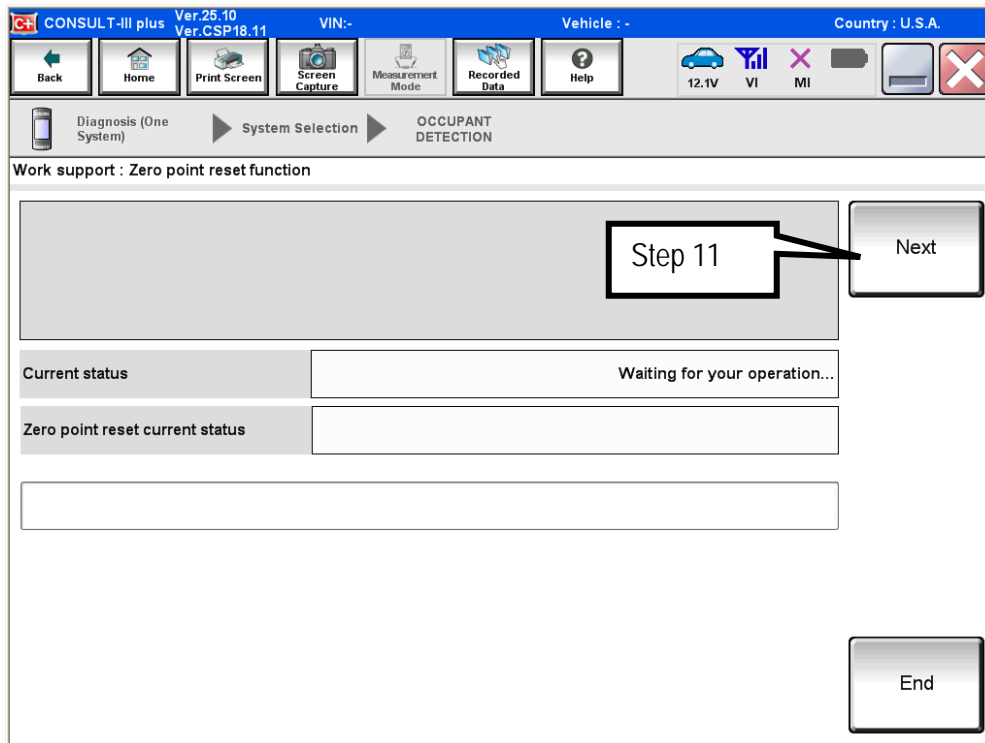

Figure Z3

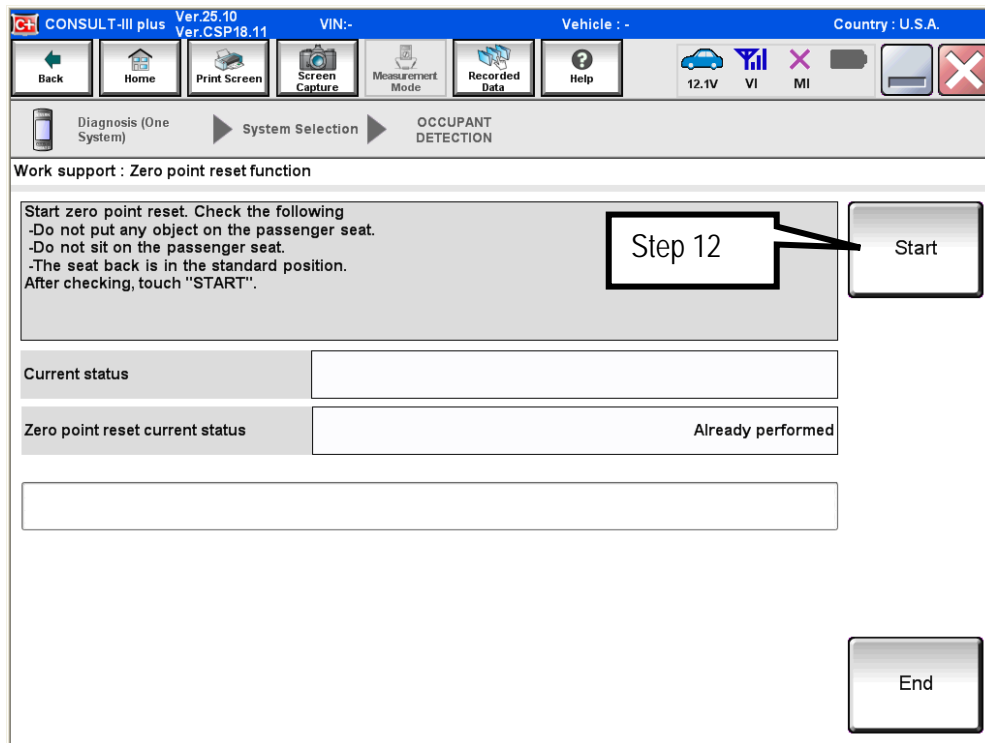11. Select **Next**.

