



RECALL CAMPAIGN BULLETIN

Reference:

NTB11-104

Date:

December 16, 2011

VOLUNTARY SAFETY RECALL CAMPAIGN 2011 ROGUE EPS CONTROL UNIT INSPECTION

CAMPAIGN ID #: R1113
NHTSA #: 11V-565
APPLIED VEHICLES: 2011 Rogue (S35)

INTRODUCTION

Nissan is conducting a Voluntary Safety Recall Campaign on certain Model Year 2011 Rogue vehicles to inspect and, if necessary, replace the EPS (Electronic Power Steering) control unit. This service will be performed at no charge for parts or labor.

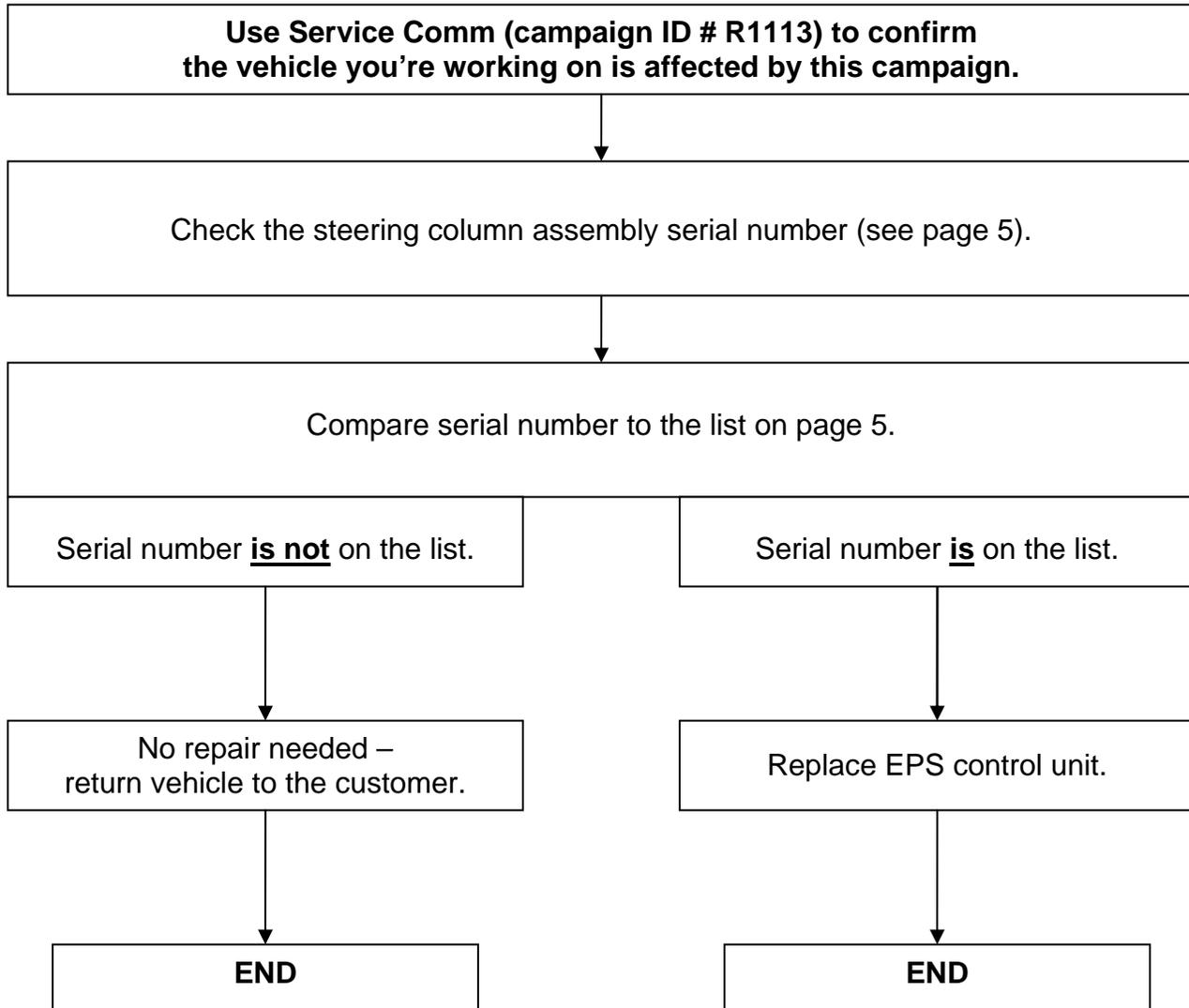
IDENTIFICATION NUMBER

Nissan has assigned identification number R1113 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 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.

REPAIR OVERVIEW



SERVICE PROCEDURE

Determine if EPS (Electronic Power Steering) Control Unit Requires Replacement

CAUTION:

- Be careful; do not scratch or damage finishers or other interior surfaces or parts.
- Use protective coverings as needed to protect interior surfaces.
- Place removed parts in a clean safe area.

1. Remove the instrument side finisher LH.

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



Figure 1

2. Remove the instrument driver lower cover.

- a. Remove the screw near the hood release handle.
- b. Use a plastic trim tool to snap loose the instrument driver lower cover.

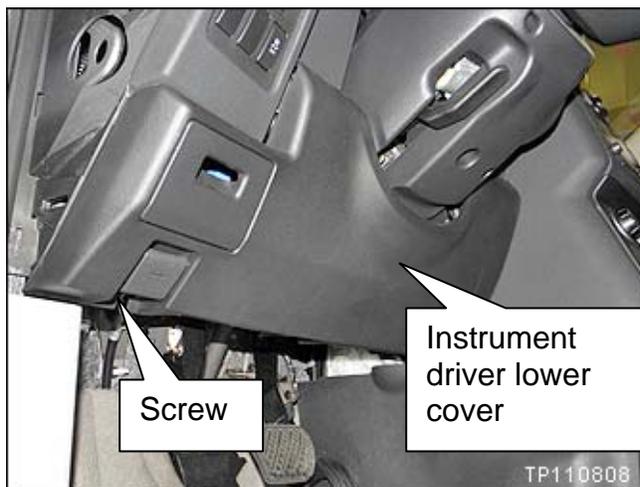


Figure 2

3. Disconnect the DDL connector and Harness from the instrument driver lower cover.
4. Disconnect the hood release cable from the instrument driver lower cover.

