

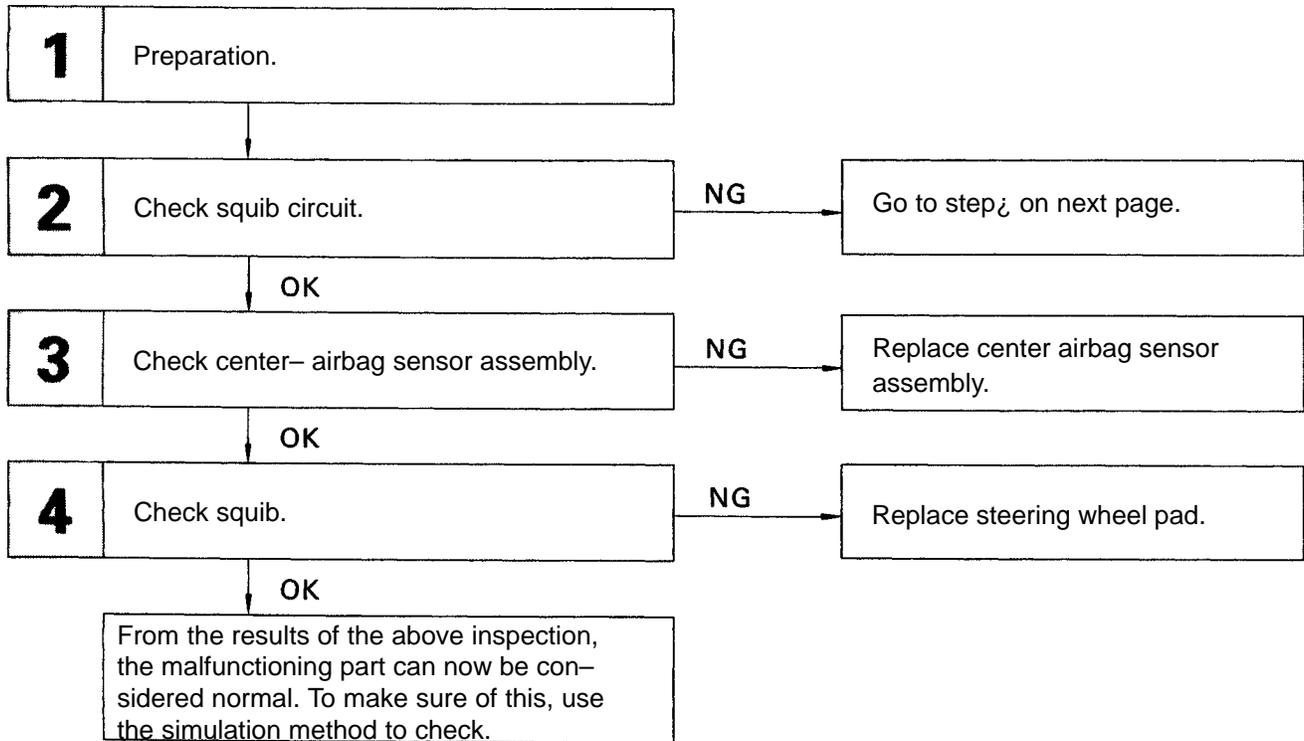
## Diag. Code 13 Short in Squib Circuit (Between D+ Wire Harness and D- Wire Harness)

