

Component
Location



- | | |
|-----------------------------|-----------------------------|
| 1. Tailgate lock actuator | 3. Front door lock actuator |
| 2. Driver door moudle (DDM) | 4. Rear door lock actuator |

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Inspection

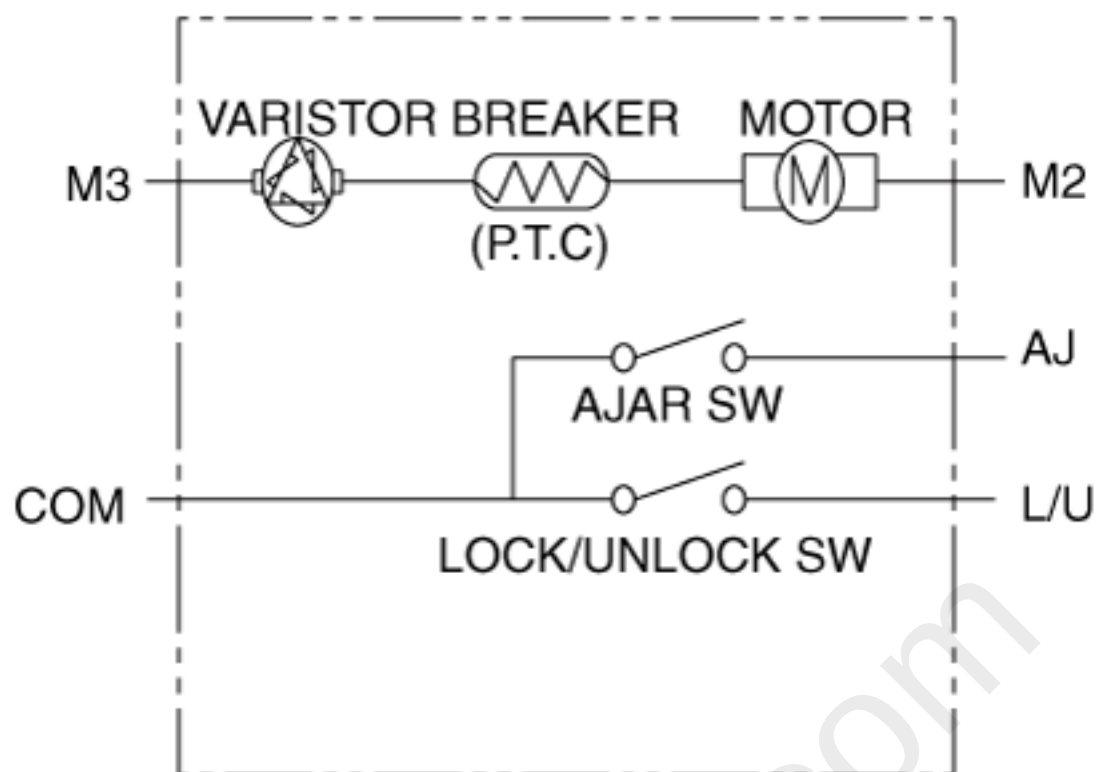