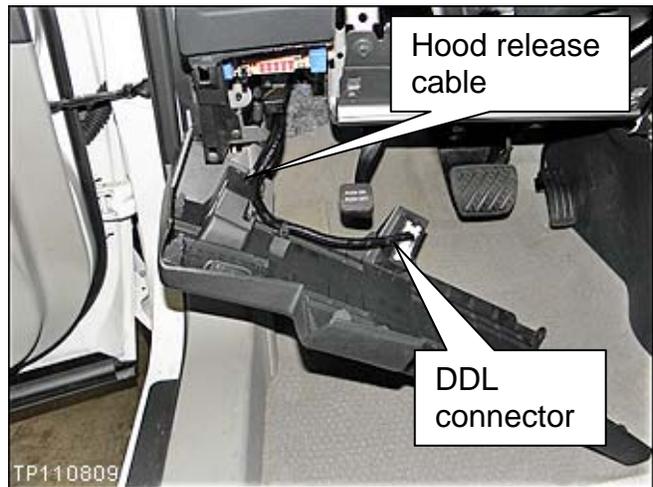


Figure 3

5. Remove the knee protector.
 - Knee protector is held on with 4 bolts.

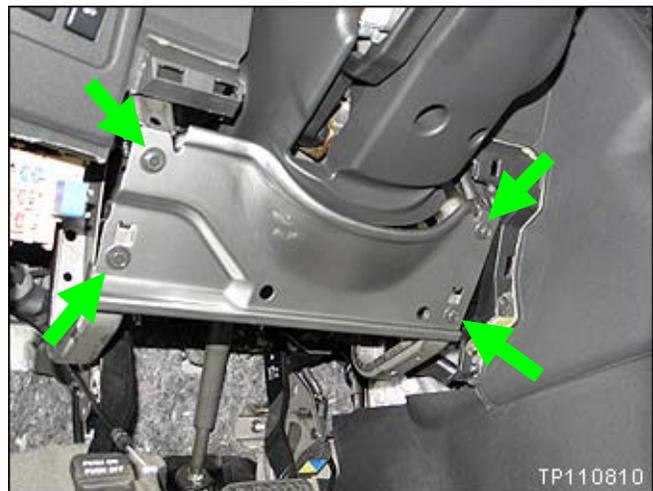


Figure 4

6. Look under the steering column and locate the serial number label shown in Figure 5.



Figure 5

7. Compare the serial number of the vehicle you are working on to the list below.

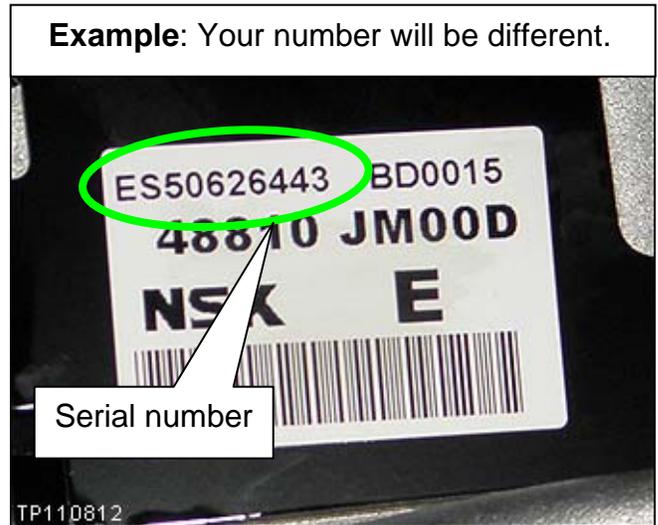


Figure 6

Serial number List

ES60831420	ES60823021	ES60823031	ES60823042	ES60831161	ES60831611
ES60810185	ES60823022	ES60823033	ES60823043	ES60831162	ES60902267
ES60810199	ES60823023	ES60823034	ES60823044	ES60831163	ES60903148
ES60819293	ES60823024	ES60823035	ES60823045	ES60831167	ES60906169
ES60821299	ES60823025	ES60823036	ES60823046	ES60831168	
ES60823007	ES60823026	ES60823037	ES60826235	ES60831173	
ES60823015	ES60823027	ES60823038	ES60826236	ES60831174	
ES60823016	ES60823028	ES60823039	ES50827054	ES60831175	
ES60823019	ES60823029	ES60823040	ES60827046	ES60831176	
ES60823020	ES60823030	ES60823041	ES50830201	ES60831363	

If your serial number **is not** on the above list – no repair is needed:

- Reinstall all parts removed and return vehicle to the customer.

If your serial number **is** on the above list – replace the EPS control unit:

- Continue with this procedure on the next page.

EPS (Electronic Power Steering) Control Unit Replacement

CAUTION:

- Be careful; do not scratch or damage finishers or other interior surfaces or parts.
- Use protective coverings as needed to protect interior surfaces.
- Place removed parts in a clean safe area.

1. Set the front wheels straight ahead (steering wheel to the straight ahead position).
2. Write down the radio station presets.

Presets	1	2	3	4	5	6
A						
B						
C						
SAT						

3. If equipped, check and write down the customer settings for the ATC (Automatic Temperature Control) system. (Refer to the Service Manual as needed).

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

WARNING:

- Before removing the driver's air bag module, wait 3 minutes or more after battery is disconnected.
- Always work from the side of the air bag module, never work in front of it.
- Never use air tools or electric tools for servicing the air bag module.

