

# **Component Procedures: Electronic Brake Control Module**

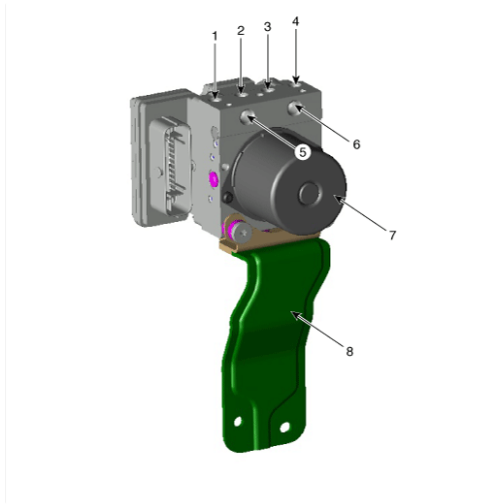
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# Component Procedures: Electronic Brake Control Module

## ESP Control Unit - Components and Components Location (Article 45207)

- Components

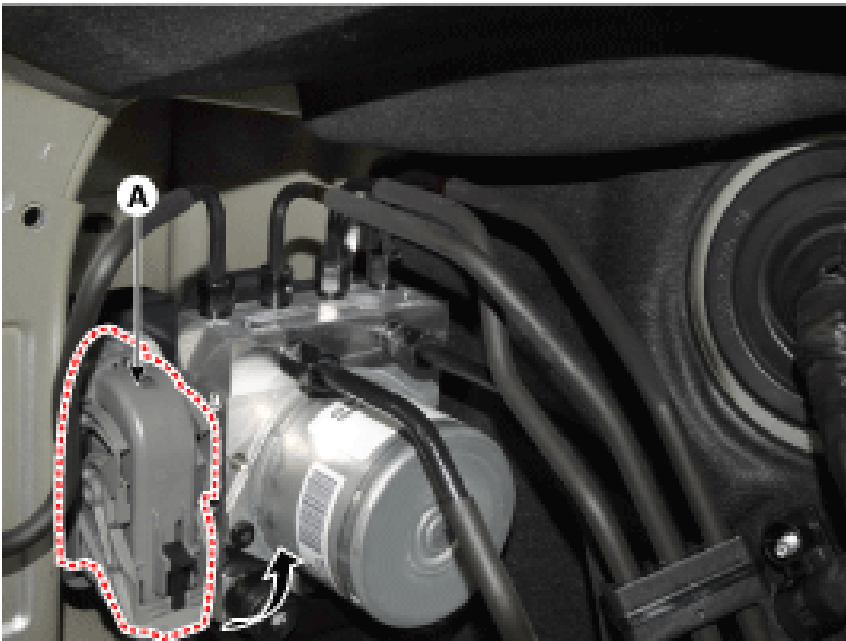


1. Front - right tube 2. Rear - left tube 3. Rear - right tube 4. Front - left tube 5. MC SEC 6. MC PRI 7. ESC control module ( HECU ) 8. Bracket

## ESP Control Unit - Repair Procedures (Article 45208)

- Removal

- Turn the ignition switch OFF and then disconnect the negative (-) battery cable.
- Pull up the lock of the HECU connector (A), then disconnect the connector.

