RECALL CAMPAIGN BULLETIN

Reference:	Date:
NTB16-053b	July 15, 2016

VOLUNTARY SAFETY RECALL CAMPAIGN
2013-2016 SENTRA
OCCUPANT CLASSIFICATION SYSTEM REPROGRAMMING
SEATBELT BUCKLE BRACKET INSTALLATION

This bulletin has been amended. An alternate method of performing the reprogramming procedures in this bulletin has been added. No other changes have been made. Please discard all previous versions of this bulletin.

CAMPAIGN ID #: R1608

NHTSA #: 16V-242

APPLIED VEHICLE: 2013-2016 Sentra (B17)

Check Service COMM to confirm campaign eligibility.

INTRODUCTION

Nissan is conducting a Voluntary Safety Recall Campaign on certain specific Nissan Vehicles, listed in APPLIED VEHICLES above, to install a seatbelt buckle bracket and reprogram the Airbag Diagnostic Sensor Unit and Occupant Classification System (OCS) control unit. This service will be performed at no cost to the customer for parts or labor.

IDENTIFICATION NUMBER

Nissan has assigned identification number R1608 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 recall 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.

CAMPAIGN INFORMATION

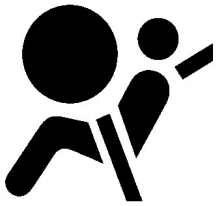
Front Passenger Air Bag Status Light

Performing the procedures in the bulletin (campaign R1608) changes the operation of the passenger air bag status light.

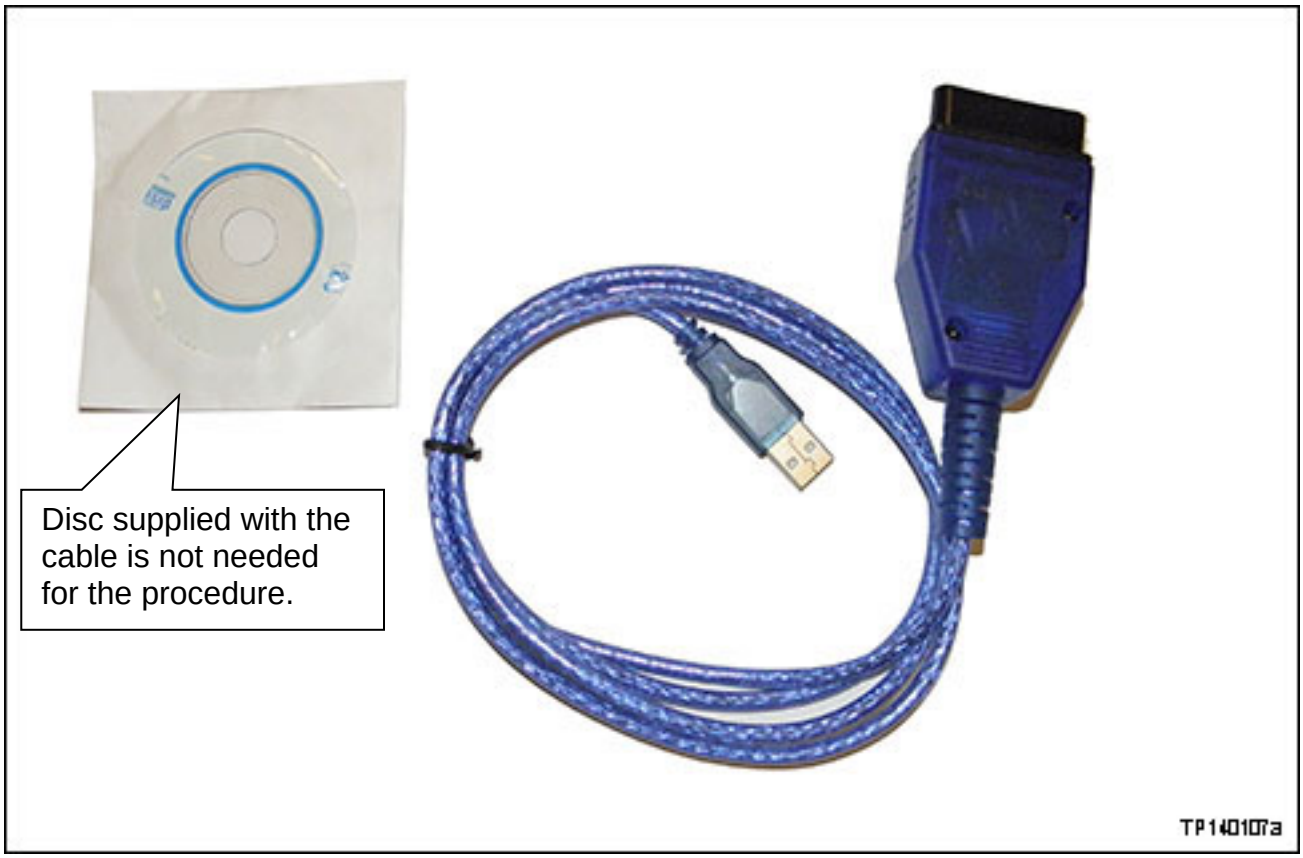
- After performing this campaign, the passenger air bag status light will be ON (illuminated) when the front passenger seat is empty.

Air Bag Warning Light

This campaign does not change the operation of the air bag warning light.

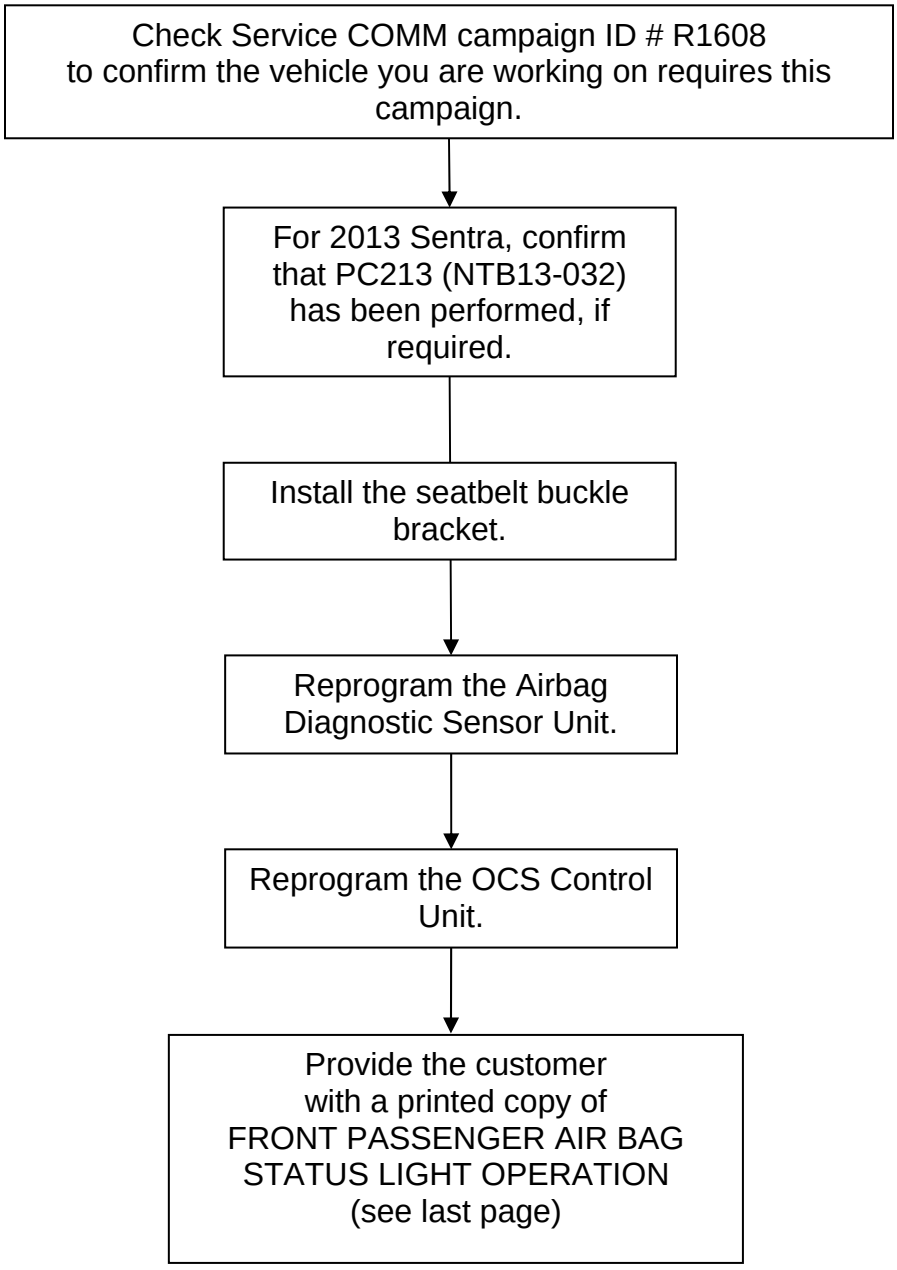


REQUIRED SPECIAL TOOL J-51594 (OCS Reprogramming Cable)



- One J-51594 OCS reprogramming cable has been supplied to each dealer. Additional cables can be obtained from Tech-Mate at 1-800-662-2001.

REPAIR OVERVIEW



NOTE:

- The Service Procedure in this bulletin uses CONSULT-III plus to reprogram the Airbag Diagnostic Sensor Unit and the Occupant Classification System (OCS) control unit.
- For an alternate reprogramming method, refer to **ALTERNATIVE METHOD TO PERFORM REPROGRAMMING** starting on page 22 of this bulletin. This alternate procedure allows the reprograming in this bulletin using BOSCH MTS 6513 Special Tool.

SERVICE PROCEDURE

Seatbelt Buckle Bracket Installation

1. Tilt both the driver's and passenger seats all the way forward, and then move both seats as far forward as possible.

Figure 1

2. Unbolt the passenger seat from the floorboard.
   - Remove the rear bolts first and then the front.
   - Four T50 Torx bolts; two front and two rear.
   - Rear bolts shown in Figure 2. Front bolts not shown.

