

Component Procedures: Windshield Washer Switch

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1. Windshield Wiper-Washer Switch - Repair Procedures (Article 44622)

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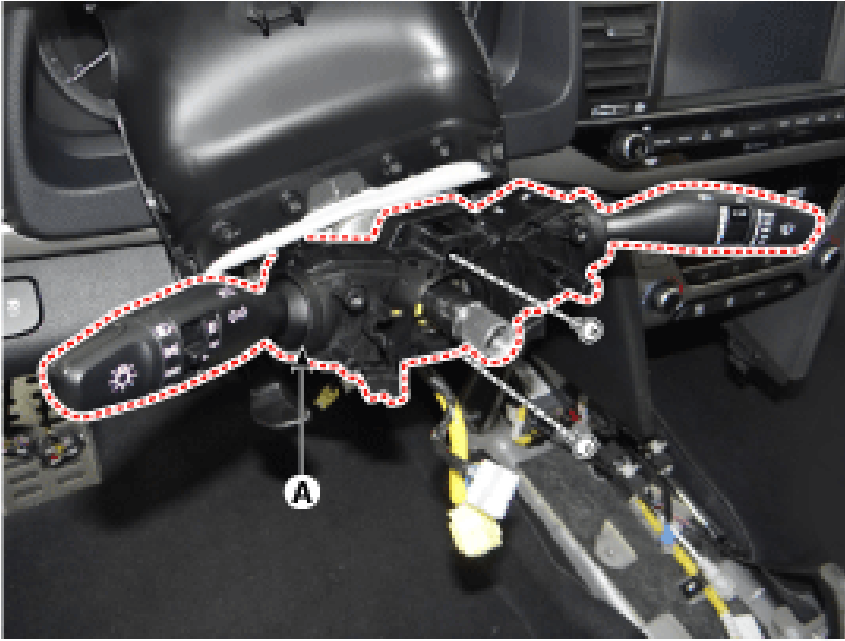
- Removal
- Disconnect the negative (-) battery terminal.
- If it is necessary to remove multifunction switch assembly, remove the steering wheel. (Steering System - "Steering Wheel")
- Remove the steering column upper shrouds (A). (Refer to Body - "Steering Column Shroud Panel")
- Remove the clock spring. (Refer to Restraint - "Driver Airbag (DAB) Module and Clock Spring")



- Disconnect the multifunction switch connector (A).



- Loosen the screws (2EA) from the multifunction switch assembly (A).



- Installation
 - Install the multifunction switch.
 - Install the clock spring and steering wheel.
 - Install the steering column upper and lower shrouds.
 - Install the steering wheel.
 - Inspection (with GDS)
 - When each switch is pressed, check the electricity flow between multi-function switch connector and grounding, and if the electricity does not match the specification, replace the switch.
- Deiscription Switch No. Resistance value (Ω , $\pm 1\%$)
- | | | | | | | | | | | | | | | |
|---------------------|----------------------------|-----------------|----------|----------|------------|-------------------------|----------|--------|--------------|------|----------|----------|------|-----|
| Wiper switch signal | MIST 1 - 9 | 330 | OFF | ∞ | INT (AUTO) | 800 | Low | 1800 | High | 5700 | | | | |
| Front wiper | INT | volume 1 | 7 - 9 | 330 | Volume 2 | 690 | Volume 3 | 1310 | Volume 4 | 2610 | Volume 5 | 7310 | | |
| Fog lamp switch | OFF | 9 - 10 | ∞ | ON | 910 | Turn signal lamp switch | OFF | 9 - 12 | ∞ | Left | 910 | Right | 2910 | |
| Head lamp | Passing / High beam switch | OFF | 9 - 13 | ∞ | Passing | 910 | Dimmer | 2910 | Light Switch | OFF | 9 - 14 | ∞ | Auto | 680 |
| Tail lamp | 1680 | Head lamp (Low) | 5580 | | | | | | | | | | | |



Deiscription Switch No. Resistance value (Ω , $\pm 1\%$)

Wiper switch signal	MIST 1 - 9	330	OFF	∞	INT (AUTO)	800	Low	1800	High	5700
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Front wiper INT volume Volume 1 7 - 9 330
 Volume 2 690
 Volume 3 1310
 Volume 4 2610
 Volume 5 7310
 Fog lamp switch OFF 9 - 10 ∞
 ON 910
 Turn signal lamp switch OFF 9 - 12 ∞
 Left 910
 Right 2910
 Head lamp Passing / High beam switch OFF 9 - 13 ∞
 Passing 910
 Dimmer 2910
 Light Switch OFF 9 - 14 ∞
 Auto 680
 Tail lamp 1680
 Head lamp (Low) 5580