4. Remove the air bag module from the steering wheel.
 - Remove bolt covers and then remove the 2 mounting bolts.
 - Location of left side cover and bolt shown, remove right side also.
 - Do not reuse air bag mounting bolts – replace with new ones.



Figure 7

5. Disconnect the electrical connectors shown in Figure 6.

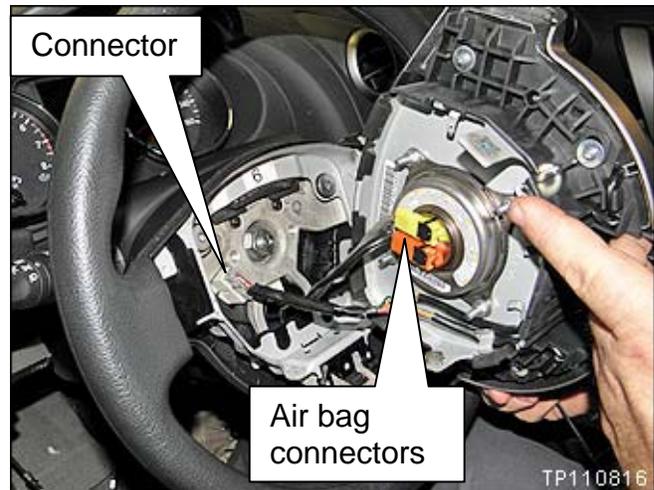


Figure 6

- Unlock and lock air bag connectors as shown in Figure 7.

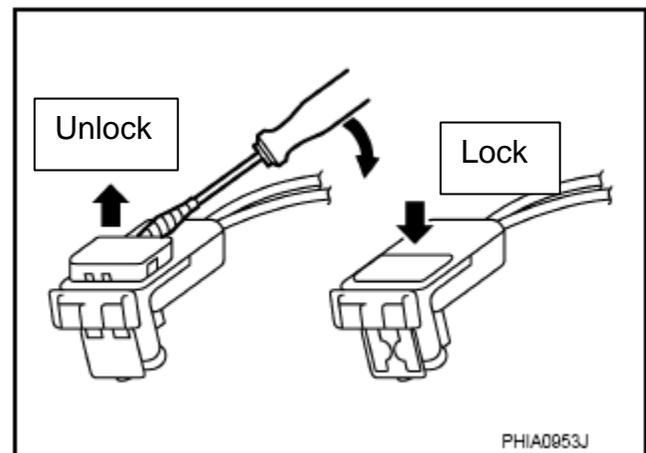


Figure 7

6. Remove the steering wheel mounting nut.
7. Make sure the steering wheel and steering shaft marks are aligned.
8. Remove the steering wheel.
 - Use a steering wheel puller.



Figure 10

9. Apply tape to the spiral cable.

- Tape will prevent the spiral cable from moving (turning) while removing the steering column covers.



Figure 11

10. Remove / pull off the ignition switch escutcheon.

- Use a plastic trim tool.
- Equipped with Intelligent Key shown.
- Non Intelligent Key is slightly different.

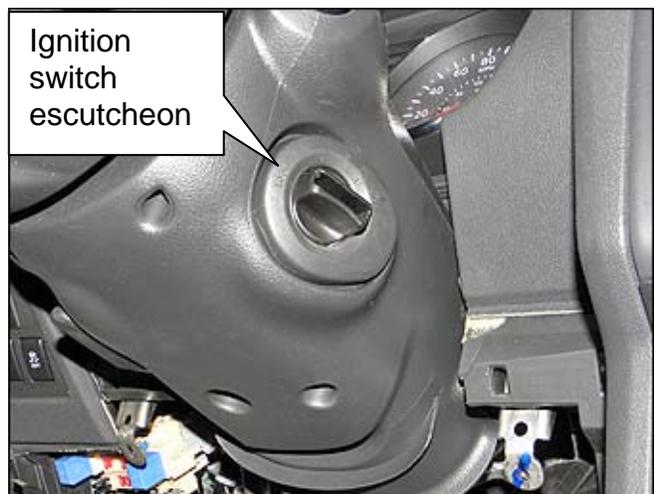


Figure 12

11. Remove 4 screws from the steering column lower cover.

12. Remove the steering column lower cover.

13. Remove the steering column upper cover.

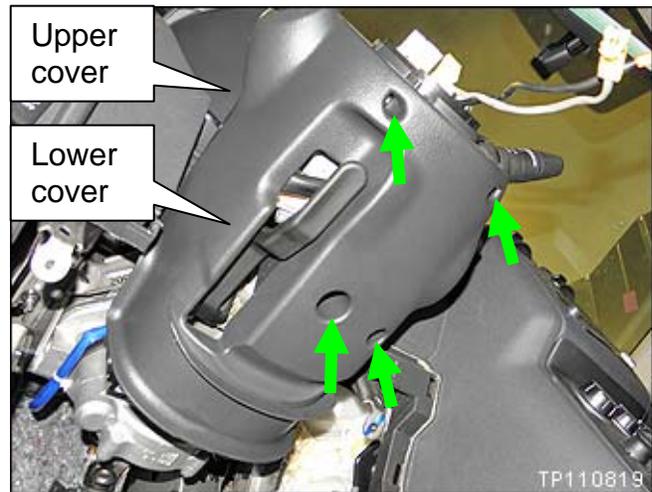


Figure 13

14. Apply additional tape across the top of the spiral cable.

- Additional tape will prevent the spiral cable from moving (turning) during the remainder of the procedure.



Figure 14

15. Remove the headlamp combination switch.

- Release lock tabs and pull out

16. Remove the wiper combination switch.

- Release lock tabs and pull out.
- Disconnect the electrical connector for the wiper combination switch.