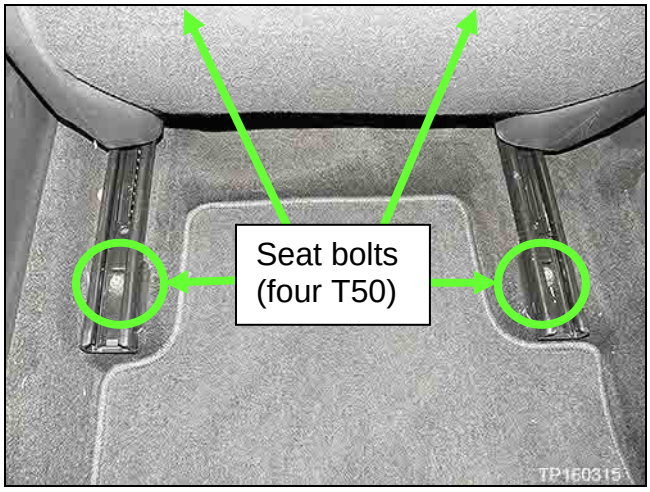


Figure 2

3. Tilt the passenger seat rearward so that the harnesses underneath can be accessed.

4. Unclip the harness from the seat bottom at the two locations shown in Figure 3.

   IMPORTANT: Do not disconnect any of the harness connectors under the seat.

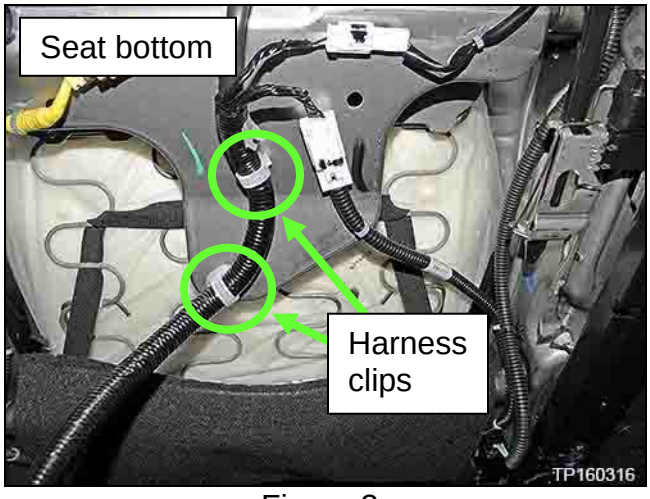


Figure 3

5. Return the seat to an upright position (seat rails flat on floor).

6. Gently slide the seat all the way to the rear so that the seatbelt buckle bolt can be reached.

7. Remove the seatbelt buckle bolt.

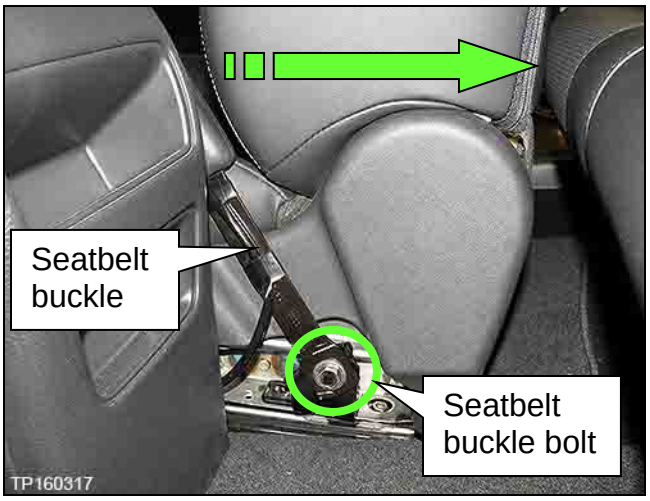


Figure 4

8. Remove the seat cushion outer finisher (LH) with an appropriate tool.

Figure 5

9. Remove the seatback bolt shown in Figure 6.

   NOTE: This bolt <u>will not</u> be reused.

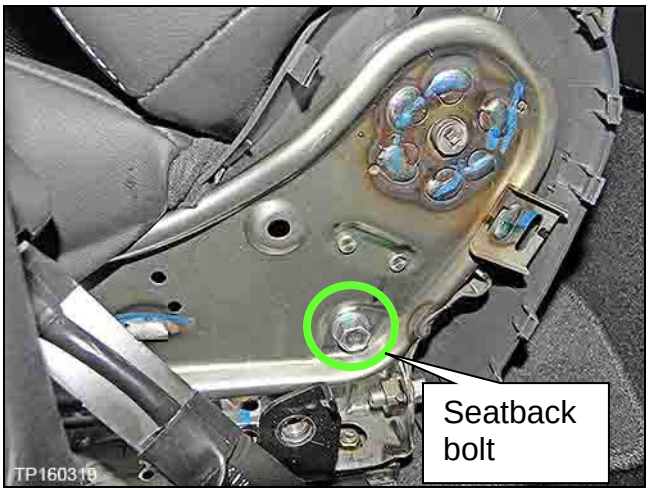


Figure 6

10. Remove the seatbelt buckle bolt retaining clip and bolt spacer from the seatbelt buckle.

    - Discard the bolt retaining clip and bolt spacer.

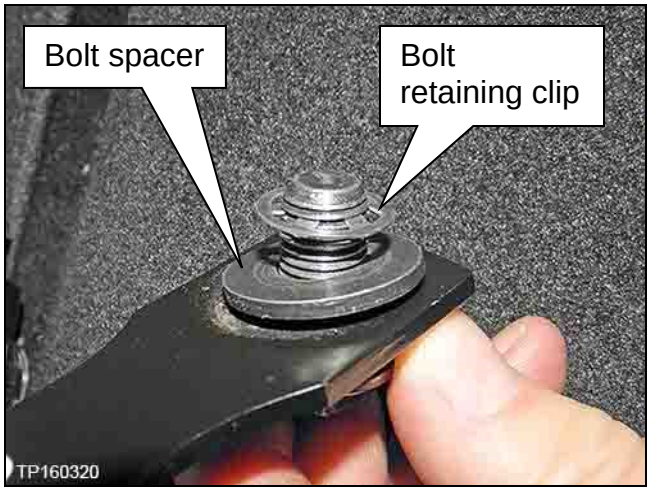


Figure 7

11. Install the seatbelt buckle bracket onto the backside of the seatbelt buckle as shown in Figure 8.

    - Confirm that wave washer is between seatbelt buckle and bolt where shown in Figure 8.
    - Position bracket notch as shown in Figure 9.

Figure 8

12. Attach the seatbelt buckle to the seat, but <u>do not</u> tighten.

    IMPORTANT: Start the seat belt buckle bolt by hand.

13. Place the spacer between the seatbelt bracket and the seatback and then install the new seatback bolt.

    IMPORTANT: Start the seatback bolt by hand.

14. Torque the seatback bolt; seat belt buckle bolt will be tightened later in the procedure.

    - Seat back bolt torque: 46.5 N•m (4.74 Kg-m, 34 **ft-lb**.)

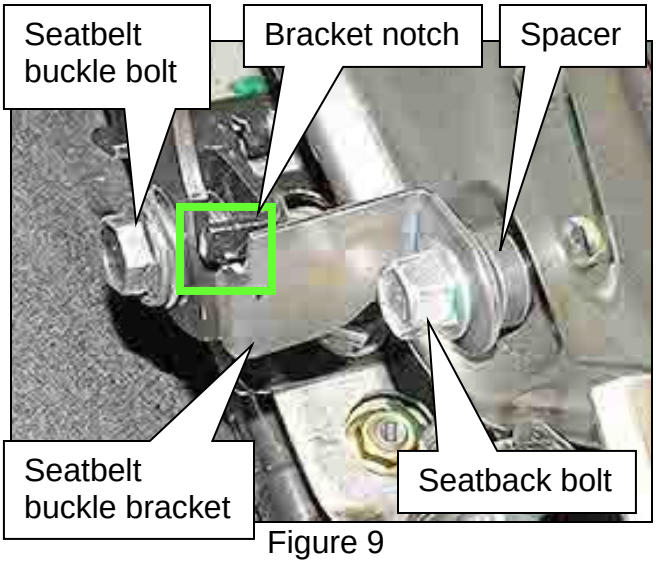


Figure 9

15. Slide the seat cushion outer finisher (LH) past the loose seatbelt buckle and then snap it into place.

    NOTE: Align and attach the forward metal clip of the seat cushion outer finisher (LH) first (Figure 11), and then the remaining plastic clips.

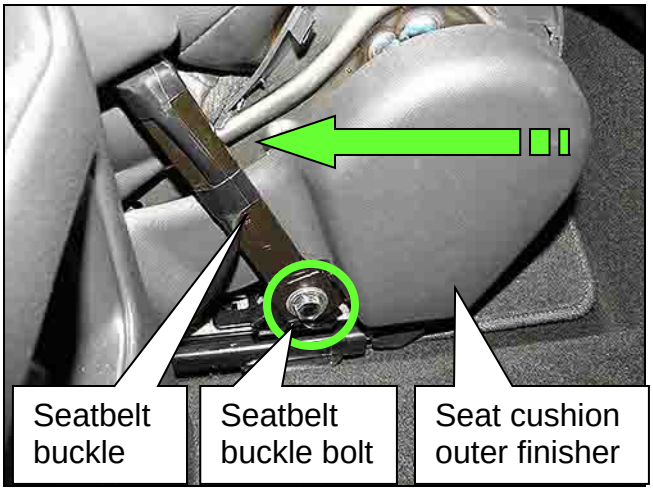


Figure 10

16. Torque the seatbelt buckle bolt (Figure 10).

    - Bolt torque: 49 N•m (5.0 Kg-m, 36 **ft-lb**.)

