

Component Procedures: Door Locks

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Component Procedures: Door Locks

Parts and Labor (itype_189)

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Rear Door > Lock, R&R > One Side	B	0.9	0.0

Power Door Locks - Service Tips (Article 42527)

Power Door Locks
Service Tips (1)

Circuit Description

Constant power is supplied to the door lock/unlock relay via a 20A fuse. And door lock/unlock relay is controlled by the IPS control module. When user press forward the door lock part (Door Lock) of the power window main switch or passenger power window switch, the IPS control module receives the signal and the magnetizes the door lock relay coil to apply the power to the door lock switch. And then door is locked by actuators. On the other hand, when user pulls back the door lock switch (Door Unlock), the IPS control module receives the signal and magnetizes the door unlock relay coil to apply the power to the door unlock relay switch. And then door is unlocked by actuators.

■ **Power Window Main Switch (Door Lock Switch) Inspection**

Check the continuity between terminals from each switch position as shown in the table below.

Position	Terminal	6(5)	5(6)	10(12)
Lock		○		○
Unlock			○	○

■ **Front Door Key Lock Switch Inspection**

Check the continuity between terminals from each switch position while insert key and turn as shown in the table below.

Position	Terminal	4	5	2	3
Front LH Lock		○			○
Front LH Unlock			○	○	○
Front RH Lock	Terminal	6	7	4	5
Front RH Lock		○			○
Front RH Unlock			○	○	○

■ **Rear Door Lock Switch Inspection**

Check the continuity between terminals from each switch position as shown in the table below.

Position	Terminal	2	3
Rear LH Lock		○	○
Rear LH Unlock			○
Rear RH Lock	Terminal	7	6
Rear RH Lock		○	○
Rear RH Unlock			○

■ **Door Lock Actuator Inspection**

Apply battery power to each terminal of the door lock actuator and check if it operates normally.

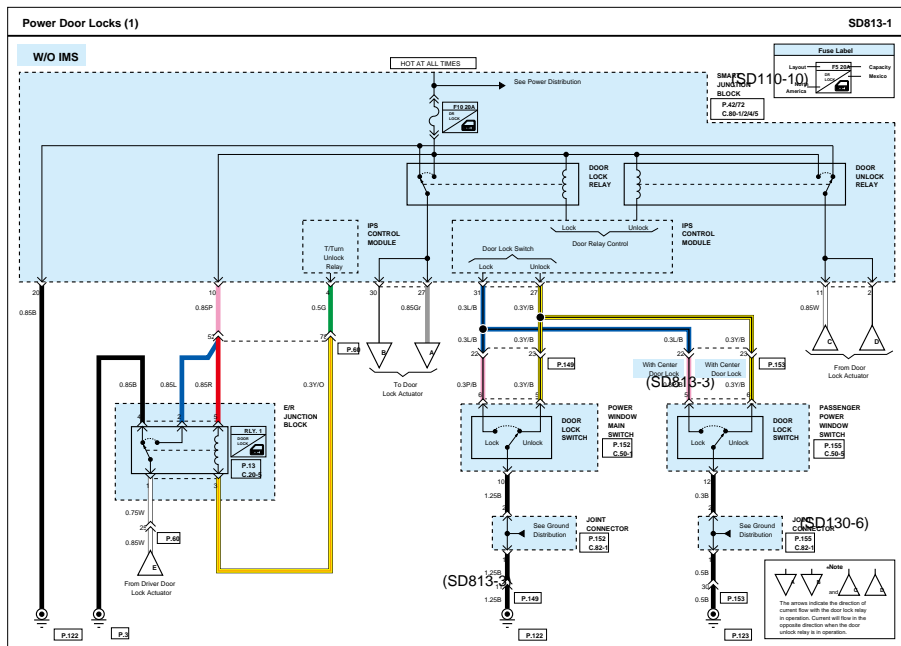
Position	Terminal	6	7
Front LH/Lock		⊕	⊖
Rear LH/Unlock		⊖	⊕
Front RH/Lock	Terminal	3	2
Front RH/Lock		⊕	⊖
Rear RH/Unlock		⊖	⊕

■ **Two Turn Unlock (RLY. 1)**

From the driver's door, turn the key to the right once to unlock the driver's door and once more within 4 seconds to unlock all doors.

