

## SYSTEM OUTLINE

- (1) The smart key system allows to lock/unlock the doors, start the engine, and open the trunk, just by carrying the key.
  - \* Smart unlock  
When the doors are locked, a detective barrier of 1.0m is made around each door of the vehicle. If a person approaches the vehicle with the smart key and enters the detective area, the ID code of the door transmitter and the key are verified automatically. If the ID matches, the door lock enters unlock standby mode, and the doors can be unlocked by touching the door handle.
  - \* Smart lock  
The system verifies the smart key ID code both inside and outside the vehicle when the lock SW of the door handle is pushed while all doors are closed. The doors will be unlocked if the ID code verification inside the vehicle is NG and outside the vehicle is OK.
  - \* Smart key ignition  
When the driver enters the vehicle with the smart key and pushes the engine SW (Unlock warning SW), the system verifies the ID code inside the vehicle. If the ID code matches, the smart key indicator in the instrument cluster flashes, the steering lock is released, and the engine enters stand-by mode.  
Unless the shift lever is placed in the P range when stopping the engine, the engine SW can not be turned from ACC to PUSH/LOCK position.
  - \* Smart trunk open  
When the trunk button of the smart key is pushed in front of the trunk, the ID code is verified, and if it matches, the trunk is opened automatically.
- (2) In case the battery of the smart key runs down, as traditional keys, the doors can be locked/unlocked by inserting the mechanical key in the door key cylinder, and the engine can be started/stopped by inserting the mechanical key in the engine SW.

## SERVICE HINTS

### D25 (B) DRIVER DOOR ECU

(B) 5-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position

(B) 4, (B) 6-GROUND : Always approx. 12 volts

(B) 1-GROUND : Always continuity

### F17 (B) FRONT PASSENGER DOOR ECU

(B) 5-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position

(B) 4, (B) 6-GROUND : Always approx. 12 volts

(B) 1-GROUND : Always continuity

### R15 (B) REAR DOOR LH ECU

(B) 26-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position

(B) 1, (B) 2-GROUND : Always approx. 12 volts

(B) 6-GROUND : Always continuity

### R16 (A) REAR DOOR RH ECU

(A) 26-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position

(A) 1, (A) 2-GROUND : Always approx. 12 volts

(A) 6, (A) 15-GROUND : Always continuity

### T5 THEFT DETERRENT ECU

24-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position

31-GROUND : Approx. 12 volts with ignition SW at **ON** or **ACC** position

1, 21-GROUND : Always approx. 12 volts

20-GROUND : Always continuity

# SMART KEY SYSTEM (RHD)

## ○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page			
D2	A	131 (RHD)	I19	135 (RHD)	L6	135 (RHD)		
D3	B	131 (RHD)	J7	128 (RHD)	L9	135 (RHD)		
D4	C	131 (RHD)	J8	128 (RHD)	L10	135 (RHD)		
D5	D	131 (RHD)	J11	A	131 (RHD)	L11	A	135 (RHD)
D12		134 (RHD)	J12	B	131 (RHD)	L13	C	135 (RHD)
D13		134 (RHD)	J13	A	131 (RHD)	O6		136 (RHD)
D14		134 (RHD)	J14	B	131 (RHD)	P13		136 (RHD)
D15		134 (RHD)	J15	A	131 (RHD)	R6		133 (RHD)
D16		134 (RHD)	J16	B	131 (RHD)	R7		133 (RHD)
D17		134 (RHD)	J22		135 (RHD)	R14	A	136 (RHD)
D20		134 (RHD)	J24		135 (RHD)	R15	B	136 (RHD)
D21		134 (RHD)	J25	A	135 (RHD)	R16	A	136 (RHD)
D22		134 (RHD)	J26	B	135 (RHD)	R17	B	136 (RHD)
D23		134 (RHD)	J27		135 (RHD)	R26		136 (RHD)
D24	A	134 (RHD)	J28	A	135 (RHD)	S15		133 (RHD)
D25	B	134 (RHD)	J29	B	135 (RHD)	S17		133 (RHD)
E8		126 (RHD)	J30		135 (RHD)	T1		129 (RHD)
F16	A	134 (RHD)	K1		128 (RHD)	T5		133 (RHD)
F17	B	134 (RHD)	K4		132 (RHD)	T16		137 (RHD)
G1		131 (RHD)	L1		132 (RHD)	U7		133 (RHD)
H15		127 (RHD)	L4		135 (RHD)			
H16		127 (RHD)	L5		135 (RHD)			

## ○ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	81	Engine Room No.1 R/B (Engine Compartment Left)
2	82	Engine Room No.2 R/B (Engine Compartment Left)
4	85 (RHD)	Fusible Link Block (Engine Compartment Left)

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	81	Engine Room Main Wire and Engine Room No.1 J/B (Engine Compartment Left)
4A	85 (RHD)	Engine Room Main Wire and Fusible Link Block (Engine Compartment Left)
4B		
DE	100 (RHD)	Instrument Panel Wire and Driver Side J/B (Right Kick Panel)
DF		
DG		
DI	101 (RHD)	Floor Wire and Driver Side J/B (Right Kick Panel)
LA	110	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LB		
LC		
LE		
LI	110	Luggage Room Wire and Luggage Room J/B (Luggage Room Left)
LL	110	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PE	105 (RHD)	Instrument Panel Wire and Passenger Side J/B (Left Kick Panel)
PF		
PG		
PI	107 (RHD)	Floor No.2 Wire and Passenger Side J/B (Left Kick Panel)
PJ		

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	154 (RHD)	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
IB1	154 (RHD)	Instrument Panel Wire and Roof Wire (Cowl Side Panel LH)
IB2		
IC4	154 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Cowl Side Panel LH)
ID3	154 (RHD)	Instrument Panel Wire and Floor No.2 Wire (Cowl Side Panel LH)
IE2	156 (RHD)	Engine Room Main Wire and Floor No.2 Wire (Left Kick Panel)
IG1	156 (RHD)	Instrument Panel Wire and Floor Wire (Cowl Side Panel RH)
IG2		
IH3	156 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Cowl Side Panel RH)
II1	156 (RHD)	Front Door RH Wire and Floor Wire (Right Kick Panel)
BA1	158 (RHD)	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BA2		
BB1	158 (RHD)	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BB2		
BC1	158 (RHD)	Floor No.2 Wire and Floor Wire (Rear Floor Partition Panel LH)
BE1	158 (RHD)	Floor No.2 Wire and Floor Wire (Lower Back Panel RH)

 : GROUND POINTS

Code	See Page	Ground Points Location
ED	152 (RHD)	Under the Fusible Link Block
IG	154 (RHD)	Cowl Side Panel LH
IH	154 (RHD)	Left Side of Shift Lever
II		
IK	154 (RHD)	Right Side of Instrument Panel
BL	158 (RHD)	Rear Floor Partition Panel LH
BM	158 (RHD)	Quarter Panel LH
BN	158 (RHD)	Rear Floor Partition Panel RH
BO	158 (RHD)	Quarter Panel RH

 : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I2	156 (RHD)	Instrument Panel Wire	B5	158 (RHD)	Floor Wire
B2	158 (RHD)	Roof Wire			