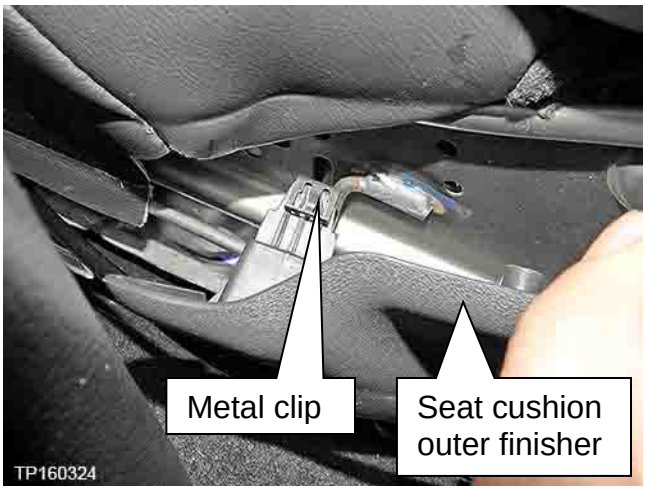


Figure 11

17. Reattach harnesses unclipped in step 4.

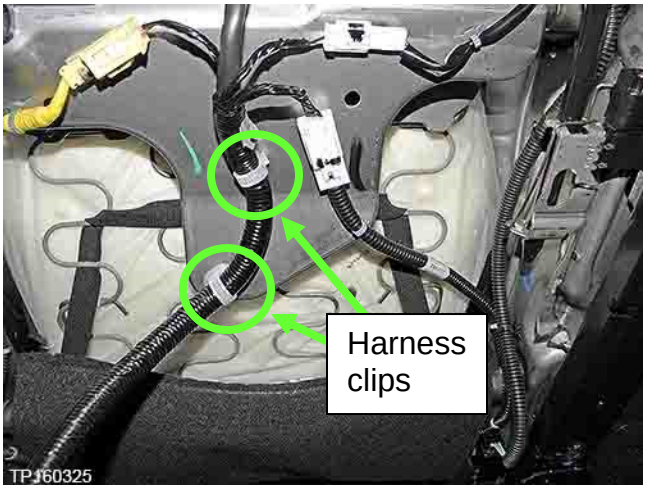


Figure 12

18. Gently move the passenger seat into its original position.
    - Align the guide pin on the left rear corner of the seat track (Figure 13) and insert into guide pin hole.

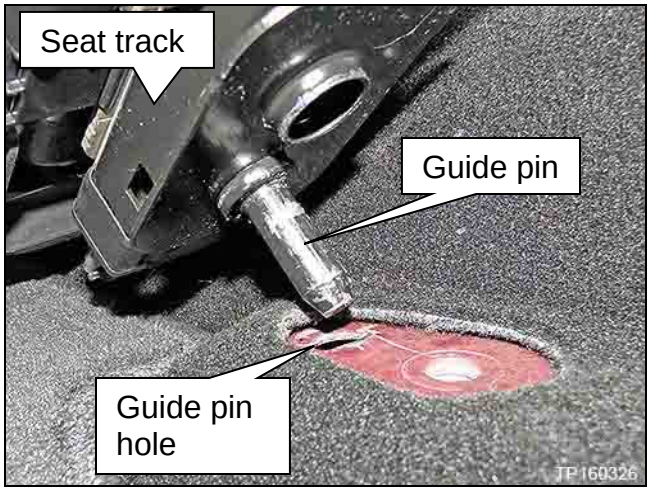


Figure 13

19. Install all four Torx seat track bolts and torque them in the pattern shown in Figure 14.
    - Bolt torque: 40 N•m (4.1 Kg-m, **30 ft-lb**.)

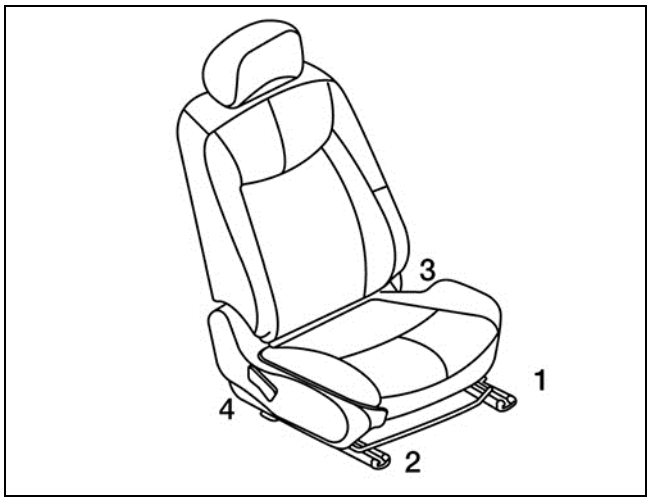


Figure 14

20. Slide the front passenger seat completely forward and completely rearward a few times to confirm it is operating correctly.

21. Return both front seats to their original positions.

Airbag Diagnostic Sensor Unit Reprogram

CAUTION:

- Connect the GR8 to the 12V battery and select ECM Power Supply Mode. If the vehicle battery voltage goes below 12.0V or above 15.5V during reprogramming, the Airbag Diagnostic Sensor Unit (ADSU) may be damaged.
- Be sure to turn OFF all vehicle electrical loads. If a vehicle electrical load remains ON, the ADSU may be damaged.
- Be sure to connect the AC Adapter. If the CONSULT PC battery voltage drops during reprogramming, the process will be interrupted and the ADSU may be damaged.

1. **Make sure ASIST has been synchronized to the current date and all updates have been installed.**

   NOTE: The PC automatically gets applicable reprogramming software during ASIST synchronization.

2. Open the vehicle hood, connect GR8 and set to ECM Power Supply Mode.
3. Turn the ignition ON (engine OFF / not Ready).
4. Turn hazards ON.
5. Connect the CONSULT-III plus VI (C-III plus VI) to the vehicle.
6. Connect the VI to the CONSULT PC with a USB cable.
7. Start the CONSULT PC, open ASIST and then select "**R1608 & R1609 ACU Reprogram**" on ASIST under Specialty Tools (Figure 15).

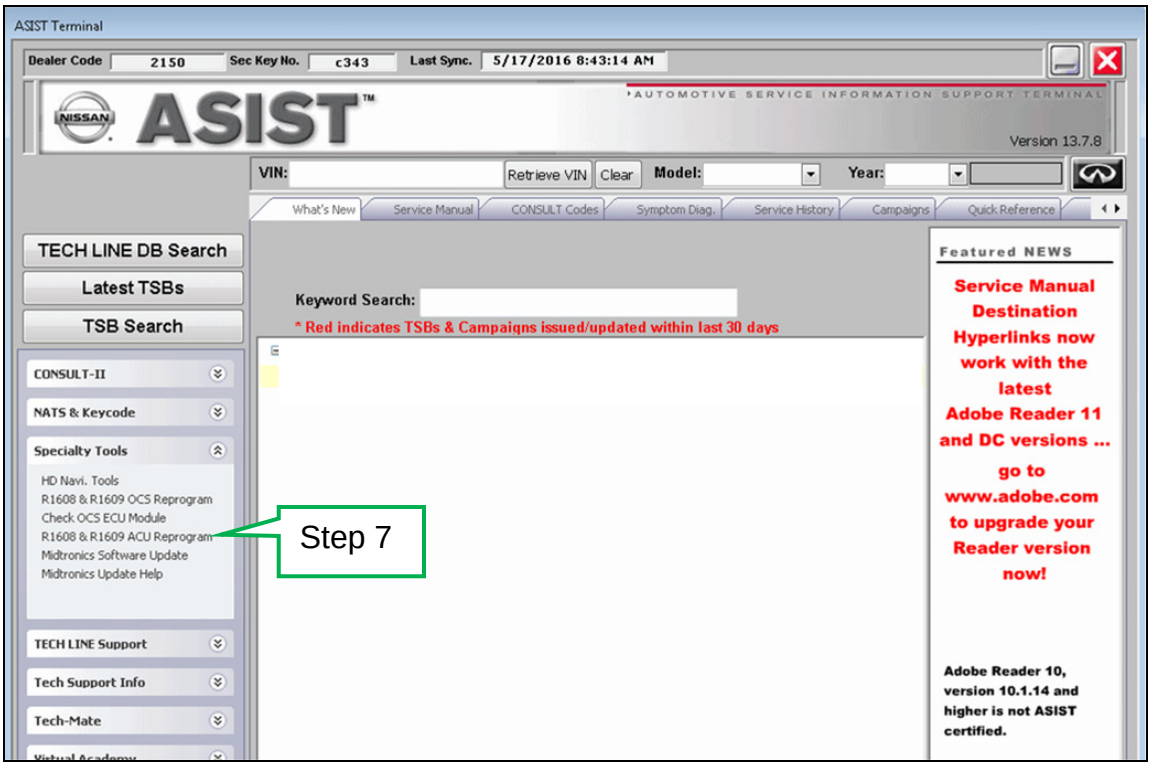


Figure 15

8. Read the on screen **CAUTION** statement before proceeding.

9. Select **Accept**.

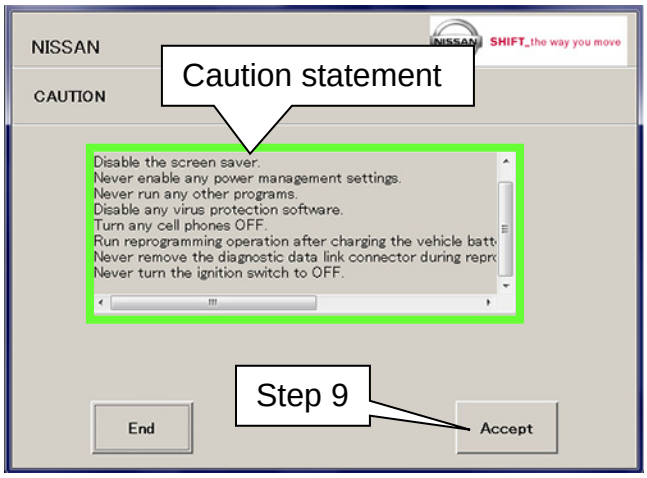


Figure 16

10. Select VI-2 from the drop down list and then **Next**.

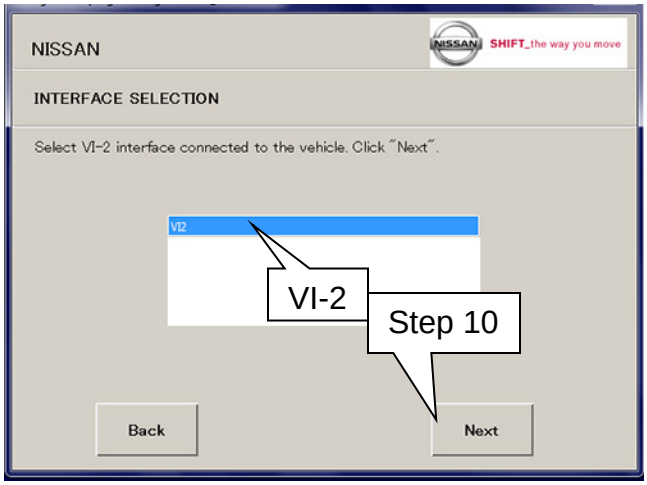


Figure 17

11. Select **Reprogramming**.

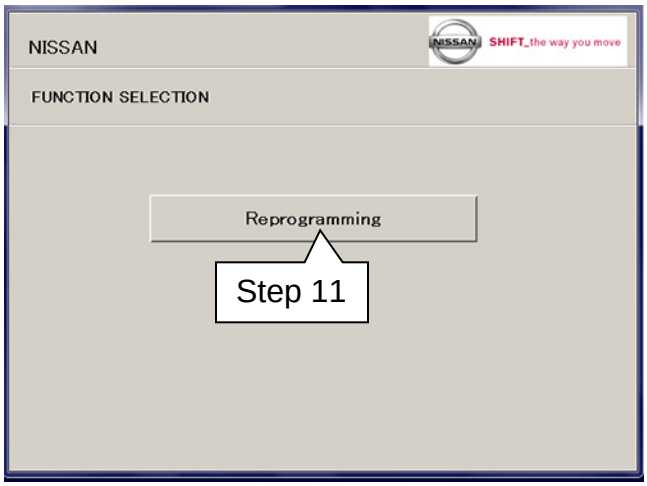


Figure 18

12. Select **AIRBAG**.

Figure 19

13. Is the screen in Figure 20 displayed?

    NO: Proceed to step 14.

