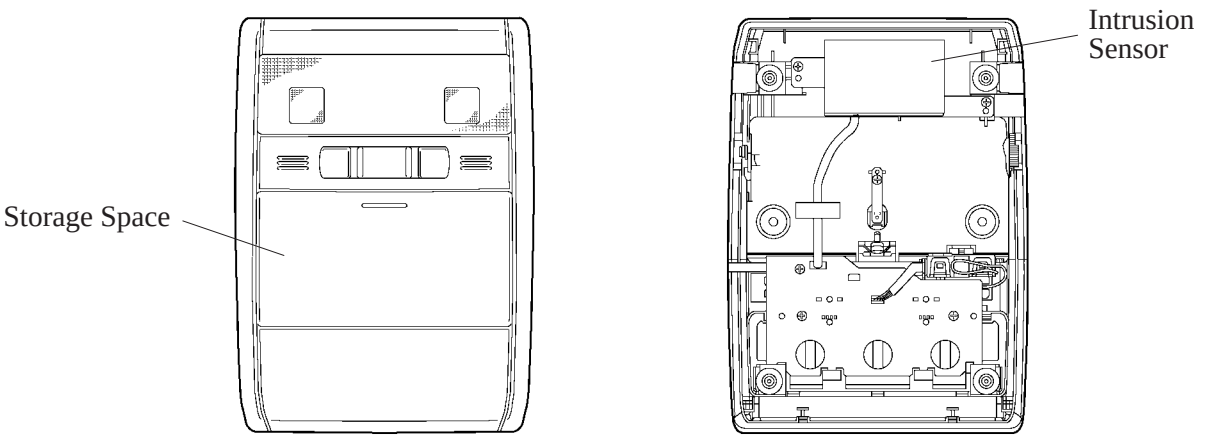
■CONSTRUCTION AND OPERATION

1. Intrusion Sensor

General

- An intrusion sensor is provided in the front interior light located in the overhead console.
- The intrusion sensor detects any intrusion into the vehicle interior and transmits a warning signal to the theft deterrent ECU.
- This sensor transmits radiowaves at 2.45 GHz in the vehicle interior. When an intruding object moves, it disrupts the reflection of the radiowaves, and the sensor detects the resulting changes in the phase of the radiowaves.



Overhead Console **Cross Section** 256BE27

NOTE: The operating frequency of the intrusion sensor (2.45 GHz) is close to the operating frequency of the Bluetooth-compatible devices (2.4 GHz). Therefore, if the theft deterrent system is activated (in the armed preparation state) with a Bluetooth-compatible cellular telephone placed in the overhead console storage space, it could inadvertently trip the intrusion sensor. Therefore, do not leave a Bluetooth-compatible cellular telephone in the overhead console storage space.

Operation

- The theft deterrent ECU activates the intrusion sensor when the system changes from the armed preparation state to the armed state. If an intrusion detection signal is input from the intrusion sensor during the armed state, the ECU changes to the alarm state in order to output an alarm.
- When the system is in the disarmed state, the function of the intrusion sensor can be disabled by pressing the intrusion sensor OFF switch. If the system changes to the armed state, the intrusion sensor will not activate. This function is canceled each time all doors are unlocked with a transmitter or smart key system, and is reinstated when the intrusion sensor is ON.

2. Self-Power Siren

- A self-power siren is mounted on the rear quarter inner panel.
- During a normal operation, this siren sounds an alarm in accordance with the operation signal from the theft deterrent ECU. Because this siren has an internal battery, it can independently sound an alarm even if the vehicle's battery terminals are disconnected or if the wiring harnesses that are related to the system are cut.