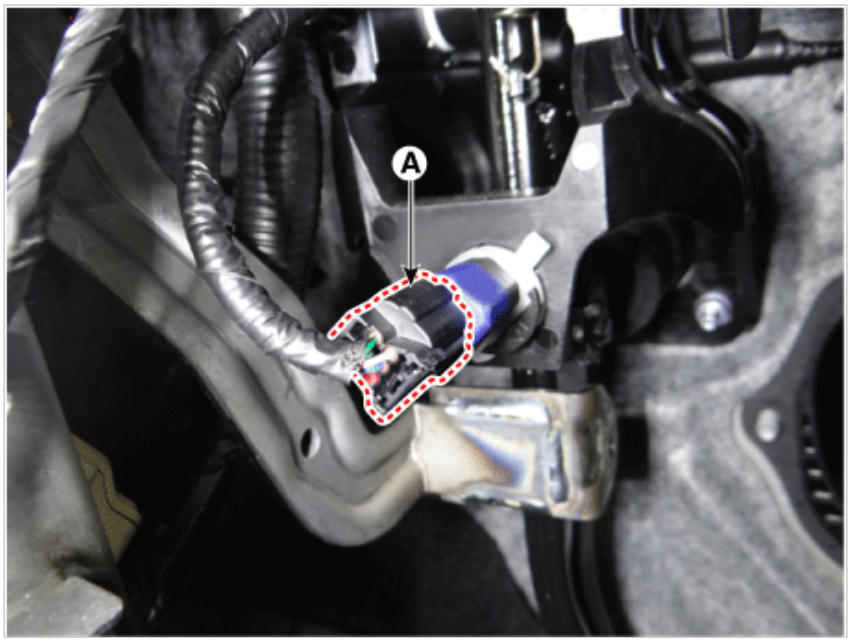
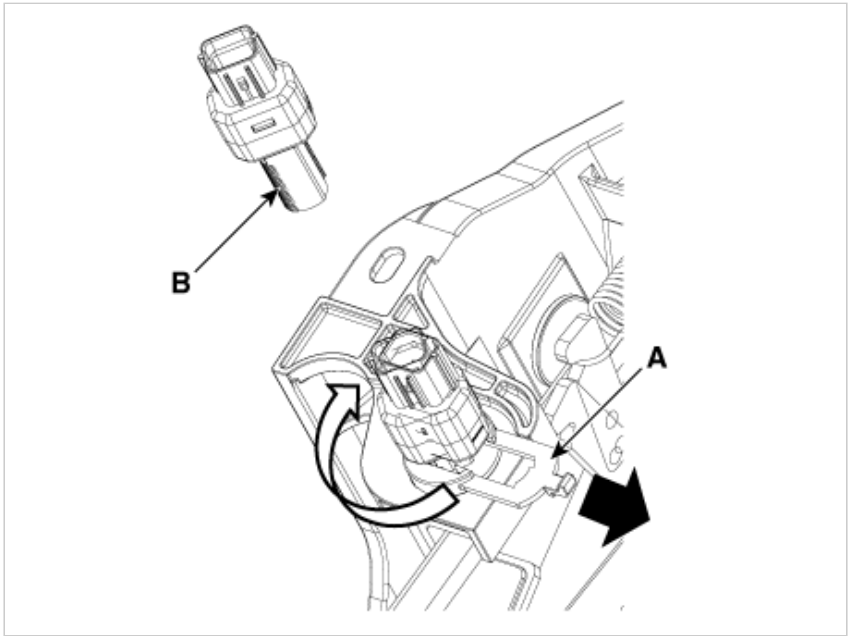
Removal