- The body electrical system can be quickly diagnosed failed parts with vehicle diagnostic system (GDS). The diagnostic system (GDS) provides the following information. Self diagnosis : Checking the failure code (DTC) and display Current data : Checking the system input/output data state Actuation test : Checking the system operation condition Additional function : Other controlling such as he system option and zero point adjustment
- Self diagnosis : Checking the failure code (DTC) and display
- Current data : Checking the system input/output data state
- Actuation test : Checking the system operation condition
- Additional function : Other controlling such as he system option and zero point adjustment
- Select the "Car Model" and the system to be checked in order to check the vehicle with the tester.
- Select the "Body Control Module (BCM)" to check the Body Control Module (BCM).
- Select the "Current Data" menu to search the current state of the input/output data. The input/output data for the sensors corresponding to the Body Control Module (BCM) can be checked.

Sensor Name	Value	Unit
<input type="checkbox"/> Arm/Disarm Buzzer Setting	ON	-
<input type="checkbox"/> Head Lamp Escort	ON	-
<input type="checkbox"/> Auto Door Lock State	15km/h	-
<input type="checkbox"/> Auto Door Unlock Status	Shift-lever	-
<input type="checkbox"/> 2-Turn Unlock	OFF	-
<input type="checkbox"/> RK Trunk Button Function Lock	OFF	-
<input type="checkbox"/> SMK Welcome Option	ON	-
<input type="checkbox"/> Battery Voltage Monitoring Input	11.4	V
<input type="checkbox"/> Auto Light Sensor (Option)	0.4	V
<input type="checkbox"/> Light Switch Voltage(Voltage Divided)	5.0	V
<input type="checkbox"/> Head Lamp High Switch Voltage(Voltage Divided)	5.0	V
<input type="checkbox"/> Fog Lamp Switch Voltage(Voltage Divided)	5.0	V
<input type="checkbox"/> Front Wiper Switch Voltage(Voltage Divided)	5.0	V
<input type="checkbox"/> Wiper INT Volume Voltage(Voltage Divided)	3.6	V
<input type="checkbox"/> ACC	ON	-
<input type="checkbox"/> IGN1	ON	-
<input type="checkbox"/> IGN2	ON	-
<input type="checkbox"/> Defogger / Deicer Switch	OFF	-
<input type="checkbox"/> Washer Switch	OFF	-
<input type="checkbox"/> INT Switch	OFF	-
<input type="checkbox"/> Mist Switch	OFF	-
<input type="checkbox"/> Wiper Stop Position Switch	ON	-
<input type="checkbox"/> Wiper Low Relay	OFF	-

Current Data		
Sensor Name	Value	Unit
<input type="checkbox"/> Wiper Low Relay	OFF	-
<input type="checkbox"/> Wiper High Relay	OFF	-
<input type="checkbox"/> Room Lamp Output	OFF	-
<input type="checkbox"/> Tail Lamp Switch	OFF	-
<input type="checkbox"/> Auto Light Switch (Option)	OFF	-
<input type="checkbox"/> Head Lamp Switch	OFF	-
<input type="checkbox"/> Head Lamp High Switch	OFF	-
<input type="checkbox"/> Front Fog Switch (Option)	OFF	-
<input type="checkbox"/> Tail AV	ON	-
<input type="checkbox"/> Puddle Lamp Output	OFF	-
<input type="checkbox"/> Key Inter Lock Switch(Manual Key Type)	ON	-
<input type="checkbox"/> ATM solenoid Output	OFF	-
<input type="checkbox"/> Safety Power Window Enable	ON	-
<input type="checkbox"/> Assist Seat Belt Indicator (Option)	OFF	-
<input type="checkbox"/> Crash Input Signal	OFF	-
<input type="checkbox"/> Rain Sensor Option Line	NON RAIN	-
<input type="checkbox"/> PAS Option Line	OFF	-
<input type="checkbox"/> Brake Switch	OFF	-
<input type="checkbox"/> Sunroof Open	OFF	-
<input type="checkbox"/> Head Lamp Passing Switch	OFF	-
<input type="checkbox"/> Wiper Low Switch	OFF	-
<input type="checkbox"/> Wiper High Switch	OFF	-
<input type="checkbox"/> Front Wiper Backup Switch	OFF	-