Front Door Lock Module Inspection

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	

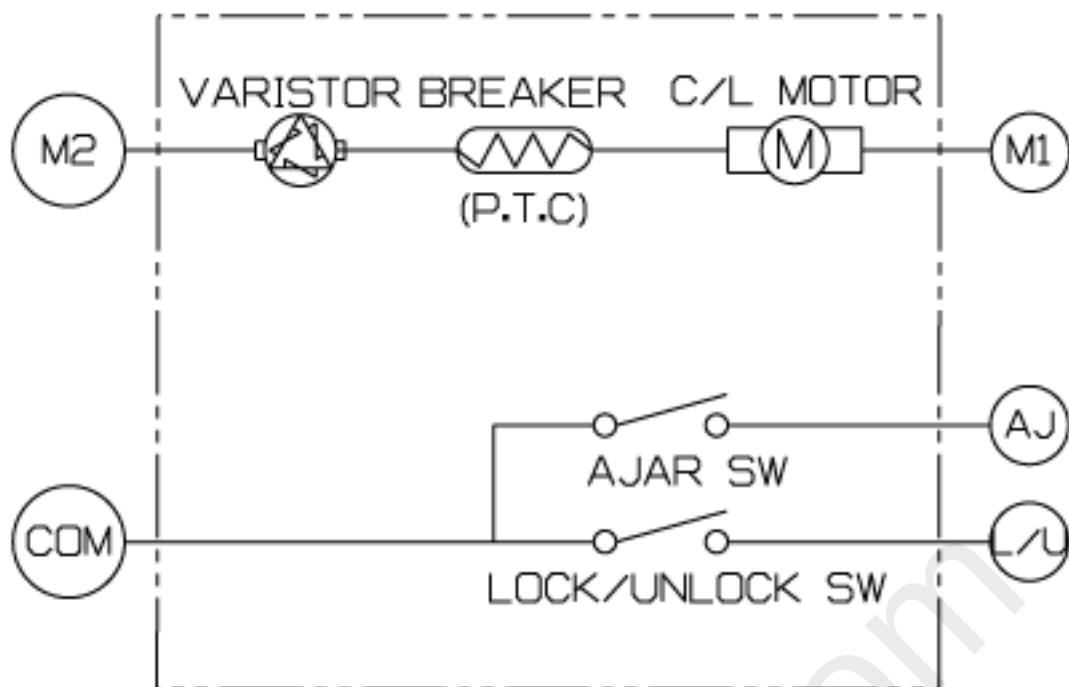
Rear Door Lock Module Inspection

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

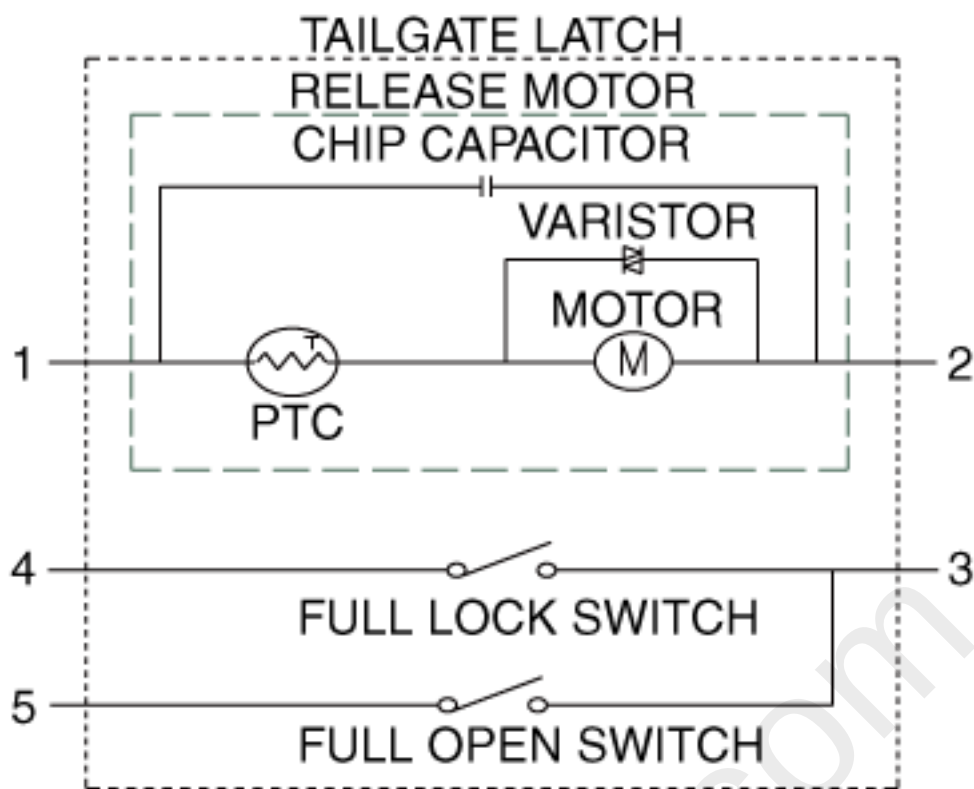
1. Remove the tailgate trim.

(Refer to Body - "Tail Gate Trim")

