SHOP > SORENTO(BL) > 2007 > Body Electrical System > ETACS (Electronic Time > Body Control Module > Operation

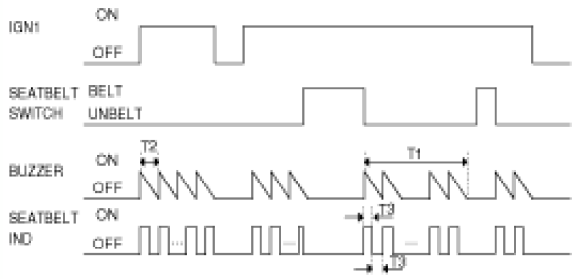
OPERATION

1. SEAT BELT WARNING TIMER (except for Europe AND Australia)
   (1) In state of not wearing SEAT BELT, when IGN1 SWITCH is ON, the warning light is outputting for 0.6s and the alarm is outputting for 6s by 1s cycle.

   (2) In state of not wearing SEAT BELT, after IGN1 SWITCH is ON and IGN1 SWITCH is OFF within 6s, OFF the warning light and alarm output.

   (3) In state of not wearing SEAT BELT, after IGN1 SWITCH is ON and wearing SEAT BELT within 6s, and then OFF the alarm output immediately and output the warning light for the remained time only.

   (4) In wearing SEAT BELT, when IGN1 SWITCH is ON, the warning light is outputting for 6s by 0.6s cycles and the alarm is not outputting.



T1 : 6 ± 1 sec.
T2 : 1 ± 0.1 sec,
T3 : 0.3 ± 0.1 sec.

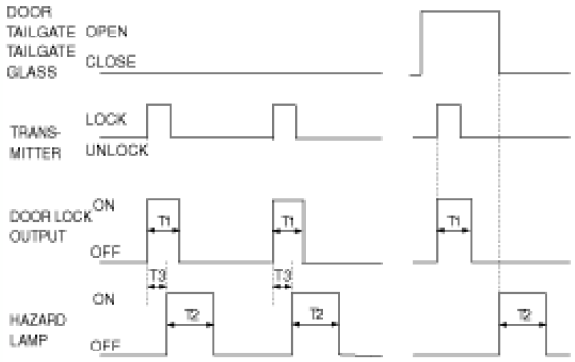
2. REMOTE KEYLESS ENTRY control
   Operate LOCK / UNLOCK of DOOR and TAIL GATE GLASS, PANIC by REMOCON.
   - Operate in state of KEY IN SWITCH OUT & ACC SWITCH OFF & IGN1 SWITCH OFF & IGN2 SWITCH OFF.
   - By receiving LOCK, UNLOCK, TAIL GATE GLASS, PANIC signal from transmitter, output LOCK / UNLOCK of DOOR and TAIL GATE GLASS OPEN, PANIC.

   (1) TRANSMITTER LOCK FUNCTION
      a. In state of removing IGN KEY from CYLINDER and all Door is CLOSE, when receiving TRANSMITTER LOCK signal, start the operation of LOCK output and after T3 from the starting point of operation and then checking the state of LOCK SWITCH, ON the output of HAZARD LAMP for 1s one time.

      b. In state of any of DOOR, TAIL GATE, TAIL GATE GLASS is OPEN, when receiving TRANSMITTER LOCK signal, output LOCK only, don't output HAZARD LAMP.

      c. After b), in case of OPEN > CLOSE, ON the output of HAZARD LAMP one time.

      d. In state of Driver and Assist(North America ONLY) DOOR LOCK, when receiving TRANSMITTER LOCK signal, output HAZARD LAMP for 1s one time after re-outputting LOCK.



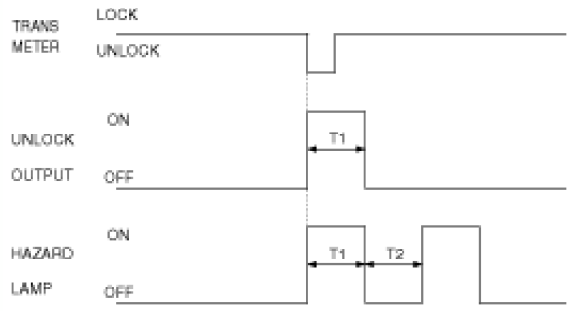
T1 : 0.5 ± 0.1 sec,
T2 : 1.0 ± 0.2 sec,
T3 : 0.2 ± 0.04 sec.