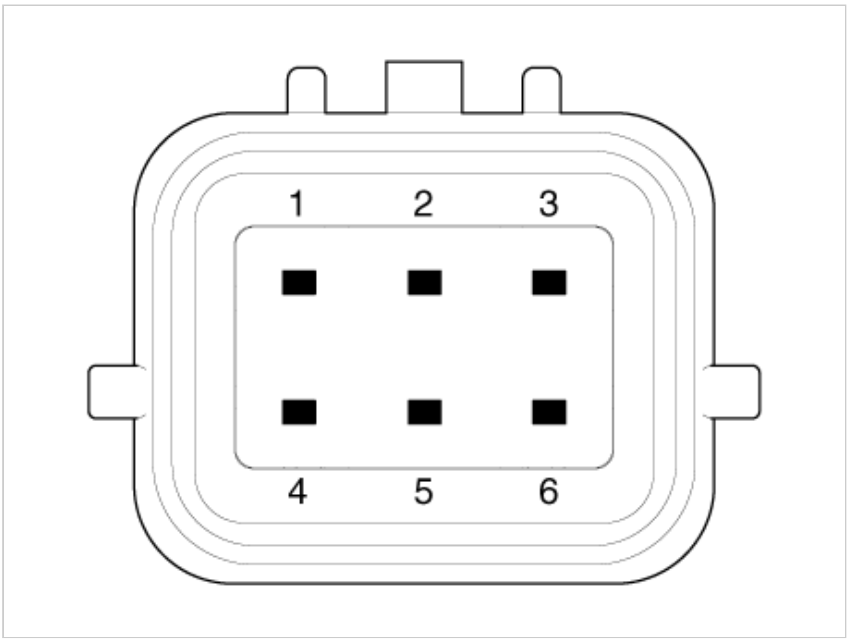
1. Turn ignition switch OFF and disconnect the negative (-) battery cable.
2. Remove the crash pad lower panel.
   (Refer to Body - "Crash Pad Lower Panel")
3. Remove the knee airbag.
   (Refer to Restraint - "Knee Airbag (KAB) Module")
4. Disconnect the brake lamp switch connector (A).



5. Pull the locking plate (A) as indicated by the arrow and then turn brake switch (B) 45° clockwise and remove it.



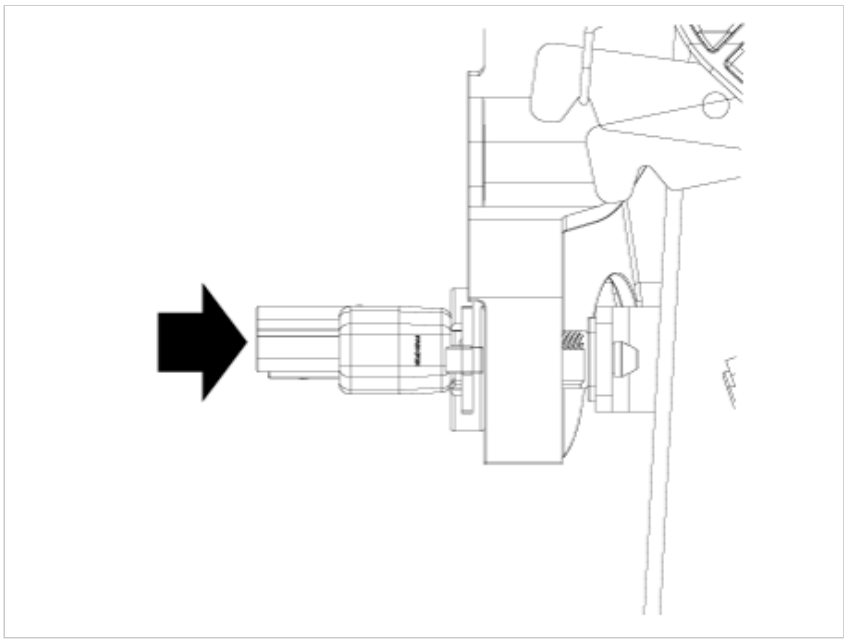
6. Inspect a removed stop lamp switch along the below procedures.
   (1) Confirm a normal connection with terminal part.
   – A confirmation can be made to see if the connector has been secured properly and if a connection mark is present.