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"

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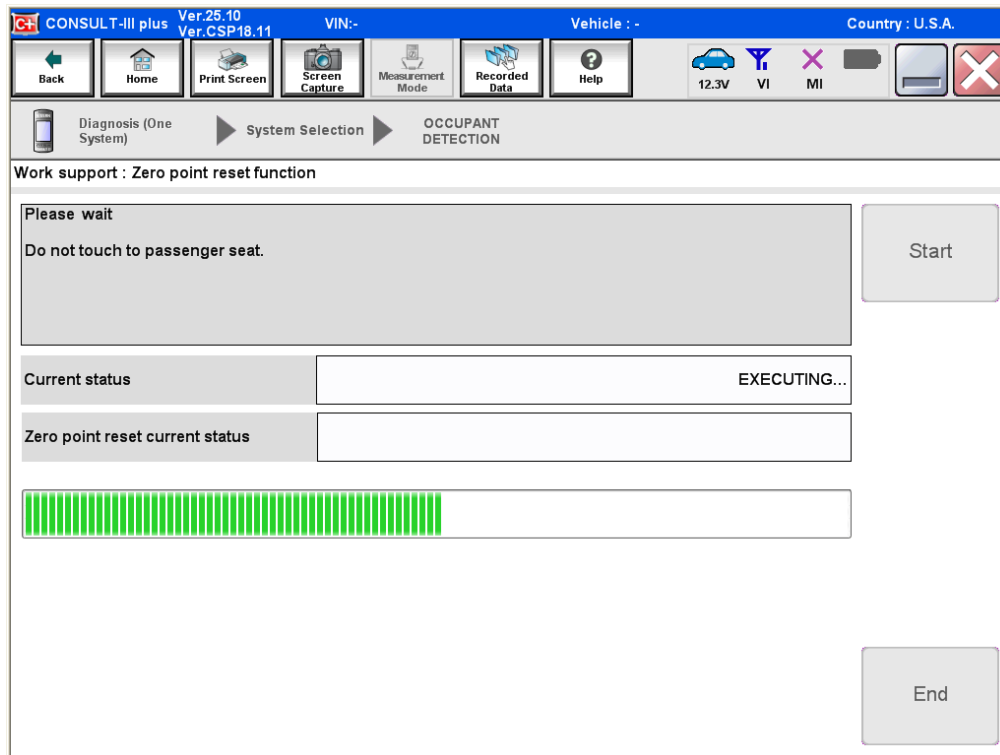13. Wait for Zero Point Function to complete.

Figure Z6

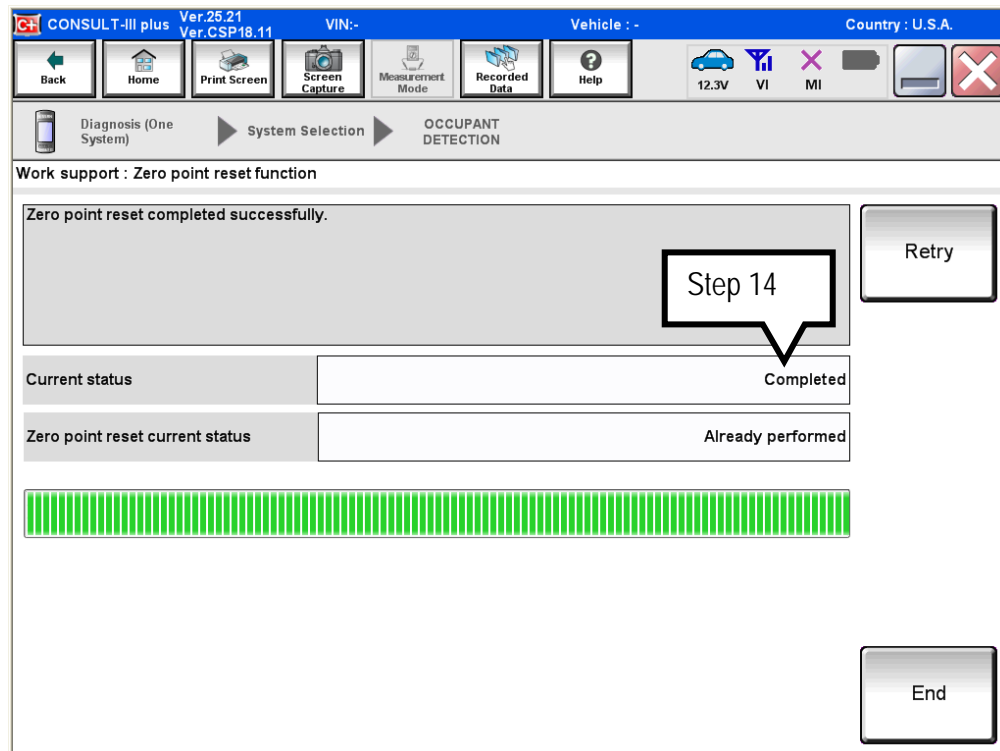14. Make sure that "Current status" is **Completed**.

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

    - If there are <u>no Air Bag DTCs stored</u>; go to the next step.

    - If there are <u>Air Bag DTCs stored</u>; refer to ASIST and the Service Manual for additional diagnostic and repair information. Stored DTCs are not covered by this bulletin.

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 bulletin. Refer to ASIST and the appropriate Service Manual for additional diagnostic and repair information.