FRONT POWER SEAT NO OR IMPROPER
FORWARD / BACKWARD MOVEMENT

This bulletin has been amended to expand Applied Vehicles and to incorporate NTB05-056 into this bulletin. No other changes have been made. Please discard the previous version of this bulletin.

APPLIED VEHICLES:
2004 - 2007 Armada (TA60)
2004 - 2007 Titan (A60)
2004 - 2007 Quest (V42)
2005 - 2007 Pathfinder (R51)
2005 - 2007 Frontier (D40)
2004 - 2006 Altima (L31)
2004 - 2007 Maxima (A34)*

• *2004 Maxima (A34); Applies to left and right front seats, with or without ADP (memory seat).

• *2005 – 2006 Maxima (A34); Applies only to the left front (driver’s) seat with ADP (memory seat).

APPLIED VINS:
TA60 Built before: 5N1AA08A(*)7N718400
A60 Built before: 1N6BA07B(*)7N231607
V42 Built before: 5N1BV28U(*)7N134315
A34 Built before: 1N4BA41E(*)7C853209
D40 2005 - 2007 All VINS
R51 2005 - 2007 All VINS
L31 2004 - 2006 All VINS

APPLIED DATES:
TA60 Built before: 05-Feb-2007
A60 Built before: 05-Feb-2007
V42 Built before: 15-Feb-2007
R51 All Dates
D40 All Dates
A34 Built before: 28-Feb-2007
L31 All Dates
IF YOU CONFIRM:
The seat slide motor or gear assembly needs to be replaced for any reason,

NOTE: Incidents that require slide motor and gear assembly replacement include:
- The power seat has voltage (power) to it, but it will not move forward or backward.
- While moving the seat forward or backward, the seat won’t track straight; it becomes cocked (crooked) on the seat tracks.
- Noise from the slide motor or gears.

ACTION:
Replace only the Seat Slide Motor Kit listed in the Parts Information. Do Not replace the entire seat adjuster assembly.

IMPORTANT:
- DO NOT replace the entire seat adjuster assembly when only a slide motor or gear assembly is needed.
- This is the ONLY approved repair procedure for repair of seat slide motor or gear incidents on the Applied Vehicles. A claim to Nissan for the repair of seat slide motor or gear incidents on the Applied Vehicles may be denied if the repair is not performed exactly as outlined in this bulletin.
- The purpose of "ACTION" (above) is to give you a quick idea of the work you will be performing. You MUST closely follow the entire Service Procedure (starting on page 4) as it contains information that is essential to successfully completing this repair.
PARTS INFORMATION

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART #</th>
<th>QUANTITY</th>
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</thead>
<tbody>
<tr>
<td>Seat Slide Motor Kit, Left Front (for vehicles with ADP)</td>
<td>87451 - 5Z50A</td>
<td>1; if needed</td>
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<tr>
<td>Seat Slide Motor Kit, Left Front (for vehicles without ADP)</td>
<td>87451 - 5Z40A</td>
<td></td>
</tr>
<tr>
<td>Seat Slide Motor Kit, Right Front</td>
<td>87401 - 5Z40A</td>
<td>1; if needed</td>
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</tbody>
</table>

CLAIMS INFORMATION

NOTE: This is the ONLY approved repair procedure for seat slide motor or gear assembly incidents on the Applied Vehicles. A claim to Nissan for the repair of seat slide motor or gear incidents on the Applied Vehicles may be denied if the repair is not performed exactly as outlined in this bulletin.

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

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PFP</th>
<th>OP CODE</th>
<th>SYM</th>
<th>DIA</th>
<th>FRT</th>
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</thead>
<tbody>
<tr>
<td>Install Left Front Seat Slide Motor Kit</td>
<td>(1)</td>
<td>VH40AA</td>
<td>ZE</td>
<td>32</td>
<td>(2)</td>
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</table>

*AND/OR

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PFP</th>
<th>OP CODE</th>
<th>SYM</th>
<th>DIA</th>
<th>FRT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Install Right Front Seat Slide Motor Kit</td>
<td>(1)</td>
<td>VH24AA</td>
<td>ZE</td>
<td>32</td>
<td>(2)</td>
</tr>
</tbody>
</table>

(1) Reference the Parts Information Table and use the applicable Seat Slide Motor Kit P/N as the PFP.
(2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated FRT.