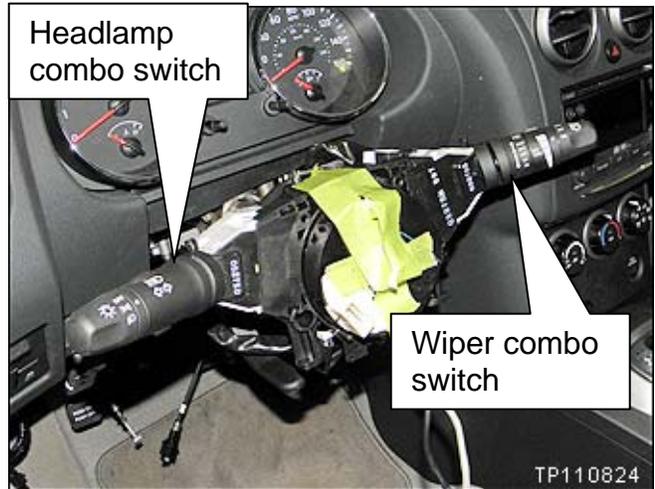


Figure 15

17. Disconnect the harness connectors and harness mounts for the upper column harness.

18. Position the upper harness out of the way.



Figure 16

19. Remove the 2 spiral cable mounting screws.

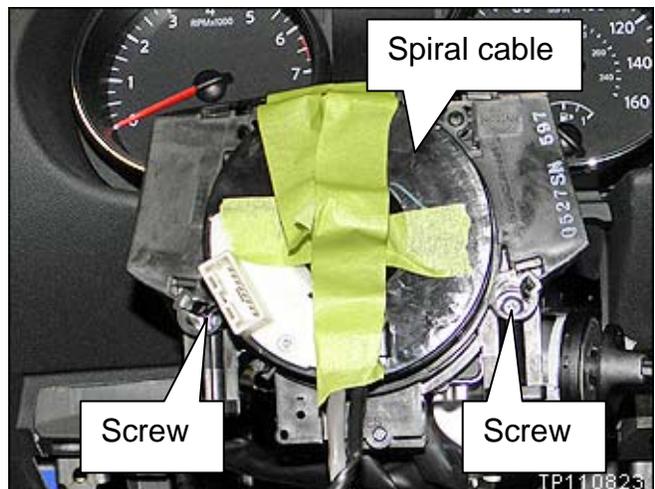


Figure 17

20 Remove the spiral cable and disconnect the 3 electrical connectors.

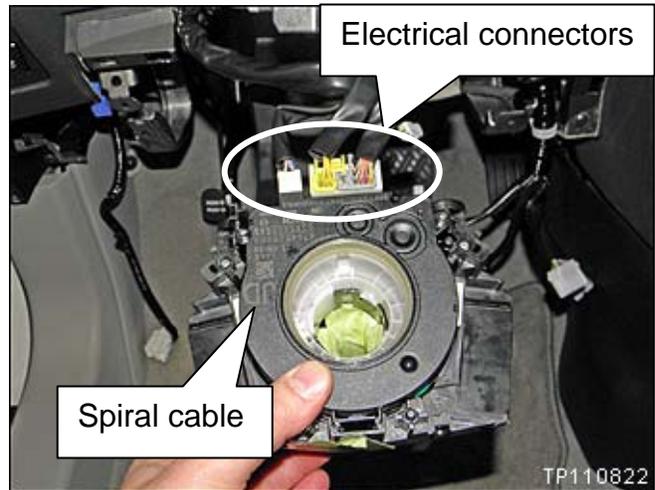


Figure 18

21. Disconnect the harness connectors and harness mounts for the lower column harness.

22. Position the lower harness out of the way.

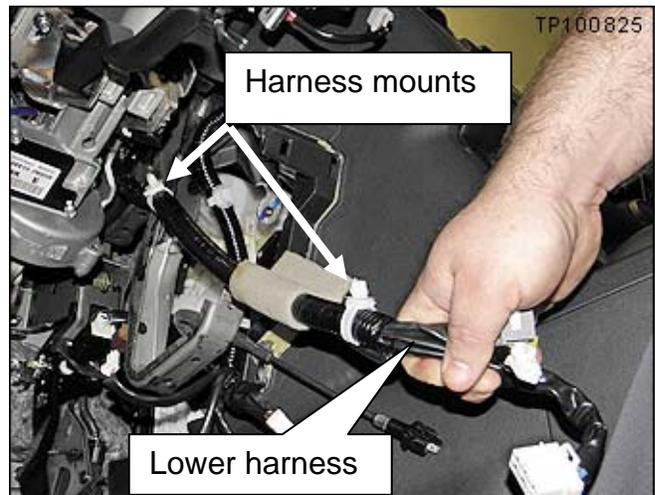


Figure 19

23. Disconnect the shift interlock cable from the ignition.

- a. Push down on the locking clip to remove it.
- b. Pull out on the interlock cable.

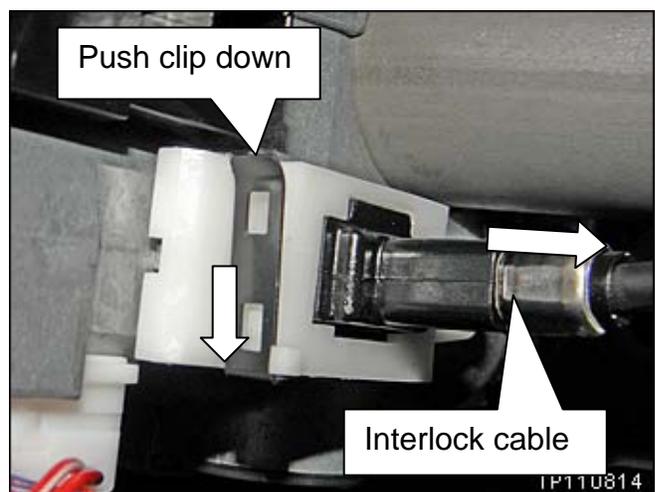


Figure 20

24. Snap loose and remove cluster lid A.

- Use a plastic trim tool as needed.

