

# C1130 ENGINE SIGNAL

## Description

ABS actuator and electric unit (control unit) and ECM exchange the engine signal via CAN communication line.

## DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
C1130	ENGINE SIGNAL 1	ECM signals are invalid or ECM self diagnosis indicates a fault that prevents correct TCS operation.	<ul style="list-style-type: none"> <li>• Harness or connector</li> <li>• ABS actuator and electric unit (control unit)</li> <li>• ECM</li> <li>• CAN communication line</li> </ul>

## DTC CONFIRMATION PROCEDURE

- 1). Turn the ignition switch ON.
- 2). Perform ABS actuator and electric unit (control unit) self-diagnosis.
- 3). Is DTC "C1130" detected?
  - YES >> Proceed to diagnosis procedure.
  - NO >> INSPECTION END

## Diagnosis Procedure

- 1). ECM SELF-DIAGNOSIS.
  - A). Perform ECM self-diagnosis.
  - B). Is any item indicated on the self-diagnosis display?
    - YES >> Check the malfunctioning system.
    - NO >> GO TO 2.
  
- 2). ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF-DIAGNOSIS
  - A). Erase ABS actuator and electric unit (control unit) self-diagnosis results.
  - B). Turn the ignition switch OFF.
  - C). Start the engine. Drive the vehicle for a while.
  - D). Make sure that malfunction indicator lamp (MIL) turns OFF.

- E).Stop the vehicle. Perform ABS actuator and electric unit (control unit) self-diagnosis.
- F).Is any item indicated on the self-diagnosis display?  
YES >> Replace ABS actuator and electric unit (control unit).  
NO >> Check ABS actuator and electric unit (control unit) pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damaged parts.

## Special Repair Requirement

- 1).ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION, CALIBRATION OF YAW RATE/SIDE/DECEL G SENSOR AND CALIBRATION OF PRESSURE SENSOR.
- 2).After removing/replacing an ABS actuator and electric unit (control unit), be sure to perform the following procedure.