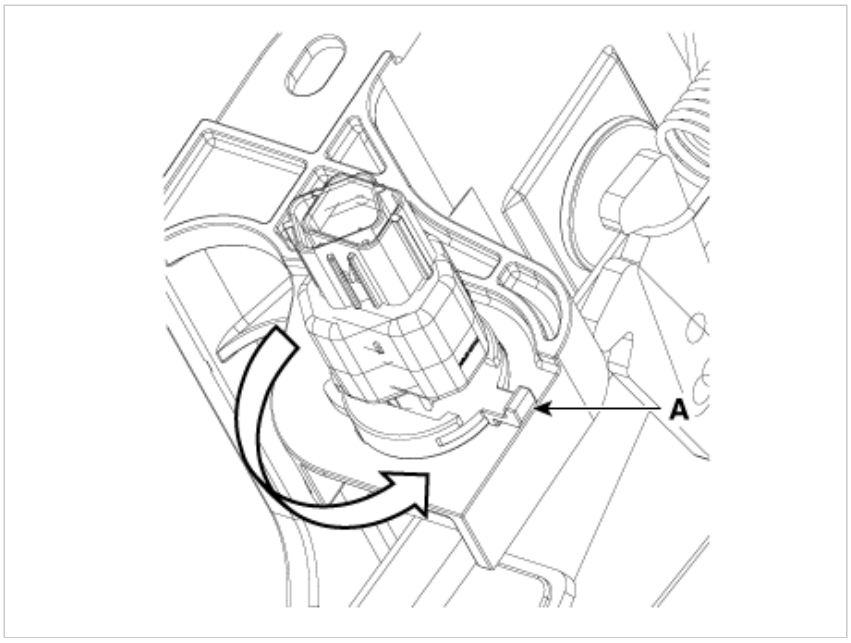
(2) Perform the inspection of parts resistance.

Installation

1. Fix the brake pedal arm and insert fully the brake switch so that the contact part is invisible.

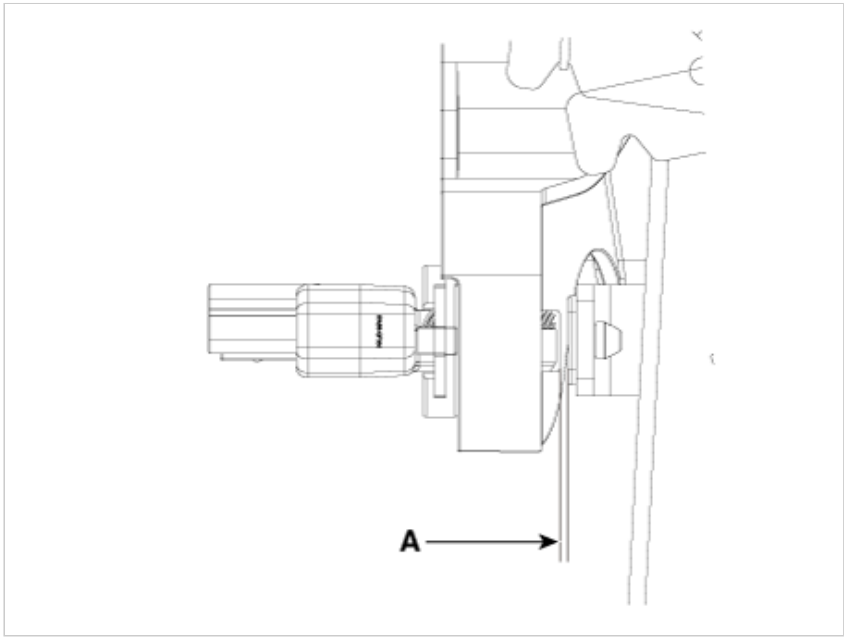


2. After inserting, turn the brake switch 45° counterclockwise, and then assemble locking plate by pushing.



3. Confirm the gap between stop lamp switch and bracket.

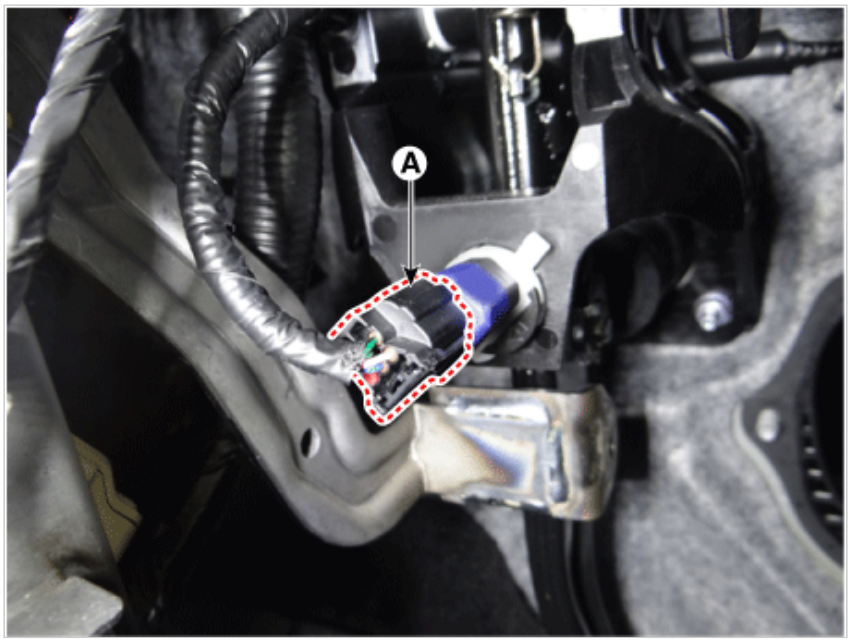
Stop lamp clearancee (A) :
1.0 - 2.0 mm (0.04 - 0.08 in.)



