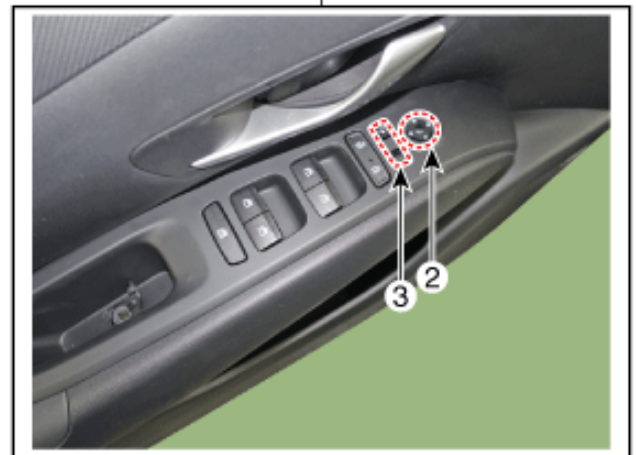
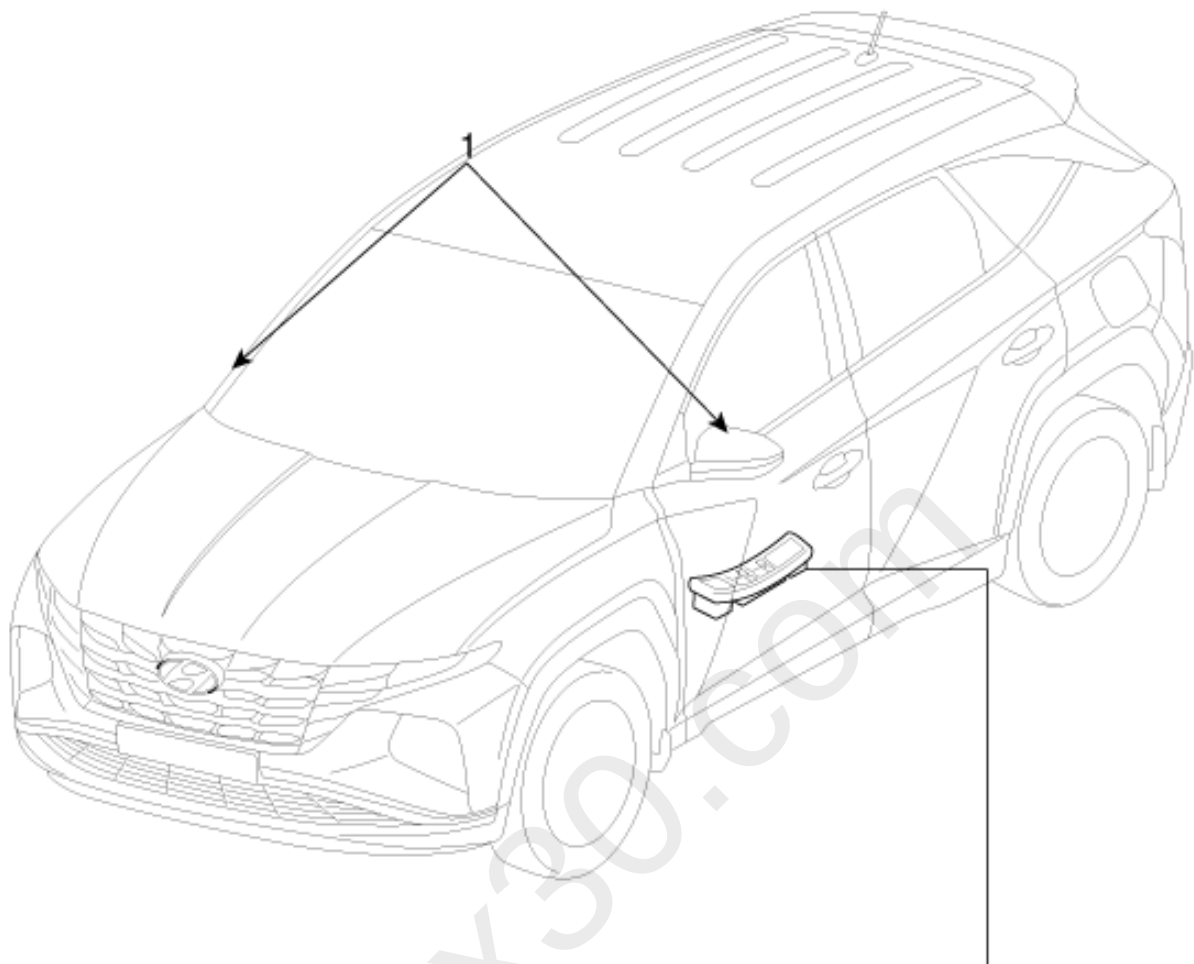
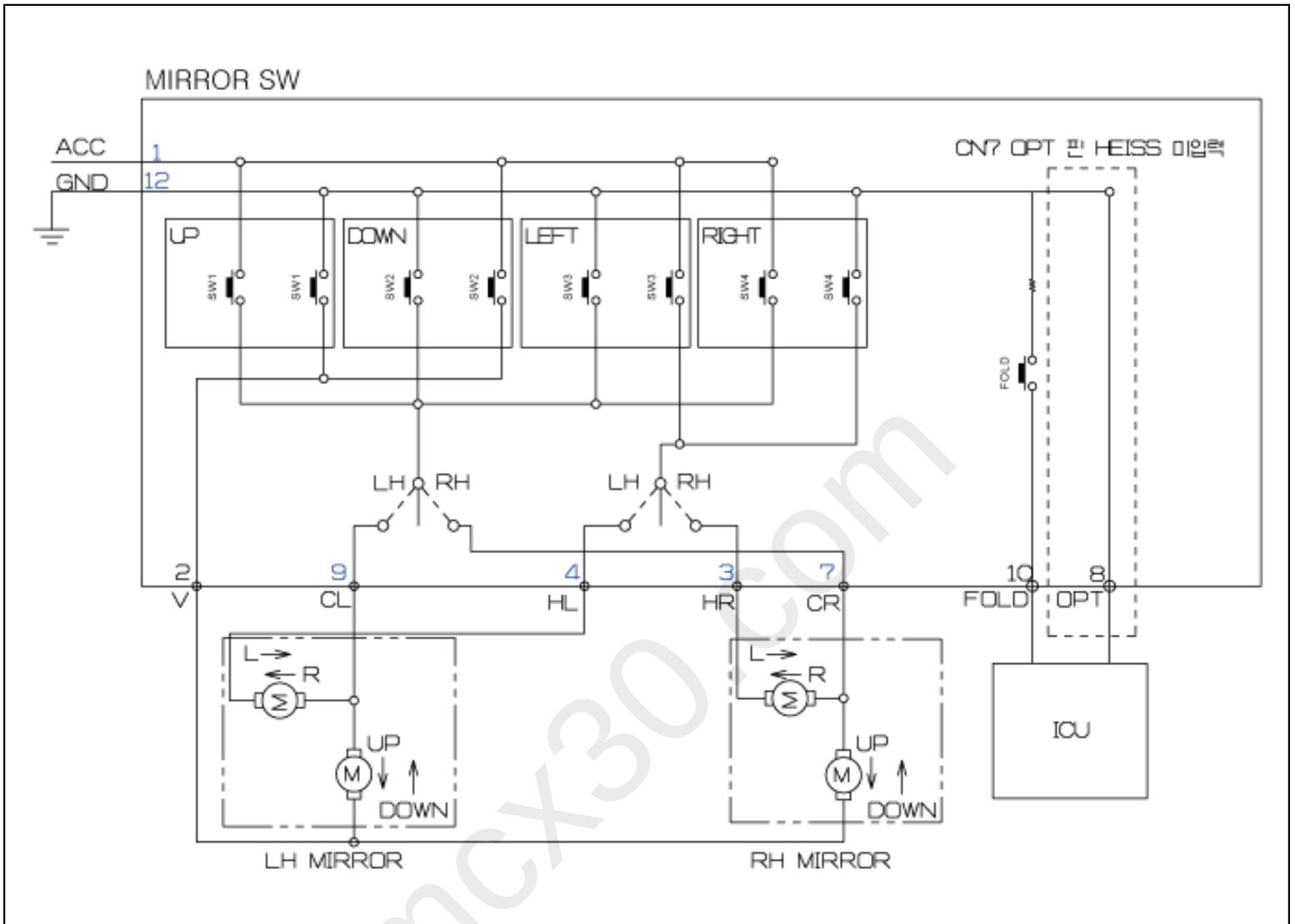