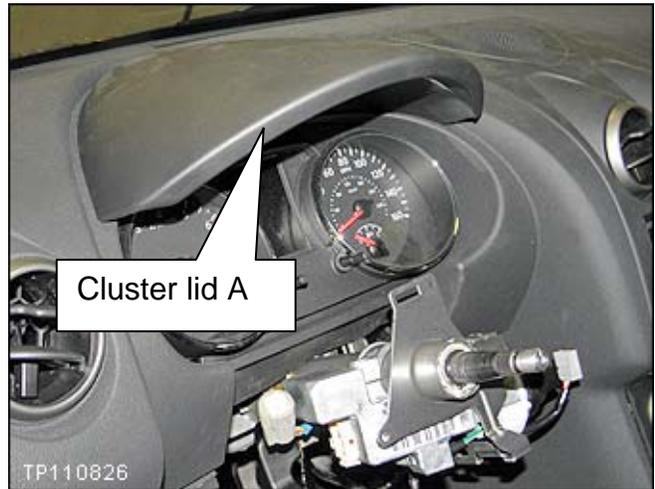


Figure 21

25. Remove the 2 combination meter mounting screws.

26. Remove the combination meter.

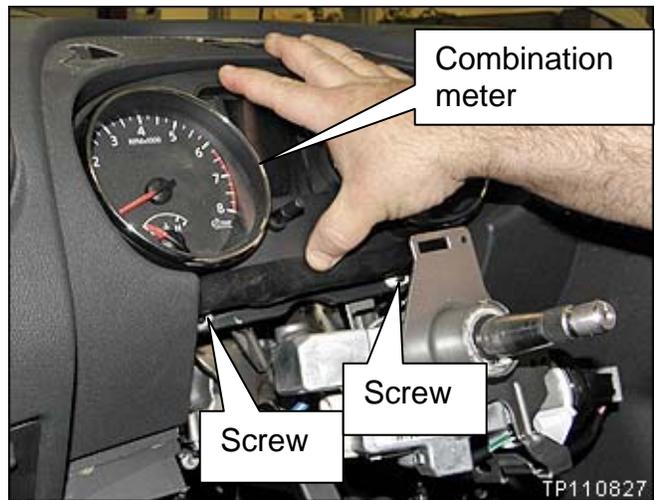


Figure 22

27. Place a protective cover on the driver side floor.



Figure 23

NOTE:

- In the next steps you will be removing the steering column assembly and placing it on the driver side floor.
- **CAUTION:** The steering column assembly is heavy.
- There is an electrical harness still connected to the assembly. This harness will be disconnected after the assembly is resting on the driver side floor.

- When the mounting bolts are removed, the steering column assembly will be supported by the hook shown in Figure 24.
- The mounting bolts can be removed without concern for the column assembly falling.



Figure 24

28. Remove the 4 steering column assembly mounting bolts shown in Figure 25.

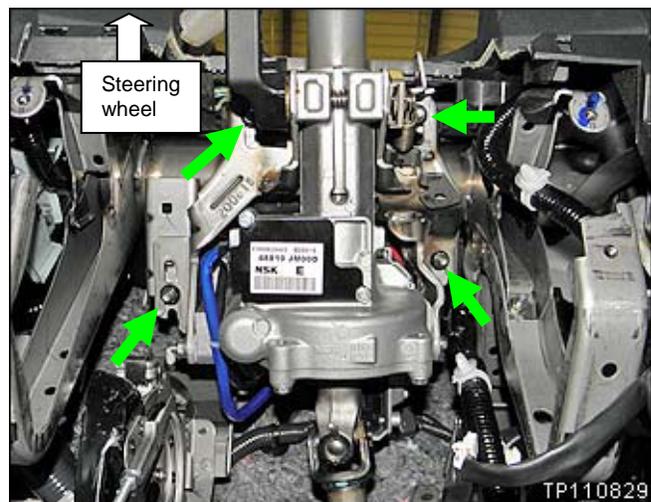


Figure 25

29. Carefully unhook the steering column assembly and set it on the floor.

- **CAUTION:** The assembly is heavy.
- Let the steering shaft rest on top of the brake pedal.

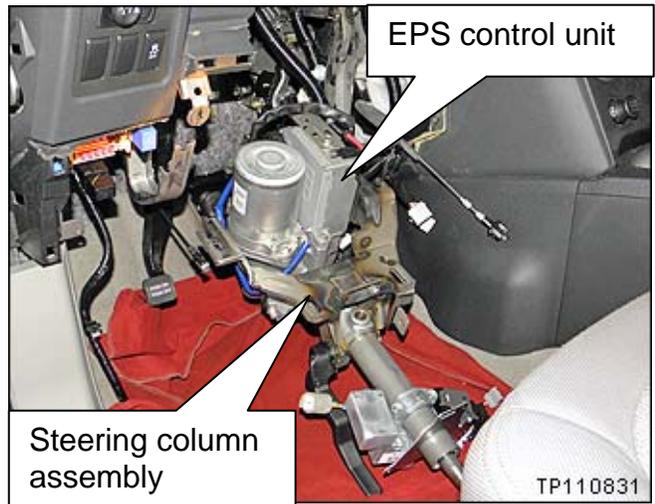


Figure 26

30. Disconnect the 2 electrical connectors shown in Figure 27.

- See Figure 28 for releasing connector A.

31. Remove the bolt shown in Figure 27.

- Discard the bolt; use a new bolt for reassembly.

NOTE: Some vehicles may not have this bolt or the bracket that it holds.