* NOTE: If installation of both (left and right) Seat Slide Motor Kits is necessary, please submit on two lines.

Figure 1
SERVICE PROCEDURE

NOTE:
- Use suitable covers to protect upholstery, carpeting, etc. when performing this Procedure.
- The illustrations in this bulletin are for the left side (driver side) seat. The right side (passenger side) seat is a “mirror image” of these illustrations.

If needed; use steps 1 and 2 to confirm you have voltage (power) to the seat slide motor.

1. Using the power seat switch, tilt the front edge of the seat bottom all the way UP.

2. Check/measure voltage to the seat slide motor. Use a voltmeter and “Back-probe” into the connector, harness side, between the following color wires:

NOTES:
For wire color codes and connector layouts for the vehicle you are working on refer to the Wiring Diagram in chapter SE, section POWER SEAT or AUTOMATIC DRIVE POSITIONER as applicable in the appropriate Electronic Service Manual (ESM).

If needed, refer to “How to Back Probe Connectors” is the Nissan and Infiniti Connector and Terminal Service Manual. This manual is in ASIST under Tools & Equipment.

Figure 2 shows an example of the driver’s side seat slide motor connector location. The vehicle you are working on may be different.

- This voltage check can be done with the seat slide motor connected.
- If the voltage is about 12V when the seat slide switch is pressed to the “forward” and “backward” positions, voltage (power) is getting to the seat slide motor.
- If voltage is 0V, this bulletin doesn’t apply. Check your power and ground circuits to the seat slide motor.
Remove Old Seat Slide Parts

3. Record the radio station pre-sets for later reprogramming after the procedure.

4. If the power seat won’t move, lightly tap the seat slide motor (see Figure 2 on page 3).
   - Sometimes this will get the motor working again temporarily so the seat can be moved to access the seat mounting bolts.
   - Don’t remove the seat yet.

5. Follow steps 6 through 9 to remove the seat from the vehicle.
   - If needed, refer to section SE in the Service Manual (ESM) for seat removal information.

6. Turn the ignition key "OFF".

7. Disconnect both battery cables, negative cable first, and wait three (3) minutes.
   - This will allow the Supplemental Restraint System (SRS) to deactivate. This includes the front seat side air bags.

8. Tilt the entire seat assembly back and disconnect the harness-to-seat connectors.

9. Remove the seat assembly from vehicle and place it on a clean dry surface.
   - Use a fender cover or large floor-mat. Place it with the seat back lying flat so you can reach the underside of the seat.
10. Remove the four seat bottom cushion bolts—M8, 12mm head (see Figure 3).
   • Removing these bolts will release the cushion from the frame.

11. Remove the two seat track mounting tab bolts (M6, 10mm head), one on each side. They’re near the cushion bolts you just removed (see Figure 3).
   • Removing these bolts will release the seat slide rails from the “worm gears”.

12. Remove the top screw only from the RH & LH side finishers (see Figure 4).

13. Remove both screws and finisher from the front edge of the seat (see Figure 4).

Figure 3

Figure 4
14. Disconnect the seat sub-harness connector from the slide motor (see Figure 5).

15. Remove two bolts, one from each side of the seat frame—M8, 12mm head (see “Remove this bolt first” in Figure 5).

16. Remove the six nuts (3 on each side) and two base plates shown in Figure 5.
- Removing these nuts will release the gear boxes.

17. Slide both sides of the seat rail back to the rear position (towards the seat back) and remove the worm gears, drive cable, motor, and gear boxes, all as one unit, from the seat adjuster assembly (see Figure 6).

