DI613-01

# PRE-CHECK

# 1. OUT LINE OF THEFT DETERRENT SYSTEM

When the theft deterrent system detects any theft, it informs people around with flashing lights and sound.

The performance of the theft deterrent system has been improved by adding the lights (HAZARDS) to the existing system(for EUROPE model).

There are 2 modes in this system, which are active mode and passive mode.

**Except Europe Models:** 

All initial setting are performed in active mode. It can be switched to passive mode.

#### 2. PARTIAL CHANGE OF SYSTEM SETTING METHOD

There are 4 conditions in this system which are disarmed state, arming preparation, armed state and alarm sounding.

- Disarmed state
  - When the alarming function does not operate
  - When theft deterrent function is not performed.
- (2) Arming preparation
  - Time until transferring to armed state.
  - Theft deterrent function is not performed.
- (3) Armed state

When theft deterrent function is possible.

(4) Alarm sounding:

In this condition, once theft is detected, it is informed using light and sound to people around the vehicle.

Refer to the table for alarming method or time.

Alarming method	Horn	Europe, Australia
	Security horn	
	Headlight	Australia
	Taillight	Australia
	Hazard	Europe, Australia
Alarming time	30 seconds	
	(Except hazard flashing)	
Alarming output	Continuous 0.25 secs.: (ON)	
	0.25 secs.: (OFF)	

## HINT:

Alarming output for hazard is same as the one for the hazard on the vehicle.

In the arming condition when either of doors is unlocked with key not in the key cylinder, force lock signal is output.

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#### 3. ACTIVE ARMING MODE

# **Disarmed state** (Key not inserted in ignition.) Perform any of the following and the system will go no to "Arming preparation": • With all doors, engine hood, and luggage compartment door closed, lock all doors with the wireless remote. • Close the luggage compartment door only if the luggage was opened by wireless operation when all the doors were closed. OTHER THAN EUROPE • With all the doors, engine hood and luggage compartment door closed, lock all Temporary release doors with the key. from armed state • With all the doors, engine hood and luggage compartment door closed, lock all doors with the wireless remote. • With all the doors, engine hood and luggage compartment door closed, open and close any of doors, engine hood or luggage compartment door, then close and lock all doors, engine hood and luggage compartment door. В **Arming preparation** Perform any of the following and the system Perform the following and the system will will return to "Disarmed state": go on to "Armed state": • Let 30 seconds elapse with all the doors, • Open any of the doors, engine hood or Α luggage compartment door. engine hood and luggage compartment • Unlock any of the doors. door closed and locked. • Put the key in the ignition. • Reconnect the battery. • Turn the ignition from OFF to ON. When there is wireless luggage compartment door open input. When there is luggage key unlock input. continued continued on nect page continued from previous page from previous

## **Armed state**

Perform any of the following and the system will return to "Disarmed state":

#### **EUROPE**

- Unlock any of the doors or open the luggage compartment door with the wireless remote.
- Run the engine at 550 rpm for more than 10 seconds.

#### OTHER THAN EUROPE

- Unlock any of the doors or open the luggage compartment door with the wireless remote.
- Unlock the doors or open the luggage compartment door with the kev.
- Put the key in the ignition and turn it to ON.
- Run the engine at 550 rpm for more than 10 seconds.

Perform any of the following and the system will go on to "Alarm sounding":

#### **EUROPE**

- Open any of the doors.
- Unlock any of the doors with anything other than the wireless remote.
- Open the luggage compartment door with anything other than the wireless remote.
- Open the engine hood.
- Reconnect the battery.
- Turn the ignition from OFF to ON.
- When the radar sensor detects any movement inside the vehicle.
- Battery terminal short.
- Between theft deterrent ECU and siren wire harness short. OTHER THAN EUROPE
- Open any of the doors.
- Unlock any of the doors in any way other than with a key or the wireless remote.
- Open the luggage compartment door in any way other than with a key or the wireless remote.
- Open the engine hood.
- Reconnect the battery.
- Turn the ignition from OFF to ON.
- When the radar sensor detects any movement inside the vehicle.
- Battery terminal short.
- Between theft deterrent ECU and siren wire harness short.

#### Alarm sounding

Perform any of the following and the system will return to "Disarmed state":

#### **EUROPE**

- Unlock any of the doors or luggage compart ment door open signal input with the wireless remote.
- Run the engine at 550 rpm for more than 10 seconds.

## OTHER THAN EUROPE

- Unlock any of the doors or luggage key unlock switch input with the wireless remote.
- Unlock the doors or open the luggage compartment door with the key.
- Put the key in the ignition and turn it to ON.
- Run the engine at 550 rpm for more than 10 seconds.

#### **EUROPE**

The security horn sounds and hazard lights flash for 30 seconds.

#### OTHER THAN EUROPE

The vehicle's horn and security horn will sound, and the hazard, Tail and Head lights flash for 30

seconds

After the alarm has ended, the system will return to "Armed state".

A: Luggage compartment door is opened by wireless.

B: Luggage compartment door is closed.