    YES:

    a. Select **End** and discontinue airbag reprogramming.

    b. Proceed to **OCS Control Unit Reprogram**.

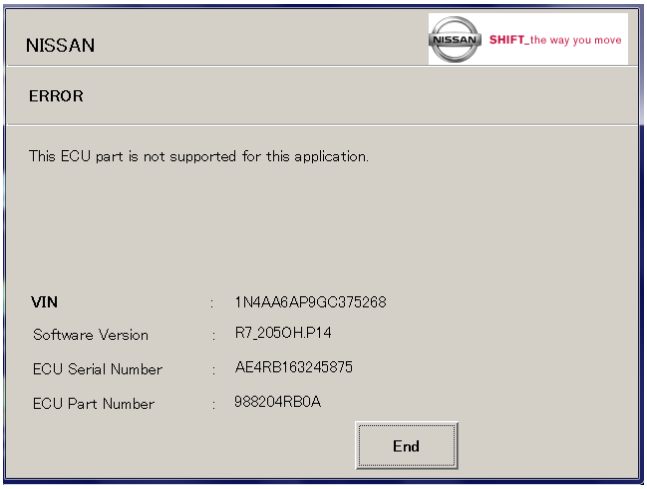


Figure 20

14. Confirm that the Battery Voltage is between 12.0V and 15.5V.

    - If the Battery Voltage is not between12.0V and 15.5V, resolve before proceeding.

15. Select **Start.**

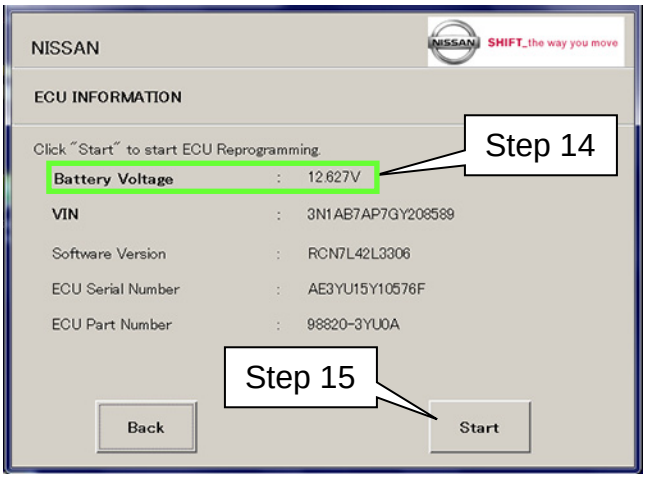


Figure 21

- **REPROGRAMMING PROGRESS** screen will be displayed (Figure 22).
- Reprogram will take approximately 3 minutes.
- Once the reprogramming has finished the screen in Figure 23 will be displayed.
- **WARNING:** Airbag control unit damage may occur if reprogramming is interrupted.

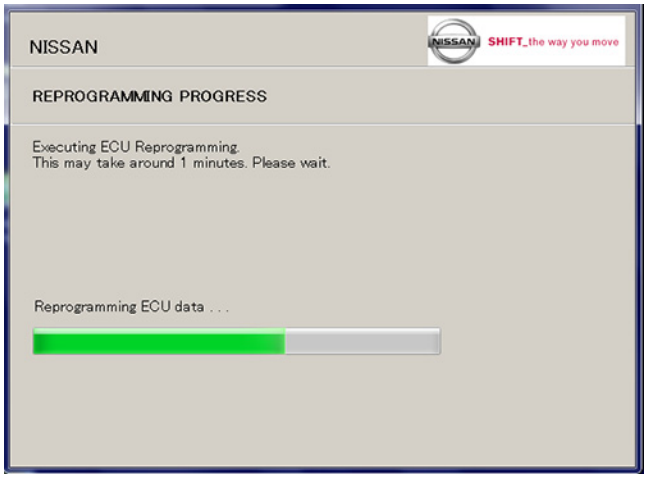


Figure 22

16. Confirm that the “Software Version(Before)” and “Software Version(After)” are different.

17. Select **End**.

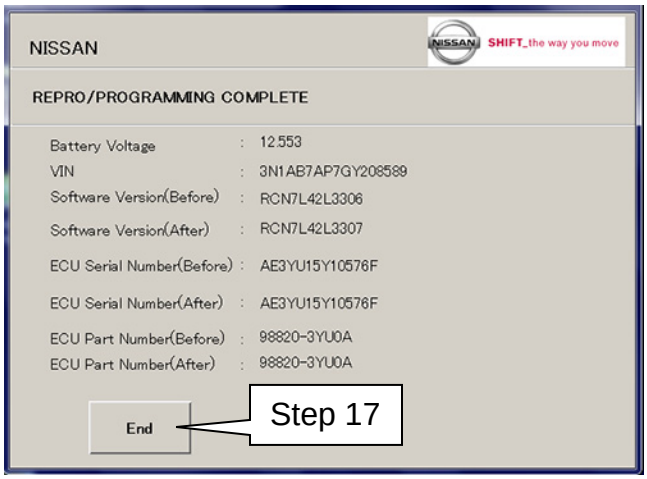


Figure 23

18. Save the confirmation page, print and attach it to the repair order.

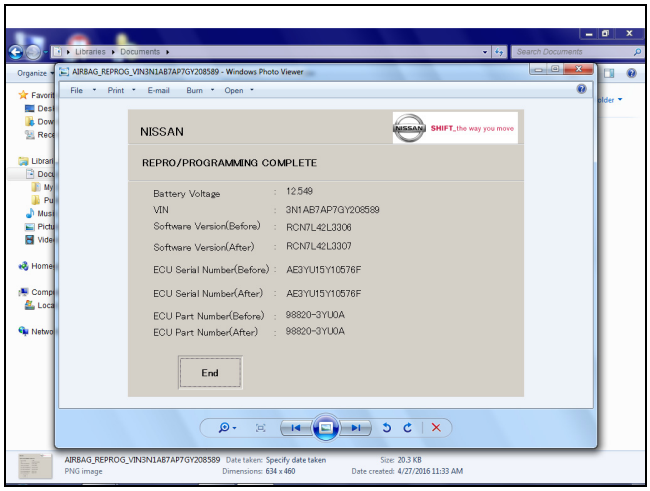


Figure 24

Leave the ignition ON and proceed to **OCS Control Unit Reprogram** on the next page.

OCS Control Unit Reprogram

IMPORTANT: Seatbelt buckle bracket MUST be installed before OCS Control Unit Reprogramming is performed.

NOTE: In this Service Procedure, OCS is sometimes referred to as ODS.

1. Install the driver for the J-51594 OCS reprogramming cable as follows:
   a. Keep the PC connected to the internet.
   b. Connect the J-51594 OCS reprogramming cable to the PC USB port.
   c. Wait 1 minute, the drivers will install automatically.

   NOTE: Step 1 above is only required the first time this procedure is performed. It is recommended that it be performed at the beginning of each day to confirm you have the latest software installed in your PC.

2. Turn the ignition ON, engine OFF / not Ready (if not still ON) and turn ON the hazard warning flasher lights (if not still ON).

3. Connect the J-51594 OCS reprogramming cable:
   - Connect to the vehicle's DLC connector and the PC USB port.
   - Make sure the cable is securely connected at both ends.

4. Prepare the vehicle for OCS Reprogramming as follows:
   - **Level the vehicle**
   - **No objects on the passenger seat.**
   - **No occupants in the vehicle – including the servicing technician.**
   - PC is outside of the vehicle on a suitable support.
     - Do not set the PC on the vehicle.
   - Do not touch the vehicle during the OCS Reprogramming.
   - Minimize vibrations of the vehicle.

