Diag. Code 15 Open in Front Airbag Sensor Circuit

CIRCUIT DESCRIPTION

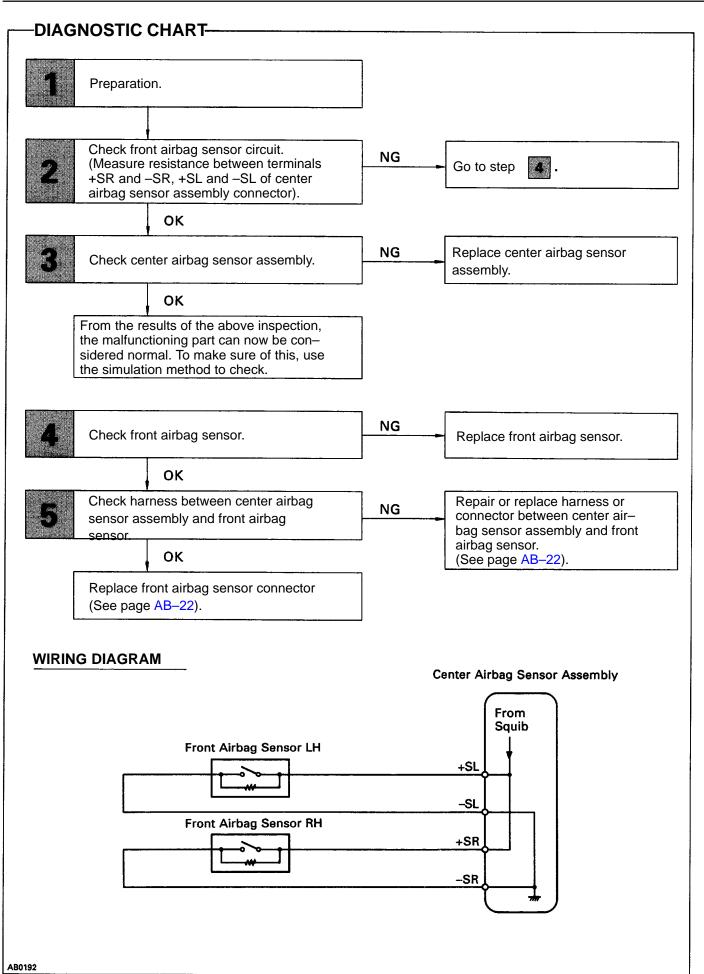
The front airbag sensor detects the deceleration force in a frontal collision and is located in the radiator upper support.

For details of the function of each component, see FUNCTION OF COMPONENTS on page AB–7. Diagnostic code 15 is recorded when an open is detected in the squib circuit.

NOTICE: The front airbag sensor connector is equipped with an electrical connection check mechanism for the purpose of detecting an open in the front airbag sensor (See page AB–9). This mechanism is constructed so that when the terminals of the front airbag sensor have been connected (when the connector housing lock is in the locked condition), the connection detection pin on the wire harness side connects with the terminals for diagnosis use on the sensor side. If the connector is not properly connected, the diagnosis system may detect only a malfunction code, even though the airbag system is functioning normally.