2. Disconnect the connector from the actuator.



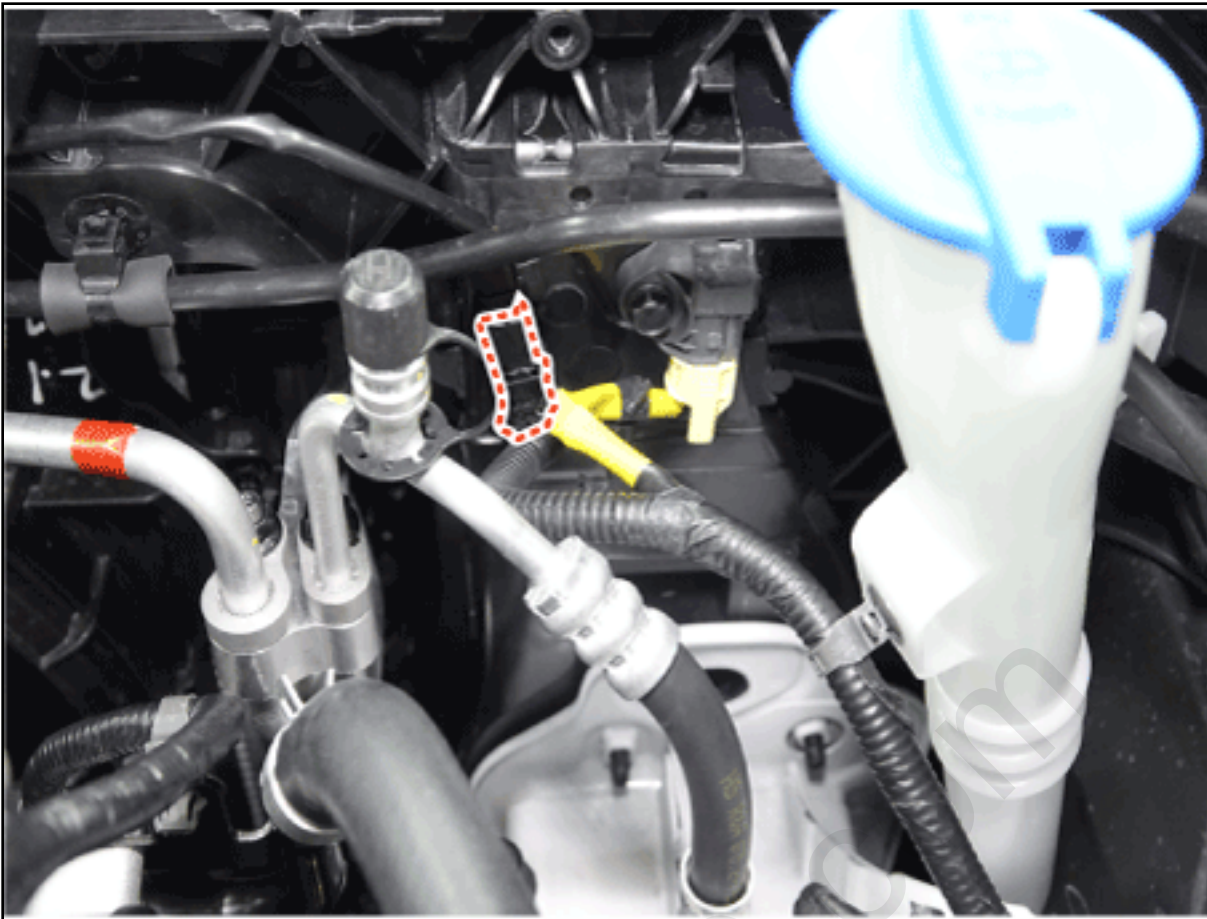
3. Check actuator operation by connecting power and ground according to the table.



