

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 (LHD)

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page			
D2	A	117 (LHD)	I19	121 (LHD)	L5	121 (LHD)		
D3	B	117 (LHD)	J7	114 (LHD)	L6	121 (LHD)		
D4	C	117 (LHD)	J11	A	117 (LHD)	L9	121 (LHD)	
D5	D	117 (LHD)	J12	B	117 (LHD)	L10	121 (LHD)	
D12		120 (LHD)	J13	A	117 (LHD)	L11	A	121 (LHD)
D13		120 (LHD)	J14	B	117 (LHD)	L13	C	121 (LHD)
D14		120 (LHD)	J15	A	117 (LHD)	O6		122 (LHD)
D15		120 (LHD)	J16	B	117 (LHD)	P13		122 (LHD)
D16		120 (LHD)	J17	A	117 (LHD)	R6		119 (LHD)
D18		120 (LHD)	J18	B	117 (LHD)	R7		119 (LHD)
D20		120 (LHD)	J22		121 (LHD)	R14	A	122 (LHD)
D21		120 (LHD)	J24		121 (LHD)	R15	B	122 (LHD)
D22		120 (LHD)	J25	A	121 (LHD)	R16	A	122 (LHD)
D23		120 (LHD)	J26	B	121 (LHD)	R17	B	122 (LHD)
D24	A	120 (LHD)	J27		121 (LHD)	R26		122 (LHD)
D25	B	120 (LHD)	J28	A	121 (LHD)	S15		119 (LHD)
E8		112 (LHD)	J29	B	121 (LHD)	S17		119 (LHD)
F16	A	120 (LHD)	J30		121 (LHD)	T1		115 (LHD)
F17	B	120 (LHD)	K1		114 (LHD)	T5		119 (LHD)
G1		117 (LHD)	K4		118 (LHD)	T16		123 (LHD)
H15		113 (LHD)	L1		118 (LHD)	U7		119 (LHD)
H16		113 (LHD)	L4		121 (LHD)			

○ : 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	84 (LHD)	Fusible Link Block (Engine Compartment Right)

○ : 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	84 (LHD)	Engine Room Main Wire and Fusible Link Block (Engine Compartment Right)
4B		
DE	87 (LHD)	Instrument Panel Wire and Driver Side J/B (Left Kick Panel)
DF		
DG		
DI	89 (LHD)	Floor No.2 Wire and Driver Side J/B (Left 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)
PC	93 (LHD)	Engine Room Main Wire and Passenger Side J/B (Right Kick Panel)
PE	94 (LHD)	Instrument Panel Wire and Passenger Side J/B (Right Kick Panel)
PF		
PG		
PI	95 (LHD)	Floor Wire and Passenger Side J/B (Right Kick Panel)
PJ		

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	142 (LHD)	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
IC1	142 (LHD)	Instrument Panel Wire and Floor No.2 Wire (Cowl Side Panel LH)
IC3		
IE1	142 (LHD)	Engine Room Main Wire and Floor No.2 Wire (Left Kick Panel)
IG2	144 (LHD)	Instrument Panel Wire and Floor Wire (Cowl Side Panel RH)
IH2	144 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Cowl Side Panel RH)
II1	144 (LHD)	Instrument Panel Wire and Roof Wire (Cowl Side Panel RH)
II2		
IJ1	144 (LHD)	Front Door RH Wire and Floor Wire (Right Kick Panel)
BA1	146 (LHD)	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BA2		
BB1	146 (LHD)	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BB2		
BC1	146 (LHD)	Floor No.2 Wire and Floor Wire (Rear Floor Partition Panel LH)
BE1	146 (LHD)	Floor No.2 Wire and Floor Wire (Lower Back Panel RH)

 : GROUND POINTS

Code	See Page	Ground Points Location
EC	140 (LHD)	Radiator Side Support LH
IG	142 (LHD)	Left Side of Instrument Panel
IH	142 (LHD)	Right Side of Shift Lever
II		
IK	142 (LHD)	Cowl Side Panel RH
BL	146 (LHD)	Rear Floor Partition Panel LH
BM	146 (LHD)	Quarter Panel LH
BN	146 (LHD)	Rear Floor Partition Panel RH
BO	146 (LHD)	Quarter Panel RH

 : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I6	144 (LHD)	Instrument Panel Wire	B3	146 (LHD)	Floor Wire
B1	146 (LHD)	Roof Wire			