Component  
Location



- 1. Power door mirror
- 2. Power door mirror switch

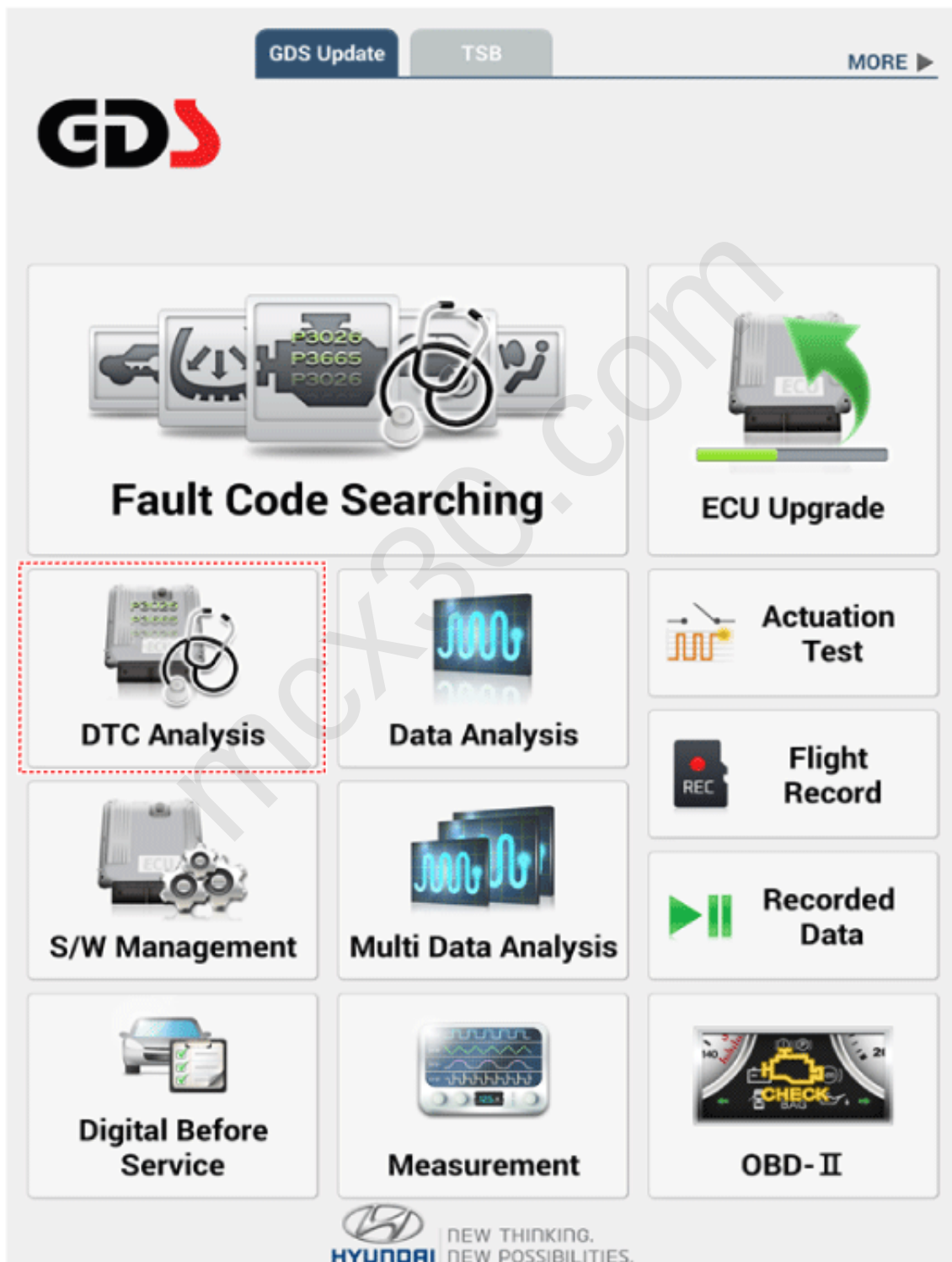
- 3. Power folding mirror switch



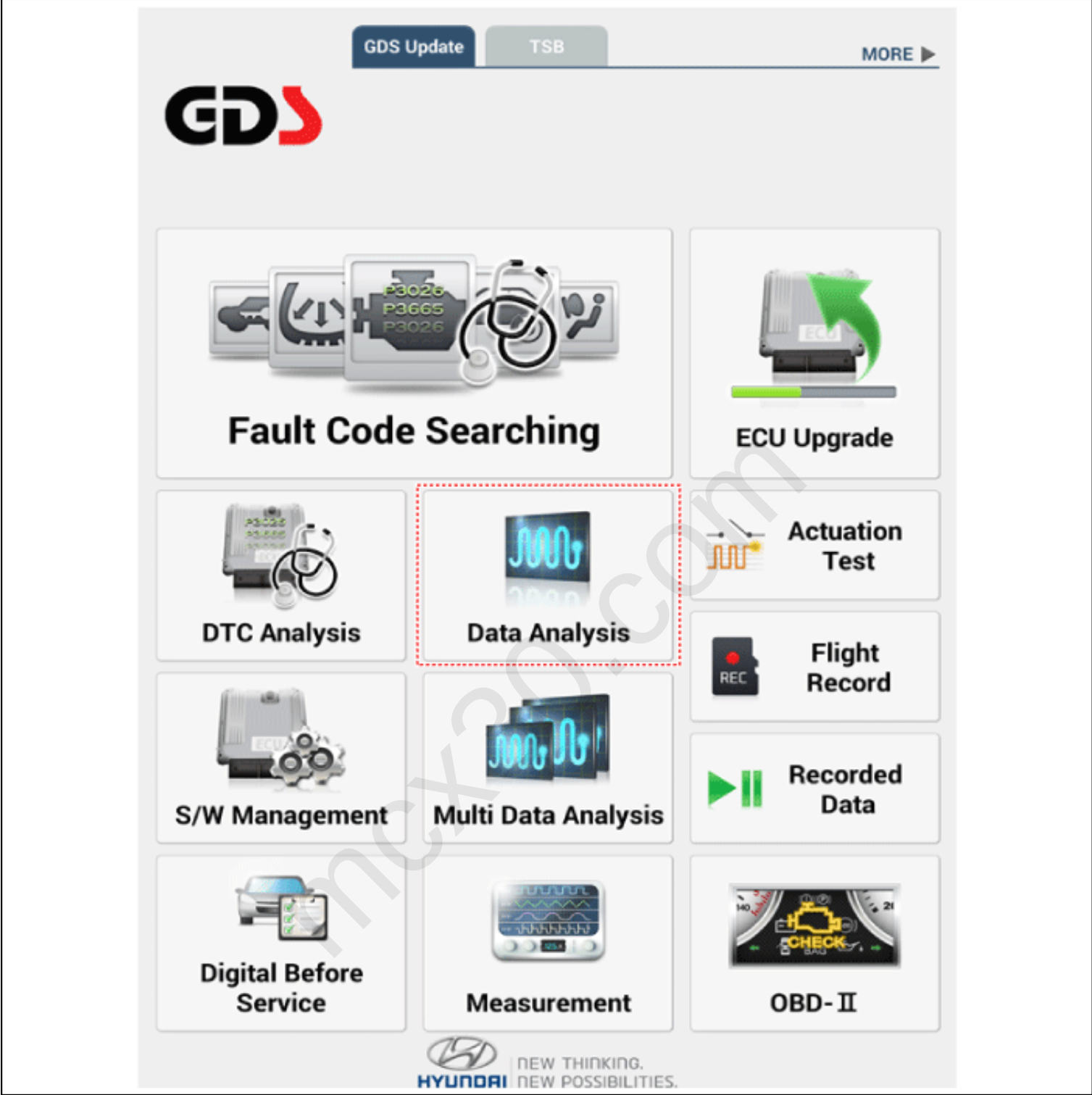
## Inspection

### Diagnosis with diagnostic tool

1. In the body electrical system, failure can be quickly diagnosed by using the vehicle diagnostic system (diagnostic tool).  
The diagnostic system (diagnostic tool) 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".



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



4. Select the 'IBU\_BCM' to search the current state of the input/output data.



| Data Analysis                                                                                        |       |      |         |
|------------------------------------------------------------------------------------------------------|-------|------|---------|
| <div> <div>Stop</div> <div>Graph</div> <div>Selective Display</div> <div>Actuation Test</div> </div> |       |      |         |
| Sensor Name(67)                                                                                      | Value | Unit | Link Up |
| Head Lamp Escort                                                                                     | ON    | -    |         |
| Rear Wiper Option Setting                                                                            | ON    | -    |         |
| Welcome Mirror or Light (Enable on Door Unlock)                                                      | ON    | -    |         |
| Welcome Mirror or Light (Enable on Driver Approach)                                                  | ON    | -    |         |
| Battery Voltage Monitoring Input                                                                     | 11.6  | V    |         |
| Light Switch Voltage(Voltage Divided)                                                                | 2.0   | V    |         |
| Head Lamp High Switch Voltage(Voltage Divided)                                                       | 5.0   | V    |         |
| Fog Lamp Switch Voltage(Voltage Divided)                                                             | 5.0   | V    |         |
| Front Wiper Switch Voltage(Voltage Divided)                                                          | 2.2   | V    |         |
| Wiper INT Volume Voltage(Voltage Divided)                                                            | 2.8   | V    |         |
| Rear Wiper Switch Voltage(Voltage Divided)                                                           | 5.0   | V    |         |
| ACC Input Voltage                                                                                    | 0.00  | V    |         |
| Ignition 1 Voltage                                                                                   | 0.00  | V    |         |
| Ignition 2 Voltage                                                                                   | 0.00  | V    |         |
| ACC                                                                                                  | OFF   | -    |         |
| IGN1                                                                                                 | OFF   | -    |         |
| IGN2                                                                                                 | OFF   | -    |         |
| Security LED                                                                                         | ON    | -    |         |
| PAS Switch/RPAS OFF Switch                                                                           | OFF   | -    |         |
| PAS Indicator/RPAS OFF Indicator                                                                     | OFF   | -    |         |