**CAUTION:** Avoid bending the drive cable. Bending the cable will result in noise during seat operation.
18. Remove the drive cable from the Motor.

- To release the drive cable from the motor end, pull up on the tab using a small flat blade screwdriver or equivalent (see Figure 7).

![Figure 7](TP030669)

Install new Seat Slide Motor Kit

19. Make sure the seat track mounting tab and the rear stopper are touching (see Figure 8).

20. Measure the distance between the gear box and the mounting tab (see left side of Figure 8).

21. Measure and adjust the other seat track mounting tab to the same distance (see right side of Figure 8).

![Figure 8](TP000835a)
22. Replace all six rubber grommets with the new ones from the kit—3 on each side (see Figure 9).

![Figure 9](image1)

23. Put the new worm gears, gear boxes, and drive cable assembly (all as one unit) back into the seat frame and move both seat tracks back into position on top of the seat track mounting tabs.

**CAUTION:** Avoid bending the drive cable. Bending the drive cable will create a noise when the seat is operated.

![Figure 10](image2)
24. Make sure the “dimples” on the seat track mounting tabs are aligned with the holes in the seat track (see Figures 11 and 12).

Figure 11

Figure 12
25. Install and **hand tighten** both seat track mounting **tab bolts** (M6, 10mm head, see Figure 13).

![Figure 13](image)

26. Next, install and tighten the six nuts (three on each side) with the base plates. This will secure the gear boxes (see Figure 14). Nut torque: 64-85 in-lb (7.17-9.69 Nm).

![Figure 14](image)

27. Re-install and tighten the two Seat Frame **Side Bolts**—M8, 12mm head (see Figure 14). Bolt torque: 13-17 ft-lb (17.5-23.7 Nm).
28. Check the gear box to mounting tab distance again (as you did in steps 20 and 21). Make sure the distance has not changed (see Figure 15).

- If N/G, adjust.

![Figure 15](image1)

29. Tighten/torque the Seat Track Mounting Tab Bolts that you installed in step 25 (see Figure 16).

- Bolt torque: 65-84 in-lb (7.3-9.4 Nm)

![Figure 16](image2)
30. Reinstall screws to attach the side finishers and the front finisher (see Figure 17).

![Figure 17](TP000831)

31. Re-install the four Seat Bottom Cushion Bolts—M8, 12mm head (see Figure 18). Bolt torque: 13-17 ft-lb (17.5-23.7 Nm).

![Figure 18](TP000830)

32. Re-connect the slide motor electrical connector, making sure it snaps in securely.

33. Place the seat assembly back into the vehicle and re-connect all electrical connectors. Make sure they all snap together securely.
34. Re-connect the battery cables, positive cable first.

35. Finish reinstalling the seat. Torque mounting bolts to 45 N-m (4.6 Kg.m, 35 ft-lbs.).
   - If needed, refer to section SE in the Service Manual (ESM) for seat installation information.

36. Operate all seat switches to make sure everything works as it should.

37. If the vehicle is equipped with “ADP”, for the ADP entry/exit feature to return to normal operation, procedure A or B must be performed.

   Procedure A:
   1. Insert key into the ignition key cylinder. (Ignition switch is “OFF”.)
   2. Open – close - open the driver side door (dome lamp; “ON” – “OFF” – “ON”).
   3. End

   Procedure B:
   1. Drive the vehicle at more than 25 km/h (16 MPH).
   2. End

38. Reset the clock and the radio station presets.

39. Refer to the appropriate Service Manual and perform the following as needed:
   - Power Window Initialization
   - Power Sunroof Initialization
   - Accelerator Pedal Released Position Learning
   - Throttle Valve closed Position Learning
   - Idle Air Volume Learning
   - Steering Angle Sensor Neutral Position
   - Rear View Monitor Guiding Line Adjustment
   - Rear View Monitor Predicted Course Line Center Position Adjustment

**NOTE:** You may need to inform the customer that their Automatic Drive Position will need to be reset.