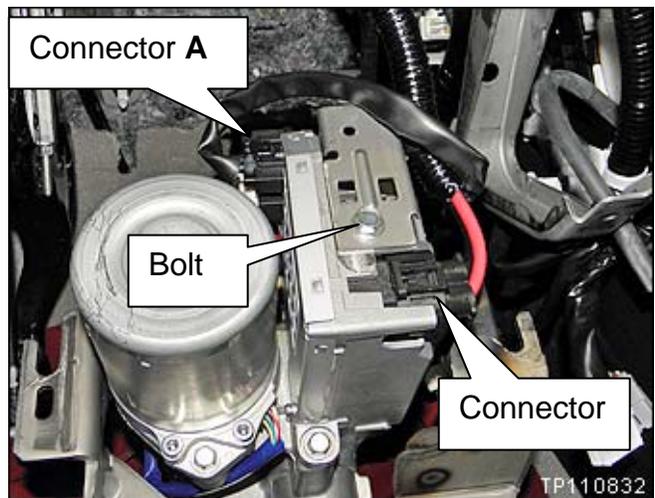


Figure 27

NOTE: To release connector A:

- Insert a small flat blade screwdriver between the connector and the metal body of the EPS control unit.
- Then push the connector away from the EPS control unit.

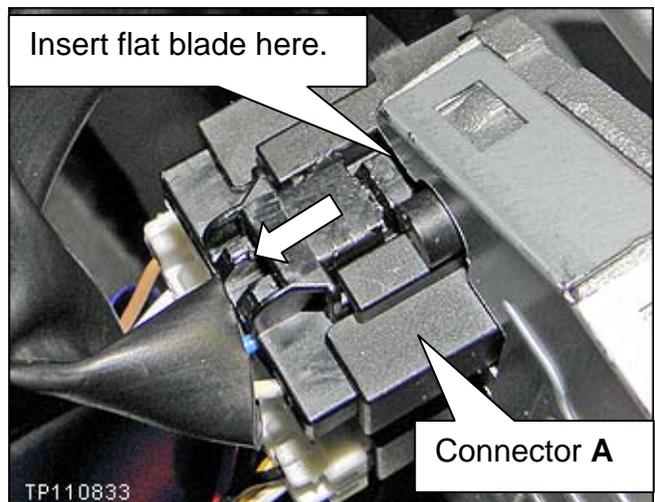


Figure 28

32. Disconnect the electrical connectors shown in Figure 29.

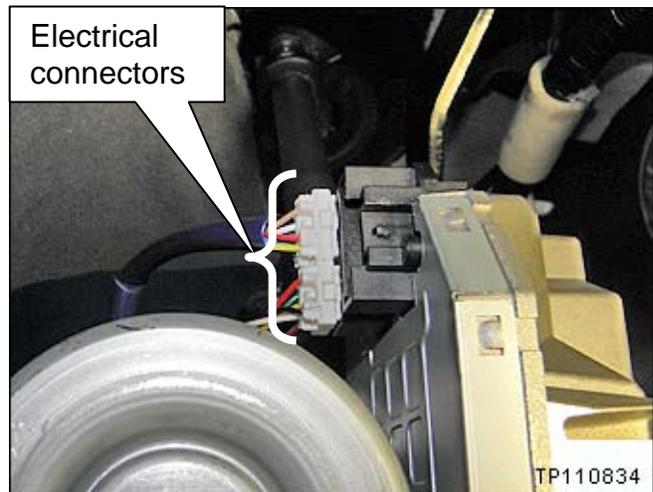


Figure 29

33. Carefully rotate the column assembly 180 degrees so it is upside down.

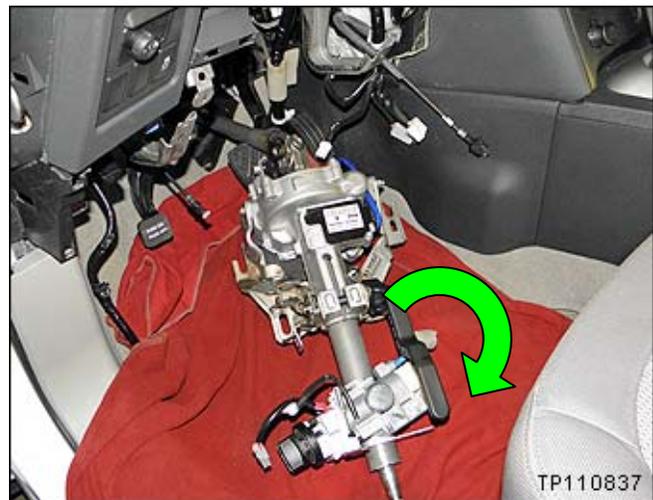


Figure 30

34. Locate and remove the plastic motor terminal cover shown in Figure 31.

- This covers 3 electrical terminals.
- The cover snaps loose.
- Discard the cover; use a new cover for reassembly.

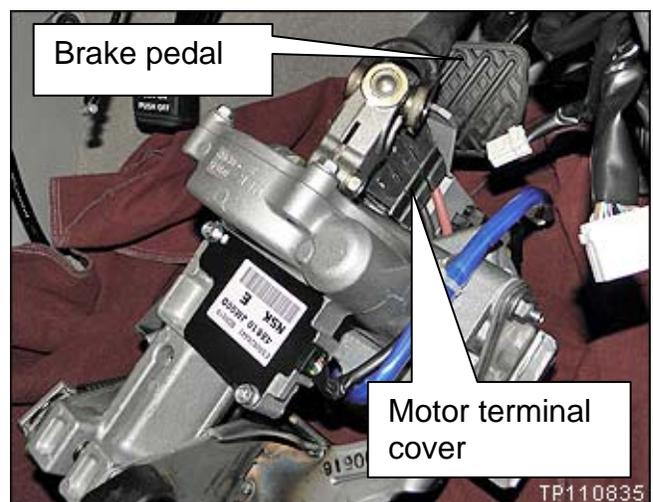


Figure 31

35. Remove the 3 motor terminal bolts.

- Discard the bolts; use new bolts for reassembly.

NOTE: These wires are stiff and will likely stay in position. During reassembly, make sure they have not moved.

