

DTC B10A2:00 [SKYACTIV-D 2.2]

id0102s4215200

Note

- To determine the malfunctioning part, proceed with the diagnostics from “Function Inspection Using M-MDS”.

Details On DTCs

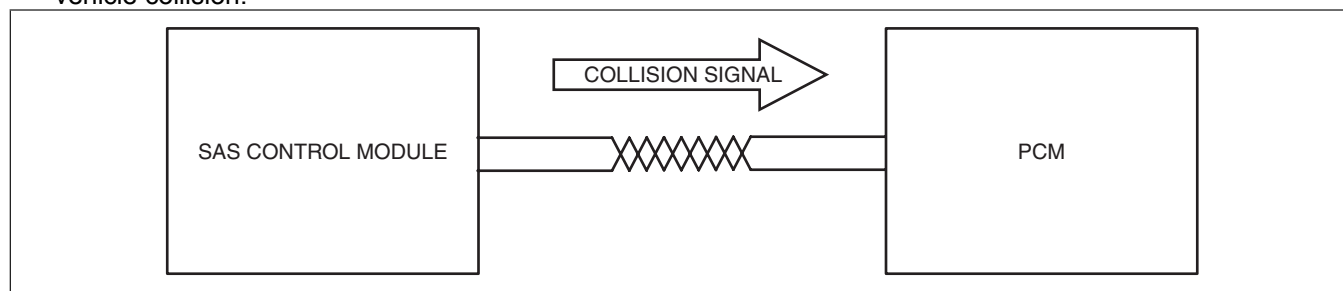
DESCRIPTION	Vehicle collision	
DETECTION CONDITION	Determination conditions	• A collision signal from the SAS control module is received.
	Preconditions	• Not applicable
	Drive cycle	• 1
	Self test type	• CMDTC self test
	Sensor used	• PCM
FAIL-SAFE FUNCTION	• Stops fuel injection control • Stops engine coolant fan control	
VEHICLE STATUS WHEN DTCs ARE OUTPUT	• Delays starter operation during cranking (until the collision signal from the SAS control module is stopped).	
POSSIBLE CAUSE	• Vehicle is involved in collision (collision signal from SAS control module is received) • SAS control module malfunction • PCM malfunction	

System Wiring Diagram

- Not applicable

Function Explanation (DTC Detection Outline)

- During a collision, the SAS control module sends a collision signal to the PCM via the CAN signal. The PCM records a DTC by receiving a collision signal.
- This DTC does not indicate a part malfunction. It indicates operation of fail-safe from safety assurance during a vehicle collision.



am6zzw00011662

Repeatability Verification Procedure

- Switch the ignition ON and leave for 5 s or more.
- Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)
- After switching the ignition off, switch the ignition back ON and leave for 5 s or more.

PID Item/Simulation Item Used In Diagnosis

- Not applicable

Function Inspection Using M-MDS

STEP	INSPECTION	RESULTS	ACTION
1	PURPOSE: VERIFY RELATED SERVICE INFORMATION AVAILABILITY <ul style="list-style-type: none">Verify related Service Information availability.Is any related Service Information available?	Yes	Perform repair or diagnosis according to the available Service Information. <ul style="list-style-type: none">If the vehicle is not repaired, go to the next step.
		No	Go to the next step.

STEP	INSPECTION	RESULTS	ACTION
2	PURPOSE: VERIFY IF OPERATION IS NORMAL AFTER VEHICLE COLLISION <ul style="list-style-type: none"> • Ask customer about vehicle collision experience. • Has the vehicle in for servicing been involved in a collision in which the air bag is deployed? 	Yes	Explain to the customer that the DTC is recorded as a result of a vehicle collision. Go to the troubleshooting procedure to perform the procedure from Step 1.
		No	Go to the next step.
3	PURPOSE: VERIFY IF DIAGNOSTIC RESULT IS AFFECTED BY DTC RELATED TO SAS CONTROL MODULE <ul style="list-style-type: none"> • Switch the ignition off, then ON (engine off). • Perform the SAS control module DTC inspection using the M-MDS. (See DTC INSPECTION.) • Are any DTCs present? 	Yes	Go to the applicable DTC inspection. (See DTC TABLE.)
		No	Go to the troubleshooting procedure to perform the procedure from Step 1.

Troubleshooting Diagnostic Procedure

Intention of troubleshooting procedure

- Step 1—2
 - Verify that the primary malfunction is resolved and there are no other malfunctions.

STEP	INSPECTION	RESULTS	ACTION
1	PURPOSE: PERFORM DTC INSPECTION AND VERIFY IF MALFUNCTIONING PART IS PCM <ul style="list-style-type: none"> • Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) • Implement the repeatability verification procedure. (See Repeatability Verification Procedure.) • Perform the DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) • Is the same DTC present? 	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step.
		No	Go to the next step.
2	PURPOSE: VERIFY IF THERE IS ANY OTHER MALFUNCTION <ul style="list-style-type: none"> • Is any other DTC or pending code stored? 	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].)
		No	DTC troubleshooting completed.