### CIRCUIT DESCRIPTION

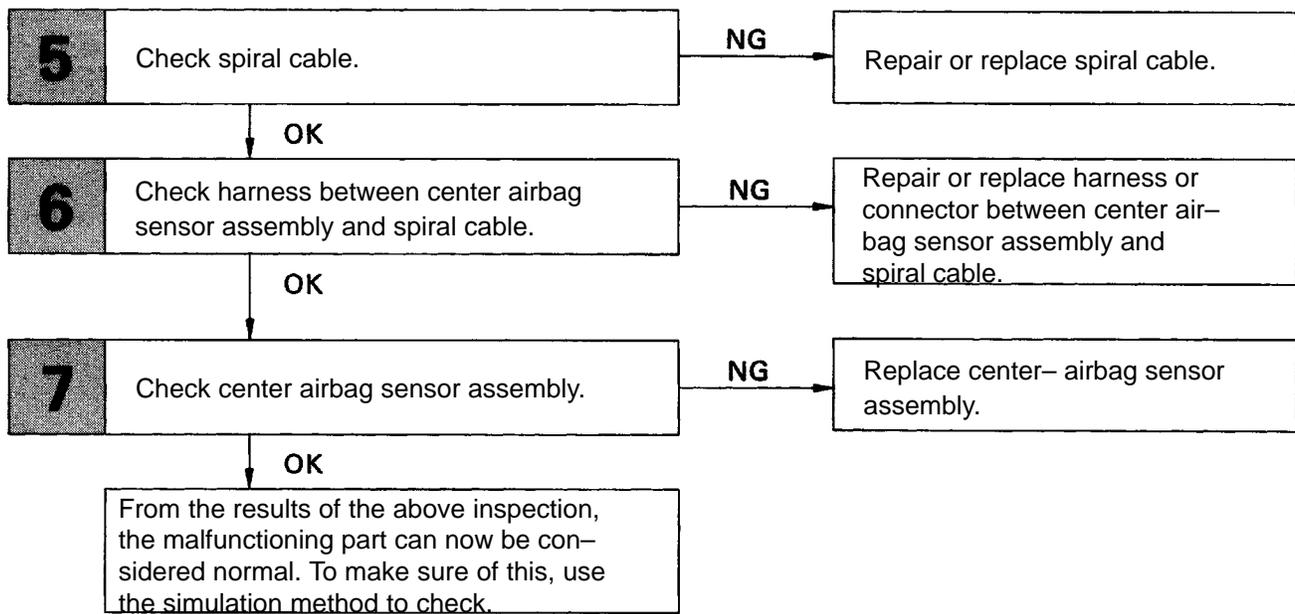
The squib circuit consists of the center airbag sensor assembly, spiral cable and the steering wheel pad (squib). It causes the airbag to deploy when the airbag deployment conditions are satisfied. For details of the function of each component, see FUNCTION OF COMPONENTS on page AB-7. Diagnostic code 13 is recorded when a short is detected in the D+ wire harness and D- wire harness of the squib circuit.

Code No.	Diagnosis
13	<ul style="list-style-type: none"> <li>• Short circuit between D+ wire harness and D- wire harness of squib.</li> <li>• Squib malfunction.</li> <li>• Spiral cable malfunction.</li> <li>• Center airbag sensor assembly malfunction.</li> </ul>

