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2005 NISSAN Almera / Pulsar 5 Doors OEM Service and Repair Workshop Manual

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Part	Inspection
	REPLACE the diagnosis sensor unit. Install with new fasteners.
Steering wheel	<ol style="list-style-type: none"> 1. Visually check steering wheel for deformities. 2. Check harness (built into steering wheel) and connectors for damage, and terminals for deformities. 3. Install driver air bag module into the steering wheel to check fit and alignment with the wheel. 4. Check steering wheel for excessive free play. 5. If no damage is found, reinstall. 6. If damaged - REPLACE.
Spiral cable	If the driver front air bag has deployed: REPLACE the spiral cable.
Occupant detection system (Passenger seat)	<ol style="list-style-type: none"> 1. Remove passenger seat assembly. 2. Check control unit case for dents, cracks or deformities. 3. Check connectors for damage and terminals for deformities. 4. Check seat frame and seat track for dents or deformities. 5. If no damage is found, reinstall seat with new fasteners. 6. If damaged - REPLACE entire seat. 7. Perform zero point reset function after front passenger seat is installed in the vehicle and all bolts are tightened to specification. Refer to Work Procedure.
Harness and connectors	<ol style="list-style-type: none"> 1. Check connectors for poor connection, damage, and terminals for deformities. 2. Check harness for binding, chafing, cuts, or deformities. 3. If no damage is found, reinstall the harness and connectors. 4. If damaged - REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness.
Instrument panel assembly	If the front passenger air bag and/or knee air bag has deployed: REPLACE the instrument panel assembly. (integrated type)

FOR FRONTAL COLLISION: When SRS is not activated in a collision**CAUTION:**

Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.

WORK PROCEDURE

- 1 Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
- 2 Check the SRS components using the table below.
Replace any SRS components showing visible signs of damage. (dents, cracks and deformation, etc).
- 3 Perform self-diagnosis using CONSULT or air bag warning lamp. Refer to [DTCIndex](#). for details.
Ensure entire SRS operates properly.
- 4 After the work is completed, check that no malfunction is detected by air bag warning lamp.

SRS INSPECTION (FOR FRONTAL COLLISION)

Part	Inspection
Driver air bag module	If the driver air bag has not been activated: <ol style="list-style-type: none"> 1. Remove driver air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Install driver air bag module into the steering wheel to check fit and alignment with the wheel. 3. If no damage is found, reinstall with new fasteners. 4. If damaged - REPLACE. Install driver air bag modules with new fasteners.
Driver knee air bag module	If the driver knee air bag has not been activated: <ol style="list-style-type: none"> 1. Remove driver knee air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Install driver knee air bag module into the instrument panel to check fit with the instrument panel. 3. If no damage is found, reinstall with new fasteners. 4. If damaged - REPLACE. Install driver knee air bag modules with new fasteners.
Front passenger air bag module	If the front passenger air bag has not been activated: <ol style="list-style-type: none"> 1. Remove front passenger air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Install front passenger air bag module into the instrument panel to check fit with the instrument panel. 3. If no damage is found, reinstall with new fasteners. 4. If damaged - REPLACE. Install front passenger air bag modules with new fasteners.
Front passenger knee air bag module	If the front passenger knee air bag has not been activated: <ol style="list-style-type: none"> 1. Remove front passenger knee air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding.

