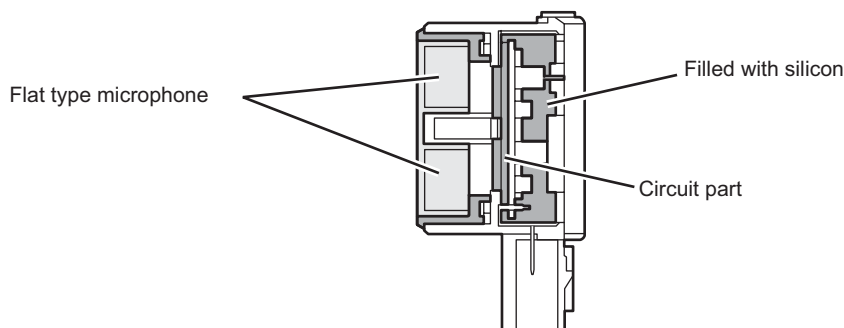
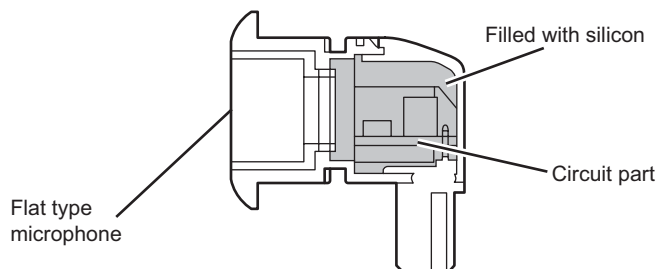


Ultrasonic Sensor

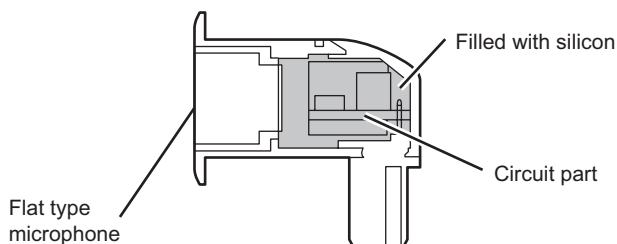
- An individual sensor has built-in circuits to perform amplification, reverberation adjustment, and sensitivity adjustment, in addition to a microphone to transmit and receive ultrasound waves. The circuits are protected with a waterproof construction filled with silicon. The front and front corner sensors use dual sonars in which two microphones are integrated, in order to expand the obstacle detection areas.
- The microphone is a flat type that does not have a depression at its tip. It is painted the same color as the outer panels to ensure the proper appearance.
- The sensor has an integrated construction in which the connector is joined directly to the sensor unit. A retainer is used to mount the sensor to the bumper to ensure serviceability.



Front sensors and front corner sensors cross section



Back sensors cross section



Rear corner sensors cross section

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Clearance Warning ECU

- The clearance warning ECU is mounted on the right side of the Gateway ECU in the instrument panel on the front passenger side.
- The clearance warning ECU contains circuits to control the entire system, including the switching of the transmission and reception of the ultrasound waves, processing the received waves, determining the presence of obstacles, determining a sensor failure, controlling the actuation of the indicator lights and buzzer, and sensor open circuit.