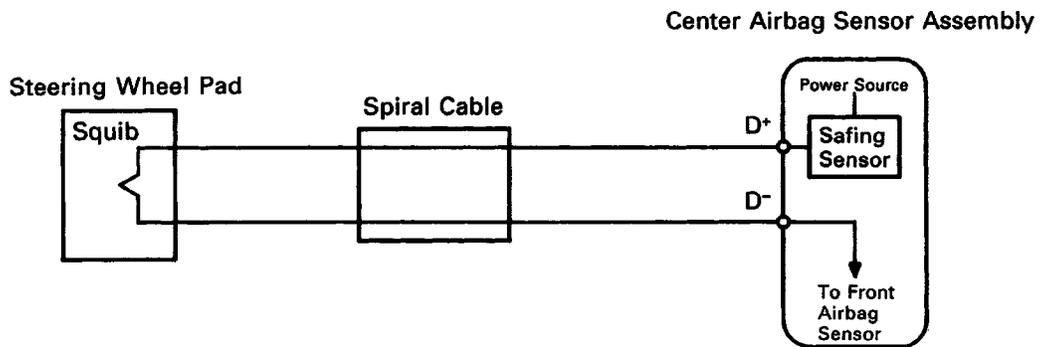
### DIAGNOSTIC CHART



**DIAGNOSTIC CHART (Cont'd)**



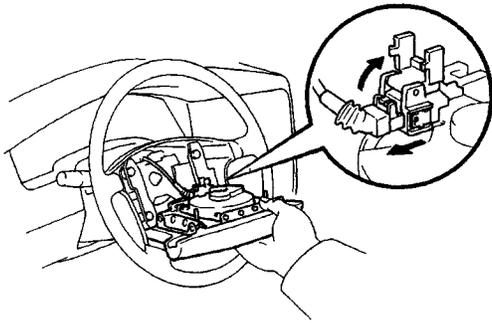
**WIRING DIAGRAM**



AB0191

## INSPECTION PROCEDURES

**P** Preparation **C** Check

**1****Preparation.****LOCK**

AB0117  
AB0267

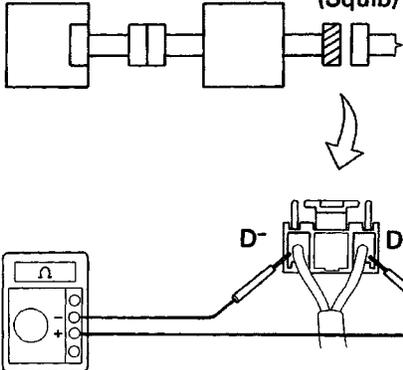
- P** (1) Disconnect battery negative (-) terminal cable, and wait at least 20 seconds.  
(2) Remove steering wheel pad See page [AB-15](#)

**Caution**

**When storing steering wheel pad, keep upper surface of other pad facing upward.**

**2****Check squib circuit.**

Center Airbag Sensor Assembly    Spiral Cable    Steering Wheel Pad (Squib)



AB0074  
AB0068

- P** Measure resistance between D+ and D- on spiral cable side of connector between spiral cable and steering wheel pad.

**OK** Resistance: 1 kΩ or more

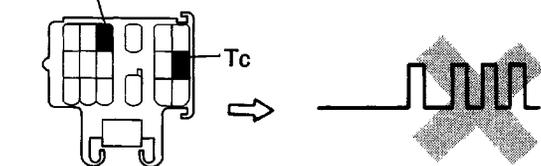
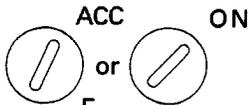
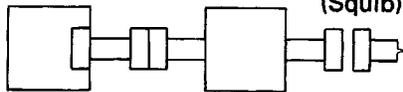
XXXXXXXXXX

**OK**

**NG** Go to Step **5**.

### 3 Check center airbag sensor assembly.

Center Airbag Sensor Assembly    Spiral Cable    Steering Wheel Pad (Squib)



AB0074  
AB0118 AB0119  
SH-18-1 FI1390

- P** (1) Connect negative (-) terminal cable to battery.
- (2) Clear malfunction code 41 stored in memory (See page AB-32).

- (1) Turn ignition switch LOCK, and wait at least 2 seconds.

- C** (2) Turn ignition switch ACC or ON, and wait at least 20 seconds.

- (3) Using SST, connector terminals Tc and E1 of check connector.

SST 09843-18020

- (4) Check diagnostic code.

**Diagnostic code 13 is not output.**

**OK**

Codes other than code 13 may be output at this time, but this is not relevant to this check.

**Hint**

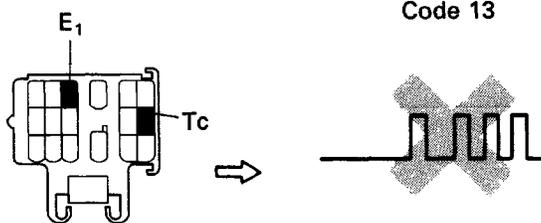
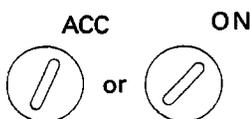
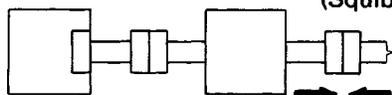
**OK**

**NG**

Replace center airbag sensor assembly.

### 4 Check squib.

Center Airbag Sensor Assembly    Spiral Cable    Steering Wheel Pad (Squib)



AB0075  
AB0118 AB0119  
SH-18-1 FI1390

- P** (1) Turn ignition switch LOCK.
- (2) Disconnect battery negative (-) terminal cable, and wait at least 20 seconds.

- (3) Connect steering wheel pad (squib) connector.

- (4) Clear malfunction code 41 stored in memory (See page AB-32).

- C** (1) Turn ignition switch LOCK, and wait at least 2 seconds.

- (2) Turn ignition switch ACC or ON, and wait at least 20 seconds.

- (3) Using SST, connect terminals Tc and E1 of check connector.

SST 09843-18020

- (4) Check diagnostic code.