NOTICE

- If the gap between stop lamp switch and bracket is not between 1.0 - 2.0 mm (0.04 - 0.08 in), check the mounting clip and other parts around the stop lamp.
- If everything is normal, reinstall the stop lamp switch and check the clearance again.

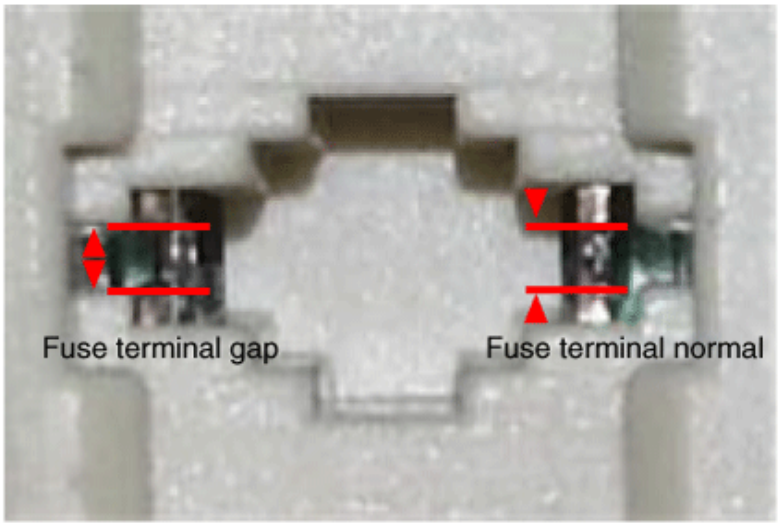
4. Install the stop lamp switch connector (A).

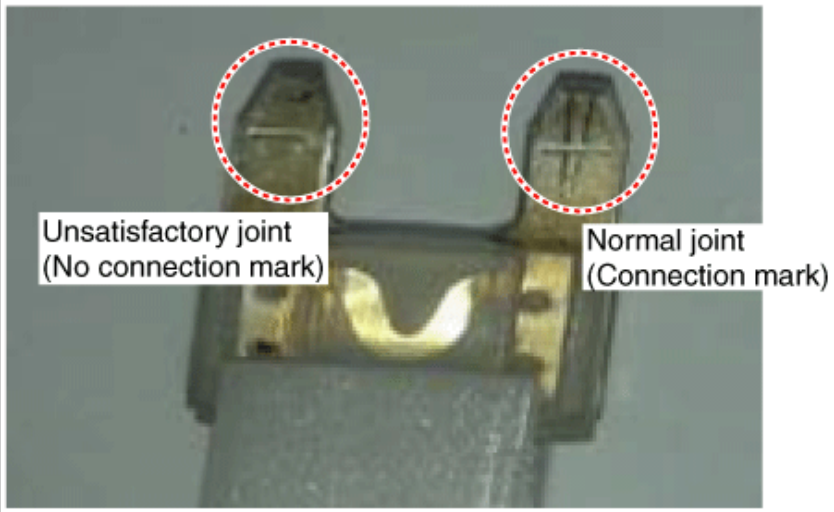


Inspection

1. Fuse inspection

Mount the test fuse to the switch fuse and relay fuse part to confirm a normal joint fit.