5. Open ASIST (if not already open).

6. Select "**R1608 & R1609 OCS Reprogram**" under Specialty Tools (Figure 25).

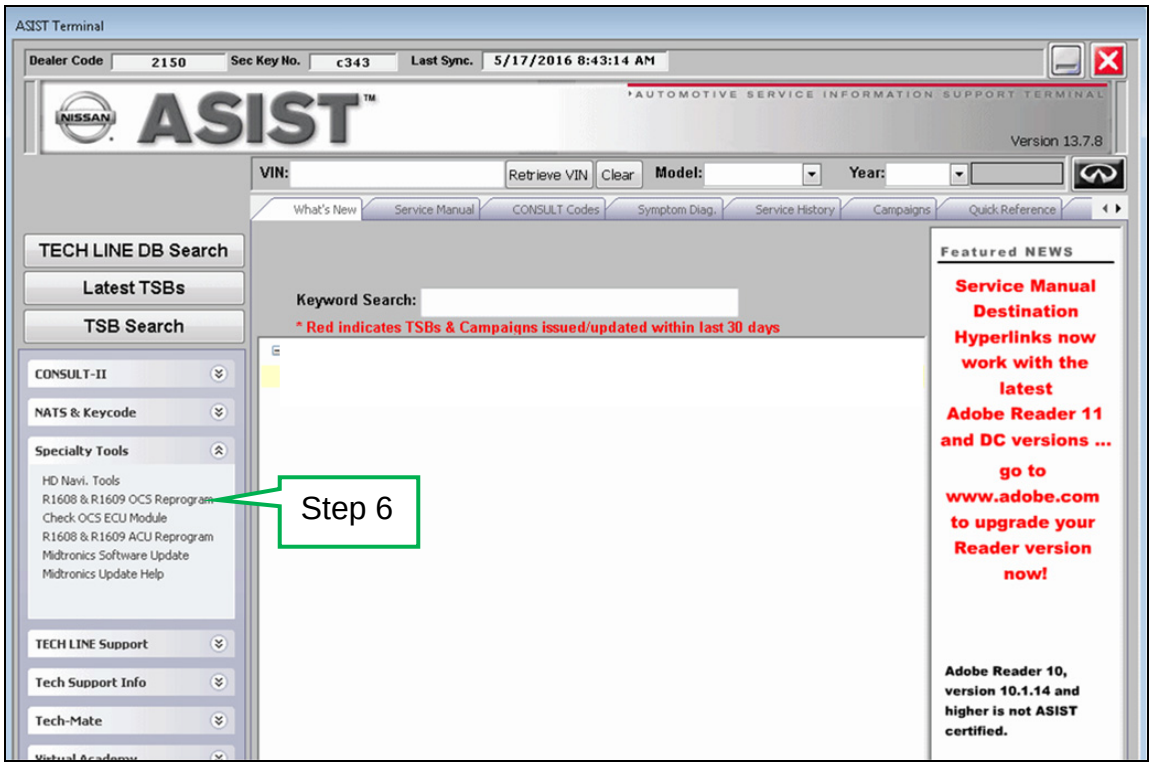


Figure 25

NOTE: If you get a black message screen as shown in Figure 26, this indicates that the reprogramming cable is not connected, or the cable driver did not install correctly.

a. Close ODS Repro.

b. Close ASIST.

c. Start over from step 1 on page 13.

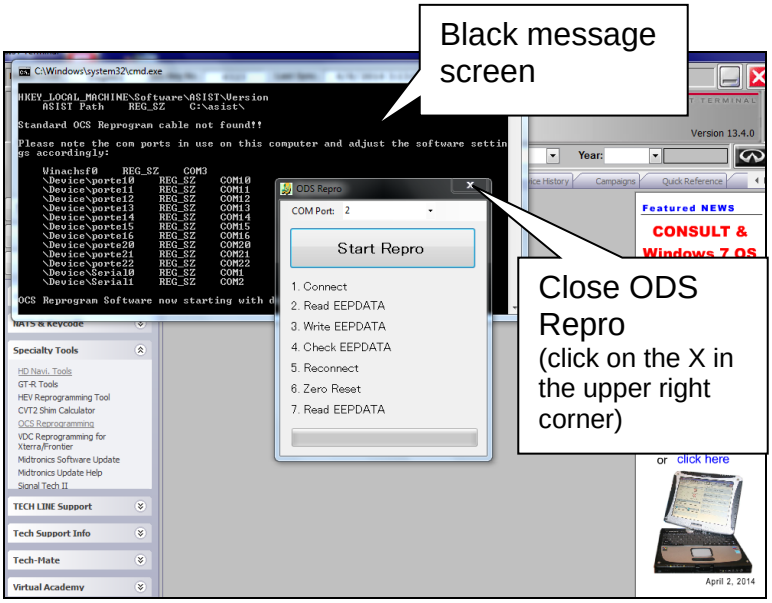


Figure 26

7. Select **Start Repro**.

   NOTE: If the error message “an error occurred on connection” displays:

   a. Disconnect the J-51594 OCS reprogramming cable, both ends.

   b. Reconnect the cable; make sure it is securely connected at both ends.

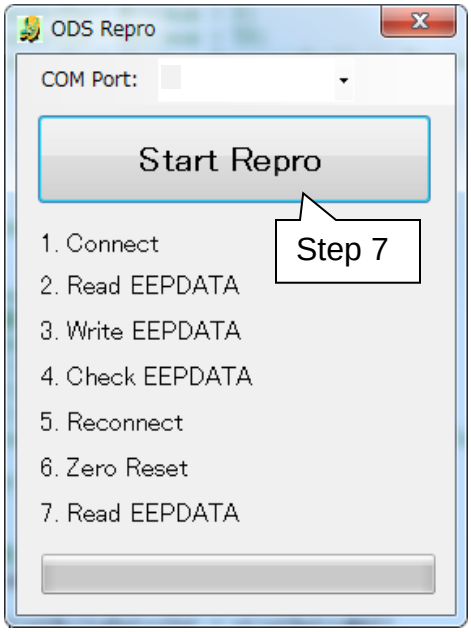


Figure 27

8. Turn the ignition ON (engine OFF).

9. Select **OK**.

   - **After selecting OK in Figure 28, the OCS reprogramming will start.**

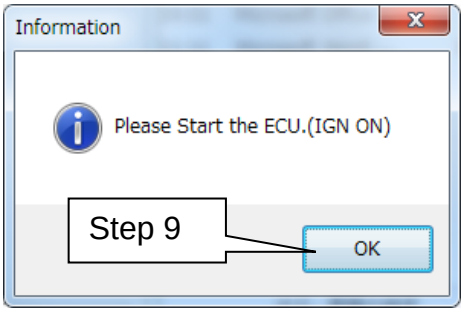


Figure 28

   - Items 1 through 4 (Figure 29) will likely complete quickly.

   - If the OCS reprogramming stops (displays NG) at item 1, 2, 3 or 4, refer to Figures 34 through 37 on pages 18 and 19.

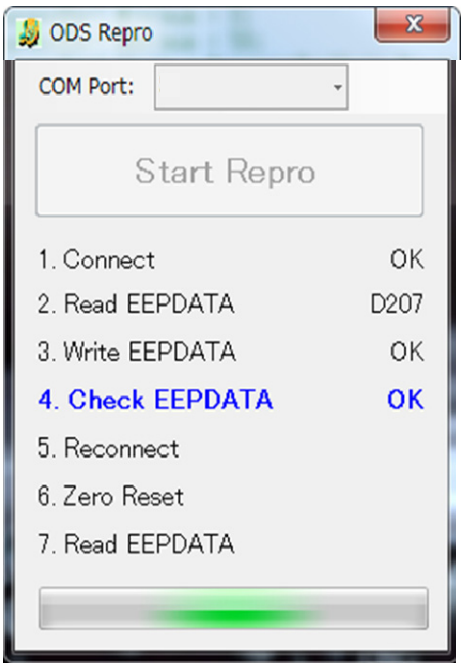


Figure 29

10. Cycle the ignition OFF > ON.

11. Select **OK**.

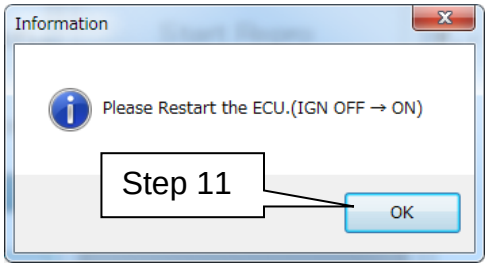


Figure 30

- After selecting OK in Figure 30, the OCS reprogramming will likely complete items 5 through 7 quickly (see “Complete” screen, Figure 32 below).

- If the OCS reprogramming stops (displays NG) at item 5, 6 or 7, refer to Figures 38 through 40 on pages 20 and 21.

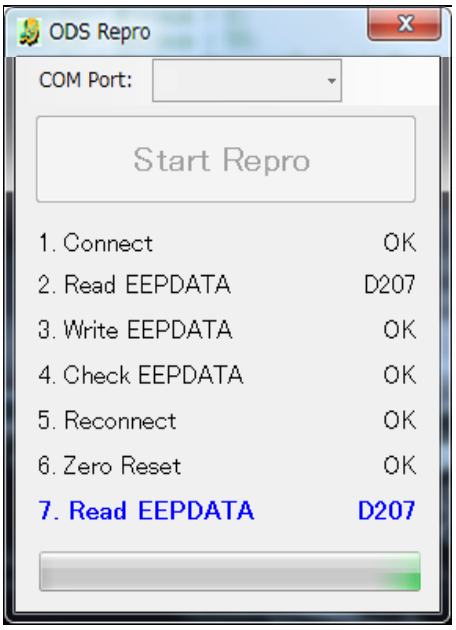


Figure 31

12 When this screen displays (Figure 32), OCS reprogramming is complete.

13. Select **OK**.

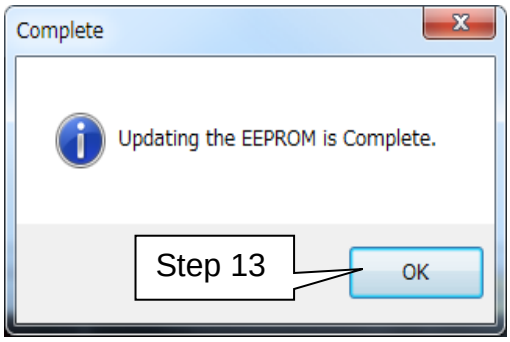


Figure 32

14. Close the program (click on the red X in the upper right corner).

15. Turn the ignition OFF.

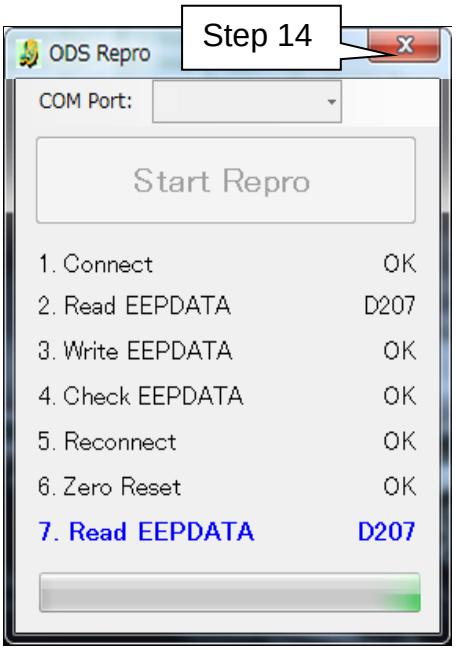


Figure 33

16. Disconnect the J-51594 OCS reprogramming cable.

17. Turn the ignition ON and observe the air bag warning light and the front passenger air bag status light:

- The air bag warning light should illuminate for 7 seconds and then go out.