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

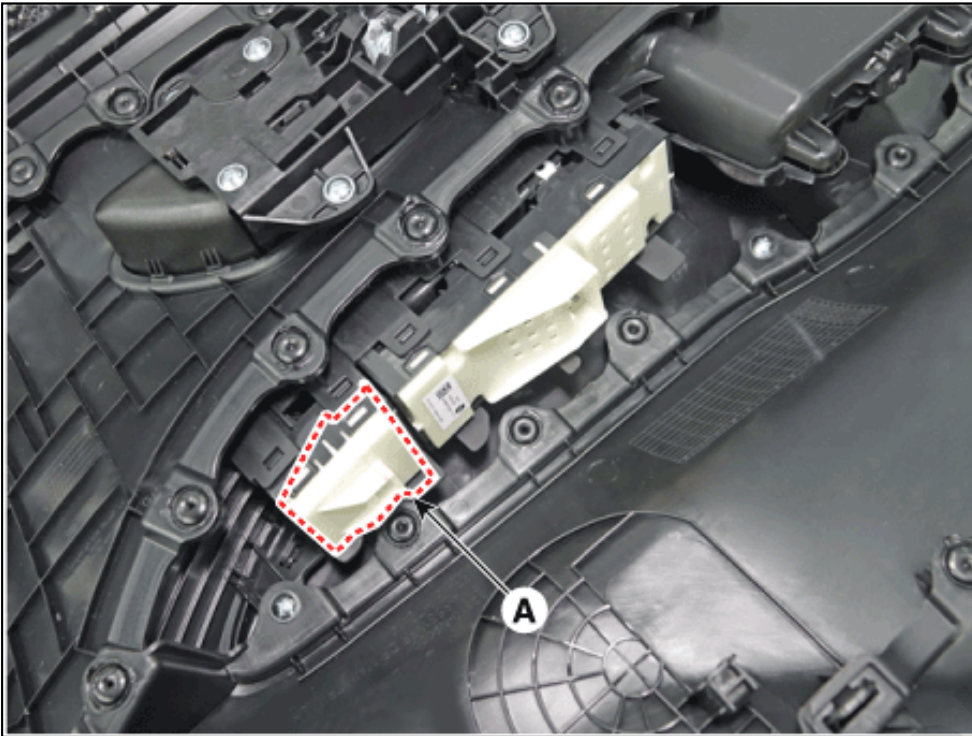
| Actuation Test                                                                                                                     |             |      |   |   |
|------------------------------------------------------------------------------------------------------------------------------------|-------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ● Test Item(17)                                                                                                                    |             |      |                                                                                     |                                                                                     |
| AI M Solenoid                                                                                                                      |             |      |  |                                                                                     |
| Assist Seat Belt Indicator (Option)                                                                                                |             |      |  |                                                                                     |
| Rear Seat Belt Left Indicator (Option)                                                                                             |             |      |  |                                                                                     |
| Rear Seat Belt Right Indicator (Option)                                                                                            |             |      |  |                                                                                     |
| External Buzzer Output                                                                                                             |             |      |  |                                                                                     |
| Sunroof Power Relay control(Optional)                                                                                              |             |      |  |                                                                                     |
| Heated Handle Output(Optional)                                                                                                     |             |      |  |                                                                                     |
| Heated Handle Indicator(Optional)                                                                                                  |             |      |  |                                                                                     |
| Mirror Folding Operation                                                                                                           |             |      |  |                                                                                     |
| Mirror Unfolding Operation                                                                                                         |             |      |  |                                                                                     |
| Data Analysis                                                                                                                      |             |      |    |  |
| <div> <div>&lt;</div> <div>Stop</div> <div>Graph</div> <div>Selective Display</div> <div>Data Capture</div> <div>&gt;</div> </div> |             |      |                                                                                     |                                                                                     |
| Sensor Name(90)                                                                                                                    | Value       | Unit |                                                                                     |                                                                                     |
| Head Lamp Escort                                                                                                                   | ON          | -    |                                                                                     |                                                                                     |
| Auto Door Lock State                                                                                                               | Shift Lever | -    |                                                                                     |                                                                                     |
| Auto Door Unlock Status                                                                                                            | Shift-lever | -    |                                                                                     |                                                                                     |
| 2-Turn Unlock                                                                                                                      | ON          | -    |                                                                                     |                                                                                     |
| Rear Wiper Option Setting                                                                                                          | ON          | -    |                                                                                     |                                                                                     |
| RK RX Status                                                                                                                       | NO RX       | -    |                                                                                     |                                                                                     |
| Number of RK(+RK)                                                                                                                  | 0           | -    |                                                                                     |                                                                                     |
| Battery Voltage Monitoring Input                                                                                                   | 7.0         | V    |                                                                                     |                                                                                     |

#### Removal

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

**(Refer to Body - "Front Door Trim")**

3. Remove the mirror switch assembly (A)



#### Installation

1. Install the power mirror switch.
2. Install the front door trim after connecting the connector.
3. Connect the negative (-) battery terminal.

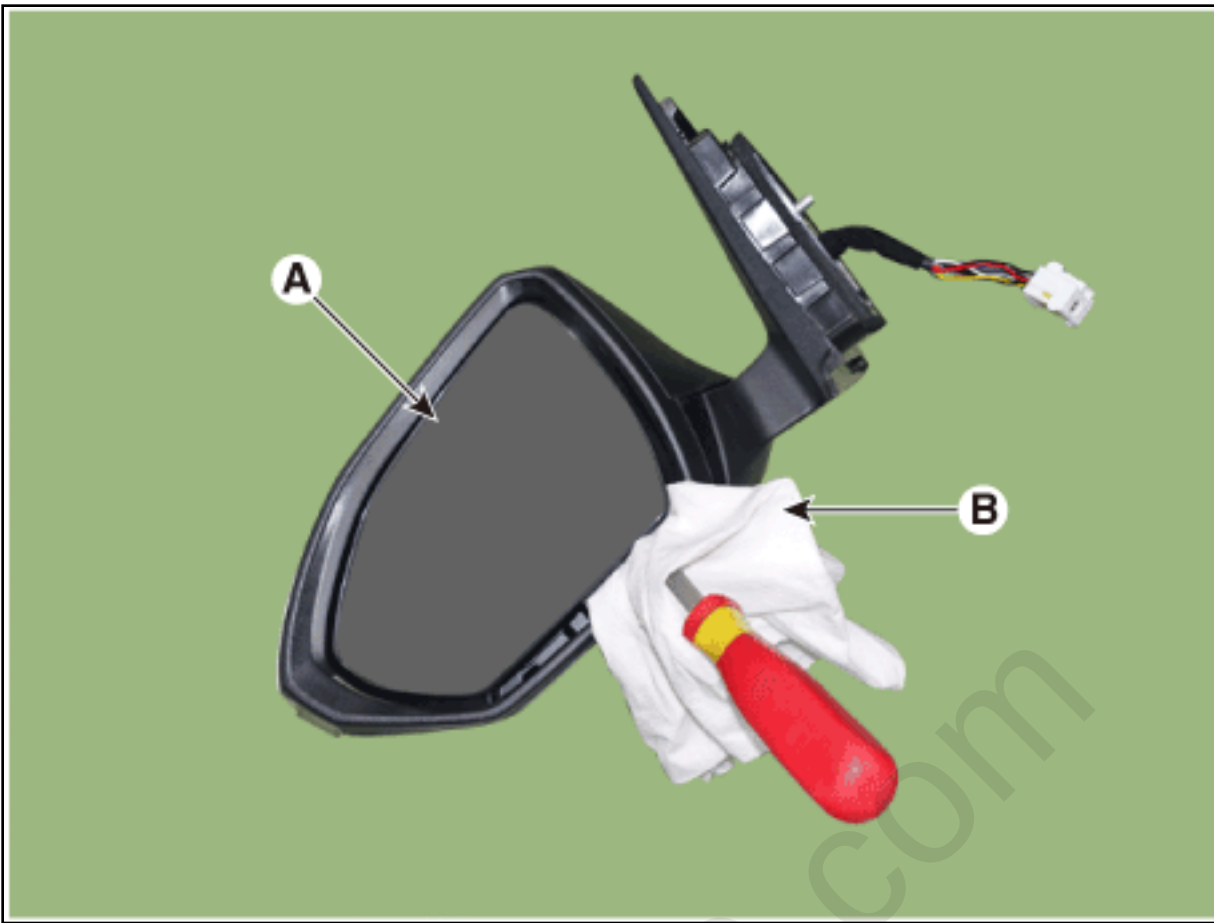
## Removal



- When removing with a flat-tip screwdriver or remover, wrap protective tape around the tools to prevent damage to components.
- Put on gloves to prevent hand injuries.