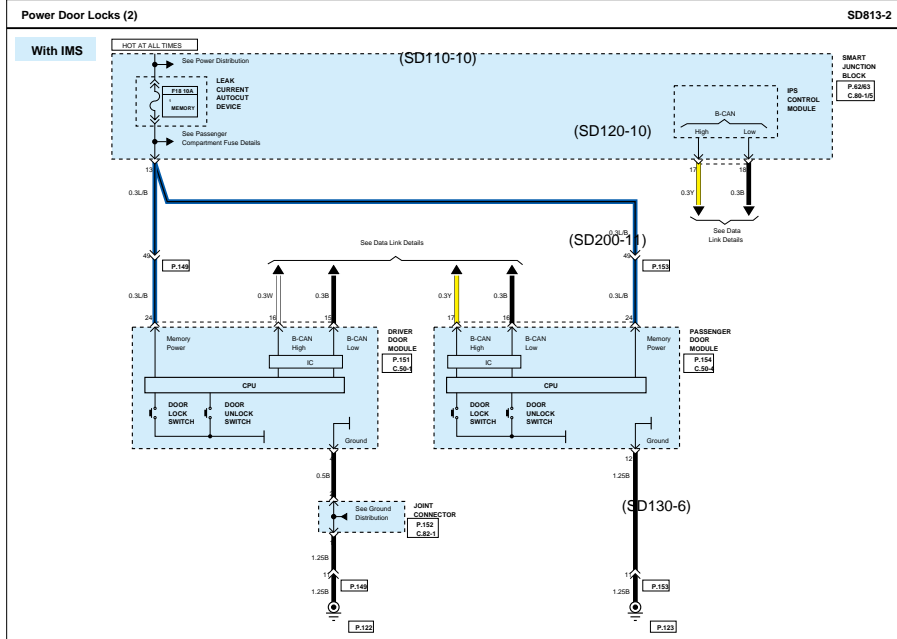
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Power Door Locks - Schematic Diagrams (Article 42524)

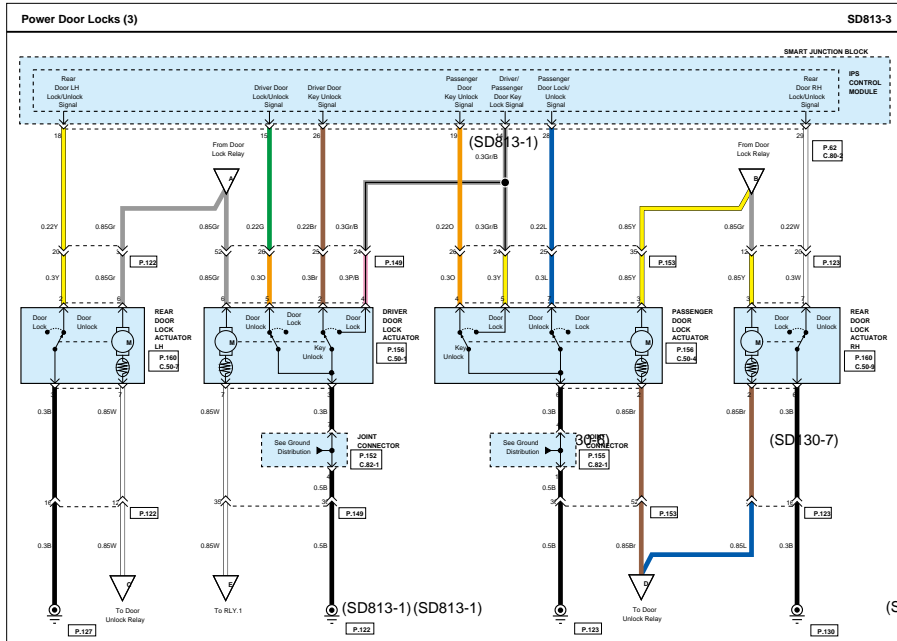


(SD813-3)

(SD130-7)



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(SD813-1)

(SD813-1)

Power Door Locks - Service Tips (Article 42528)

Circuit Description

Constant power is supplied to the door lock/unlock relay via a 20A fuse. And door lock/unlock relay is controlled by the IPS control module. When user press forward the door lock part (Door Lock) of the power window main switch or passenger power window switch, the IPS control module receives the signal and the magnetizes the door lock relay coil to apply the power to the door lock relay switch. And then door is locked by actuators. On the other hand, when user pulls back the door lock switch (Door Unlock), the IPS control module receives the signal and magnetizes the door unlock relay coil to apply the power to the door unlock relay switch. And then door is unlocked by actuators.

Power Window Main Switch (Door Lock Switch) Inspection

Check the continuity between terminals from each switch position as shown in the table below.

Position	Terminal	6(5)	5(6)	10(12)
Lock	○	○	○	○
	○	○	○	○
Unlock	○	○	○	○
	○	○	○	○

■ () : Passenger

Front Door Key Lock Switch Inspection

Check the continuity between terminals from each switch position while insert key and turn as shown in the table below.

Position	Terminal	4	5	2	3
Front LH Lock	○	○	○	○	○
	○	○	○	○	○
Front LH Unlock	○	○	○	○	○
	○	○	○	○	○
Front RH Lock	○	○	○	○	○
	○	○	○	○	○
Front RH Unlock	○	○	○	○	○
	○	○	○	○	○

Rear Door Lock Switch Inspection

Check the continuity between terminals from each switch position as shown in the table below.

Position	Terminal	2	3
Rear LH Unlock	○	○	○
	○	○	○
Rear RH Unlock	○	○	○
	○	○	○

Door Lock Actuator Inspection

Apply battery power to each terminal of the door lock actuator and check if it operates normally.

Position	Terminal	6	7
Front LH Lock	○	⊕	⊖
	○	⊖	⊕
Rear LH Lock	○	⊕	⊖
	○	⊖	⊕
Front RH Lock	○	⊕	⊖
	○	⊖	⊕
Rear RH Lock	○	⊕	⊖
	○	⊖	⊕

Two Turn Unlock (RLY. 1)

From the driver's door, turn the key to the right once to unlock the driver's door and once more within 4 seconds to unlock all doors.