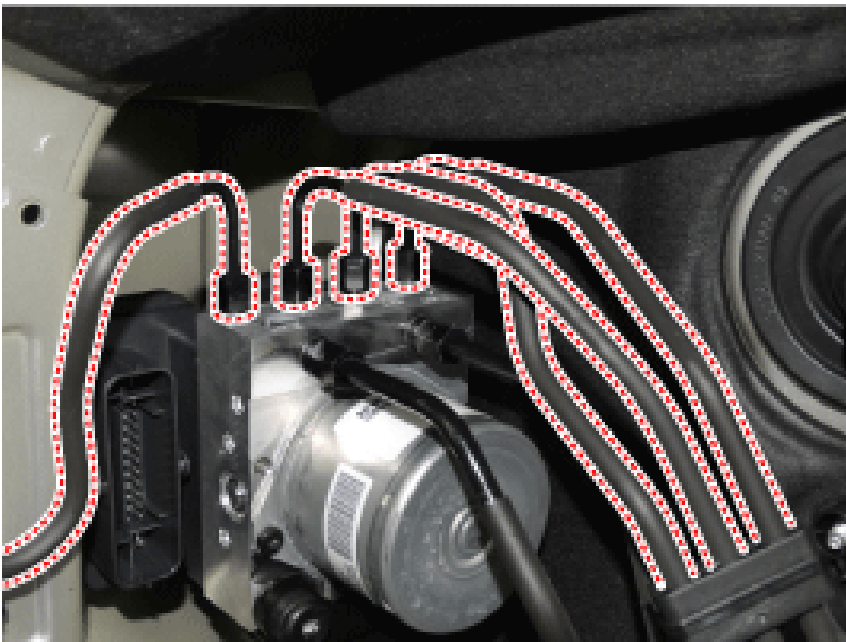


- Remove the brake fluid from the master cylinder reservoir with a syringe. Be sure to completely remove foreign substances from around brake fluid reservoir and cap before opening the reservoir cap. If not, it may cause contamination of brake fluid and deterioration in braking performance. Do not spill brake fluid on the vehicle, it may damage the paint; if brake fluid does contact the paint, wash it off immediately with water. Be sure to completely remove foreign substances from around brake fluid reservoir and cap before opening the reservoir cap. If not, it may cause contamination of brake fluid and deterioration in braking performance. Do not spill brake fluid on the vehicle, it may damage the paint; if brake fluid does contact the paint, wash it

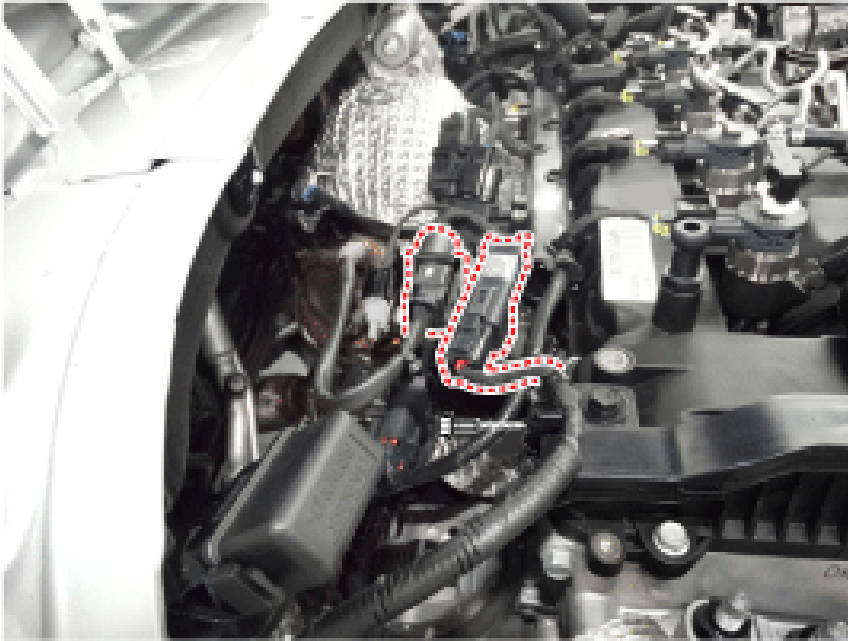
off immediately with water.

# NOTICE

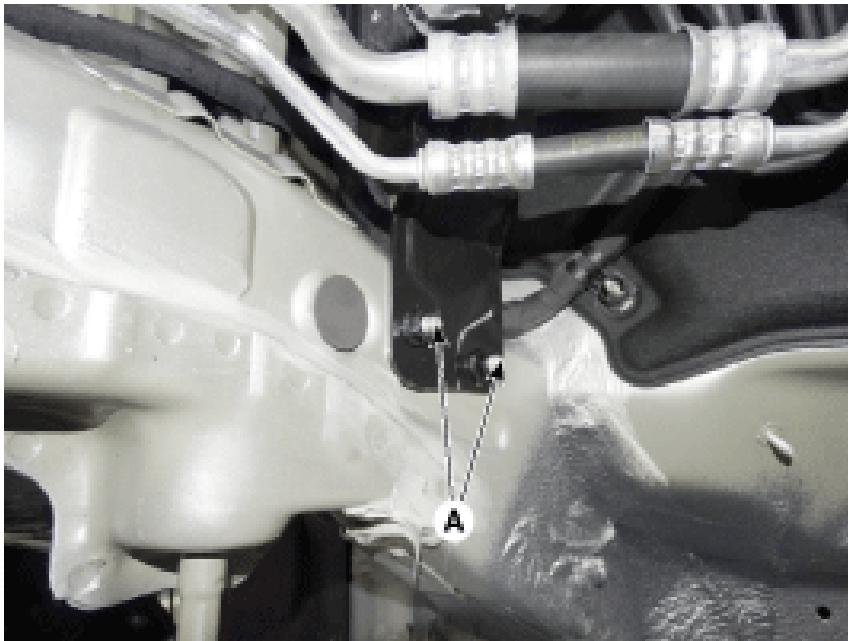
- Be sure to completely remove foreign substances from around brake fluid reservoir and cap before opening the reservoir cap. If not, it may cause contamination of brake fluid and deterioration in braking performance.
- Do not spill brake fluid on the vehicle, it may damage the paint; if brake fluid does contact the paint, wash it off immediately with water.
- Disconnect the brake tubes from the HECU by unlocking the nuts counterclockwise with a spanner. Tightening torque : 12.7 - 16.7 N.m (1.3 - 1.7 kgf.m, 9.4 - 12.3 lb-ft) Tightening torque : 18.6 - 22.6 N.m (1.9 - 2.3 kgf.m, 13.7 - 16.6 lb-ft)



