

SECTION 9K

SQUEAKS AND RATTLES

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DIAGNOSTIC INFORMATION AND PROCEDURES

SQUEAK AND RATTLE DIAGNOSIS

Condition	Probable Cause	Correction
Rattle Coming From the Side Rail	<ul style="list-style-type: none"> ● Improperly connected brake lines. 	<ul style="list-style-type: none"> ● Tap lightly on the brake lines and listen for a rattle. ● Install plastic tie straps to secure the brake lines tightly together.
Rattle Under Vehicle at Higher RPM	<ul style="list-style-type: none"> ● The heat shield contacts with the underbody. 	<ul style="list-style-type: none"> ● Raise the vehicle and perform a visual inspection. ● Bend the heat shield slightly to gain clearance from the underbody.
Squeak From the Front of the Vehicle in Cold Weather	<ul style="list-style-type: none"> ● Poor front stabilizer shaft insulators taping. 	<ul style="list-style-type: none"> ● While the vehicle is cold, perform a test drive and achieve full front suspension travel by driving through a dip in the road. ● Remove the insulators and wrap teflon tape around the stabilizer shaft. Reinstall the insulators over the tape.
Thump From Rear of Vehicle on Bumps	<ul style="list-style-type: none"> ● Improperly secured spare tire in the rear compartment. 	<ul style="list-style-type: none"> ● Open the rear compartment and perform a visual inspection of the spare tire and the tools. ● Tightly secure the spare tire and all tools. ● Perform a road test to verify that the noise is eliminated.
Glass Knock Coming From the Rear of the Vehicle When Driving Over Bumps	<ul style="list-style-type: none"> ● An out-of-adjustment hatchback latch. 	<ul style="list-style-type: none"> ● Test drive the vehicle in order to verify this condition. ● Loosen the latch nuts and adjust the latch downward.
Rattle Coming From Door	<ul style="list-style-type: none"> ● The door lock solenoid is loose. 	<ul style="list-style-type: none"> ● Remove the door trim panel and check if the solenoid is loose. ● Tighten the solenoid bolts.
	<ul style="list-style-type: none"> ● Rattling electrical connectors inside the door trim panel. 	<ul style="list-style-type: none"> ● Tap on the trim panel and listen for a rattle. ● Remove the trim panel and wrap foam padding around the connectors as required.
Squeak When Operating Doors	<ul style="list-style-type: none"> ● A lack of lubrication of the door hinge pins. 	<ul style="list-style-type: none"> ● Operate the doors and listen for squeaks. ● Lubricate the door hinge pins with light oil and coat with lithium grease.
	<ul style="list-style-type: none"> ● A lack of lubrication of the door hold open link arm. 	<ul style="list-style-type: none"> ● Lubricate the door hold open link arm with light oil and coat with lithium grease.

SQUEAK AND RATTLE DIAGNOSIS (Cont'd)

Condition	Probable Cause	Correction
Squeak Coming From Console When Shifting Manual Transaxle (Condition Occurs In Cold Weather with a Cold Engine)	<ul style="list-style-type: none">• The faulty manual transaxle control lever lower boot.	<ul style="list-style-type: none">• Move the control lever between gears and listen for squeaks.• Remove the floor console and replace the lower shift boot or apply talcum powder to the lower shift boot.
Squeak Coming From Instrument Cluster Trim Plate	<ul style="list-style-type: none">• Rubbing of the cluster trim plate on the instrument panel.	<ul style="list-style-type: none">• Test drive the vehicle in order to verify this condition.• Remove the instrument cluster trim plate and install felt tape to the edges.

REPAIR INSTRUCTIONS

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.