February 19, 2013



# **Smart Key Specifications**

Service

Category Vel

Vehicle Interior

**Section** 

Theft Deterrent/Keyless Entry

Market USA



### **Applicability**

YEAR(S)	MODEL(S) ADDITIONAL INFORMATION				
2013	iQ EV				
2011 – 2013	tC				

#### Introduction

Some customers may inquire about the frequency and power output of the Smart Key/Smart Entry systems used on various models. The Smart Key/Smart Entry systems conform to all applicable FCC rules. This bulletin details the applicable specifications for these systems.

#### CAUTION

Implanted pacemakers, cardiac defibrillators, or other electrical medical devices may be affected by radio waves emitted by the Smart Key/Smart Entry Antenna (in detection area). Customers with concerns about these systems and their effects on implanted electronic medical devices should consult their physician or the device manufacturer. This information is also included in the Owner's Manual for each applicable model.

If necessary, details on disabling the Smart Key/Smart Entry functions can be found in the appropriate vehicle Repair Manual. Refer to the Technical Information System (TIS) for additional details.

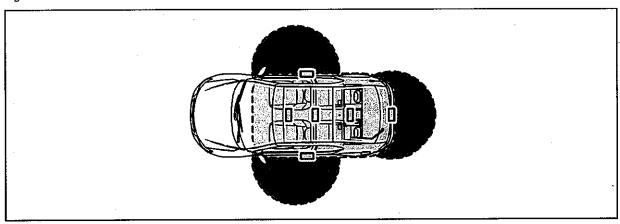
#### **Warranty Information**

OP CODE	ODE DESCRIPTION		OFP	T1	T2
N/A	Not Applicable to Warranty	_	_	_	_

## **Smart Key Specifications**

### **Smart Key Detection Area**

Figure 1.



### Specifications: Smart Key Antenna (Communication from Vehicle to Key)

- Frequency: 134.2 kHz
- Power Output: 95dB  $\mu$ V/m (3 meters away from the Smart Key Antenna)
- · Smart Antenna RF Output Power:

S-SB-0009-13

SPECIFICATION				
LOCATION	FREQUENCY	OUTPUT POWER/ ELECTRIC FIELD INTENSITY	MODULATION METHOD	MOUNTING POINT
Inside Passenger Compartment			АМ	Differs in each vehicle; consult the relevant Repair Manual for each vehicle
Inside Trunk	134.2 kHz	95dB μV/m @3 m		Inside Trunk
Outside Vehicle				Inside Door Handle or Inside Rear Bumper



# **Smart Key Specifications**

Specifications: Smart Key Antenna (Communication from Vehicle to Key) (Continued)

TRANSMIT TIMING					
LOCATION	VEHICLE PARKED	ENTERING OR EXITING VEHICLE	VEHICLE IS BEING DRIVEN		
Inside Passenger Compartment	Does NOT Transmit	<ul> <li>Operating door locks</li> <li>Operating engine switch/depressing brake pedal</li> <li>Opening or closing doors</li> <li>With "IG-ON" or "ACC-ON", and in the P-range, closing door when the key cannot be detected inside the vehicle (continues for 3 seconds until the key is detected or the power switch is turned OFF), A/T vehicles ONLY</li> <li>"IG-OFF" after driving more than 20 minutes</li> <li>(Not in P-range) when shutting door, if the key cannot be detected inside the vehicle (transmits for 3 seconds until the key is</li> </ul>	When key is NOT detected inside passenger compartment while car is being driven (transmits for 3 seconds)		
		located), A/T vehicles ONLY  During the following operations:			
Inside Trunk (ONLY in Vehicles		Door lock is operated/trunk switch is depressed			
w/Trunk)		Closing the trunk     Opening or closing doors			
Outside Vehicle	When door is locked, transmits at 250 ms intervals (stops when door is unlocked)     Does NOT transmit	Operating door locks     Trunk or back door open switch is depressed	Does NOT Transmit		



## **Smart Key Specifications**

Specifications: Smart Key Transmitter/Wireless Remote (Communication from Key to Vehicle)

- 1. Frequency: 312.15 MHz 314.35 MHz
- 2. Power Output: 75dB  $\mu$ V/m (3 meters away from the Smart Key Antenna)
- 3. Modulation Type: FM