(2) TRANSMITTER UNLOCK FUNCTION

a. When receiving TRANSMITTER UNLOCK signal, output UNLOCK and ON the output of HAZARD LAMP as cycles of 0.5s and 0.5s (ON/OFF) two times.

b. In state of Driver and Assist(North America ONLY) DOOR UNLOCK, when receiving TRANSMITTER UNLOCK, ON the output of HAZARD LAMP as cycles of 0.5s and 0.5s (ON/OFF) two times after outputting UNLOCK.

c. After TRANSMITTER UNLOCK and then there are no inputs of Entering (DOOR, TAIL GATE, TAIL GATE GLASS) OPEN within 30s, lock them automatically and ON the output of HAZARD LAMP for 1s one time. And in case of TRANSMITTER UNLOCK within 30s once more, extend the time for about 30s. (regardless the state of KNOB within 30s)
But, after TRANSMITTER UNLOCK and then insetting KEY within 30s, cancel 30s TIMER. (After the initial TRANSMITTER UNLOCK without LOCK, HAZARD output, and after keeping the output of ROOM LAMP for 30s, turn out the light 2s)

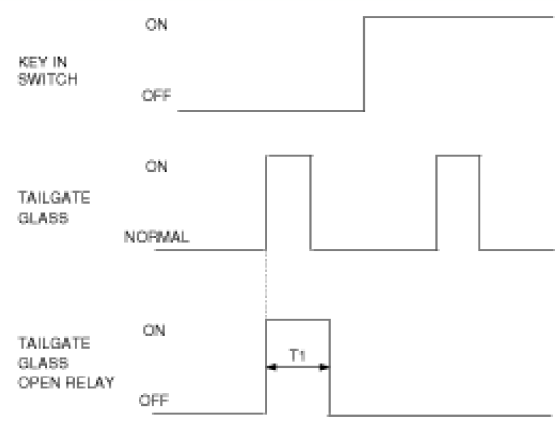


T1, T2 : 0.5 ± 0.1 sec.

(3) TRANSMITTER TAIL GATE GLASS OPEN FUNCTION

a. In state of removing IGN KEY from CYLINDER and inputting TAIL GATE GLASS OPEN signal of TRANSMITTER, ON the output of TAIL GATE GLASS OPEN RELAY for 0.5s.

b. In state of TAIL GATE GLASS OPEN, turn on TAIL GATE WARNING LAMP and ROOM LAMP.

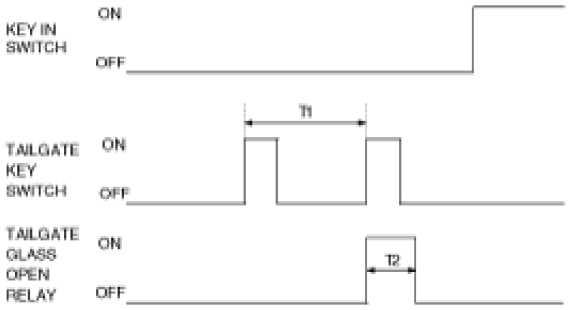


T1 : 0.5 ± 0.1 sec.

(4) TAIL GATE GLASS OPEN FUNCTION (NON- RKE)

a. In state of removing IGN KEY from CYLINDER and INPUT of TAIL GATE KEY SWITCH is inputting within T1 2 times, ON the output of TAIL GATE GLASS OPEN RELAY for 0.5s.

b. In state of TAIL GATE GLASS OPEN, turn on TAIL GATE WARNING LAMP and ROOM LAMP.



T1 : 3.0 ± 0.5 sec,
T2 : 0.5 ± 0.1 sec.

(5) TRANSMITTER LOCK OPERATION SOUND FUNCTION (DOMESTIC)

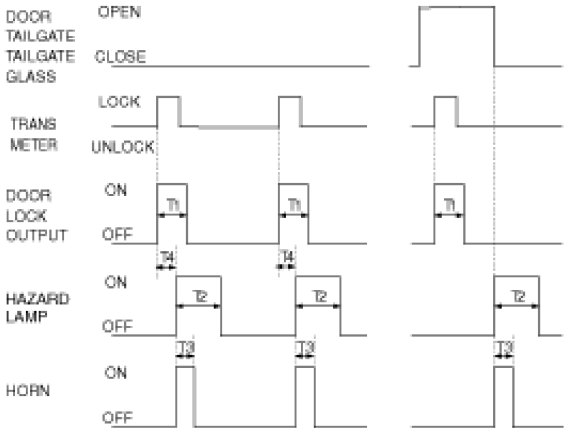
a. In state of removing IGN KEY from CYLINDER and all Door is CLOSE, when receiving TRANSMITTER LOCK signal, start the operation of LOCK output and after T3 from the starting point of operation and then checking the state of LOCK SWITCH, ON the output of HAZARD LAMP for 1s one time and output HORN one time(30msec).