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Hood Switch

1. Disconnect the hood switch connector (A).



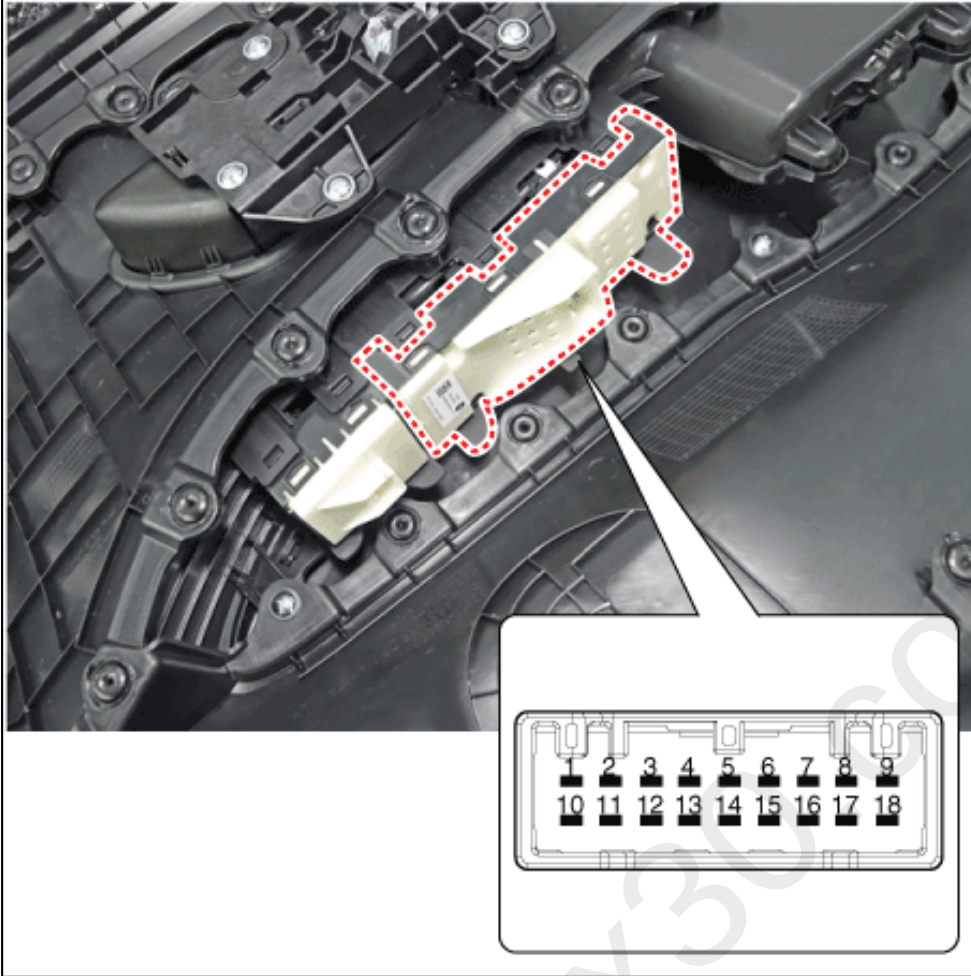
2. Check for continuity between the terminals and ground according to the circuit diagram.

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

Inspection

Power Door Lock Switch Inspection

1. Check for continuity between the terminals. If there is an abnormality, replace the switch.



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Diagnosis with Diagnostic Tool

1. In the body electrical system, failure can be quickly diagnosed by using the vehicle diagnostic system.
The diagnostic system provides the following information.
 - (1) Fault Code Searching : Checking failure and code number (DTC)
 - (2) Data Analysis : Checking the system input/output data state
 - (3) Actuation test : Checking the system operation condition
 - (4) S/W Management : Controlling other features including system option setting and zero point adjustment
2. If diagnose the vehicle by diagnostic tool, select "DTC Analysis" and "Vehicle".

GDS Update

TSB

MORE ►



Fault Code Searching



ECU Upgrade



DTC Analysis



Data Analysis



**Actuation
Test**



**Flight
Record**



S/W Management



Multi Data Analysis



**Recorded
Data**



**Digital Before
Service**



Measurement



OBD- II



NEW THINKING.
NEW POSSIBILITIES.

3. If check current status, select the "Data Analysis" and "Car model".

GDS Update

TSB

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Fault Code Searching



ECU Upgrade



DTC Analysis



Data Analysis



**Actuation
Test**



**Flight
Record**



S/W Management



Multi Data Analysis



**Recorded
Data**



**Digital Before
Service**



Measurement



OBD- II



NEW THINKING.
NEW POSSIBILITIES.

4. Select the 'ICU' to search the current state of the input/output data.

Vehicle Selection

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PREV

AUTO
VIN



RESET

SANTAFE(SM)		
SANTAMO(M2)		D 2.2 TCI-R

System Selection

ENGINE	A / T	ABS/ESP	FCA	AIRBAG	AIRCON
4WD	EPS	RVM	SVMS	PA	BCW
FR_CMR	AFLS	AHL5	AVN	CLU	DDM
80km/h HUD	TPMS BCM SMK IBU-BCM	TPMS BCM IMMO IBU-IMMO	TPMS BCM SMK IBU-SMK	TPMS BCM SMK IBU-TPMS	PSM
WPC	ICU	PTG	e-Call	UREA SCR	CODE

