NO DETECTION SOUND/LOW VOLUME [PARKING SENSOR]

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Note
- If there is any vehicle malfunction complaint lodged by a customer, perform FOREWORD [PARKING SENSOR] malfunction diagnosis according to the troubleshooting procedure.

Description
- Buzzer does not sound (parking sensor indicator illumination is normal) after turning the parking sensor switch/ indicator on.
- The volume of the detection sound from the buzzer decreases.

Possible malfunction
- Volume adjustment of buzzer is at minimum
- Buzzer circuit malfunction

  Front
  - — Open or short circuit in wiring harness between parking sensor control module terminal Y and front parking sensor buzzer terminal B
  - — Open circuit in wiring harness between parking sensor control module terminal Z and front parking sensor buzzer terminal A

  Rear
  - — Open or short circuit in wiring harness between parking sensor control module terminal W and rear parking sensor buzzer terminal B
  - — Open circuit in wiring harness between parking sensor control module terminal X and rear parking sensor buzzer terminal A
- Parking sensor buzzer malfunction
- Parking sensor control module malfunction

Diagnostic Procedure

Step	Inspection		Action
1	**ADJUST BUZZER VOLUME** • Adjust the buzzer volume. (See BEEP SOUND ADJUSTMENT.) • Was the malfunction corrected?	Yes	Inspection completed (buzzer volume adjustment malfunction).
		No	Go to the next step.
2	**INSPECT WIRING HARNESS BETWEEN PARKING SENSOR CONTROL MODULE AND PARKING SENSOR BUZZER FOR OPEN CIRCUIT** • Switch the ignition off (LOCK). • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the connectors of the parking sensor buzzer and parking sensor control module. • Inspect for continuity between the following wiring harnesses: **Front** — Parking sensor control module terminal Y and front parking sensor buzzer terminal B — Parking sensor control module terminal Z and front parking sensor buzzer terminal A **Rear** — Parking sensor control module terminal W and rear parking sensor buzzer terminal B — Parking sensor control module terminal X and rear parking sensor buzzer terminal A • Is there continuity?	Yes	Go to the next step.
		No	Repair for an open circuit in the wiring harness.

Step	Inspection		Action
3	**INSPECT WIRING HARNESS BETWEEN PARKING SENSOR CONTROL MODULE AND PARKING SENSOR BUZZER FOR SHORT TO GROUND** • Inspect for continuity between the following wiring harnesses: **Front** — Parking sensor control module terminal Y and front parking sensor buzzer terminal B **Rear** — Parking sensor control module terminal W and rear parking sensor buzzer terminal B • Is there continuity?	Yes	Repair or replace the wiring harness.
		No	Go to the next step.
4	**DETERMINE IF MALFUNCTION CAUSE IS PARKING SENSOR BUZZER OR PARKING SENSOR CONTROL MODULE** • Inspect the parking sensor buzzer. (See FRONT PARKING SENSOR BUZZER INSPECTION.) (See REAR PARKING SENSOR BUZZER INSPECTION.) • Is the parking sensor buzzer normal?	Yes	Replace the parking sensor control module. (See PARKING SENSOR CONTROL MODULE REMOVAL/INSTALLATION.)
		No	Replace the parking sensor buzzer. (See FRONT PARKING SENSOR BUZZER REMOVAL/INSTALLATION.) (See REAR PARKING SENSOR BUZZER REMOVAL/INSTALLATION.)