Part	Inspection
	<ol style="list-style-type: none"> 2. Install front passenger knee air bag module into the instrument panel to check fit with the instrument panel. 3. If no damage is found, reinstall with new fasteners. 4. If damaged - REPLACE. Install front passenger knee air bag modules with new fasteners.
Crash zone sensor	<p>If the front air bags or seat belt pre-tensioners have not been activated:</p> <ol style="list-style-type: none"> 1. Remove the crash zone sensor. Check harness connectors for damage, terminals for deformities, and harness for binding. 2. Check for visible signs of damage (dents, cracks, deformation) of the crash zone sensor and bracket. 3. Install the crash zone sensor to check fit. 4. If no damage is found, reinstall with new fasteners. 5. If damaged - REPLACE the crash zone sensor and bracket with new fasteners.
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	<p>If the pre-tensioners have not been activated:</p> <ol style="list-style-type: none"> 1. Remove seat belt pre-tensioners. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Check belts for damage and anchors for loose mounting. 3. Check retractor for smooth operation. 4. Check seat belt adjuster for damage. 5. Check for deformities of the center pillar inner. 6. If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly. 7. If no damage is found, reinstall seat belt pre-tensioner assembly with new fasteners. 8. If damaged - REPLACE. Install the seat belt pre-tensioner assembly with new fasteners.
Diagnosis sensor unit	<p>If none of the SRS components have been activated:</p> <ol style="list-style-type: none"> 1. Check case for dents, cracks or deformities. 2. Check connectors for damage, and terminals for deformities. 3. If no damage is found, reinstall with new fasteners. 4. If damaged - REPLACE. Install diagnosis sensor unit with new fasteners.
Steering wheel	<ol style="list-style-type: none"> 1. Visually check steering wheel for deformities. 2. Check harness (built into steering wheel) and connectors for damage, and terminals for deformities. 3. Install driver air bag module into the steering wheel to check fit and alignment with the wheel. 4. Check steering wheel for excessive free play. 5. If no damage is found, reinstall.

Part	Inspection
	6. If damaged - REPLACE.
Spiral cable	<p>If the driver front air bag has not deployed:</p> <ol style="list-style-type: none"> 1. Visually check spiral cable and combination switch for damage. 2. Check connectors and protective tape for damage. 3. Check steering wheel for noise, binding or heavy operation. 4. If no damage is found, reinstall. 5. If damaged - REPLACE.
Occupant detection system (Passenger seat)	<ol style="list-style-type: none"> 1. Remove passenger seat assembly. 2. Check control unit case for dents, cracks or deformities. 3. Check connectors for damage and terminals for deformities. 4. Check seat frame and seat track for dents or deformities. 5. If no damage is found, reinstall seat with new fasteners. 6. If damaged - REPLACE entire seat. 7. Perform zero point reset function after front passenger seat is installed in the vehicle and all bolts are tightened to specification. Refer to Work Procedure.
Harness and connectors	<ol style="list-style-type: none"> 1. Check connectors for poor connection, damage, and terminals for deformities. 2. Check harness for binding, chafing, cuts, or deformities. 3. If no damage is found, reinstall the harness and connectors. 4. If damaged - REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness.
Instrument panel assembly	<p>If the passenger front air bag has not deployed:</p> <ol style="list-style-type: none"> 1. Visually check instrument panel for damage. 2. If no damage is found, reinstall the instrument panel assembly. 3. If damaged - REPLACE the instrument panel assembly.

FOR SIDE AND ROLLOVER COLLISION: When SRS is activated in a collision

CAUTION:

Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.

WORK PROCEDURE

1 Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.

2 Replace the following components.

- Front seatback assembly (on the side on which side air bag is activated).
- Rear seatback assembly (on the side on which side air bag is activated).
- Door finisher (on the side on which door-mounted curtain air bag is activated).
- Pop-up roll bar assemblies and pop-up roll bar covers.
- Side air bag (satellite) sensor LH/RH (on the side on which side air bag is activated).
- Diagnosis sensor unit.
- Seat belt pre-tensioner assemblies.

3 Check the SRS components and the related parts using the following table.

Replace any SRS components and the related parts showing visible signs of damage (dents, cracks, deformation, etc).

4 Perform self-diagnosis using CONSULT and “AIR BAG” warning lamp. Refer to [DTCIndex](#) for details. Make sure entire SRS operates properly.