• System

Integrated Central Control Unit

OK

Data Analysis			
Sensor Name(102)	Value	Unit	Link Up
One Touch Turn Signal	3 Flashing	-	
Trunk Option State	OFF	-	
Auto Door Lock	15Km/h	-	
Auto Door Unlock	Key Out(All Doors)	-	
Quiescent Current Control	Customer Mode	-	
Rear LH Door Open Switch	OPEN	-	
Rear LH Door Actuator Position Switch	UNLOCK	-	
Rear RH Door Open Switch	CLOSE	-	
Rear RH Door Actuator Position Switch	UNLOCK	-	
Assist Door Open Switch	CLOSE	-	
Driver Door Open Switch	OPEN	-	
Parking Brake Switch	Not Park	-	
Tailgate Door Switch	CLOSE	-	
Hood Switch	OPEN	-	
Driver Seat Belt Switch	UNBUCKLED	-	
Assist Seat Belt Switch (Option)	BUCKLED	-	
Brake Fluid Switch	OFF	-	
IGN1 Switch	OFF	-	
IGN2 Switch	OFF	-	
AV Tail Output	OFF	-	

5. To forcibly actuate the input value of the module to be checked, select option 'Actuation Test'.

Actuation Test				
● Test Item(23)				
Head Lamp Low Output				
Head Lamp High Output				
Tail Lamp Relay				
AV Tail				
Back Up Lamp				
Burglar Horn Relay				
Rear Fog Lamp				
Tailgate/Trunk Release Relay				
Start Inhibit Relay (Option)				
Rear Defogger Relay				
Data Analysis				
< Stop Graph Selective Display Group >				
Sensor Name(64)	Value	Unit		
One Touch Turn Signal	3 Flashing	-		
Rear RH Door Open Switch	OPEN	-		
Rear RH Door Actuator Position Switch	LOCK	-		
Assist Door Open Switch	OPEN	-		
Driver Door Open Switch	OPEN	-		
Parking Brake Switch	Park	-		
Tailgate Door Switch	CLOSE	-		
Hood Switch	OPEN	-		

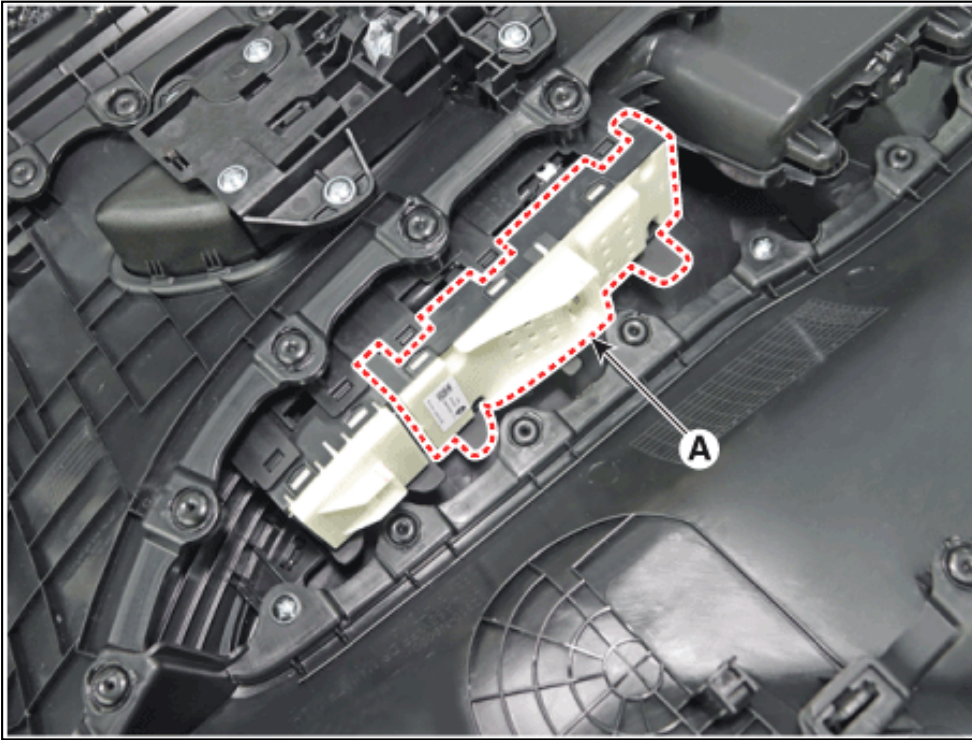
Removal

Driver Power Door Lock Switch

1. Disconnect the negative (-) battery terminal.
2. Remove the front door trim.

(Refer to Body - "Front Door Trim")

3. Remove the power window switch assembly (A).



Installation

Driver Power Door Lock Switch

1. Install the power door lock switch assembly.
2. Install the front door trim.