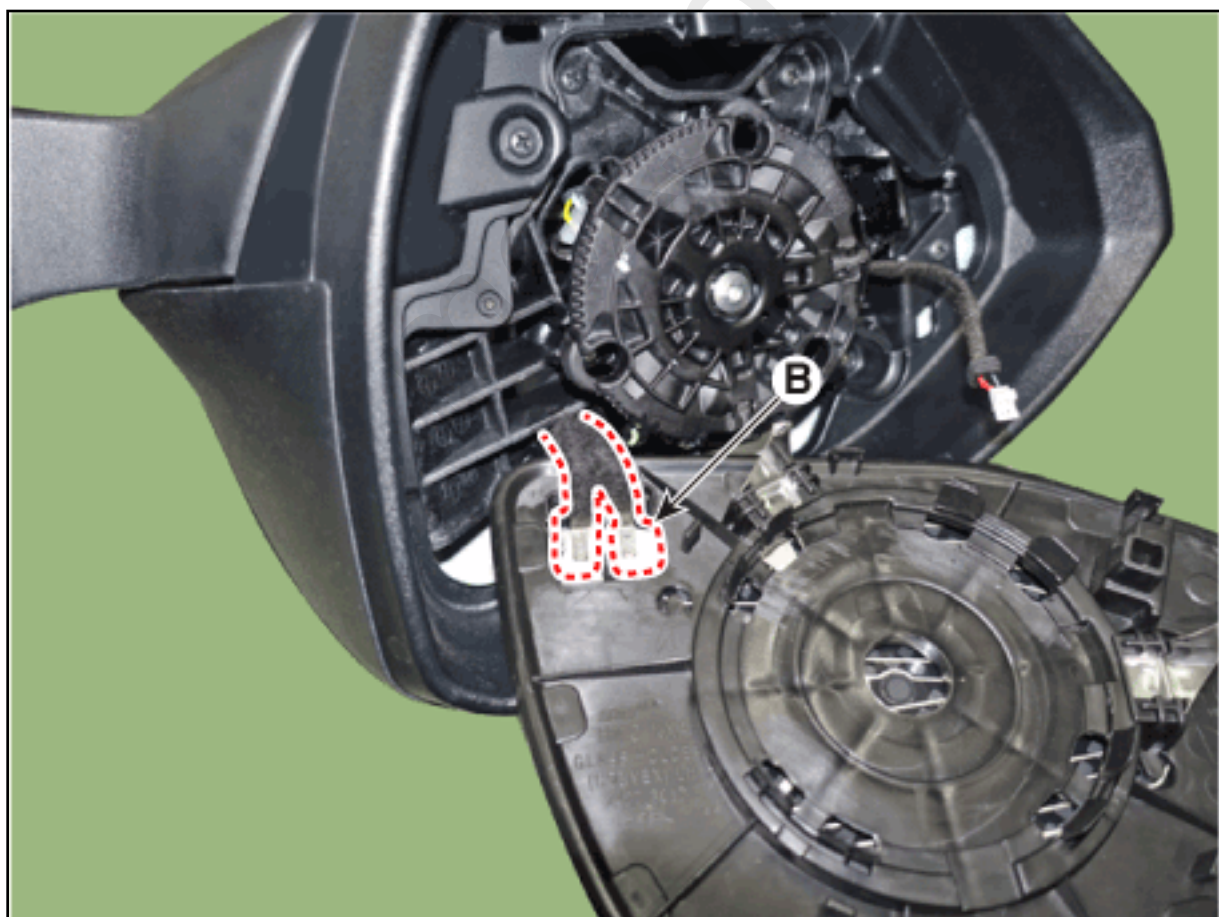
1. Disconnect (-) battery terminal.
2. Using a fastener remover (C), remove the mirror (A) as illustration below.



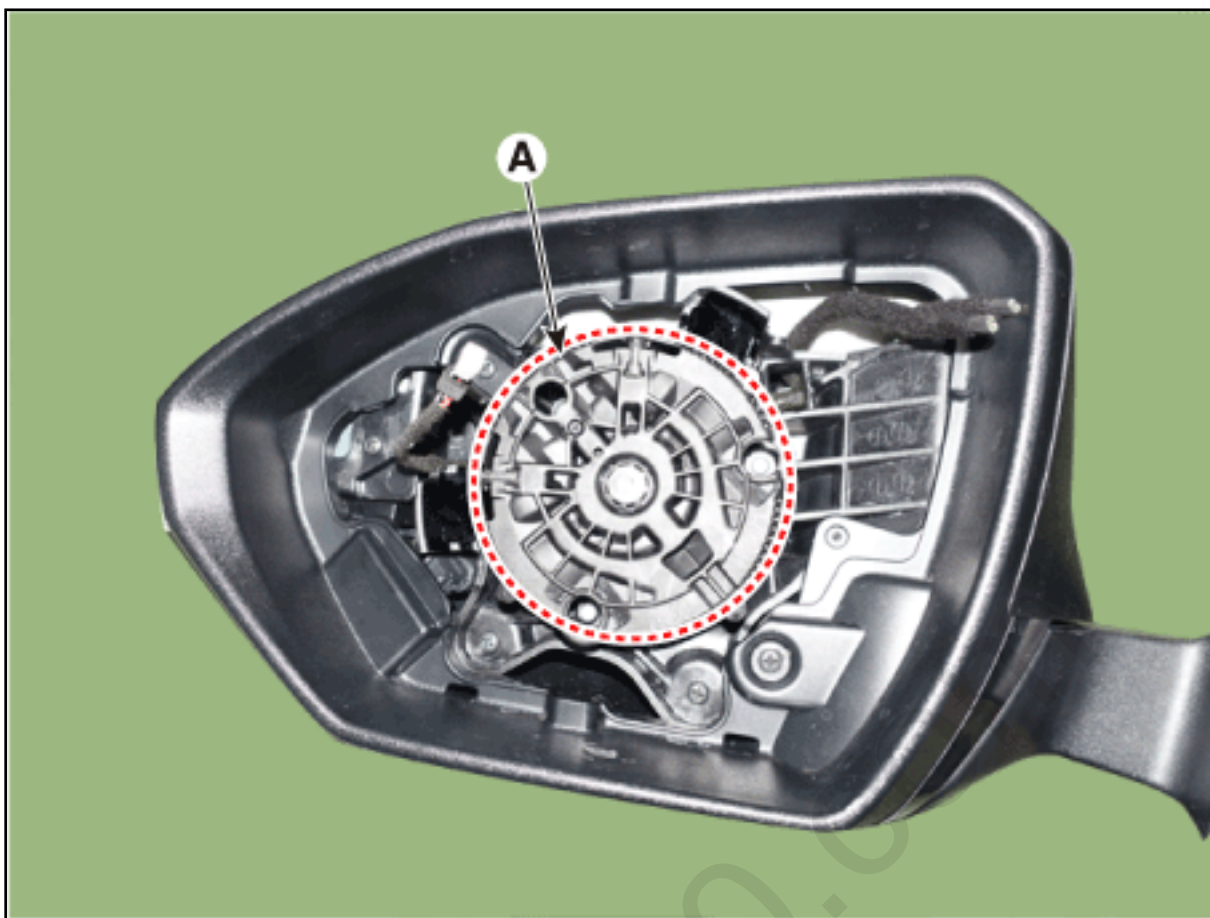


- Protect mirror from removing tool with cloth (B) wrapped.
- Be careful not to damage mirror and mirror housing during removing process.
- Apply force around the center of mirror because to apply force the end of mirror will break it.

3. Disconnect heat wire connectors (B) and BCW warning indicator connector (A).



4. Remove the mirror actuator after loosening mounting screws.



5. Disconnect the connector (A) and then remove the mirror actuator.



### Installation

1. Connect the actuator connector and then install the mirror actuator.
2. Connect mirror heat wire connector and then install the mirror.
3. Connect (-) battery terminal then check if mirror works normally.