5 After the work is completed, check that no malfunction is detected by air bag warning lamp.

SRS INSPECTION (FOR SIDE AND ROLLOVER COLLISION)

Part	Inspection
Side curtain air bag module LH	If the side curtain air bag LH has deployed: REPLACE the side curtain air bag module LH. Install with new fasteners.
Side curtain air bag module RH	If the side curtain air bag RH has deployed: REPLACE the side curtain air bag module RH. Install with new fasteners.
Front side air bag module LH	If the front side air bag LH has deployed: REPLACE the front seatback assembly LH.
Front side air bag module RH	If the front side air bag RH has deployed: REPLACE the front seatback assembly RH.
Front center air bag module	If the front center air bag has deployed: REPLACE the front seatback assembly RH.
Rear side air bag module LH	If the rear side air bag LH has deployed:

Part	Inspection
	REPLACE the rear seatback assembly.
Rear side air bag module RH	If the rear side air bag RH has deployed: REPLACE the rear seatback assembly.
Side air bag (satellite) sensor (LH or RH)	If any of the SRS components have deployed: REPLACE the side air bag (satellite) sensor on the collision side with new fasteners.
Door (satellite) sensor (LH or RH)	If any of the SRS components have deployed: REPLACE the door (satellite) sensor on the collision side with new fasteners.
Diagnosis sensor unit	If any of the SRS components have deployed: REPLACE the diagnosis sensor unit with new fasteners.
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	If either the driver or passenger seat belt pre-tensioner* has been activated: REPLACE all seat belt pre-tensioner assemblies with new fasteners. *: Confirm seat belt pre-tensioner activation using CONSULT only.
Center inner pillar	<ol style="list-style-type: none"> 1. Check the center inner pillar on the collision side for damage (dents, cracks, deformation). 2. If damaged - REPAIR the center inner pillar.
Trim/headlining	<ol style="list-style-type: none"> 1. Check for visible signs of damage (dents, cracks, deformation) of the interior trim on the collision side. 2. If damaged - REPLACE the damaged trim parts.
Door-mounted curtain air bag module LH	If the door-mounted curtain air bag module LH has been deployed: REPLACE the door finisher LH and door-mounted curtain air bag module. Install with new fasteners.
Door-mounted curtain air bag module RH	If the door-mounted curtain air bag module RH has been deployed: REPLACE the door finisher RH and door-mounted curtain air bag module. Install with new fasteners.
Occupant detection system (Passenger seat)	<ol style="list-style-type: none"> 1. Remove passenger seat assembly. 2. Check control unit case for dents, cracks or deformities. 3. Check connectors for damage and terminals for deformities. 4. Check seat frame and cushion pan for dents or deformities. 5. If no damage is found, reinstall seat with new fasteners. 6. If damaged - REPLACE the seat cushion assembly with new fasteners. 7. Perform zero point reset function after front passenger seat is installed in the vehicle and all bolts are tightened to specification. Refer to Work Procedure.
Pop-up roll bar assemblies	If the pop-up roll bar has deployed: REPLACE the pop-up roll bar assemblies and pop-up roll bar covers. Install with new fasteners.

FOR SIDE AND ROLLOVER COLLISION: When SRS is not activated in a collision

CAUTION:

Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.

WORK PROCEDURE

- 1 Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
- 2 Check the SRS components and the related parts using the following table.
 - If the front seatback assembly is damaged, the front seatback assembly must be replaced.
 - If the rear seatback assembly is damaged, the rear seatback assembly must be replaced.
 - If the door finisher assembly is damaged, the door finisher assembly and door-mounted curtain air bag module must be replaced.
- 3 Perform self-diagnosis using CONSULT and "AIR BAG" warning lamp. Refer to [DTCIndex](#). for details. Make sure entire SRS operates properly.
- 4 After the work is completed, check that no malfunction is detected by air bag warning lamp.

SRS INSPECTION (FOR SIDE AND ROLLOVER COLLISION)

Part	Inspection
Side curtain air bag module LH	If the side curtain air bag LH has not deployed: <ol style="list-style-type: none"> 1. Check for visible signs of damage (dents, tears, deformation) of the center pillar on the collision side. 2. If damaged - Remove the side curtain air bag module LH. 3. Check for visible signs of damage (tears etc.) of the side curtain air bag module LH. 4. Check harness and connectors for damage, and terminals for deformities. 5. If no damage is found, reinstall the side curtain air bag module LH with new fasteners. 6. If damaged - REPLACE the side curtain air bag module LH with new fasteners.
Side curtain air bag module RH	If the side curtain air bag RH has not deployed: <ol style="list-style-type: none"> 1. Check for visible signs of damage (dents, tears, deformation) of the center pillar on the collision side. 2. If damaged - Remove the side curtain air bag module RH.