b. In state of any of DOOR, TAIL GATE is OPEN, when receiving TRANSMITTER LOCK signal, output LOCK only, don't output HAZARD LAMP or HORN.

c. After (2), in case of OPEN > CLOSE, ON the output of HAZARD LAMP or HORN one time (30msec).

d. In state of Driver and Assist(North America ONLY) DOOR LOCK, after re-outputting LOCK by TRANSMITTER, output HAZARD LAMP or HORN for one time (30msec).

e. After receiving UNLOCK signal by TRANSMITTER and there is no DOOR OPEN for 30s, output LOCK & HAZARD & HORN(30ms) one time.



T1 : 0.5 ± 0.1 sec,
T2 : 1.0 ± 0.2 sec,
T3 : 30.0 ± 5 msec,
T4 : 0.2 ± 0.04 sec.

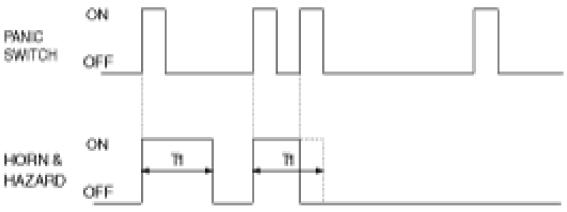
(6) PANIC ALARM

a. When receiving TRANSMITTER PANIC signal, ON the PANIC ALARM by using HORN and HAZARD for T1.

b. During PANIC alarm, when receiving (TRANSMITTER LOCK / TRANSMITTER UNLOCK / TRANSMITTER PANIC / TRANSMITTER TAIL GATE GLASS OPEN / KEY IN / DRIVER KEY UNLOCK, DRIVER KEY LOCK) signal, OFF PANIC Alarm.

c. During PANIC alarm, even if receiving the other TRANSMITTER registered, regard it as the same TRANSMITTER.

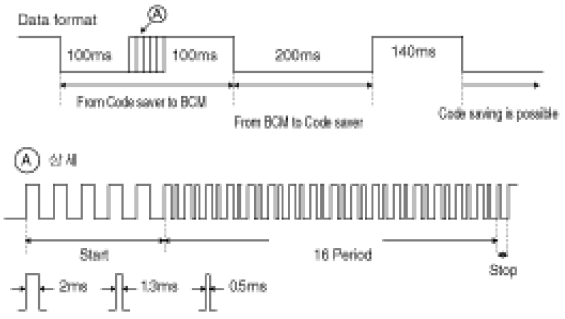
d. After RELOCKING by TRANSMITTER UNLOCK, when all the door (4DOOR, TAIL GATE, TAIL GATE GLASS) is closed and all KNOB is LOCK, OFF PANIC Alarm.



T1 : 30 ± 3 sec.

3. RKE CODE SAVE function

(1) CODE SAVER COMMUNICATION SPEC



(2) CODE SAVING PROCEDURE

a. Open Door

b. Connect the power of Code Saver (B+), GND, signal line.

c. If connecting normally, the communication line becomes activate and RED LED becomes ON.

d. If SW of Code Saver is ON, transfer the data of 3.8.1 through the communication line.

e. If BCM has received the data of 3.8.1 from Code Saver, it returns to Code Save mode and sends Code Save Start signal through the communication line.

f. If Code Saver has received Code Save Start signal, Green LED becomes ON.

g. When pushing LOCK button or UNLOCK button of transmission, BCM is saving Code.

h. If the transmission to save Code is two, register them by performing (7) term.

i. If Code Saver SW is off or the connection is CUT, Code Saving mode is ended.

(3) CODE SAVING METHOD

No.	Current saved code	Code to register	Changed code
1	A	C	C (delete A)
2	A, B,C,D	E	E (delete A, B,C,D)
3	A, B	C, D, E	C, D
4	A, B	C, C, D	C