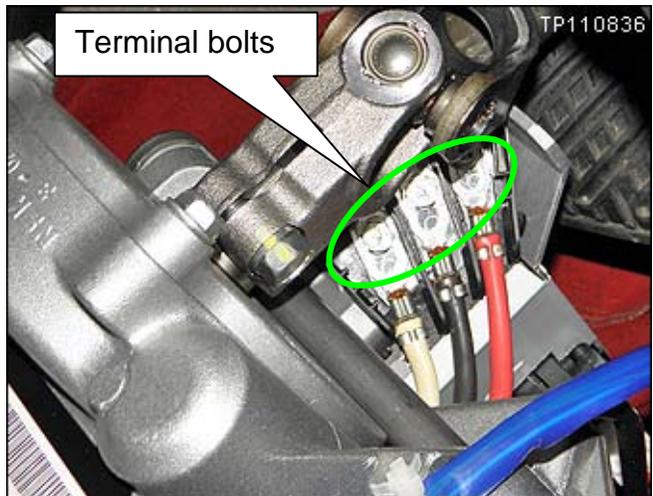


Figure 32

36. Carefully rotate the column assembly 180 degrees so it is right-side up (back to its original position).

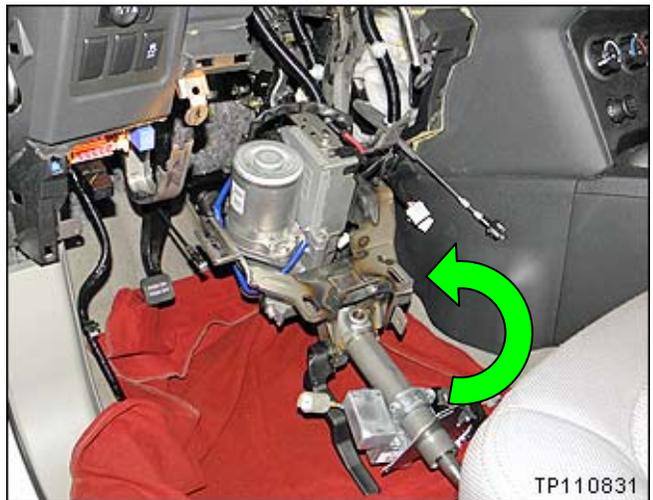


Figure 33

37. Remove the 2 EPS control unit mounting bolts.

- Discard the bolts; use new bolts for reassembly.

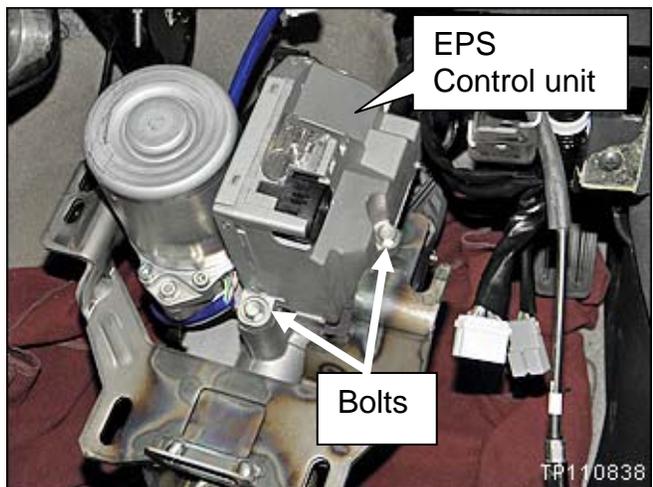


Figure 34

38. Remove the EPS control unit.

- Make the old control unit unusable by breaking an electrical connector.

39. Install the **new** EPS control unit in reverse order.

- Use **new** mounting bolts. Torque to 14 N•m (1.4 kg-m, **10 ft-lb**)
- Use **new** terminal bolts. Torque to 3.6 N•m (0.37 kg-m, **32 in-lb**)
- Use a **new** plastic terminal cover.



Figure 35

NOTE: Make sure motor terminal wires are installed in the correct locations.

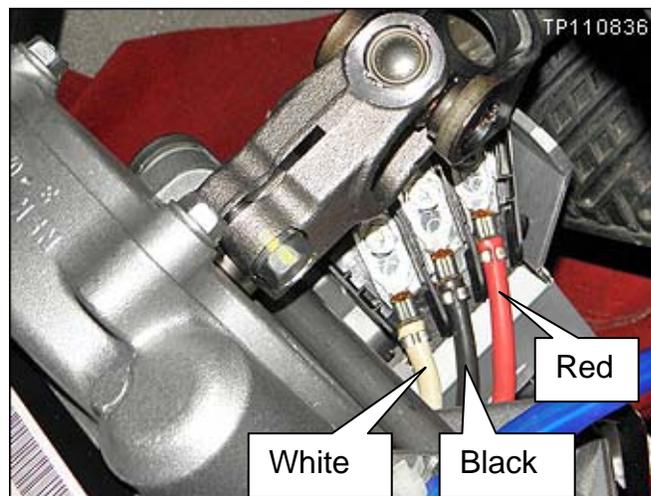


Figure 36

40. Reinstall all other parts in reverse order.

- Torque for assembly mounting nuts is 16.7 N•m (1.7 kg-m, **12 ft-lb**).

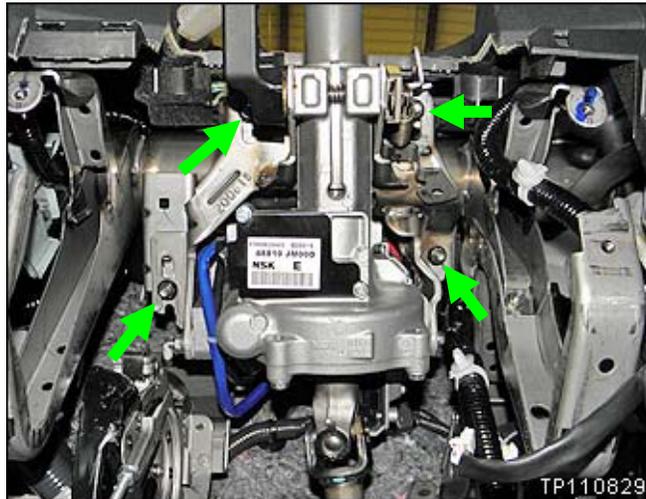


Figure 37

- When installing the steering wheel:
 - Make sure the spiral cable locating tab is correctly in place.