- Disconnect connectors and then remove the bracket.



- Loosen the HECU bracket bolts (A), then remove HECU and bracket. Tightening torque : 16.7 - 25.5 N.m (1.7 - 2.6 kgf.m, 12.3 - 18.8 lb-ft)



- Remove the 3 bolts, then remove the bracket from HECU. Tightening torque : 7.8 - 9.8 N.m (0.8 - 1.0 kgf.m, 5.8 - 7.2 lb-ft)

- Installation

- To install, reverse the removal procedure.

- Tighten the HECU mounting bolts and nuts to the specified torque.

- After installation, bleed the brake system. (Refer to ESP(Electronic Stability Program) System - "ESP System Bleeding")

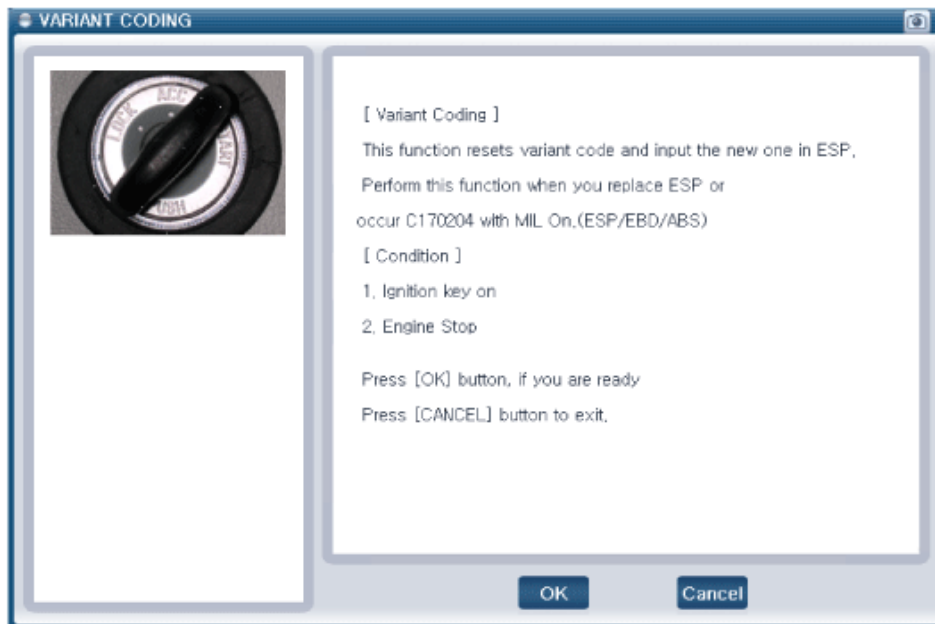
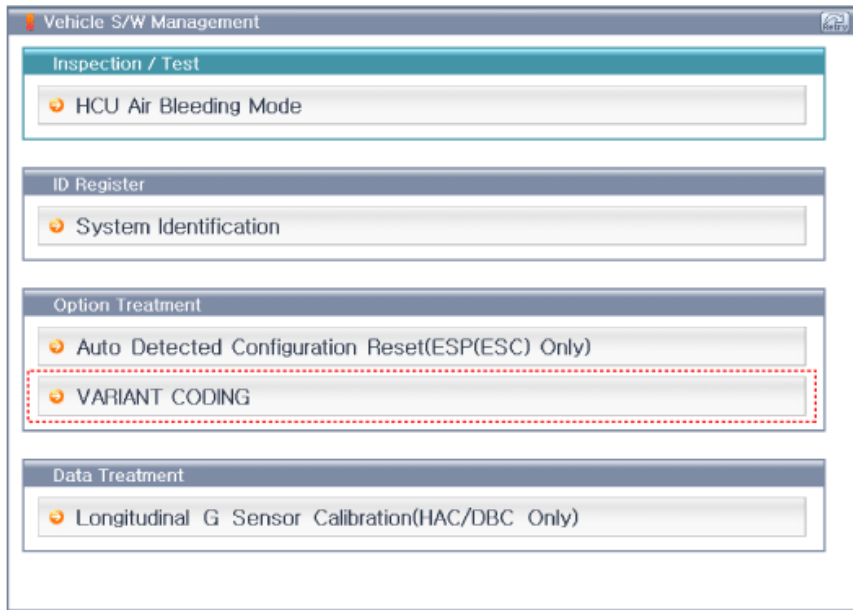
- Conduct the Variant coding.