- The front passenger airbag status light should illuminate for 7 seconds and then either stay illuminated or go out, depending on the occupation of the front passenger seat.

  NOTE: If the air bag warning light or the front passenger airbag status light does not operate as described above, there may be an issue not covered by this campaign. Refer to ASIST and the appropriate ESM for additional diagnostic and repair information.

OCS Reprogramming is Complete

NOTE:

- Zero Point Reset was included in the reprogramming – it is not necessary to perform as a separate step.
- Figures 34 through 40 on pages 18 through 21 are provided as reference if the OCS reprogramming stops (displays NG) at one of the items (1-7).

APPENDIX

- #1 - If Connect indicates NG:

  a. Click OK on the accompanying error message.

  b. Turn the ignition OFF.

  c. Close ODS Repro (click on the red X in the upper right corner).

  d. Restart from step 1 on page 13.

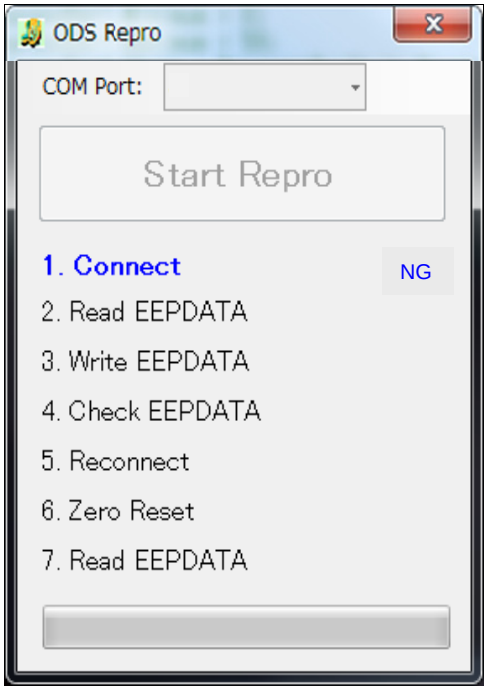


Figure 34

- #2 - If Read EEPDATA indicates NG:

  a. Click OK on the accompanying error message.

  b. Turn the ignition OFF.

  c. Close ODS Repro (click on the red X in the upper right corner).

  d. Restart from step 1 on page 13.

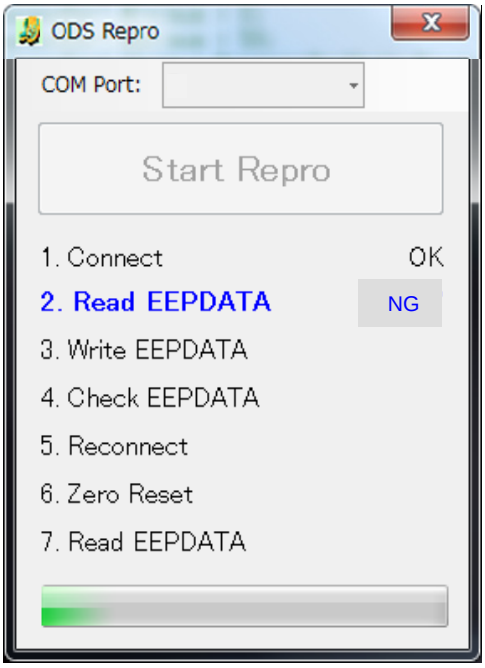


Figure 35

- #3 - If Write EEPDATA indicates NG:

  a. Click OK on the accompanying error message.

  b. Turn the ignition OFF.

  c. Close ODS Repro (click on the red X in the upper right corner).

  d. Restart from step 1 on page 13.

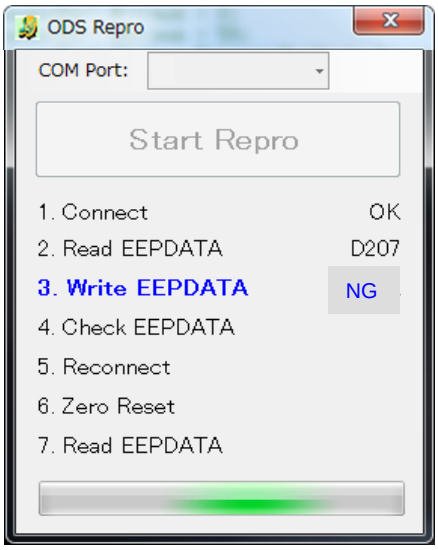


Figure 36

- #4 - If Check EEPDATA indicates NG:

  a. Click OK on the accompanying error message.

  b. Turn the ignition OFF.

  c. Close ODS Repro (click on the red X in the upper right corner).

  d. Restart from step 1 on page 13.

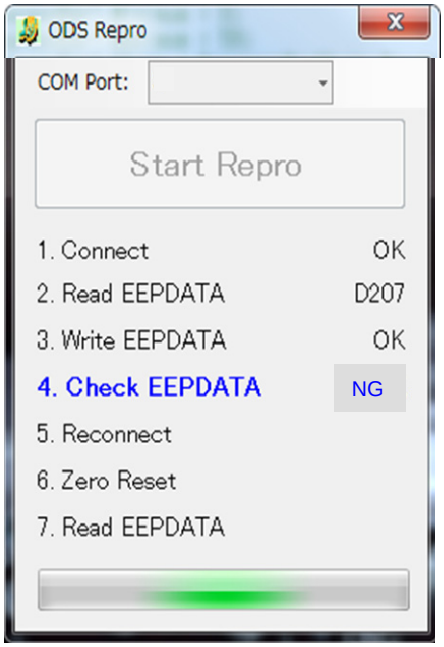


Figure 37

- #5 - If Reconnect indicates NG:

  a. Click OK on the accompanying error message.

  b. Turn the ignition OFF.

  c. Close ODS Repro (click on the red X in the upper right corner).

  d. Restart from step 1 on page 13.

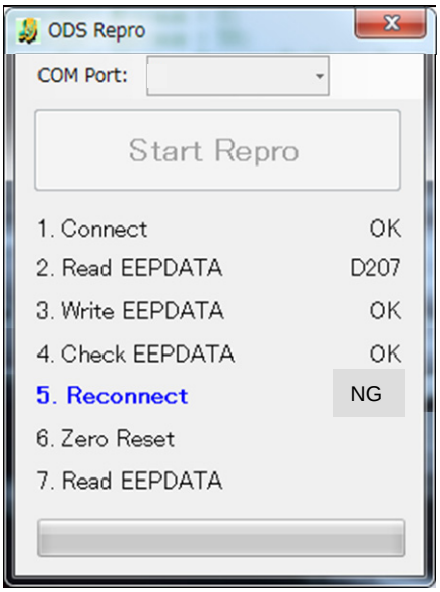


Figure 38

- #6 - If Zero Reset indicates NG:

  a. Click OK on the accompanying error message.

  b. Cycle the ignition OFF > ON.

     - If needed, retry ignition OFF > ON 5 times.

  c. If Zero Reset still indicates NG, close ODS Repro (click on the red X in the upper right corner), and restart from step 1 on page 13.

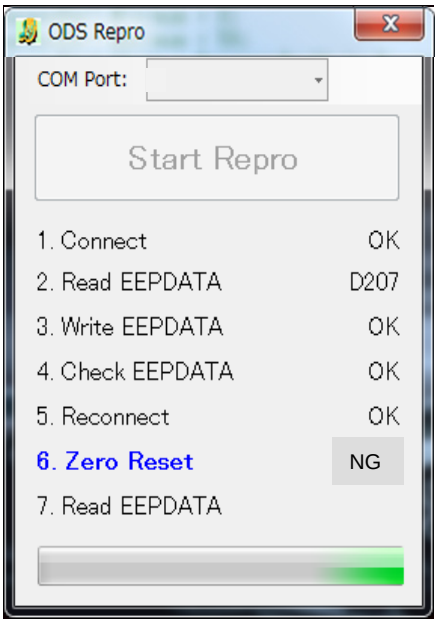


Figure 39

- #7 - If Read EEPDATA indicates NG:

  a. Click OK on the accompanying error message.

  b. Turn the ignition OFF.

  c. Close ODS Repro (click on the red X in the upper right corner).

  d. Restart from step 1 on page 13.

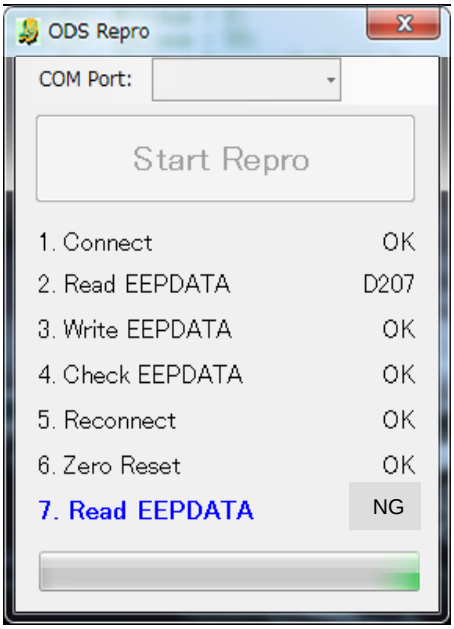


Figure 40

ALTERNATIVE METHOD TO PERFORM REPROGRAMMING FOR CAMPAIGN R1608.

NOTE:

- This procedure is an alternative method to perform reprogramming for campaign R1608.
- The primary reprograming method is using CONSULT-III plus.
- DO NOT perform the steps in the following pages if the procedures using CONSULT-III plus have already been performed.
- This method uses BOSCH MTS 6513.

