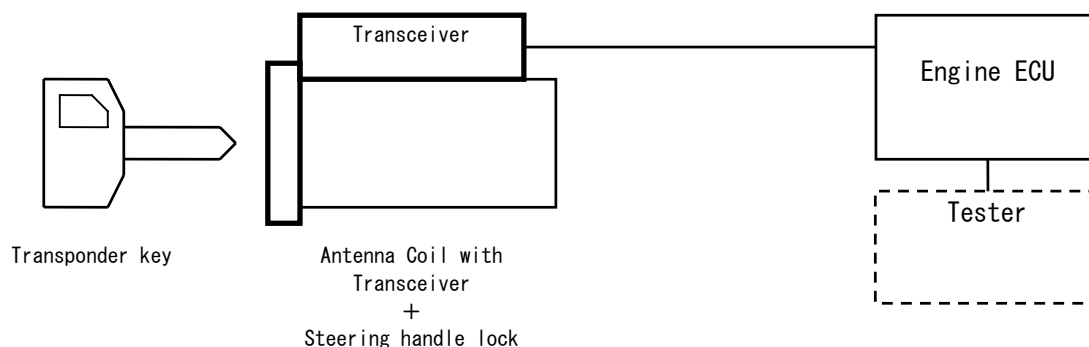


1. General

The immobilizer system is an electronic anti-theft system. This system prevents the engine from unauthorized starting such as hot-wiring, etc. The engine would not start until the ID code registered in the ignition key coincides with the code registered in the Engine Unit on the vehicle.



(NOTE) The Tester is only used for performing the transponder ID code registration to the Engine ECU.

Major components and functions

Name	Function
Transponder	<ul style="list-style-type: none"> • Sends ID code to the Transceiver via key ring antenna.
Antenna Coil with Transceiver	<p>[Key ring antenna]</p> <ul style="list-style-type: none"> • Supplies power and sends / receives data to and from the transponder by means of electromagnetic coupling. <p>[Transceiver]</p> <ul style="list-style-type: none"> • Receives the ID code from the transponder and Send it to the Engine ECU.
Engine ECU	<p>[Functions related to the immobilizer system]</p> <ul style="list-style-type: none"> • Receives the ID code from the Transceiver and compares it with the code registered in the Engine ECU and operates to prepare / prohibit the start of the engine.

Handling precaution

- (1) When starting the engine, keep metal objects (iron, etc.), electric equipment (cellular phone, electric razor, etc.) and other immobilizer keys away from the steering handle lock.
- (2) Never damage the plastic key bow with a knife or fill transponder or similar articles inside.

2. System operation

(1) Operation start

When the ignition key is turned to the ON position, battery power is supplied to the Engine ECU and Transceiver.

(2) Sending to the transponder (the Engine ECU to Transponder)

The Engine ECU sends electromagnetic wave to the transponder via key ring antenna and Transceiver to supply power and send the data to the transponder by means of electromagnetic coupling.

(3) Sending ID code (Transponder to the Engine ECU through the Transceiver)

The transponder sends the ID code to the Engine ECU via the key ring antenna and the Transceiver.

(4) Comparison of ID code

The ID code sent from the transponder is compared with the ID code registered in the Engine ECU.

(5) Engine start

When the comparison result of ID code is coincident, turning the ignition key to the START position can start the Engine.

Note:

- (1) Transponder ID code registration to the Engine ECU is performed using the Tester. The transponder key has individual ID code and a maximum of 8 types of codes (8 keys) can be registered to the Engine ECU.

(U.S.A.)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

(CANADA)

This device complies with RSS-210 of Industry CANADA. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.