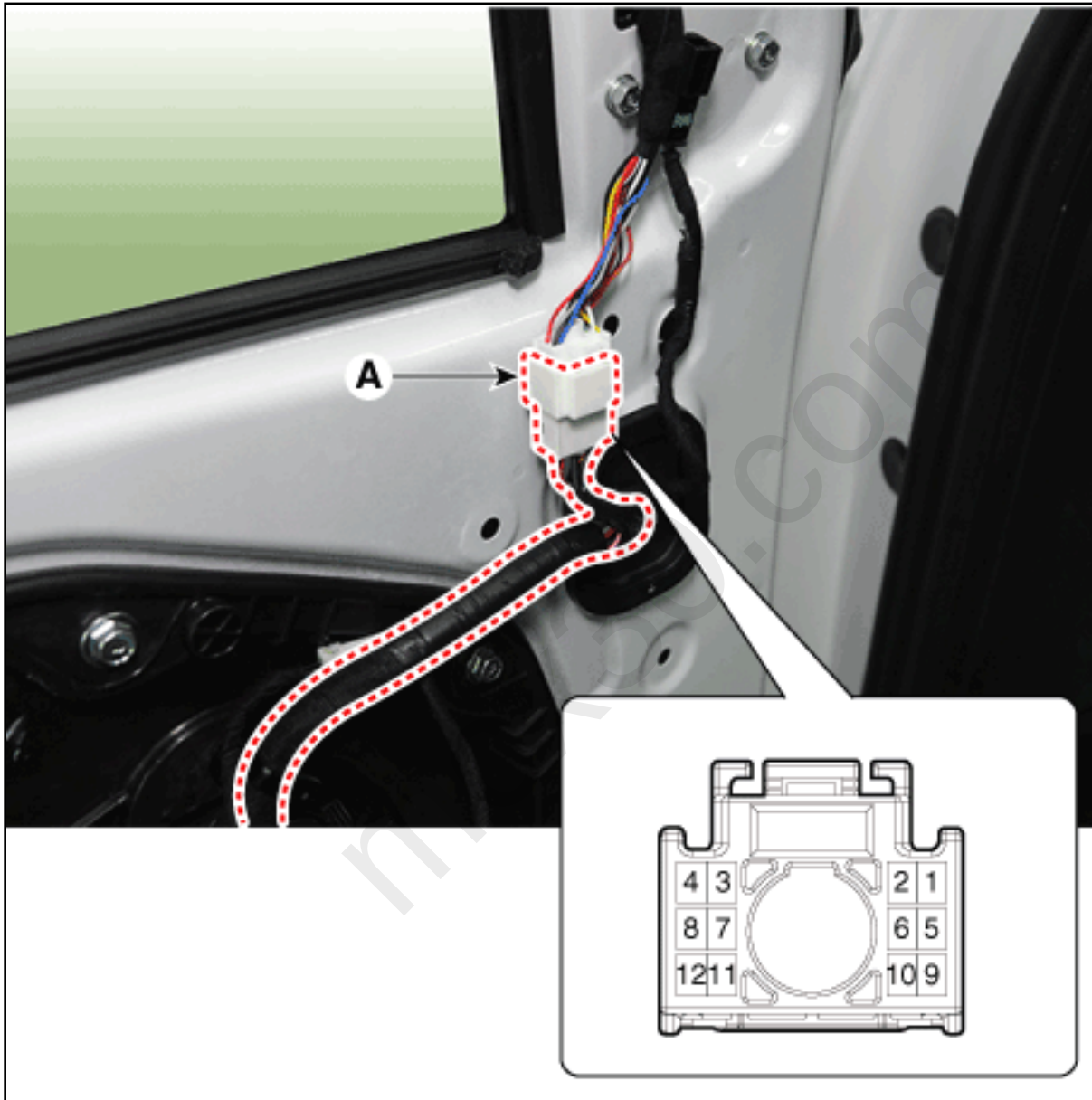
## Inspection

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

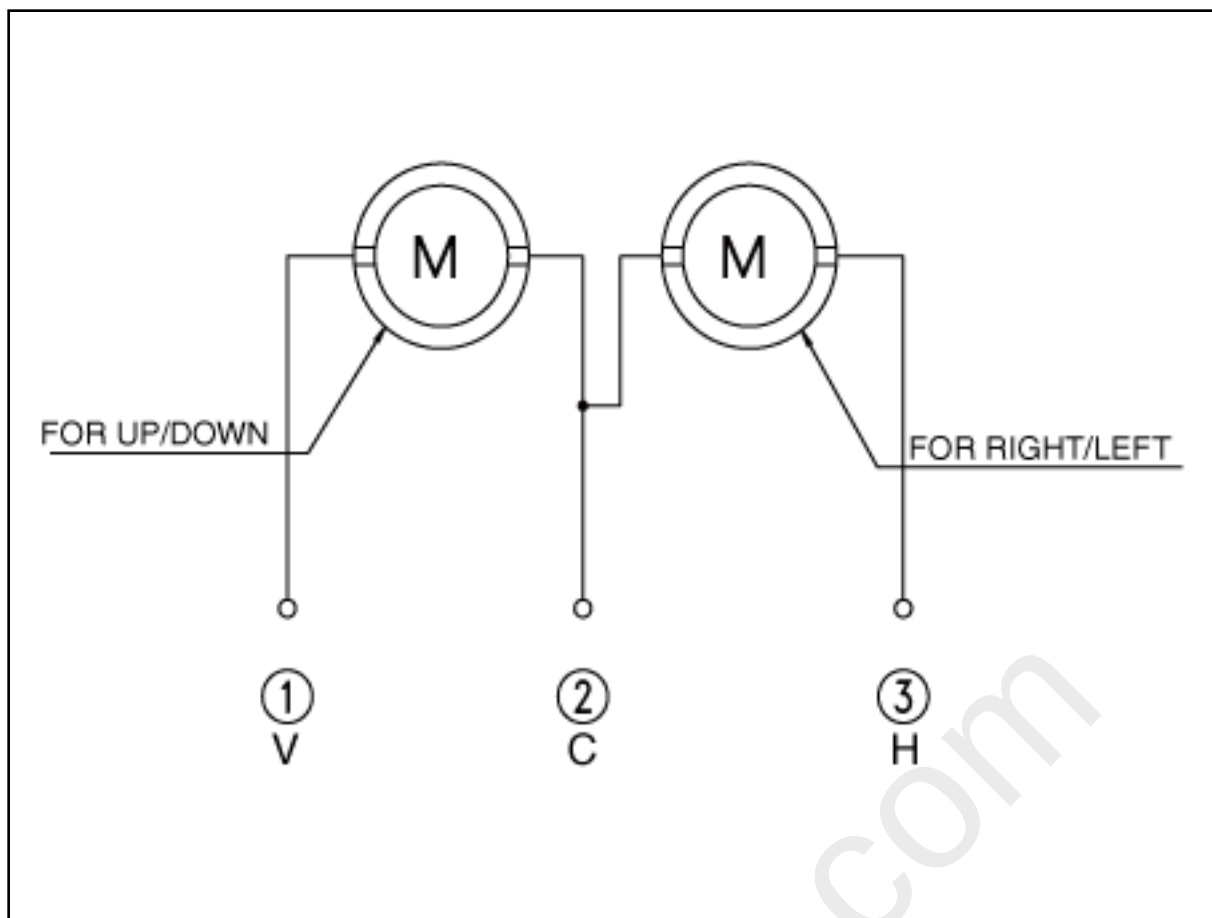
**(Refer to Body - "Front Door Trim")**

3. Disconnect the power door mirror connector (A) from the harness.

Apply battery voltage to each terminal as shown in the table and verify that the mirror operates properly.



Actuator



|           |       | H     | C     | V     | V : Vertical<br>C : Common<br>H : Horizontal |   |
|-----------|-------|-------|-------|-------|----------------------------------------------|---|
|           |       | ③     | ②     | ①     | B+                                           | E |
| LH/<br>RH | UP    | ○ — ○ |       | ○ — ○ |                                              |   |
|           | DOWN  | ○ — ○ |       | ○ — ○ |                                              |   |
|           | RIGHT | ○ — ○ | ○ — ○ | ○ — ○ |                                              |   |
|           | LEFT  | ○ — ○ | ○ — ○ | ○ — ○ |                                              |   |