REQUIRED SPECIAL TOOL – BOSCH MTS 6513

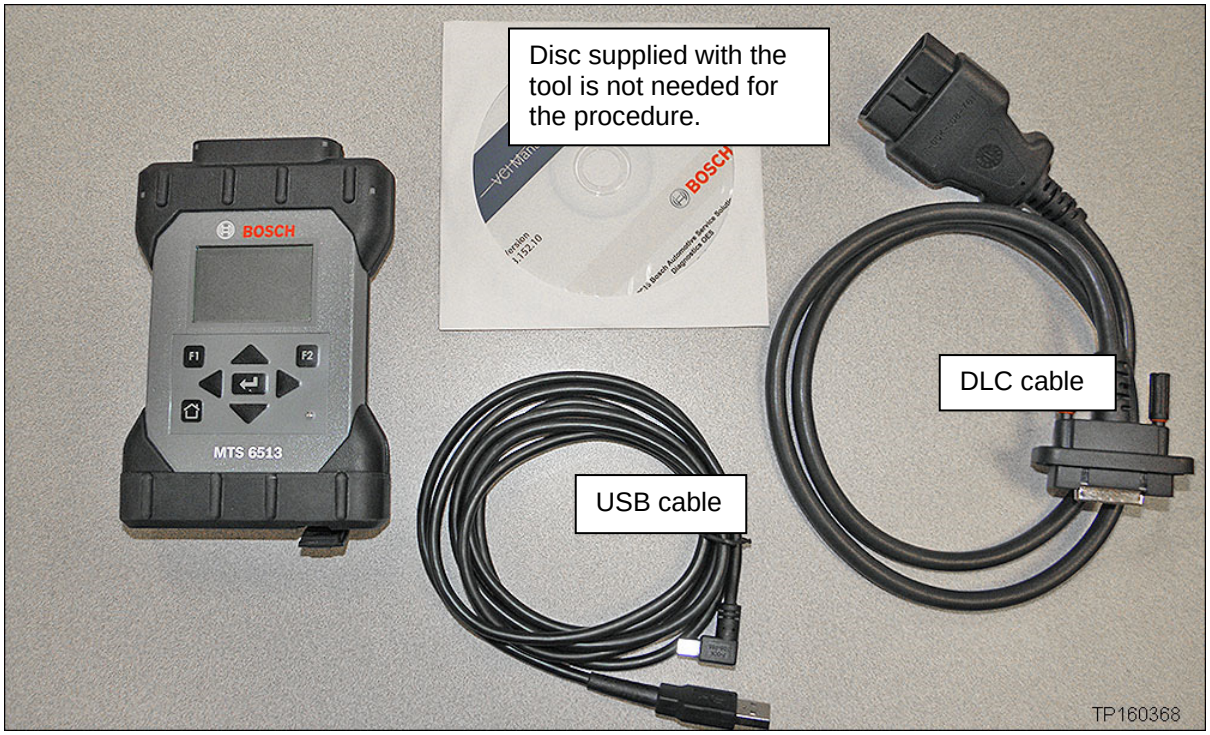


Figure A1

- One BOSCH MTS 6513 was shipped to each dealer. Additional tools can be obtained from Tech-Mate at 1-800-662-2001.

BOSCH MTS 6513
Airbag Diagnostic Sensor Unit Reprogram and OCS Control Unit Reprogram

NOTE: Screens on the BOSCH MTS 6513 indicate ACU. This stands for Airbag Control Unit, which is the same as Airbag Diagnostic Sensor Unit.

1. Open the engine hood and connect the GR8 to the 12V battery and set it to ECM power supply mode.

CAUTION:

- Connect the GR8 to the 12V battery and select ECM Power Supply Mode. If the vehicle battery voltage goes below 12.0V or above 15.5V during reprogramming, the control unit may be damaged.
- Be sure to turn OFF all vehicle electrical loads. If a vehicle electrical load remains ON, the control unit may be damaged.

2. Connect the BOSCH MTS 6513 to the vehicle Data Link Connector (DLC).

3. Wait for the BOSCH MTS 6513 to boot.
   - A beep will be heard.
   - A green light on the BOSCH MTS 6513 will indicate it is powered ON.
   - When boot-up is complete and the Start Screen (see Figure A2) is displayed, the BOSCH MTS 6513 is ready for reprogramming.

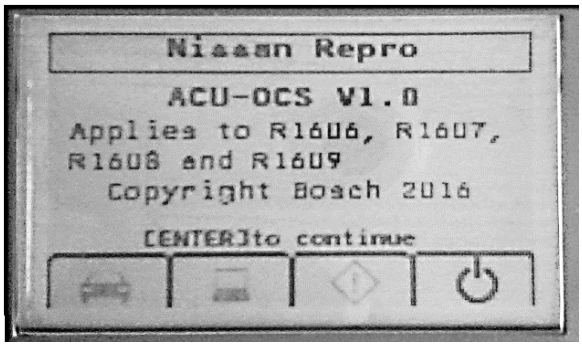


Figure A2

NOTE:

- If the screen in Figure A2 does not display, the correct software has not been loaded into the BOSCH MTS 6513.
- On screen instructions will help guide you through the reprogramming process.

4. Turn the hazards (4 way flashers) ON.

5. Select enter on the key pad.

   NOTE: During this procedure you will be asked several times to “select enter on the key pad”. Each time, use the key pad enter button shown in Figure A3.

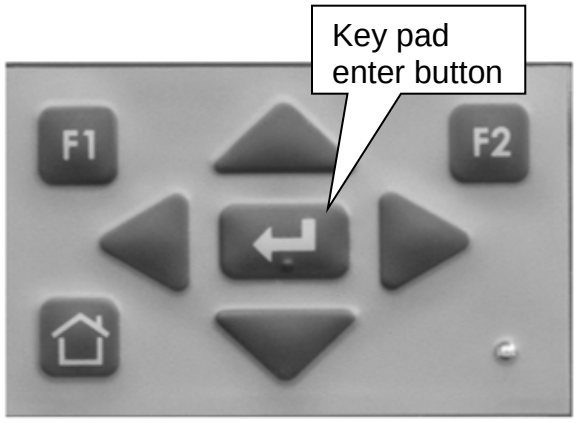


Figure A3

6. Turn the ignition ON (engine OFF / not Ready).

7. Select enter on the key pad.

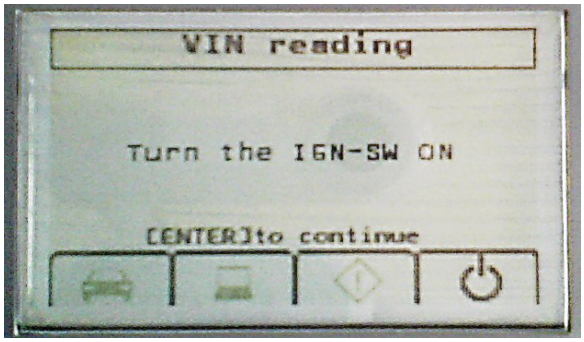


Figure A4

   NOTE: The VIN is read automatically.

8. Select enter on the key pad.

Figure A5

NOTE:

- System call will be perfromed.
- Progress bar will be displayed during system call.
- The screen in Figure A6 (next page) will dispay when system call is complete.
- If system call does not complete and the screen in Figrue A6 does not display, the vehicle may not apply to this campaign.

9. Select enter on the key pad.

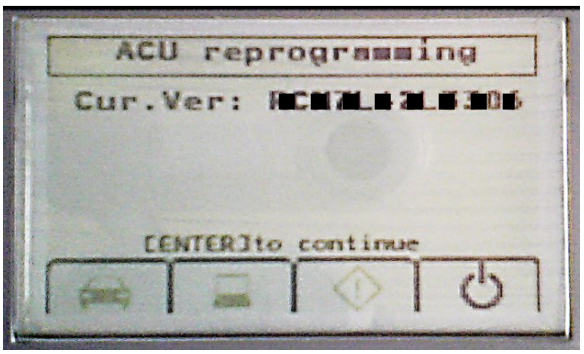


Figure A6

NOTE: (Airbag Diagnostic Sensor Unit Reprogram)

- The current version of the Airbag Diagnostic Sensor Unit software is read automatically to determine if it needs to be reprogrammed.
- If the Airbag Diagnostic Sensor Unit **<u>does not</u>** require reprogramming, the process will skip to OCS reprogramming (Figure A8 on the next page).
- **If reprogramming is required**, reprogramming will begin automatically. A progress bar will be displayed showing the percent complete, and the car icon will flash during the reprogramming process (see Figure A7).
- Approximate reporgram time is 3 to 5 minutes.

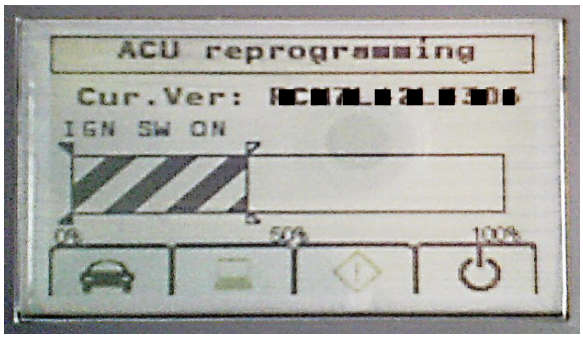


Figure A7

10. When reprogramming is complete, the screen in Figure A8 (next page) will display.

11. Select enter on the key pad.

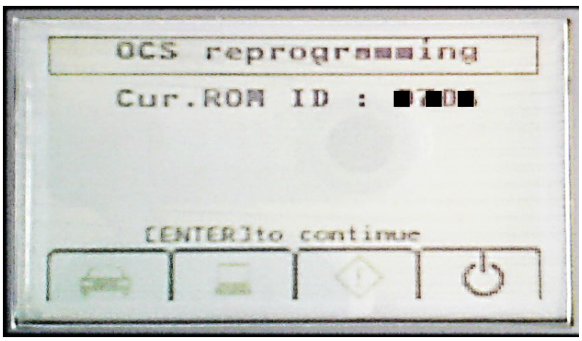


Figure A8

NOTE: (OCS Reprogram)

- The current version of the OCS software is read automatically.
- Reprogramming will begin automatically. A progress bar will be displayed showing the percent complete, and the car icon will flash during the reprogramming process (see Figure A9).

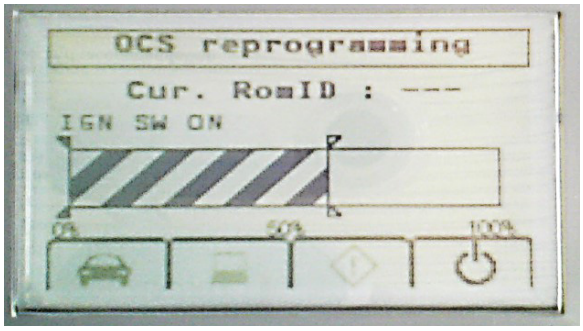


Figure A9

NOTE: During the OCS reprogramming you will be prompted to turn the ignition OFF, then back ON (see steps 12 through 15).