- Conduct the Auto Detected Sensor Calibration.

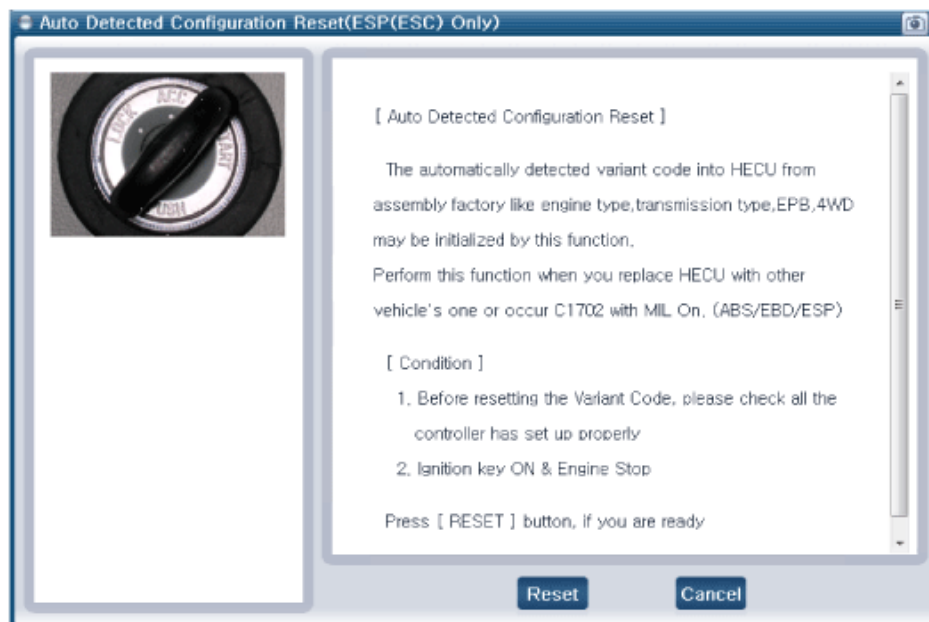
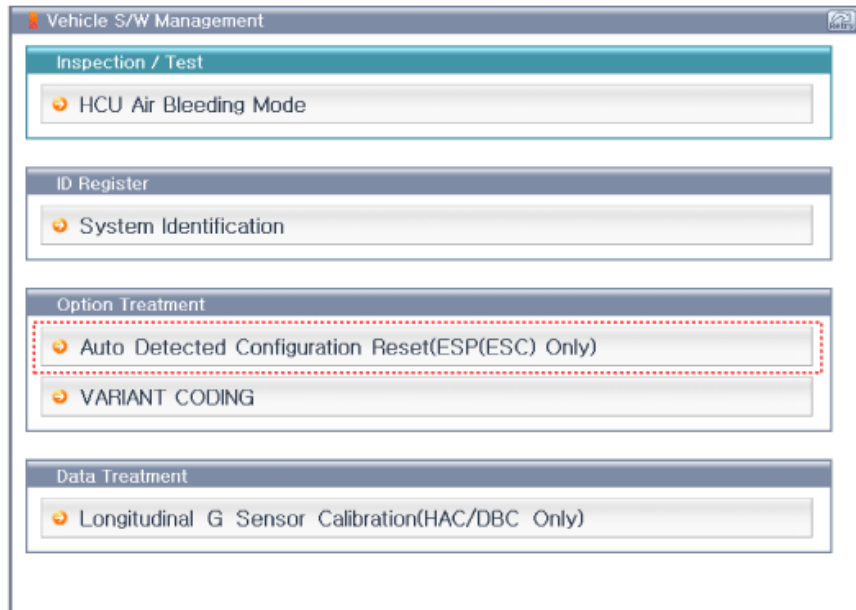
- Conduct the Longitudinal G Sensor Calibration.

- Adjustment

Diagnosis procedure by using diagnostic device  
[Variant Coding]



[Auto Detected Sensor Calibration]



[Longitudinal G Sensor Calibration]