img

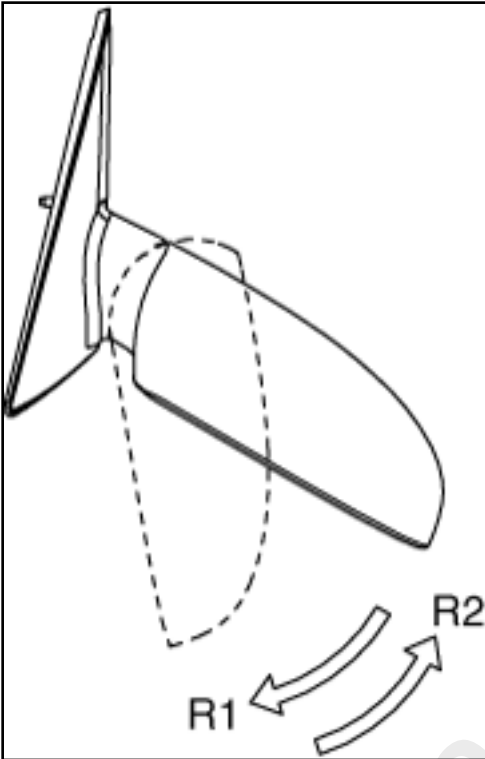
Mirror Heater

img

Turn Signal Lamp

img

Folding Mirror



img

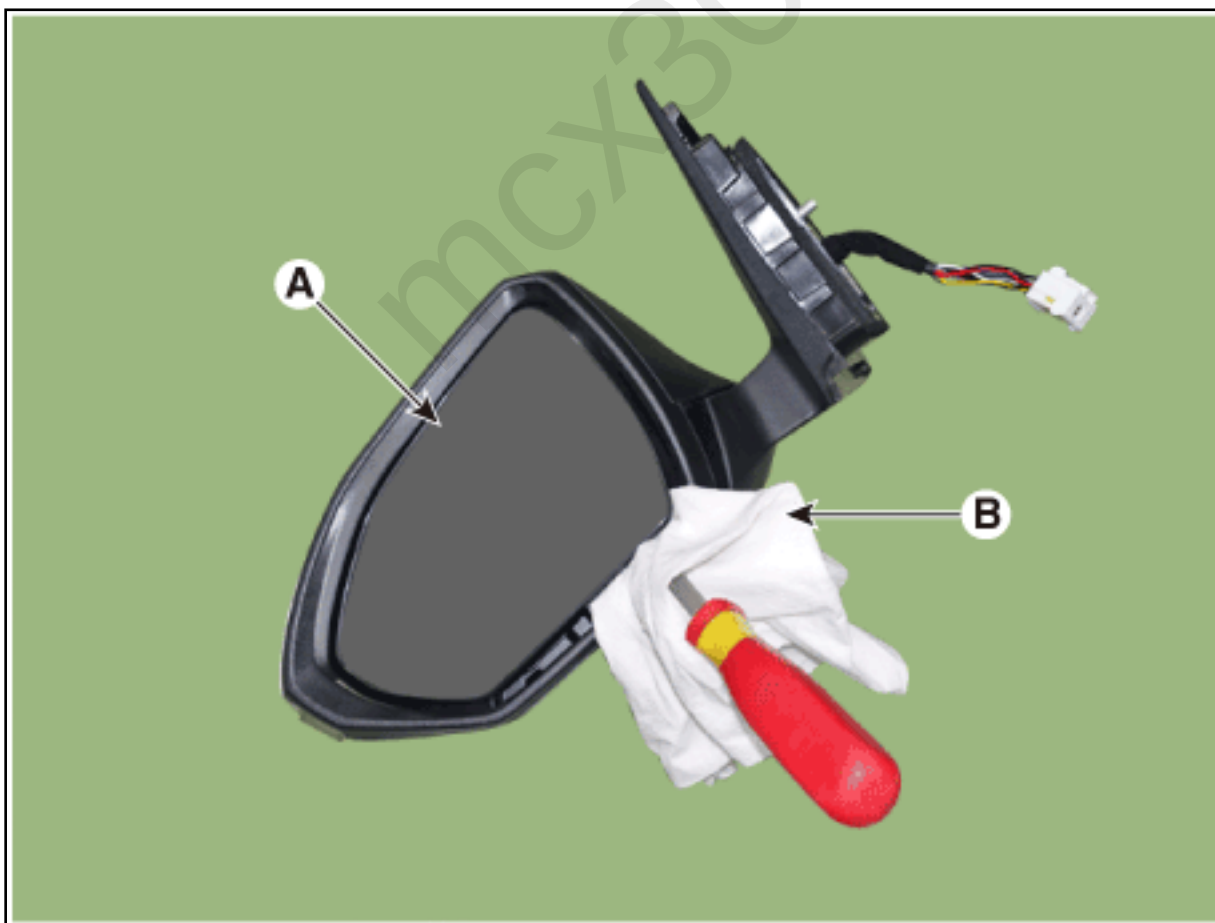
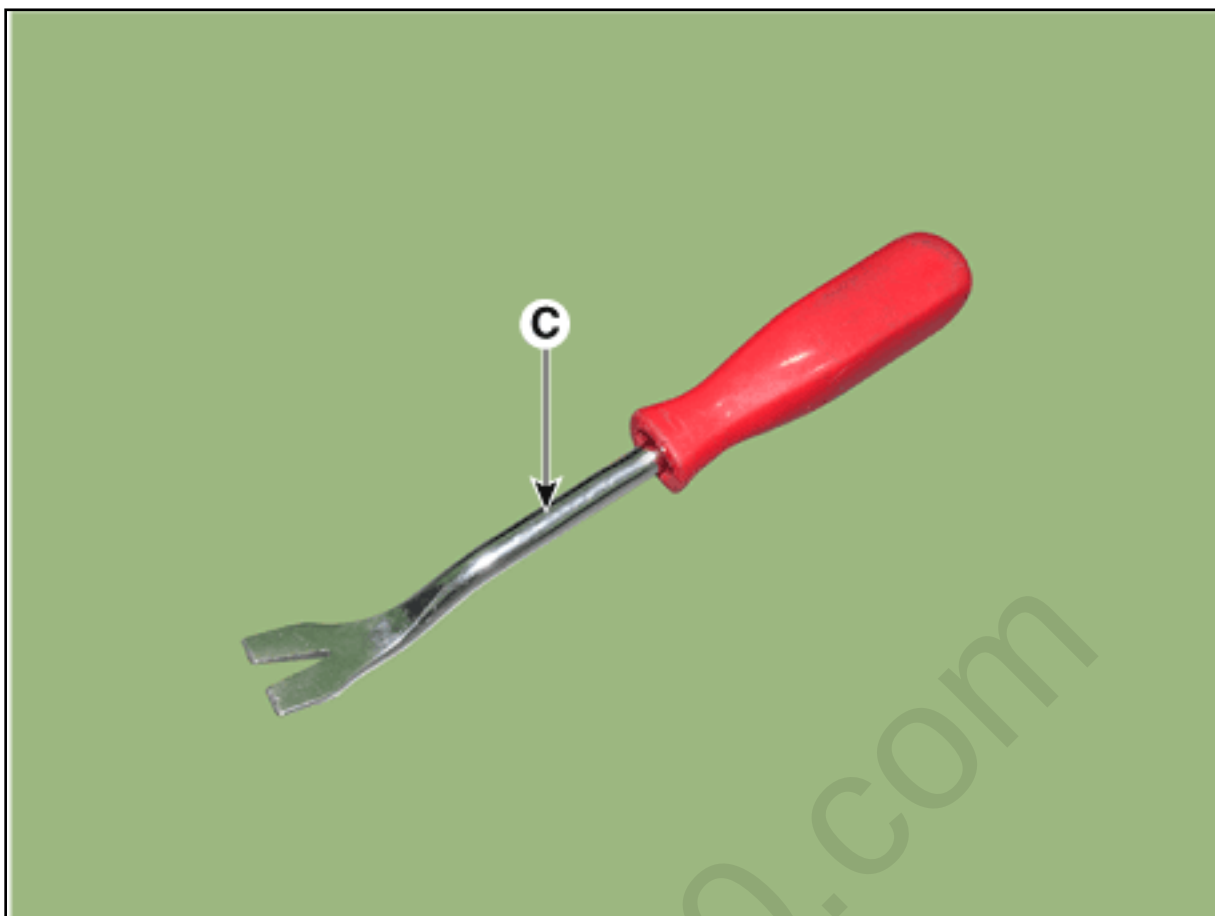
Removal



- When removing with a flat-tip screwdriver or remover, wrap protective tape around the tools to prevent damage to components.
- Put on gloves to prevent hand injuries.

1. Disconnect (-) battery terminal.
2. Remove the outside rear view mirror.  
**(Refer to Body - "Outside Rear View Mirror")**

