

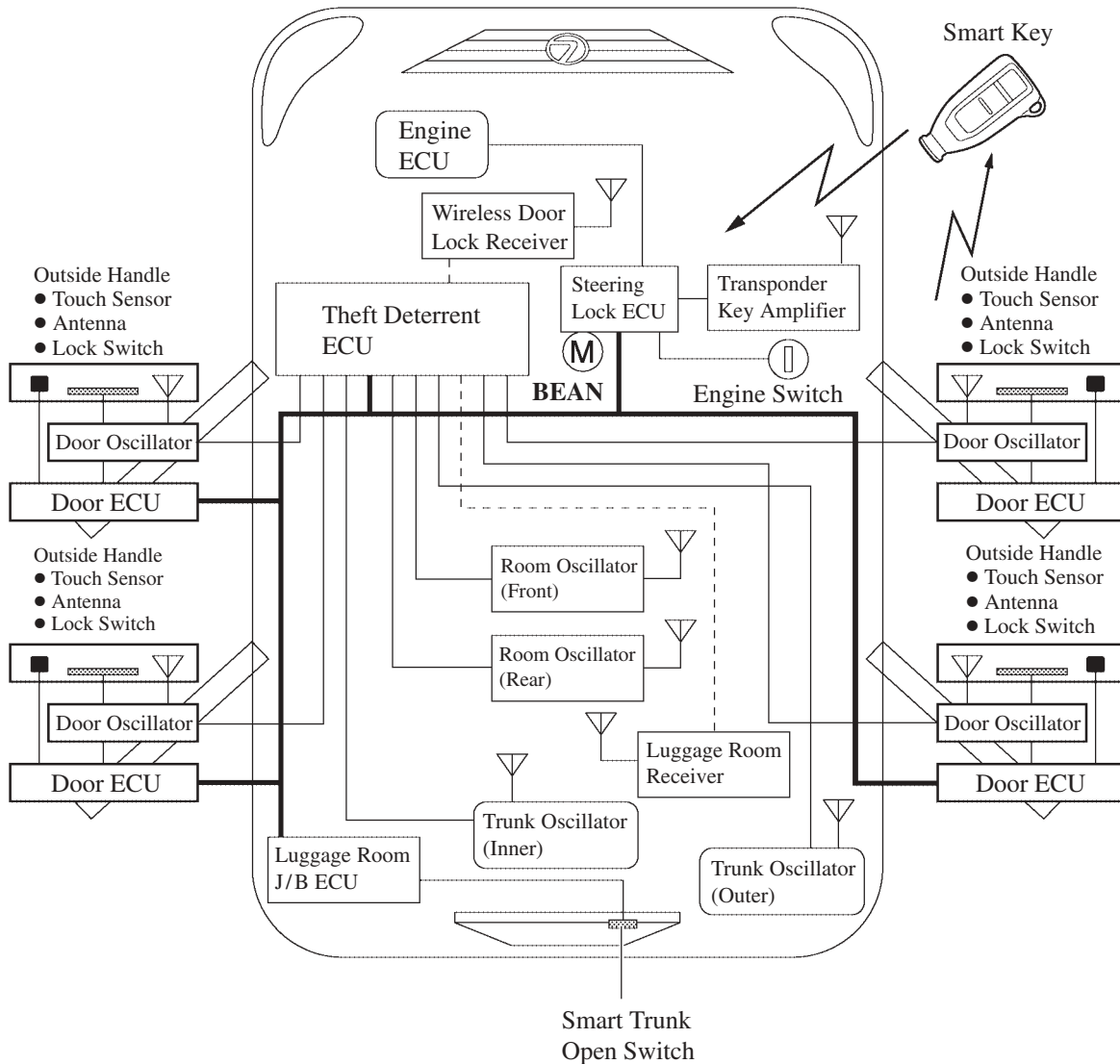
SMART KEY SYSTEM

1. General

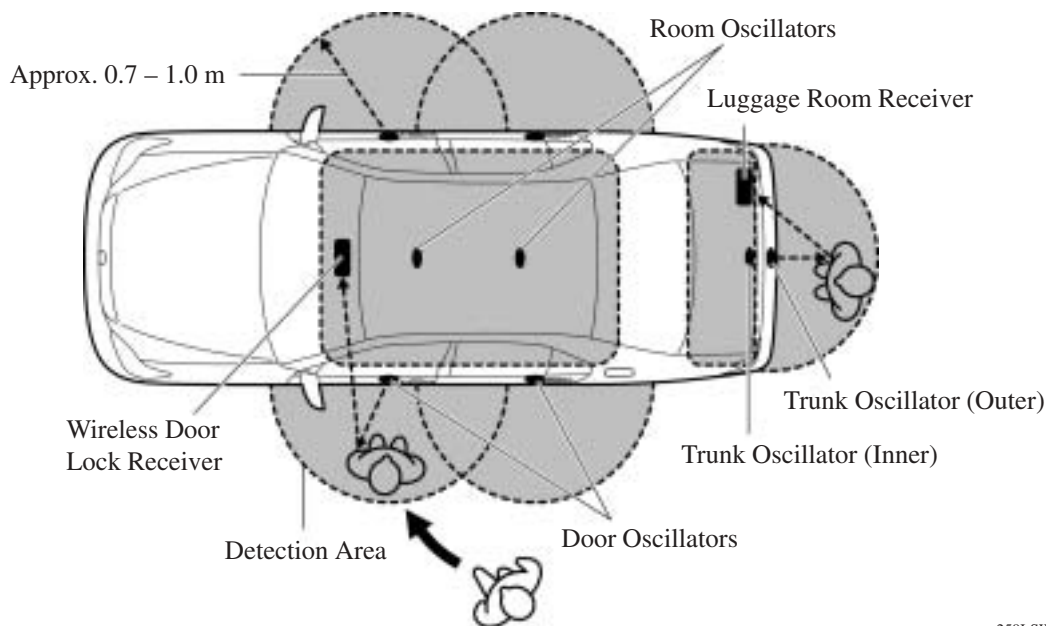
In addition to the conventional mechanical key and wireless door lock remote control functions, the smart system enables door locking/unlocking, steering lock releasing, engine starting, and trunk opening without actually operating the key, provided that the key is in the user's possession.

- This system is controlled by the theft deterrent ECU. When the theft deterrent ECU detects the presence of the smart key in the detection area, it identifies and checks the ID code, and outputs operation signals to the ECUs in accordance with their functions.
- The detection area is formed by eight oscillators (four door oscillators, two trunk oscillators, and two room oscillators).
- Smart function is only available for a master key and is not available for the sub key.

► System Diagram ◀



► Detection Area ◀



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2. Feature of Smart Key System

Compared to the conventional key, the smart key system provides the following features.

Condition	Description		Feature
General	User has many keys.	Smart Key	There is no need to select the key because it suffices to merely have it in one's possession.
		Conventional Key	User must pull out the keys and select the appropriate key.
Unlock	User is about to enter the vehicle with a handful of luggage.	Smart Key	A door can be unlocked by merely touching its outside handle.
		Conventional Key	User must first set the luggage down in order to hold the key.
	User with the key in a briefcase is about to enter the vehicle.	Smart Key	A door can be unlocked by merely touching its outside handle inside.
		Conventional Key	User must look for the key before entering the vehicle. This is particularly inconvenient if it is dark outside or raining.
Lock	User is about to exit the vehicle with a handful of luggage.	Smart Key	A door can be locked by merely pressing the lock switch on the outside handle, without the use of a key.
		Conventional Key	User must hold the key while also holding the luggage, making it cumbersome to handle the key.
Engine Start	When ignition switch or starter switch is ON, or OFF.	Smart Key	There is no need to hold the key in one's hand.
		Conventional Key	User must hold the key and insert it into the key cylinder.

(Continued)