

# SECTION : 9K

## SQUEAKS AND RATTLES

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### DIAGNOSIS

#### SQUEAK AND RATTLE DIAGNOSIS

##### Rattle Coming From the Side Rail

Checks	Action
Check the brake lines.	<ul style="list-style-type: none"><li>• Tap lightly on the brake lines and listen for a rattle.</li><li>• Install plastic tie straps to secure the brake lines tightly together.</li></ul>

##### Rattle Under Vehicle at Higher RPM

Checks	Action
Check for heat shield contact with the underbody.	<ul style="list-style-type: none"><li>• Raise the vehicle and perform a visual inspection.</li><li>• Bend the heat shield slightly to gain clearance from the underbody.</li></ul>

##### Squeak From the Front of the Vehicle in Cold Weather

Checks	Action
Check the front stabilizer shaft insulators.	<ul style="list-style-type: none"><li>• While the vehicle is cold, perform a test drive and achieve full front suspension travel by driving through a dip in the road.</li><li>• Remove the insulators and wrap teflon tape around the stabilizer shaft. Reinstall the insulators over the tape.</li></ul>

##### Thump From Rear of Vehicle on Bumps

Checks	Action
Check for a properly secured spare tire in the rear compartment.	<ul style="list-style-type: none"><li>• Open the rear compartment and perform a visual inspection of the spare tire and the tools.</li><li>• Tightly secure the spare tire and all tools.</li><li>• Perform a road test to verify that the noise is eliminated.</li></ul>

### Glass Knock Coming From the Rear of the Vehicle When Driving Over Bumps

Checks	Action
Check for an out-of-adjustment hatchback latch.	<ul style="list-style-type: none"> <li>• Test drive the vehicle in order to verify this condition.</li> <li>• Loosen the latch nuts and adjust the latch downward.</li> </ul>

### Rattle Coming From Door

Checks	Action
Check the door lock solenoid.	<ul style="list-style-type: none"> <li>• Remove the door trim panel and check if the solenoid is loose.</li> <li>• Tighten the solenoid bolts.</li> </ul>
Check for rattling electrical connectors inside the door trim panel.	<ul style="list-style-type: none"> <li>• Tap on the trim panel and listen for a rattle.</li> <li>• Remove the trim panel and wrap foam padding around the connectors as required.</li> </ul>

### Squeak When Operating Doors

Checks	Action
Check for a lack of lubrication of the door hinge pins.	<ul style="list-style-type: none"> <li>• Operate the doors and listen for squeaks.</li> <li>• Lubricate the door hinge pins with light oil and coat with lithium grease.</li> </ul>

### Squeak Coming From Console When Shifting Manual Transaxle

(Condition Occurs In Cold Weather with a Cold Engine)

Checks	Action
Check the manual transaxle control lever lower boot.	<ul style="list-style-type: none"> <li>• Move the control lever between gears and listen for squeaks.</li> <li>• Remove the floor console and replace the lower shift boot or apply talcum powder to the lower shift boot.</li> </ul>

### Buzz From the Left Side of Instrument Panel

Checks	Action
Check for vibration of the fuse box cover against the instrument panel side trim.	<ul style="list-style-type: none"> <li>• Tap on the cover with a finger and listen for a buzz.</li> <li>• Apply 6.35 mm (0.250 inch) by 25.4 mm (1.00 inch) felt pads to the side trim where the cover makes contact.</li> </ul>

### Squeak Coming From Instrument Cluster Trim Plate

Checks	Action
Check for rubbing of the cluster trim plate on the instrument panel.	<ul style="list-style-type: none"> <li>• Test drive the vehicle in order to verify this condition.</li> <li>• Remove the instrument cluster trim plate and install felt tape to the edges.</li> </ul>

# **MAINTENANCE AND REPAIR**

## **ON-VEHICLE SERVICE**

### **SQUEAK AND RATTLE REPAIR**

Squeaks and rattles are caused by the unwanted movement between parts of a vehicle. There are three means to prevent squeaks or rattles.

- Attach the parts securely so that there is no relative motion during the operation of the vehicle.
- Separate the parts so that there is no contact during operation.
- Insulate the parts so that no squeaks or rattles occur with the movement of the parts. Low uniform friction surfaces can be used to eliminate "stick-slip" motion.