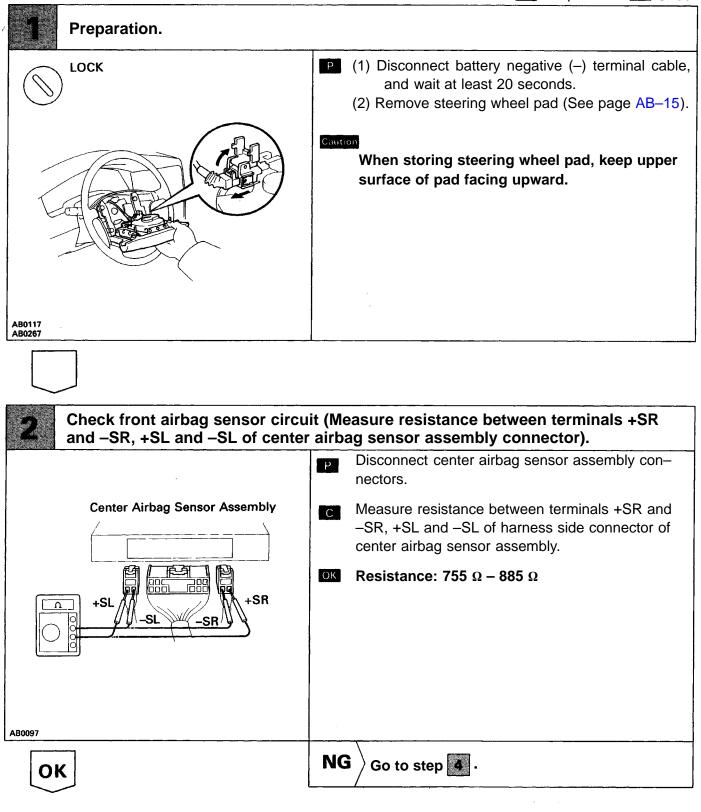
When connecting the front airbag sensor connector, make sure it is connected properly. If diagnostic code 15 is displayed after the front airbag sensor connector has been connected, check again that it is properly connected.

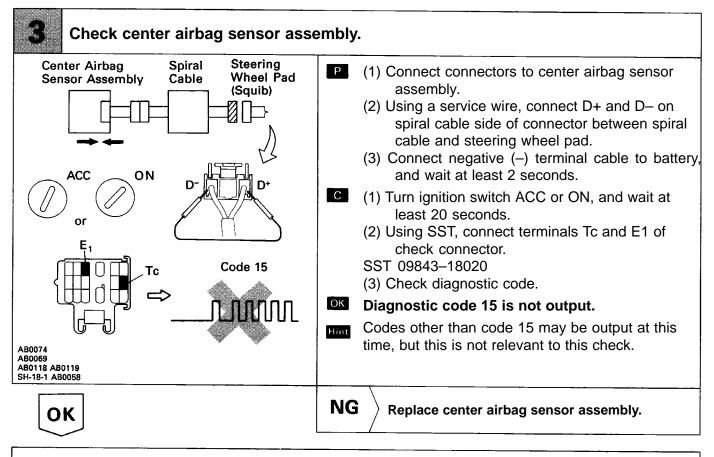
Code No.	Diagnosis	
15	 Open circuit in +S wire harness or -S wire harness of front airbag sensor. Front airbag sensor malfunction. Malfunction of electrical connection check mechanism of front airbag sensor. Center airbag sensor assembly malfunction. 	



INSPECTION PROCEDURES

P Preparation C Check





From the results of the above inspection, the malfunctioning part can now be considered normal. To make sure of this, use the simulation method to check.

	Р	Disconnect front a	irbag sensor connector.		
+A	С	C Measure resistance between each terminal of front airbag sensor.			
	OK	Terminal	Resistance		
		(+) S – (+) A	755Ω – 885Ω		
		(+) S – (–) S	~~~~		
		(–) S – (–) A	Less than 1Ω		
-S -A	Notice	against termin	ohmmeter probes strong als of front airbag sens front airbag sensor con	or.	

5 Check harness between center sensor.	Check harness between center airbag sensor assembly and front airbag sensor.				
Center Airbag Sensor Assembly	 P (1) Disconnect center airbag sensor assembly connectors. (2) Using a service wires, connect +SR and -SR, +SL and -SL on the wire harness side of the center airbag sensor assembly connectors. 				
+SL -SR +SR	C Measure resistance between terminals +SR and -SR, +SL and -SL of harness side connector of front airbag sensor.				
	OK Resistance: Less than 1Ω				
	 Notice Lightly touch ohmmeter probes at position shown in illustration. Make sure the front airbag sensor connector is properly connected. 				
AB0039	NG Repair or replace harness or connector between center airbag sensor assembly and front airbag sensor (See page AB-22).				

Replace front airbag sensor connector (See page AB-22).