**OK**

**Diagnostic code 13 is not output.**

**Hint**

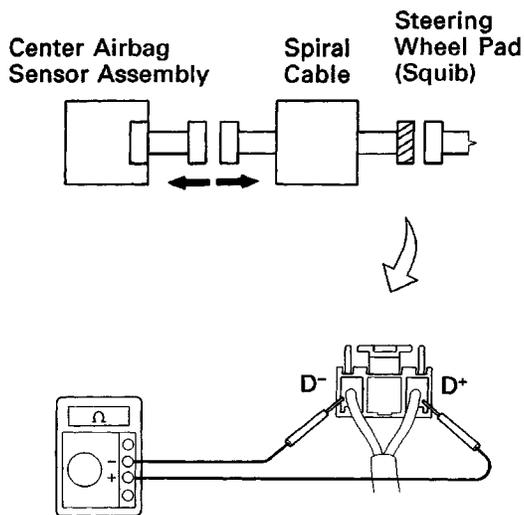
Codes other than code 13 may be output at this time, but this is not relevant to this check.

**OK**

**NG**

Replace steering wheel pad.

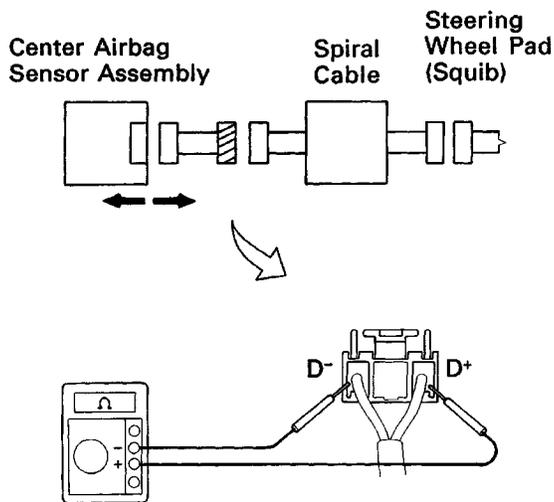
From the results of the above inspection, the malfunctioning part can now be considered normal. To make sure of this, use the simulation method to check.

**5****Check spiral cable.**AB0073  
AB0068

- P** (1) Disconnect connector between center airbag sensor assembly and spiral cable.  
 (2) Release airbag activation prevention mechanism on center airbag sensor assembly side of spiral cable connector (See page AB-55).

**C** Measure resistance between D+ and D- on spiral cable side of connector between spiral cable and steering wheel pad.

**OK** Resistance:  $\infty \Omega$

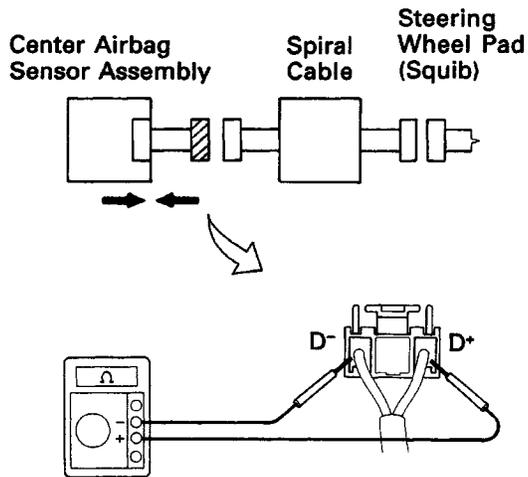
**OK****NG** Repair or replace spiral cable.**6****Check harness between center airbag sensor assembly and spiral cable.**AB0071  
AB0068

- P** (1) Disconnect center airbag sensor assembly connector.  
 (2) Release airbag activation prevention mechanism on center airbag sensor assembly connector (See page AB-55).

**C** Measure resistance between D+ and D- on center airbag sensor assembly side of connector between center airbag sensor assembly and spiral cable.

**OK** Resistance:  $\infty \Omega$

**OK****NG** Repair or replace harness or connector between center airbag sensor assembly and spiral cable.

**7****Check center airbag sensor assembly.**AB0073  
AB0068

- P** Connect center airbag sensor assembly connector.
- C** Measure resistance between D+ and D- on center airbag sensor assembly side of connector between center airbag sensor assembly and spiral cable.
- OK** Resistance: 1 kΩ or More

**OK****NG**

Replace center airbag sensor assembly.

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.