A

Α

## (a) Indicator light output:

Condition		Output by alarm system	Output by immobilizer	Output by checking visually
Disarming	•	Goes off	Goes off	Goes off
condition	Without key		Blinks	Blinks
Disarming p	oreparation	Lights up	Blinks	Lights up
Arming cor	ndition	Goes off	Blinks	Blinks
Alarming co	ondition	Lights up	Blinks	Lights up

## HINT:

The indicator light might blink even under the disarming condition. (This is caused by output from the immobilizer)

The indicator always blink by output from the immobilizer at any time under the arming condition.

Blinking frequency 0.75 (S): ON 1.25 (S): OFF

# (b) Answer back and ON/OFF function of radar sensor: HINT:

Radar sensor si switched ON/OFF while synchronizing with a change in set/un-set condition of the alarm system described below. It is also switched ON/OFF by the method described in (2).

(1) Radar sensor operation condition:

Sensor operation starts:	When the condition for arming preparation condition is met.
Sensor operation stops:	When the condition is transformed to the disarming condition.

- (2) Radar sensor ON/OFF switching function: Every time the button of the wireless door lock system is pressed under the arming preparation condition, sensor is switched ON/OFF.
- (3) Answer back: When the sensor is switched OFF, hazard warning light blinks 5 times as "Answer back". When the sensor is switched ON, the hazard warning light blinks once in the same manner as a normal answer back of the wireless door lock system.
- (c) Compulsion door lock function.
  - (1) This is a control function to lock a door forcibly to prevent someone from invading in the vehicle when the inner door lock knob is unlocked under the arming condition, that is, when the alarming starts. In Europe, when a door is locked with a key the alarm sounds, however doors are not locked forcibly.
  - (2) The setting specifications of the compulsion door lock function change as follows according to whether the double lock system is available or not.

Destination		Double lock	Compulsion door lock
Europe	RHD	0	X
		X	0
	LHD	X	0
Australia / General countries		X	0

## 4. PASSIVE ARMING MODE (Except Europe Models)

- This mode can be switched according to the specified operation.
- All initially set modes (when shipped from factory) are active mode. (No passive mode)

### Disarmed state (A)

Perform any of the following and the system will go to Disarmed state (B):

Remove the key from the ignition, close the driver's door, then the ignition OFF.

## Disarmed state (B)

Perform any of the following and the system will return to Disarmed state (A):

- Push the unlock switch on the wireless remote.
- Put the key in the lock on the driver's or the passenger door and turn it towards unlock.
- Put the key in the ignition.
- Reconnect the battery.
- Turn the ignition from OFF to ON.

Perform any of the following and the system will go to Arming preparation:

 Close all the doors, hood and luggage compartment door.

# **Arming preparation**

Perform any of the following and the system

will return to Disarmed state (B):

• Open any of the doors, the hood or the

luggage compartment door.

Perform any of the following and the system

will return to Disarmed state (A):

- Push the unlock switch on the wireless
  - remote.
- Put the key in the lock on the driver's or the

passenger door and turn it towards unlock.

- Put the key in the ignition.
- Reconnect the battery.
- Turn the ignition from OFF to ON.

Perform any of the following and the system

will go to Armed state:

• Allow 30 seconds to elapse with all the doors,

hood and luggage compartment door closed.

## **Armed state**

Perform any of the following and the system will return to Disarmed state (A):

- Push the unlock switch on the wireless remote.
- Put the key in the lock on the driver's or the passenger door and turn it towards unlock.
- Put the key in the ignition and turn it ON.
- Run the engine at 550 rpm or faster for more than 10 seconds.

Perform any of the following and the system will go on to Alarm sounding:

- Open any of the doors and allow the entry delay time to pass.
- Open the hood.
- Open the luggage compartment door with something other than the key or wireless remote.
- Reconnect the battery.

Perform any of the following and the system will return to Disarmed state (B):

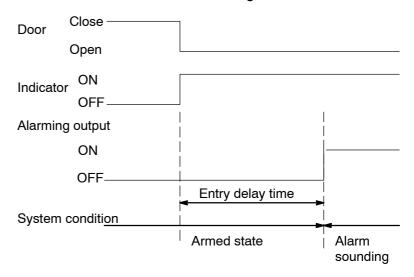
- Open the luggage compartment door with the wireless remote.
- Open the luggage compartment door with the Key.

#### HINT:

In armed state either closed door is opened, entry delay occurs. (15 secs.)

During this time, the mode transfers to disarmed state when the condition described above \* is met.

When the condition is not met, the system judges theft occurs, the mode transfers to alarm sounding.



# (a) Indiatcor light output

Condition		Output by alarm system	Output by immobilizer	Output by checking visually
Disarming	With Key	Goes off	Goes off	Goes off
condition	Without key		Blinks	Blinks
Disarming properties	oreparation	Lights up	Blinks	Lights up
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## HINT:

The indicator light might blink even under the disarming condition. (This is caused by output from the immobilizer)

The indicator always blink by output from the immobilizer at any time under the arming condition.

Blinking frequency 0.75 (S): ON 1.25 (S): OFF

# (b) Transfer to active mode:

In each passive mode, when "disarmed state of active mode → arming preparation transfer condition" is met, the active mode transfers to each condition. In this case, active mode continues till disarmed state.

Passive mode when transfer condition is met.	Active mode transfer condition
Disarmed state	Arming preparation condition
Arming preparation condition	Arming preparation condition
Armed state (During entry delay time)	Arming condition (After alarming time has elapsed, arming condition)
Alarm sounding	After alarming time has elapsed, arming condition