3. Using a fastener remover (C), remove the mirror (A) as illustration below.

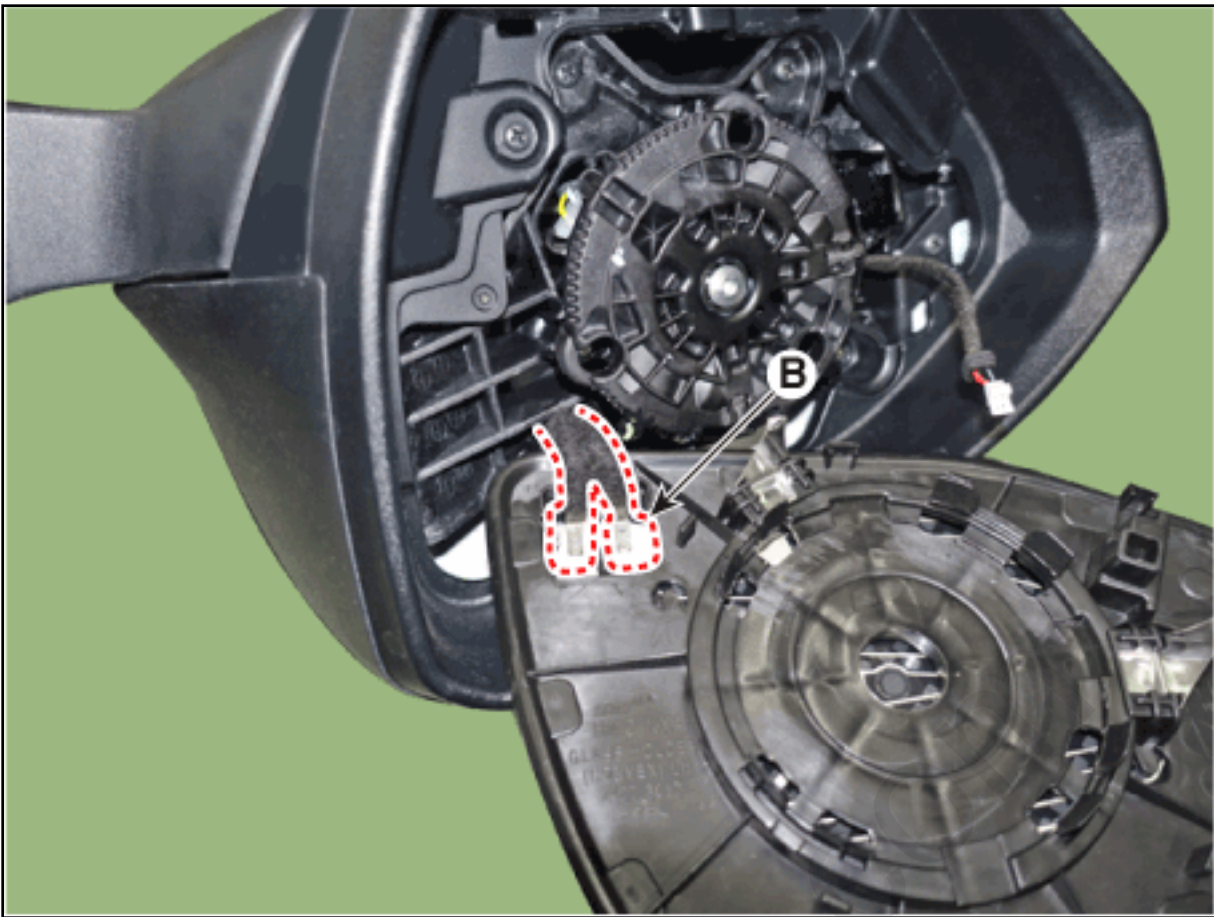




- Protect mirror from removing tool with cloth (B) wrapped.
- Be careful not to damage mirror and mirror housing during removing process.
- Apply force around the center of mirror because to apply force the end of mirror will break it.

4. isconnect heat wire connectors (B) and BCW warning indicator connector (A).





5. Remove the scalp.

1) Attach protection tape at the end of the screw driver.



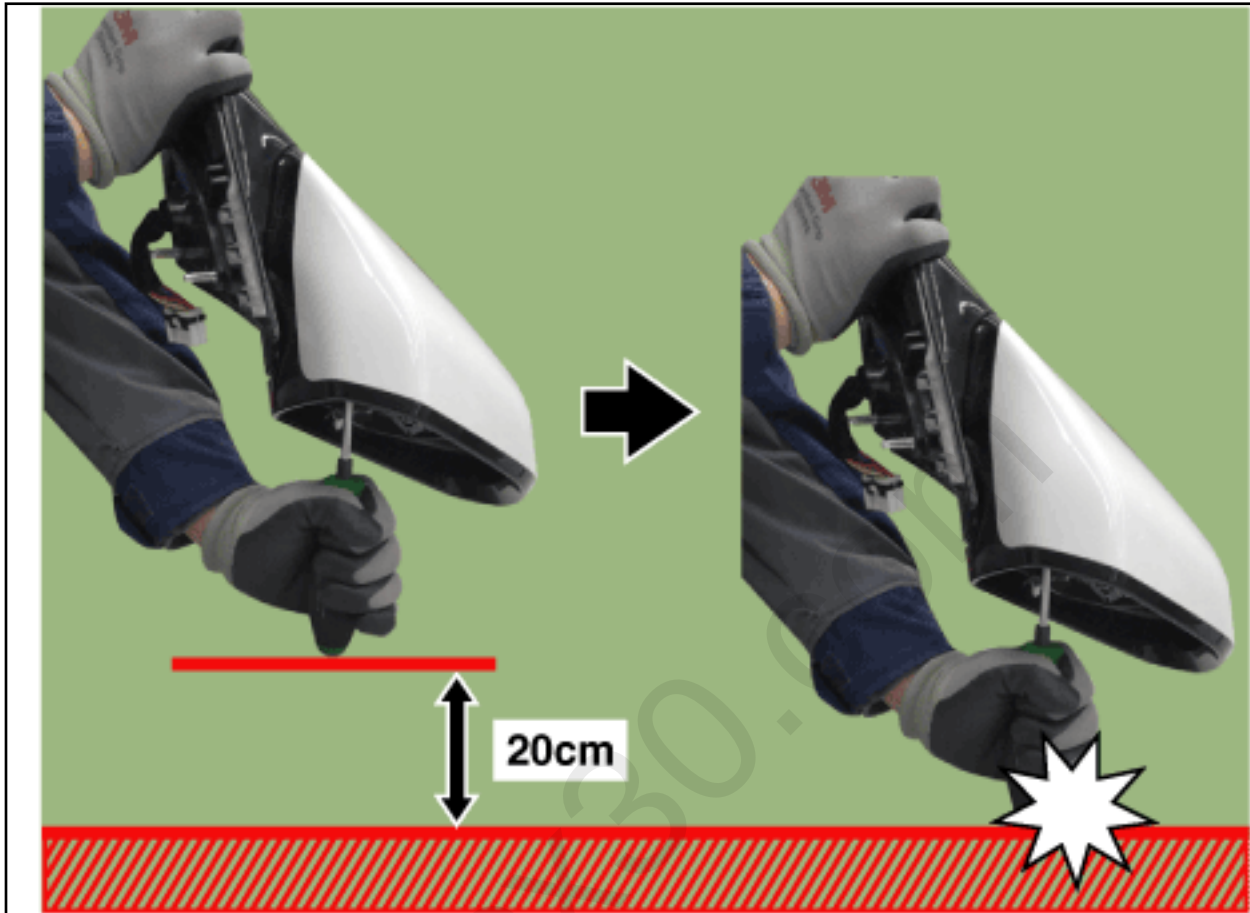
2) Insert screw driver in where you can see the back of scalp.





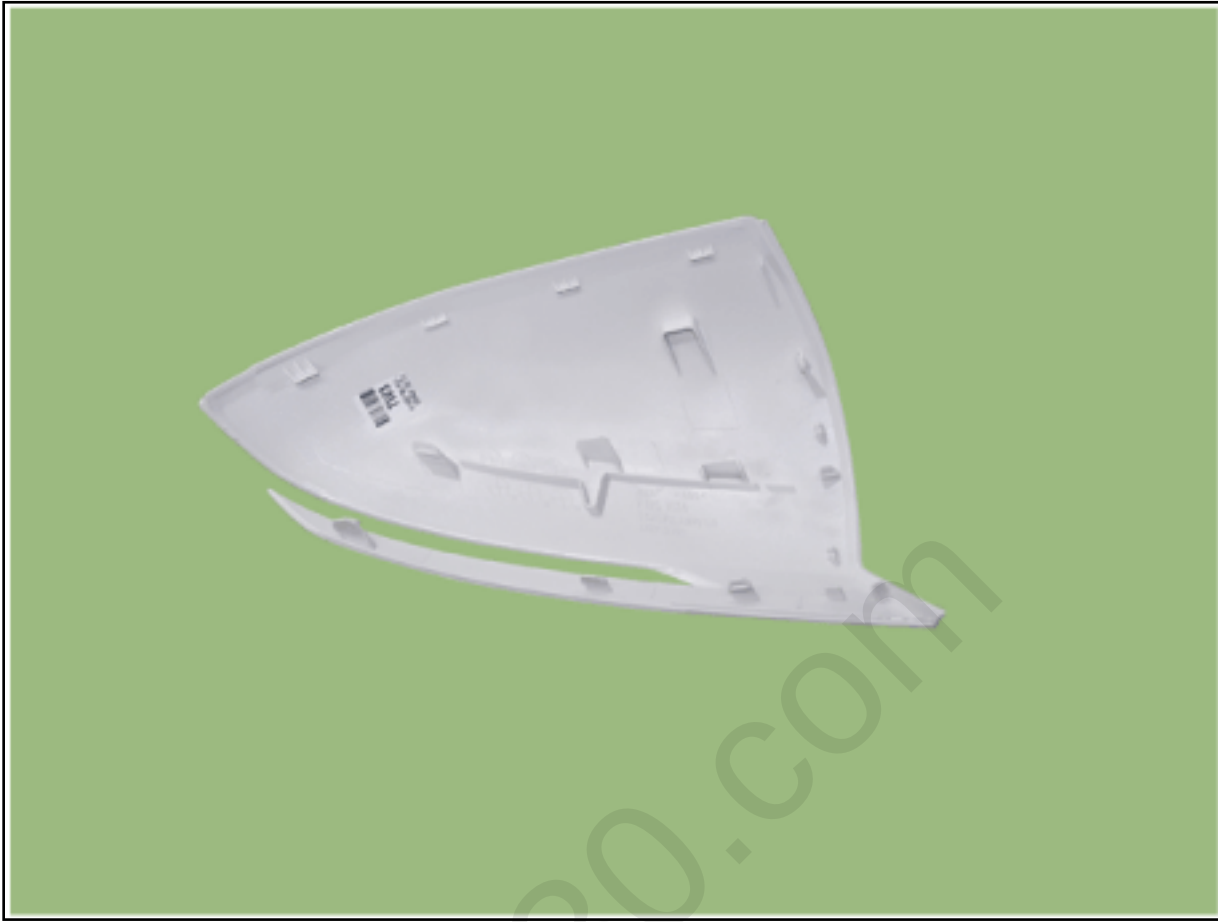
- When inserting screw driver, avoid to touch internal wires in the mirror housing.