12. Turn the ignition OFF.

13. Select enter on the key pad.

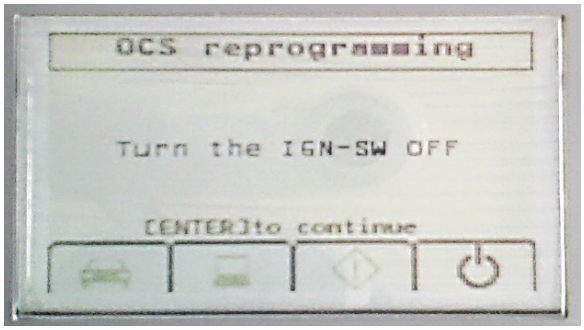


Figure A10

14. Turn the ignition ON (engine OFF / not Ready).

15. Select enter on the key pad.

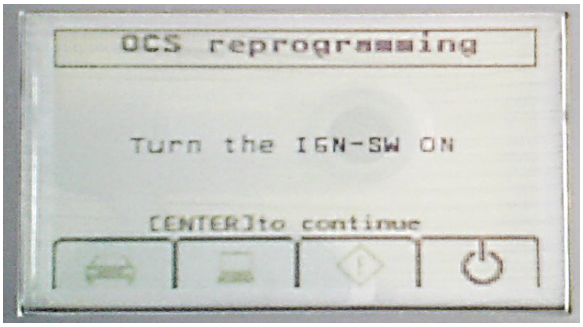


Figure A11

16. When reprogramming is complete, the screen in Figure A12 will display.

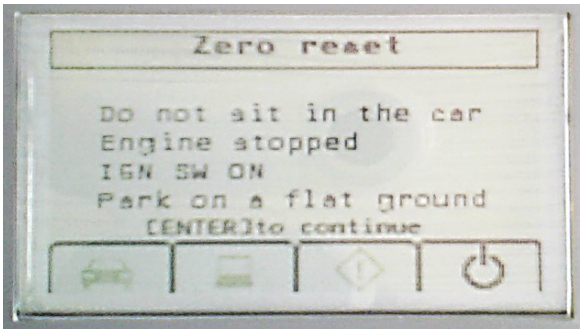


Figure A12

17. Prepare the vehicle for zero point reset as follows:
    - **Level the vehicle.**
    - **No objects on the passenger seat.**
    - **No occupants in the vehicle – including the servicing technici**an.
    - Do not touch the vehicle during the zero point reset.
    - Minimize vibrations of the vehicle.

18. Select enter on the key pad.

18. Turn the ignition OFF.

19. Select enter on the key pad.

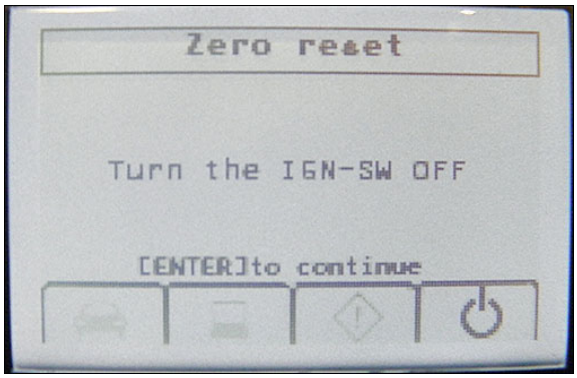


Figure A13

20. Turn the ignition ON (engine OFF / not Ready).

21. Select enter on the key pad.

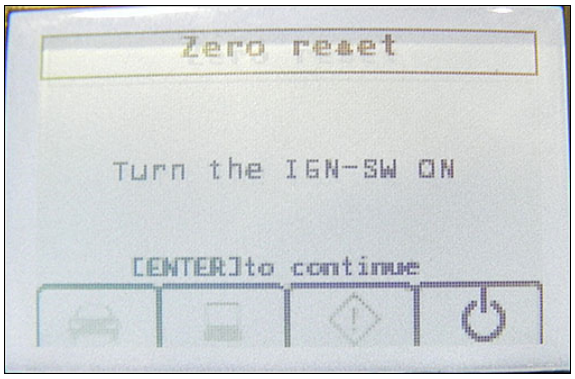


Figure A14

- The screen in Figure A15 will display while zero point reset is being performed.

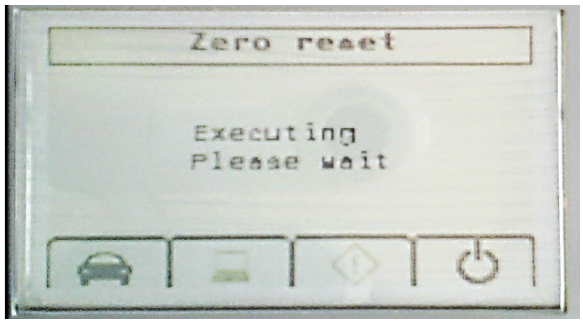


Figure A15

- The screen in Figure A16 will display when zero point reset is complete.

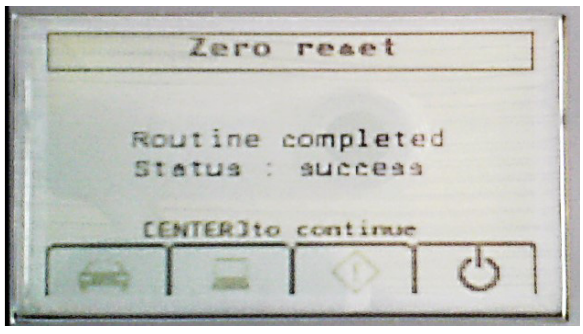


Figure A16

22. The reprogramming process is complete. Select the enter button on the key pad to display the result screens.

23. Turn the hazards (4-way flashers) OFF.

24. Turn the Ignition OFF.

25. Disconnect the BOSCH MTS 6513 from the vehicle DLC.

    IMPORTANT: Make sure the BOSCH MTS 6513 powers down (wait about 30 seconds) before connecting to another vehicle. This will confirm any saved vehicle information is erased.

26. Disconnect the GR8 from the vehicle 12V battery.

27. Turn the ignition ON and observe the air bag warning light and the front passenger air bag status light:

- The air bag warning light  should illuminate for 7 seconds and then go out.

- The front passenger airbag status light 

should illuminate for 7 seconds and then either stay illuminated or go out, depending on the occupation of the front passenger seat.

  NOTE: If the air bag warning light or the front passenger airbag status light does not operate as described above, there may be an issue not covered by this campaign. Refer to ASIST and the appropriate ESM for additional diagnostic and repair information.

Reprogramming is Complete

PARTS INFORMATION

DESCRIPTION	PART #	QUANTITY
Leg Assy-Front LH (Seatbelt Buckle Bracket Kit)	87110-9AN0A	1

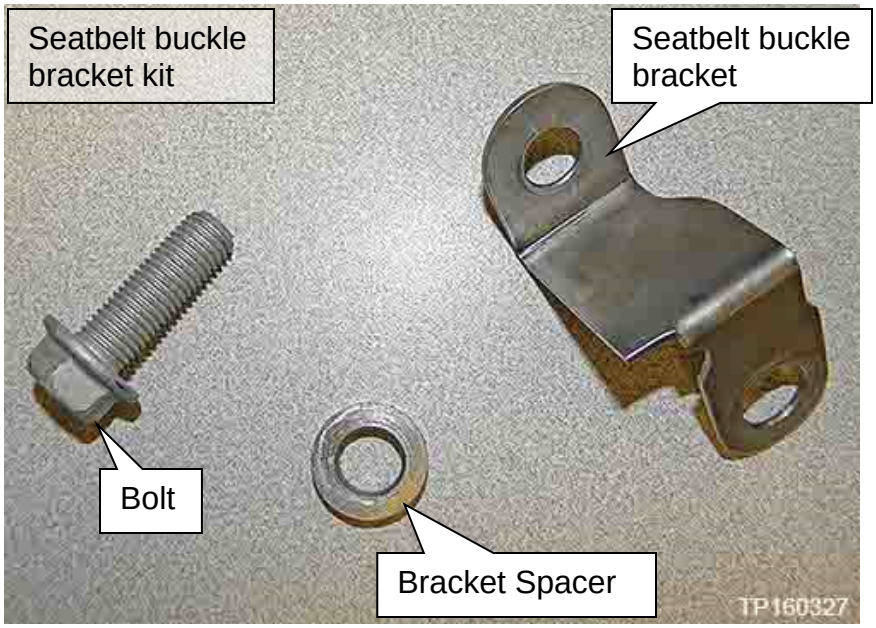


Figure B

CLAIMS INFORMATION

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

CAMPAIGN ("CM") ID	DESCRIPTION	OP CODE	FRT
R1608	Install Seatbelt Buckle Bracket and Reprogram	R16080	0.6 hrs.

FRONT PASSENGER AIR BAG STATUS LIGHT OPERATION

NOTE: Please print this page and place a copy in the vehicle.

Recall Campaign R1608 changes the operation of the passenger air bag status light.

- The passenger air bag status light will now be ON (illuminated) when the front passenger seat is empty.

Below is additional information regarding the operation of the passenger air bag status light.

The front passenger seat is equipped with an occupant classification sensor (weight sensor) that turns the front passenger air bag on or off depending on the weight applied to the front passenger seat. The status of the front passenger air bag (ON or OFF) is indicated by the front passenger air bag status light which is located on the instrument panel. After the ignition switch is placed in the "ON" position, the front passenger air bag status light on the instrument panel illuminates for about 7 seconds and then turns off or remains illuminated depending on the front passenger seat occupied status. The light operates as follows:

CONDITION	DESCRIPTION	PASSENGER AIR BAG INDICATOR LIGHT	FRONT PASSENGER AIR BAG STATUS
Empty	Empty front passenger seat	ON (illuminated)	INHIBITED
Nobody/Somebody	Bag or Child or Child Restraint or Small Adult in the front passenger seat	ON (illuminated)	INHIBITED
Adult	Adult in front passenger seat	OFF (dark)	ACTIVATED