- Make sure the steering wheel and steering shaft marks are aligned.

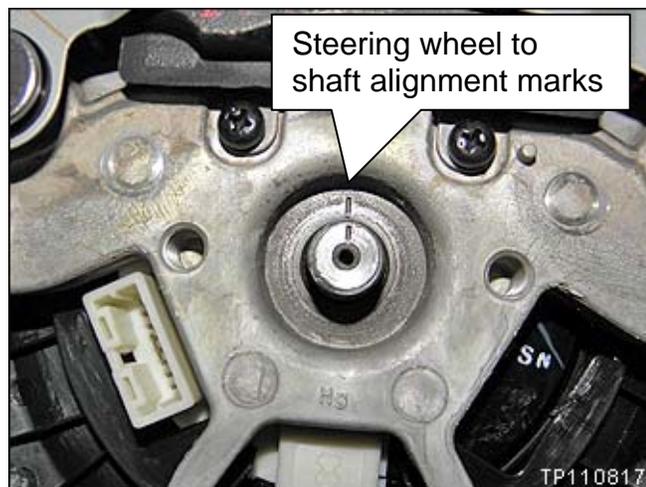


Figure 38

- Torque for steering wheel mounting nut is 34.3 N•m (3.5 kg-m, **25 ft-lb**).
- Use **new** mounting bolts for the air bag on the steering wheel.
Torque to 9.3 N•m (0.95 kg-m, **82 in-lb**).

41. Connect the battery cables – positive cable first.

42. Perform the following:

- a. Do not touch the steering wheel.
- b. Turn the ignition ON.
- c. Wait 3 seconds.
- d. Turn the ignition OFF.
- e. Wait 3 seconds.
- f. Perform **a** through **e** two more times (total of 3 times).

43. With C-III, perform EPS > Self Diagnosis. Make sure no DTCs are stored.

44. Start the engine and turn the steering wheel fully left and fully right. Make sure there is no abnormal noise or feel.

45. If equipped with VDC; use C-III to perform “Adjustment of Steering Angle Sensor Neutral Position”.

- a. Drive the vehicle a few feet and stop with the front wheels in the straight ahead position.
- b. Go to ABS > Work Support > ST ANGLE SENSOR ADJUSTMENT.
 - **CAUTION:** Do not touch the steering wheel while performing Steering Angle Sensor Adjust.
 - Follow the on-screen instructions.
- c. **CAUTION:** When adjustment is complete, make sure to turn the ignition switch OFF, and then turn it ON again.

46. Again, drive the vehicle a few feet and stop with the front wheels in the straight ahead position.
47. Go to ABS > Data Monitor and make sure STR ANGLE SIG is within $0 \pm 2.5^\circ$.
48. Perform ABS > Self Diagnosis > Erase. Make sure all DTCs are erased.
49. Perform ENGINE > Self Diagnosis > Erase. Make sure all DTCs are erased.
50. Reset the clock and the radio station presets.
51. If equipped; reset customer's settings for the ATC (Automatic Temperature Control) system. (Refer to the Service Manual as needed):

52. Initialize the driver's power window as follows:

- a. Turn the ignition ON (keep the transmission in Park and the parking brake applied).
- b. Close the door.
- c. Operate the power window switch to fully open the window.
- d. Pull UP and continue to pull UP on the power window switch to fully close the window.
- e. Continue pulling the power window switch UP for 3 seconds after glass stops at fully closed position.
- f. Check that auto-up function operates normally.

53. Check operation of headlamps, fog lamps, turn signals, wipers, and shift interlock.

54. Make sure the Air Bag warning lamp goes OFF about 7 seconds after ignition is turned ON.

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QTY
Controller Kit – Power Steering	B8E00 – JM00C	1
Kit includes:		
1 - EPS control unit		
1 - Motor terminal cover (plastic)		
3 - Motor terminal bolts		
1 - Bracket bolt		
1 - 48 mm (Long) EPS Control Unit Bolt		
1 - 25 mm (Short) EPS Control Unit Bolt		
2 - Steering Wheel Air bag bolts.		
1 - Lower shaft bolt (not used)		
1 - Lower shaft nut (not used)		

CLAIMS INFORMATION

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

CAMPAIGN (CM) I.D #	DESCRIPTION	OP CODE	FRT
R1113	Check Serial Number Only	R11130	0.3 hrs.

OR

CAMPAIGN (CM) I.D #	DESCRIPTION	OP CODE	FRT
R1113	Check Serial Number and Replace EPS Control Unit	R11131	1.5 hrs.

OWNER LETTER

Dear Nissan Rogue 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 that relates to motor vehicle safety exists in some Model Year 2011 Nissan Rogue vehicles. Our records indicate that you own or lease the Nissan vehicle identified by the VIN shown below.

Reason for Recall

Certain specific Model Year 2011 Rogue vehicles may have been equipped with an out-of-specification electronic power steering (EPS) unit. This may cause the power steering assist to fail during a steering maneuver, resulting in an increased steering effort while driving, causing the vehicle to behave similar to a vehicle equipped with manual steering.

What Nissan Will Do

Your Nissan dealer will check the serial number on the steering column assembly to determine whether the EPS control unit is affected. If the EPS control unit is affected it will be replaced with a correct one free of charge. This service may 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.

What You Should Do

Contact your Nissan dealer at your earliest convenience in order to arrange an appointment to have your vehicle repaired. Please bring this notice with you when you keep your service appointment. Instructions have been sent to your Nissan dealer.

If you have additional questions 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 submit a complaint to 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.