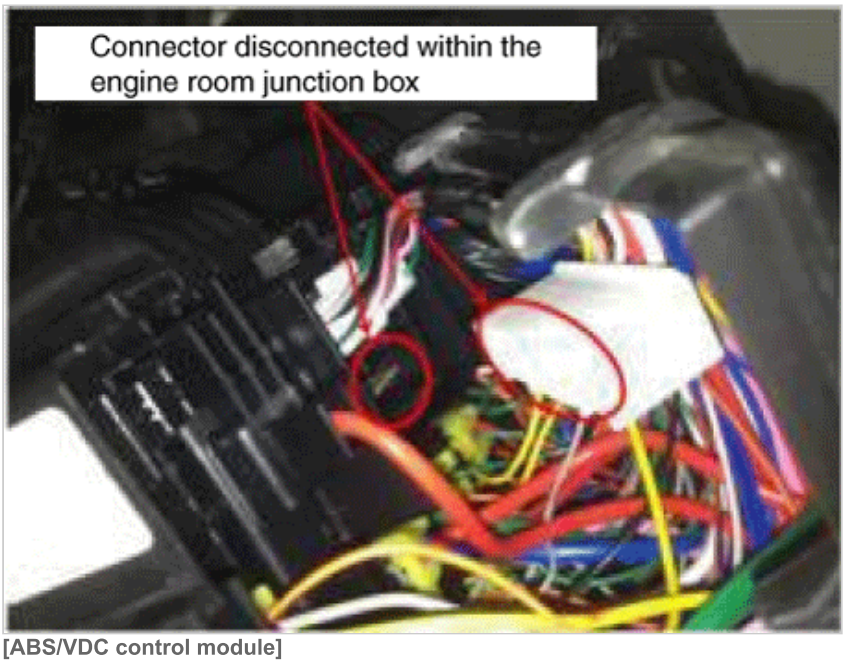
2. KDS Data Analysis

1. Analyze KDS data and check for any abnormality with the stop lamp switch.
   (1) Connect the KDS to the self-diagnosis connector.
   (2) Turn the spark switch on.
   (3) Step on the brake pedal.
   (4) Inspect the "brake switch" category that displays the "sensor data" KDS.)

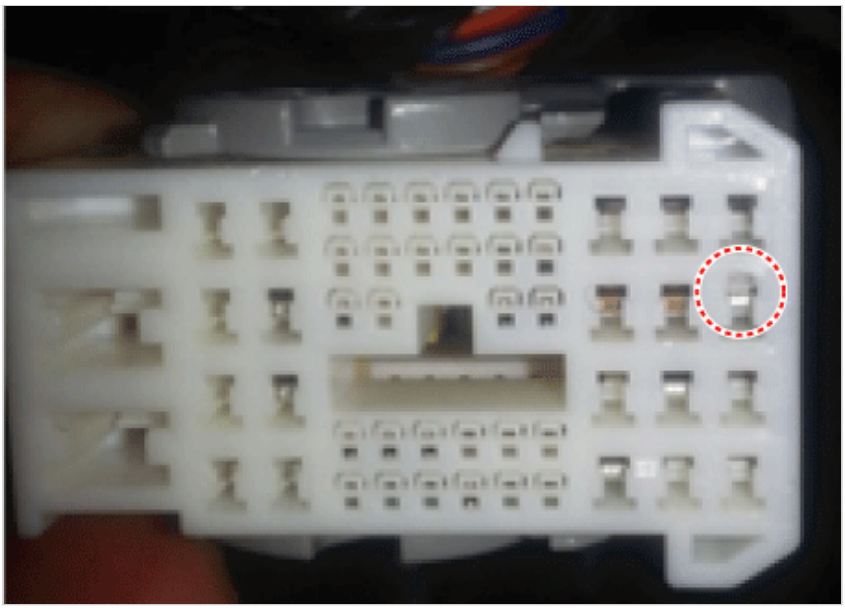
   Normal waveform : The pressure sensor signal value will change according to the brake ON/OFF switch.

3. Inspection of connector by each part

Check for damage, terminal surge or incomplete connection in each connector.
[Engine room junction box]



[ABS/VDC control module]



4. Inspect the stop lamp circuit

Connect probe to each terminal wire and confirm oscilloscope waveform.

[Stop lamp switch input/output]

[Oscilloscope waveform screen]