Part	Inspection
	<ol style="list-style-type: none"> 3. Check for visible signs of damage (tears etc.) of the side curtain air bag module RH. 4. Check harness and connectors for damage, and terminals for deformities. 5. If no damage is found, reinstall the side curtain air bag module RH with new fasteners. 6. If damaged - REPLACE the side curtain air bag module RH with new fasteners.
Front side air bag module LH	<p>If the front side air bag LH has not deployed:</p> <ol style="list-style-type: none"> 1. Check for visible signs of damage (dents, tears, deformation) of the seatback on the collision side. 2. Check harness and connectors for damage, and terminals for deformities. 3. If damaged - REPLACE the front seatback assembly LH.
Front side air bag module RH	<p>If the front side air bag RH has not deployed:</p> <ol style="list-style-type: none"> 1. Check for visible signs of damage (dents, tears, deformation) of the seatback on the collision side. 2. Check harness and connectors for damage, and terminals for deformities. 3. If damaged - REPLACE the front seatback assembly RH.
Front center air bag module	<p>If the front center air bag has not deployed:</p> <ol style="list-style-type: none"> 1. Check for visible signs of damage (dents, tears, deformation) of the seatback on the collision side. 2. Check harness and connectors for damage, and terminals for deformities. 3. If damaged - REPLACE the front seatback assembly RH.
Rear side air bag module LH	<p>If the rear side air bag LH has not deployed:</p> <ol style="list-style-type: none"> 1. Check for visible signs of damage (dents, tears, deformation) of the seatback on the collision side. 2. Check harness and connectors for damage, and terminals for deformities. 3. If damaged - REPLACE the rear seatback assembly.
Rear side air bag module RH	<p>If the rear side air bag RH has not deployed:</p> <ol style="list-style-type: none"> 1. Check for visible signs of damage (dents, tears, deformation) of the seatback on the collision side. 2. Check harness and connectors for damage, and terminals for deformities. 3. If damaged - REPLACE the rear seatback assembly.

Part	Inspection
Side air bag (satellite) sensor (LH or RH)	<p>If none of the SRS components have been activated:</p> <ol style="list-style-type: none"> 1. Remove the side air bag (satellite) sensor (LH or RH) on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding. 2. Check for visible signs of damage (dents, cracks, deformation) of the side air bag (satellite) sensor (LH or RH). 3. Install the side air bag (satellite) sensor (LH or RH) to check fit. 4. If no damage is found, reinstall the side air bag (satellite) sensor (LH or RH) with new fasteners. 5. If damaged - REPLACE the side air bag (satellite) sensor (LH or RH) with new fasteners.
Door (satellite) sensor (LH or RH)	<p>If none of the SRS components have been activated:</p> <ol style="list-style-type: none"> 1. Remove the door (satellite) sensor (LH or RH) on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding. 2. Check for visible signs of damage (dents, cracks, deformation) of the door (satellite) sensor (LH or RH). 3. Install the door (satellite) sensor (LH or RH) to check fit. 4. If no damage is found, reinstall the door (satellite) sensor (LH or RH) with new fasteners. 5. If damaged - REPLACE the door (satellite) sensor (LH or RH) with new fasteners.
Diagnosis sensor unit	<p>If none of the SRS components have been activated:</p> <ol style="list-style-type: none"> 1. Check case and bracket for dents, cracks or deformities. 2. Check connectors for damage, and terminals for deformities. 3. If no damage is found, reinstall the diagnosis sensor unit with new fasteners. 4. If damaged - REPLACE the diagnosis sensor unit with new fasteners.
<p>Seat belt pre-tensioner assemblies</p> <p>(All applicable locations: buckle, retractor, lap outer)</p>	<p>If the pre-tensioners have not been activated:</p> <ol style="list-style-type: none"> 1. Remove seat belt pre-tensioners. <ul style="list-style-type: none"> Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Check belts for damage and anchors for loose mounting. 3. Check retractor for smooth operation. 4. Check seat belt adjuster for damage. 5. Check for deformities of the center pillar inner. 6. If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly.