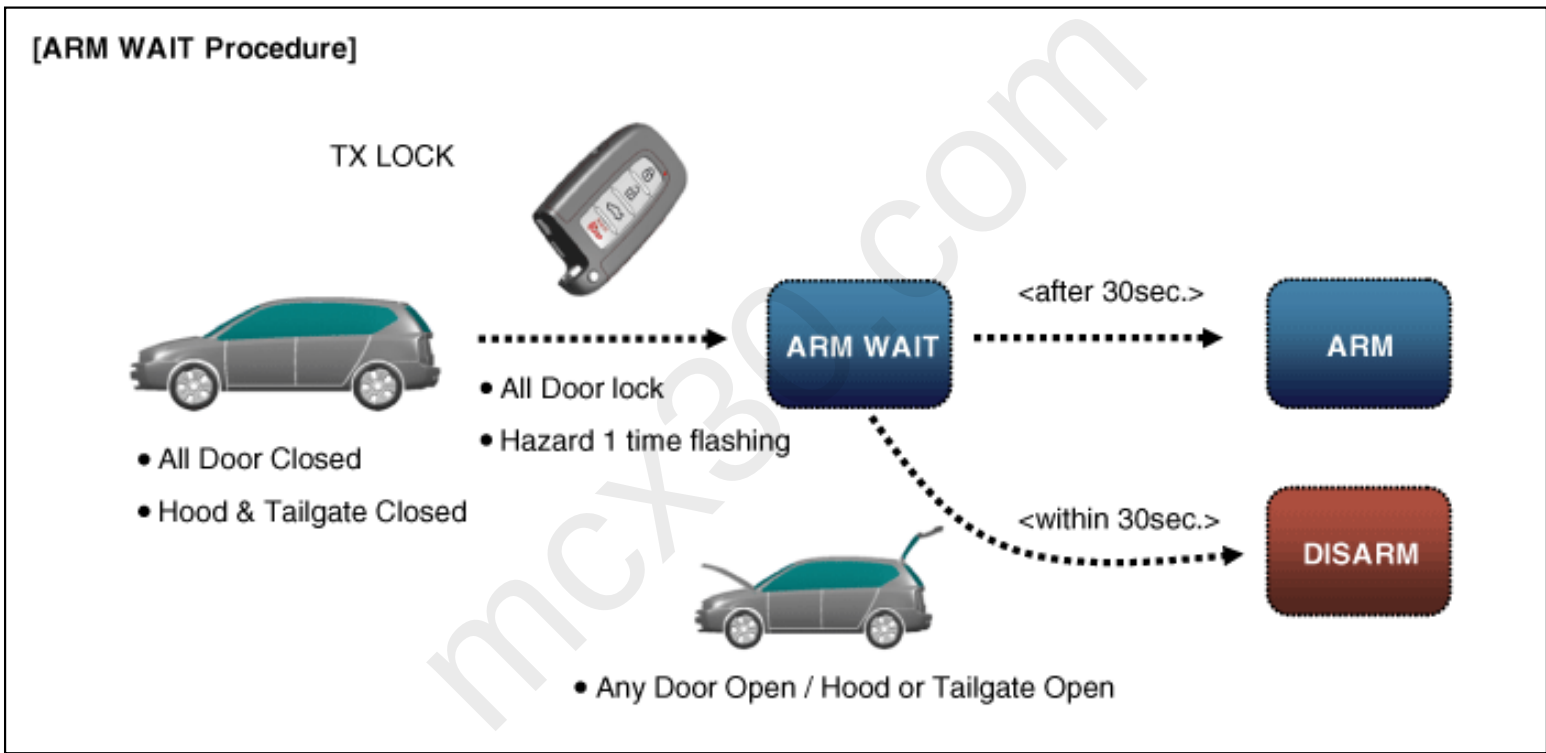


Description

Burglar Alarm State [B/A State]

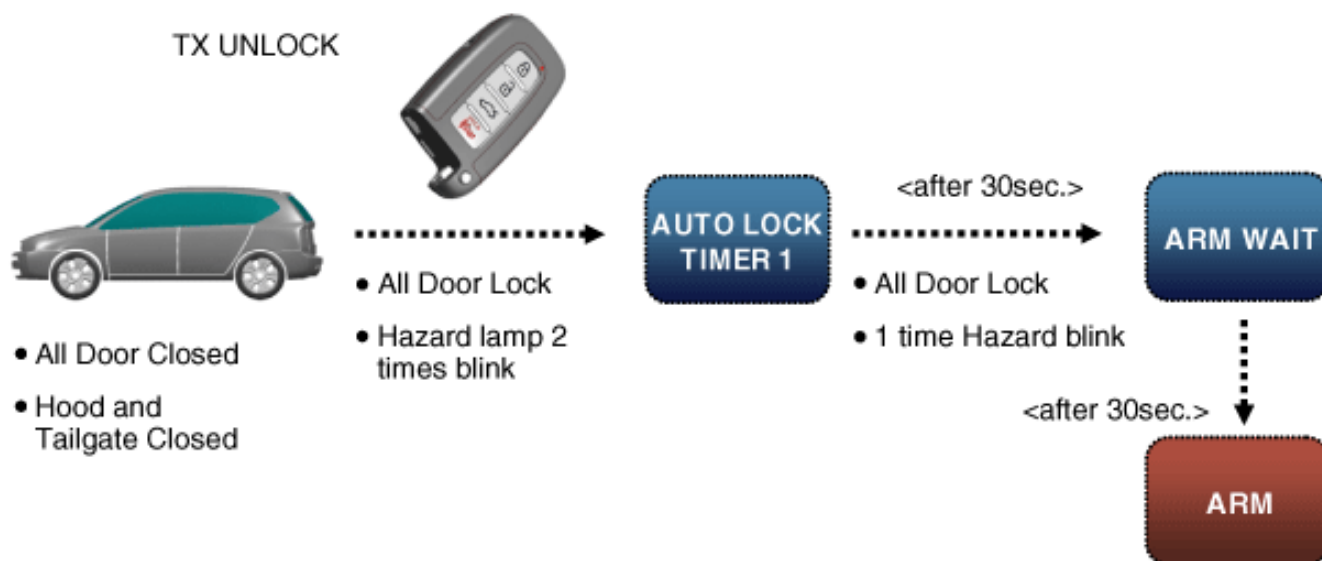
B/A State	Description
DISARM	1)In "DISARM" state, no vehicle start inhibition. So, when door, hood, or Tailgate is opened, there is no alarm sound and flashing. 2)If the battery is disconnected while the state is not "ARM/ARMWAIT/ALARM/REARM", B/A state is set to "DISARM" state. 3)In "DISARM" state, security indicator keeps blinking.
ARMWAIT	1)In "ARMWAIT" state, when timer "30sec." is running, if this timer reaches "30sec", state transits to "ARM" state. 2)If the battery is disconnected while the state is "ARMWAIT", B/A state is set to "ARMWAIT" state and timer "30sec" is restarted. 3)In "ARMWAIT" state, security indicator keeps on.



※ Remark: On Smart key system, it works the same way with passive lock

B/A State	Description
AUTO LOCK TIMER 1	1)In "AUTOLOCKTIMER1" state, timer "30sec."is running. If this timer expired, the auto lock command is generated "Lock command". 2)When "Lock command" operated, All Door changed lock and closed then B/A state changes "AUTOLOCKTIMER1" to "ARMWAIT" 3)In "AUTOLOCKTIMER1" state, Security Indicator keeps blinking. In "AUTOLOCKTIMER1" state, timer "30sec."is running. If this timer expired, the auto lock command is generated "Lock command". When "Lock command" operated, All Door changed lock and closed then B/A state changes "AUTOLOCKTIMER1" to "ARMWAIT"

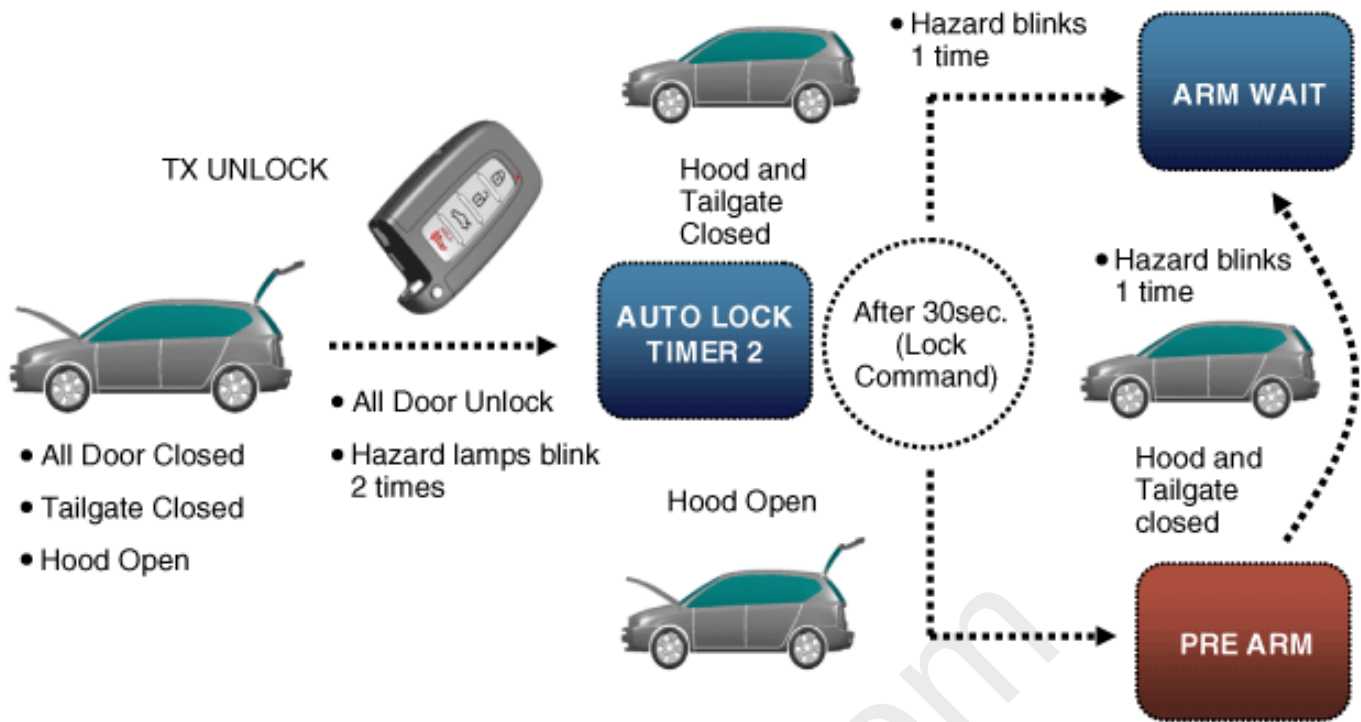
[AUTO LOCK TIMER 1 Procedure]



※ Remark: On Smart key system, it works the same way with passive unlock

B/A State	Description
AUTO LOCK TIMER 2	1)In "AUTOLOCKTIMER2" state, when timer "30sec."is running, if this timer expired, the auto lock command is generated "Lock command". 2)All doors are Locked, Hood is closed and Tailgate is closed when "Lock command" operated, then B/A state changes to"AUTOLOCKTIMER2" when "Lock Command" generated with Hood open. 3)When "Unlock command" operated on the condition of All Door closed and Hood open, B/A state changes to "AUTOLOCKTIMER2". 4)In "AUTOLOCKTIMER2" state, Security Indicator keeps blinking.

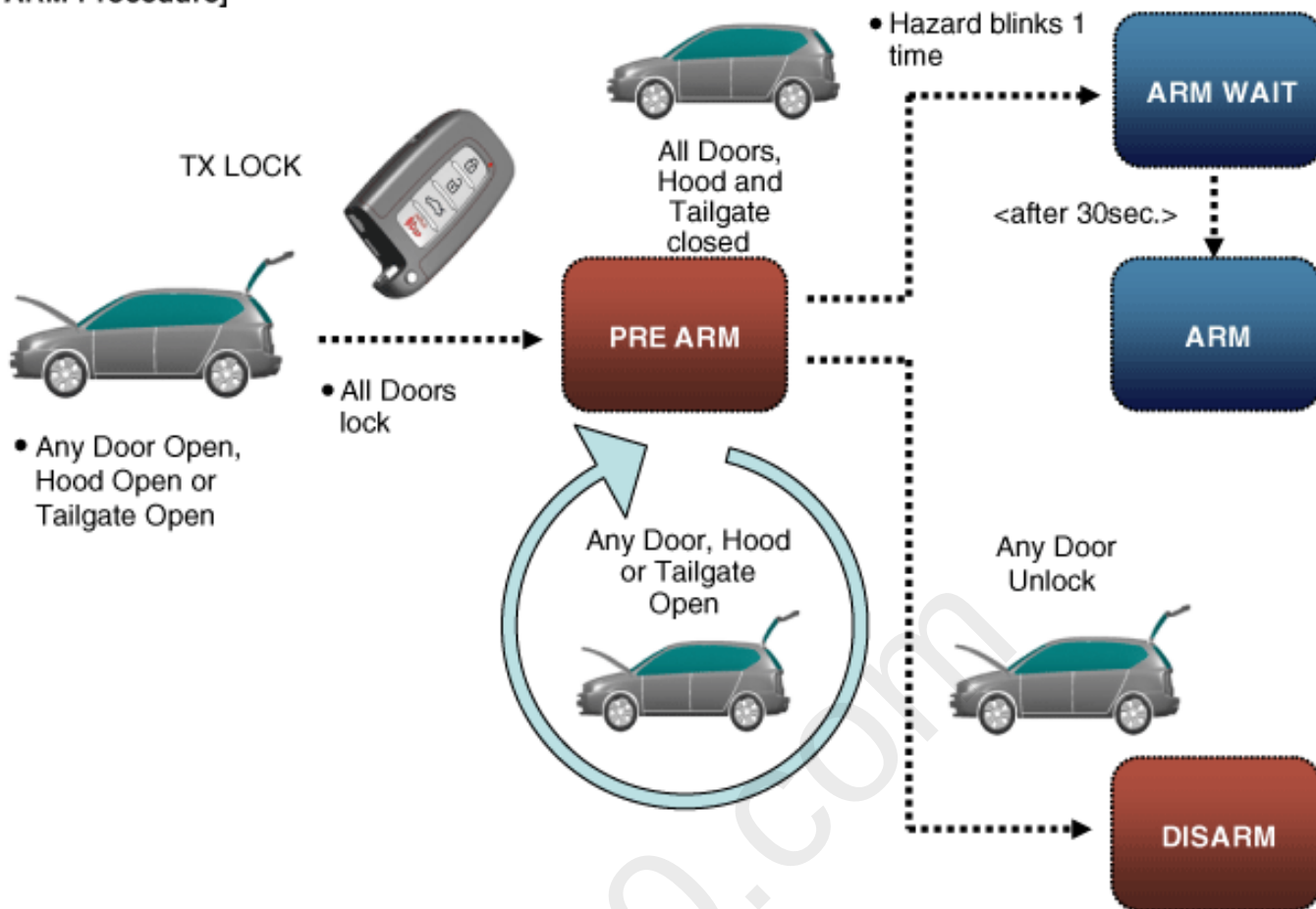
[AUTO LOCK TIMER 2 Procedure]



※ Remark: On Smart key system, it works the same way with passive unlock

B/A State	Description
PRE ARM	1)The "PREARM" state is when user try to change to arm but pre-condition are not satisfied (door open, tailgate open, or hood open). 2)B/A state changes to "PREARM" when TX Lock command occurs with any door Open, Hood or Tailgate Open. 3)B/A state changes to "PREARM" when "30sec." timer expired in"AUTOLOCKTIMER2"with Hood or Tailgate Open 4)The "PREAMR" state changes to "ARM" when all doors closed, All doors locked and Hood and Tailgate closed. 5)The "PREAMR" state changes to "DISARM" when Any Door Unlock 6)In this state, Security indicator keeps blinking.

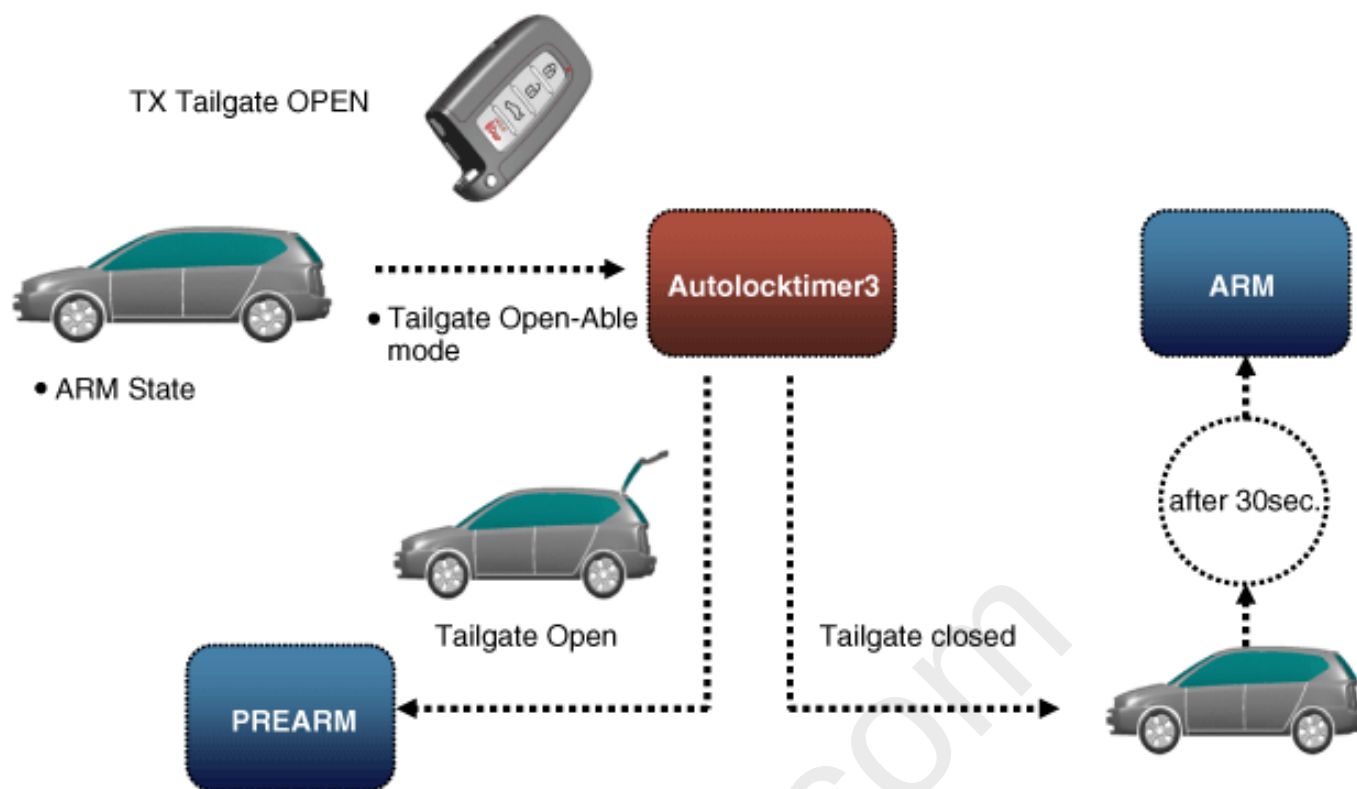
[RPE ARM Procedure]



B/A State	Description
RE ARM	1)In "REARM" state, if the vehicle intrusion is detected, flashing and sound is restarted, again and state transits to "ALARM" state. 2)B/A state changes to "REARM" after the timer "27sec." expires in "ALARM" state with All doors closed and lock. 3)Security Indicator keeps blinking.

B/A State	Description
AUTOLOCK TIMER3	1)B/A state changes to "AUTOLOCKTIMER3", when TX-Tailgate command operated. 2)B/A state changes "AUTOLOCKTIMER3" to "ARMWAIT", when the "30sec." timer expires with all doors lock and closed. 3)B/A state changes "AUTOLOCKTIMER3" to "DISARM", when any door open. 4)In "AUTOLOCKTIMER3" state, timer "30sec." timer is running. If this timer expired, state transits to "PREARM" state with Tailgate Open. 5)In this state, Security indicator keeps blinking

[AUTOLOCKTIMER 3 Procedure]



Component
Location



- | | |
|--|-----------------------------|
| 1. Keyless entry transmitter | 4. Front door lock actuator |
| 2. Burglar horn | 5. Rear door lock actuator |
| 3. Intergrated Body Control Unit (IBU) | 6. Tailgate lock actuator |

mcx30.com

Specification

Item	Specification
Power source	3V
Operating temperature	-20°C to +60°C (-4°F to- +140°F)
RF Modulation	FSK
LF Modulation	ASK
RF frequency	433.92MHz
Battery	1EA (CR2032) An inappropriately disposed battery can be harmful to the environment and human health.Dispose the battery according to your local law(s) or regulation.
Button number	4
Function	Door lock
	Door unlock
	Tailgate open
	Panic

Inspection

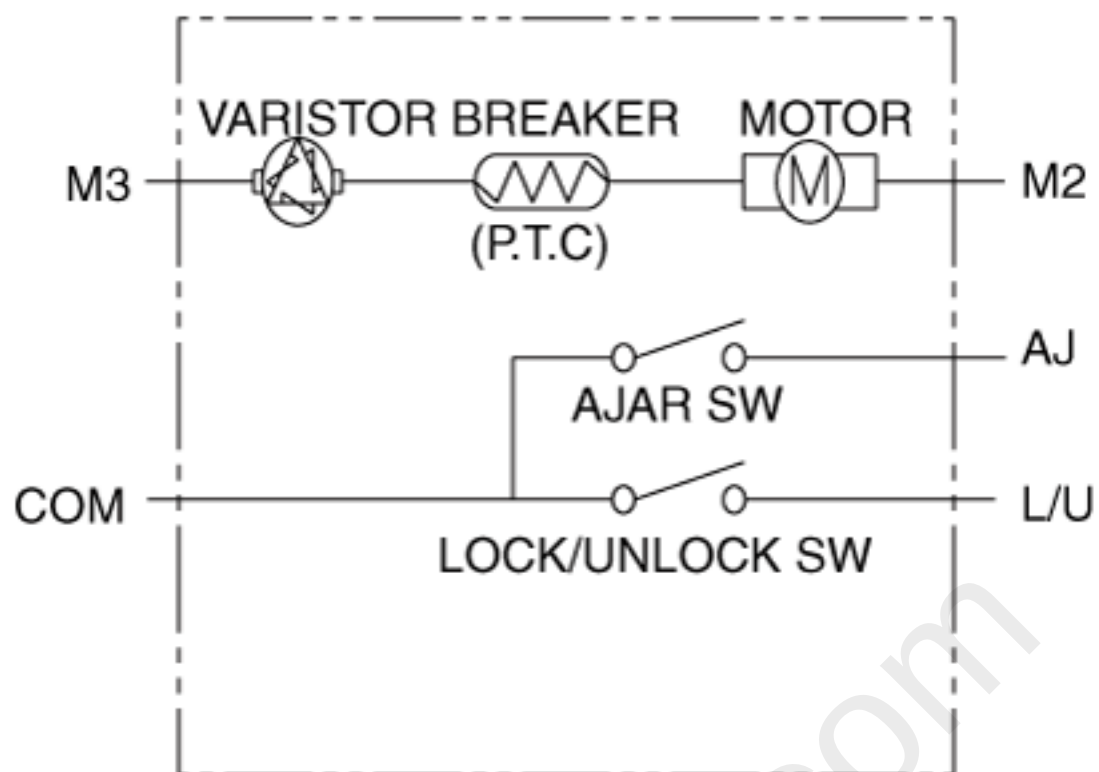
Front Door Lock Module Inspection

- 1. Remove the front door trim.
(Refer to Body - "Front Door Trim")
- 2. Disconnect the connectors from the actuator.



- 3. Check actuator operation by connecting power and ground according to the table.

Pin	Description	
	Driver	Panssenger
1	-	M2
2	-	M3
3	COM	-
4	Lock/Unlock switch	AJAR
5	AJAR	Lock/Unlock switch
6	-	COM
7	M3	-
8	M2	-



OPERATION TERMINAL	C/LOCK	C/UNLOCK
	LH	LH
8	-	+
7	+	-
3 & 4	ON → OFF	OFF → ON
3 & 5	DR OPEN & Half Latching, ON Full Latching, OFF	

OPERATION TERMINAL	C/LOCK	C/UNLOCK
	RH	RH
1	+	-
2	-	+
6 & 5	ON → OFF	OFF → ON
6 & 4	DR OPEN & Half Latching, ON Full Latching, OFF	

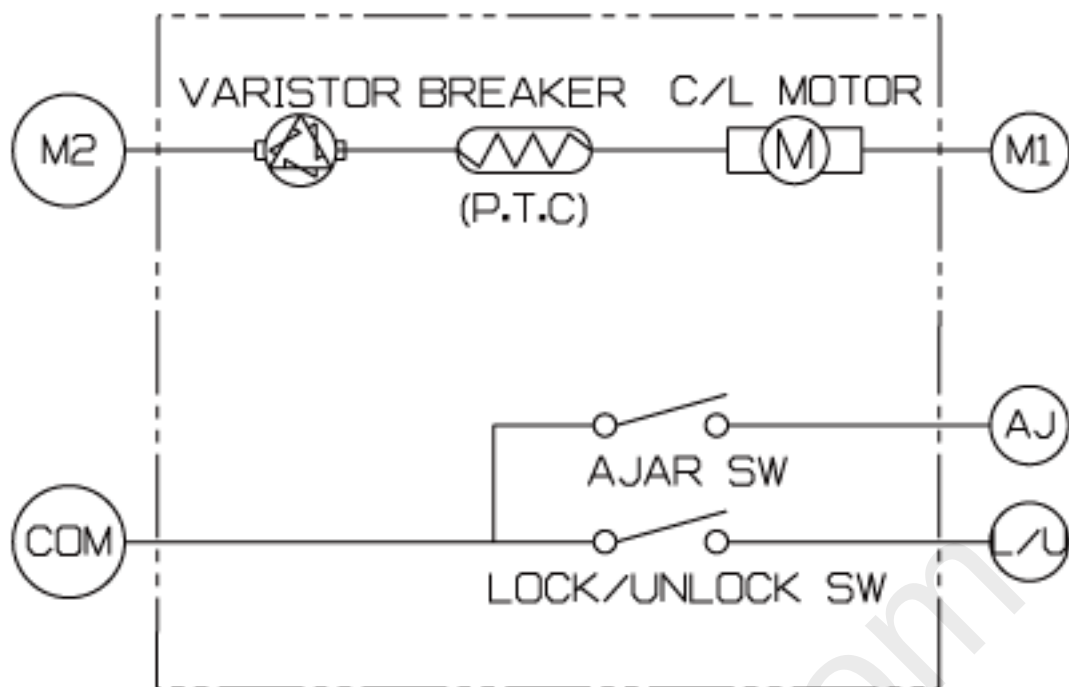
Rear Door Lock Module Inspection

1. Remove the rear door trim.
(Refer to Body - "Rear Door Trim")
2. Disconnect the connectors from the actuator.



3. Check actuator operation by connecting power and ground according to the table.

Pin	Description	
	Driver	Panssenger
1	-	M1
2	COM	M2
3	Lock/Unlock switch	-
4	AJAR	-
5	-	AJAR
6	-	Lock/Unlock switch
7	M2	COM
8	M1	-



OPERATION TERMINAL	C/LOCK	C/UNLOCK
	LH	LH
8	-	+
7	+	-
2 & 3	ON → OFF	ON → OFF
2 & 4	DR OPEN & Half Latching, ON Full Latching, OFF	

OPERATION TERMINAL	C/LOCK	C/UNLOCK
	RH	RH
1	+	-
2	-	+
7 & 6	ON → OFF	ON → OFF
7 & 5	DR OPEN & Half Latching, ON Full Latching, OFF	

Tailgate Lock Module Inspection

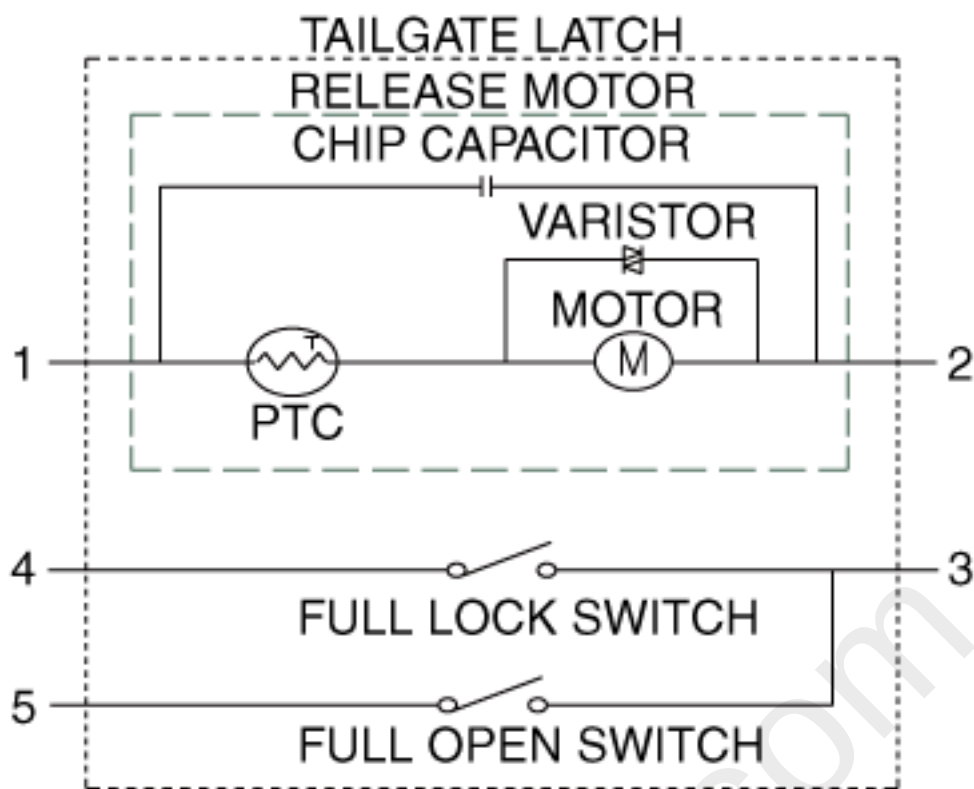
1. Remove the tailgate trim.

(Refer to Body - "Tail Gate Trim")

2. Disconnect the connector from the actuator.



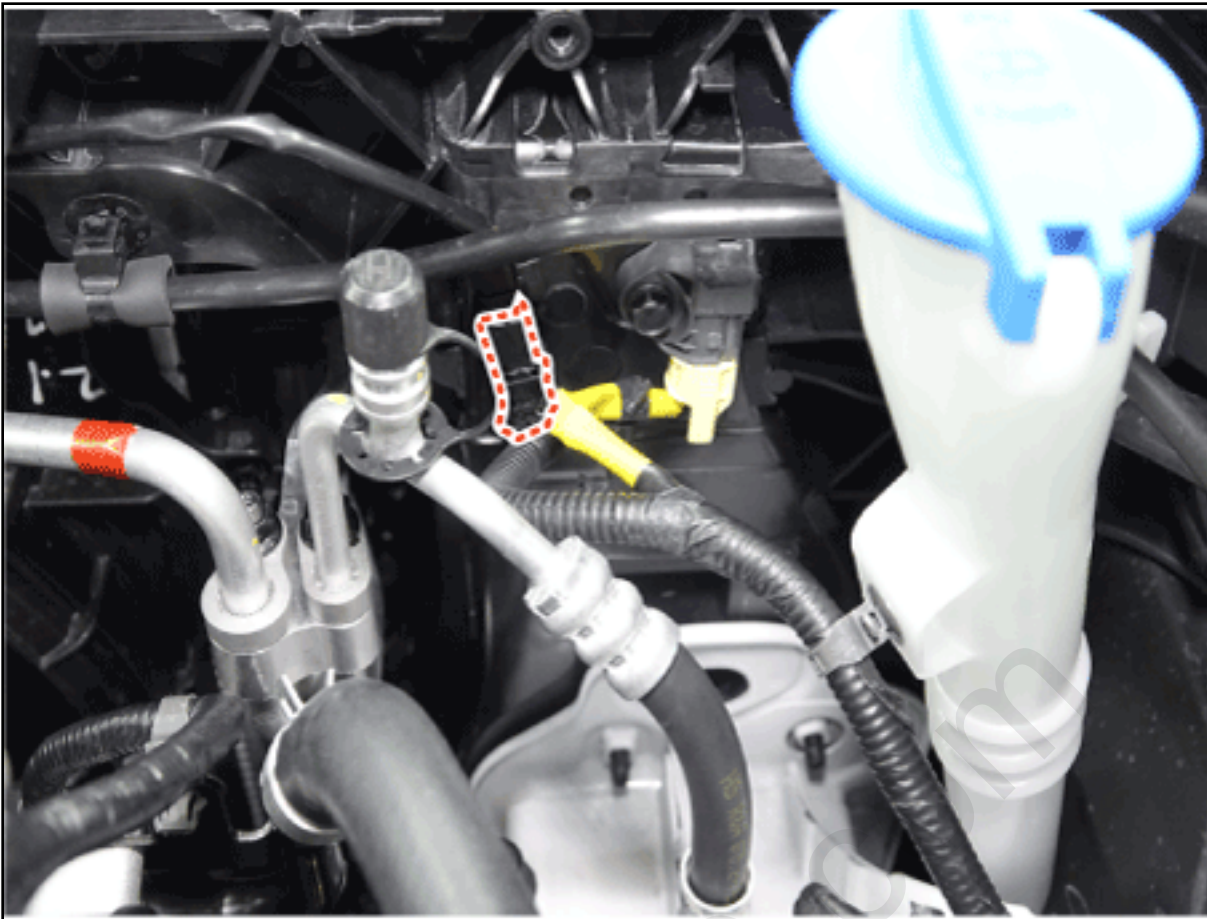
3. Check actuator operation by connecting power and ground according to the table.



img

Hood Switch

1. Disconnect the connector and bolts from the hood switch.



2. Check for continuity between the terminals and ground according to the table.

Position \ Terminal	1	2
Hood Open(Free)	○ ——— ○	○ ——— ○
Hood Close(Push)		