3) Hold the mirror assembly with one hand and hold the screwdriver with the other hand and strike it vertically as shown illustration below.

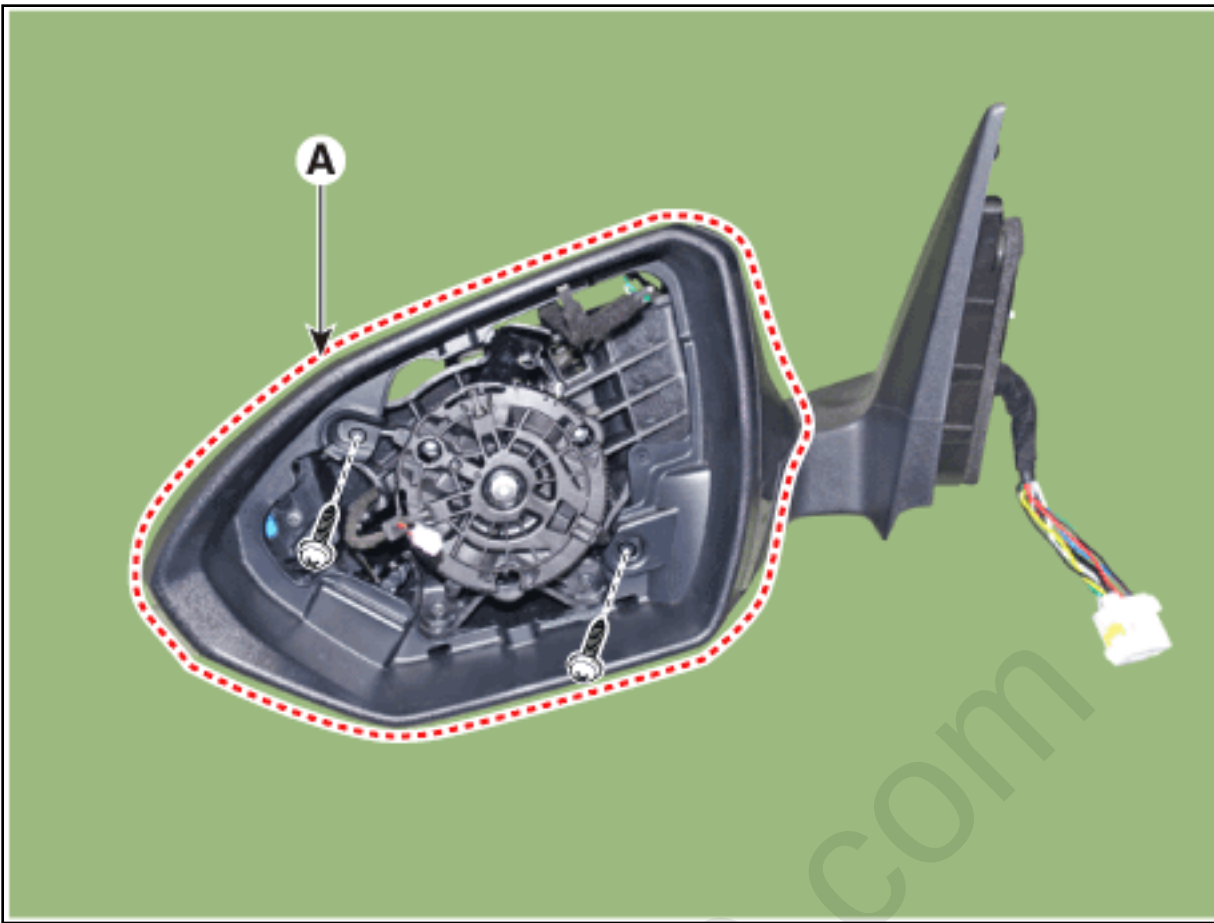


- It is the way that screw driver strikes inner side of scalp cover to remove.
- Lift screw driver and door mirror assembly about 20cm height from floor then smash them vertically.
- Scalp is thrown and removed because screw driver push the back of scalp cover to remove.
- After removing the scalp, make sure that the clip and hook on the back of the scalp are not damaged.

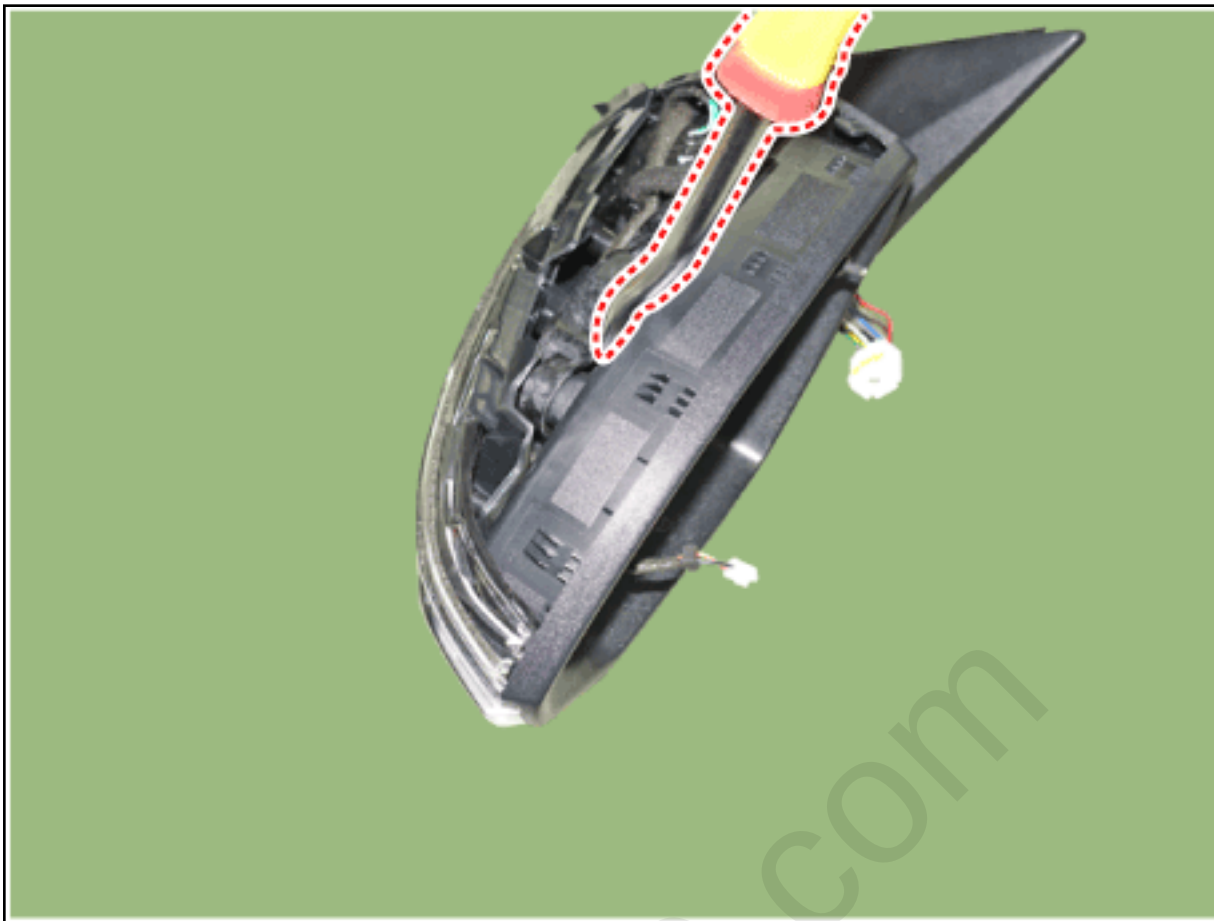
- If clips and hooks are damaged, replace the scalp with a new one as noise may occur in driving.



6. Remove the front housing cover (A) after loosening mounting screws.



- Insert flat-tip screwdriver between housing cover and housing as shown illustration below.



#### Installation

1. Install the front housing cover.
2. Install the scalp.



- Install the scalp in the vertical direction that the inner fixing hook is not damaged.
- When scalp installing, install the folded area first and then the far area.
- Pushing the around of scalp with both hands and then make sure that it is completely installed.

3. Connect mirror heat wire connector and BSD connector then install the mirror.
4. Install the door mirror assembly.
5. Connect (-) battery terminal then check if door mirror works normally.