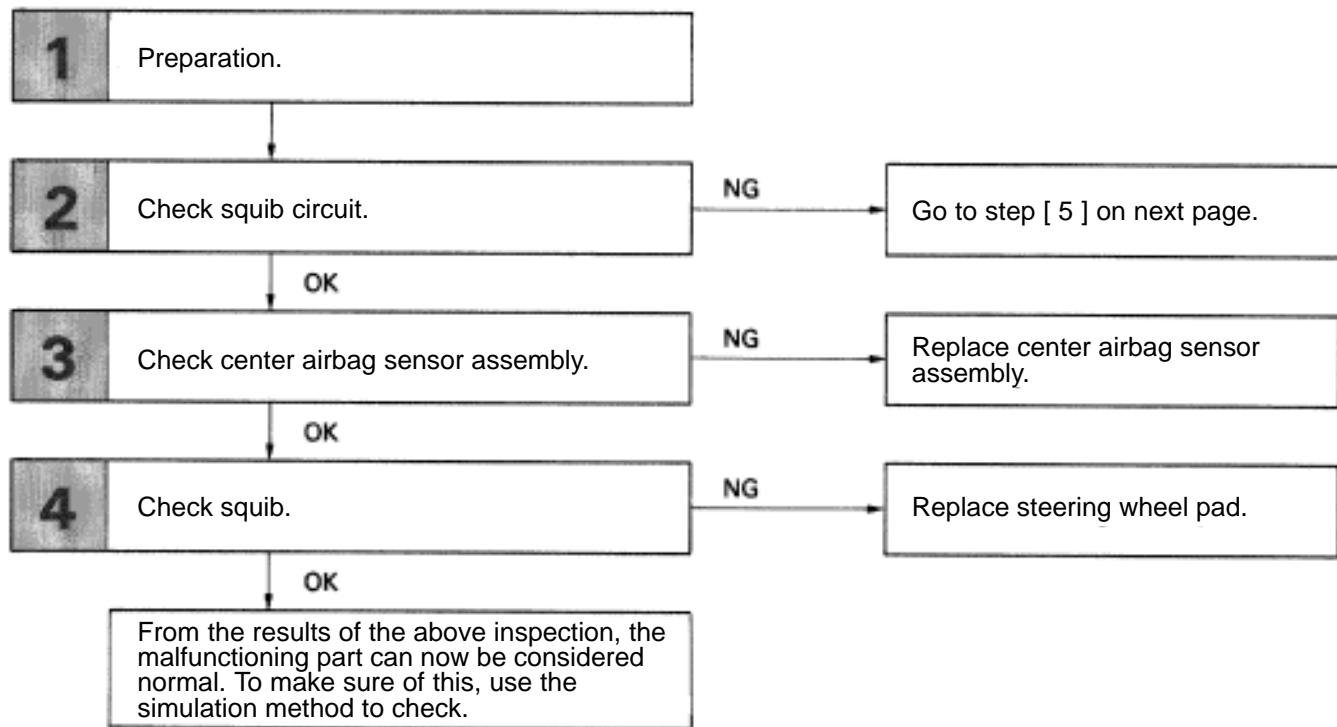


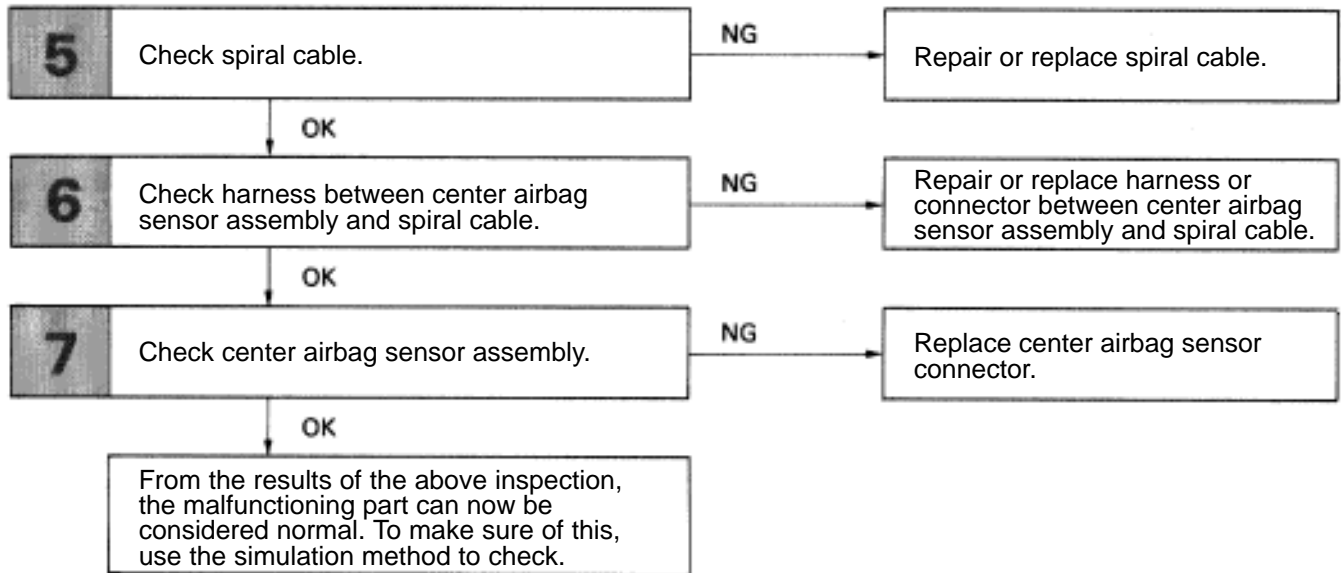
Diag. Code 13**Short in Squib Circuit (Between D+ Wire Harness and D– Wire Harness)****CIRCUIT DESCRIPTION**

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.

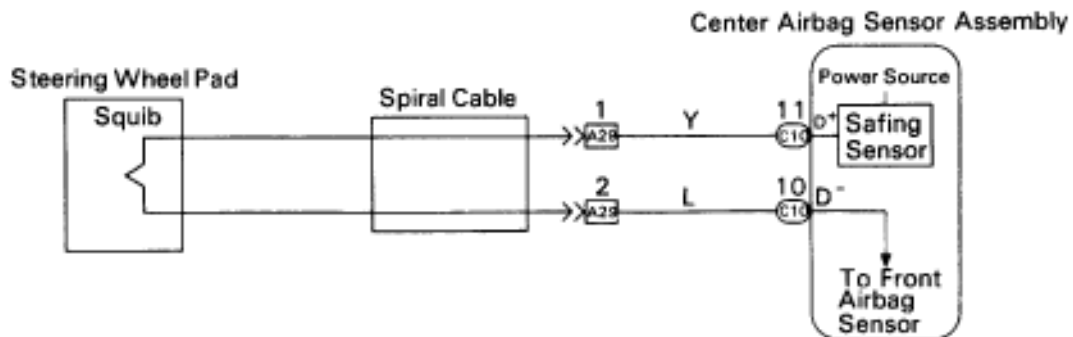
Code No.	Diagnosis
13	<ul style="list-style-type: none"> • Short circuit between D+ wire harness and D– wire harness of squib. • Squib malfunction. • Spiral cable malfunction. • Center airbag sensor assembly malfunction.

DIAGNOSTIC CHART

DIAGNOSTIC CHART (Cont'd)



WIRING DIAGRAM



AB0346

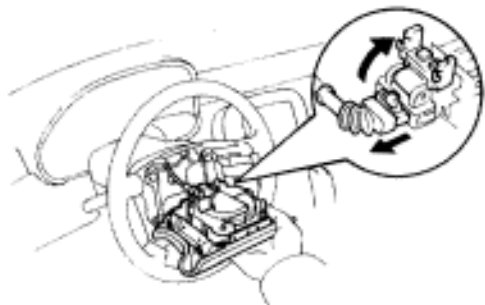
INSPECTION PROCEDURE

1

Preparation.



LOCK

AB0117
AB0340**P**

- (1) Disconnect battery negative (–) terminal cable, and wait at least 20 seconds.
- (2) Remove steering wheel pad (See page [AB-14](#)).

Caution

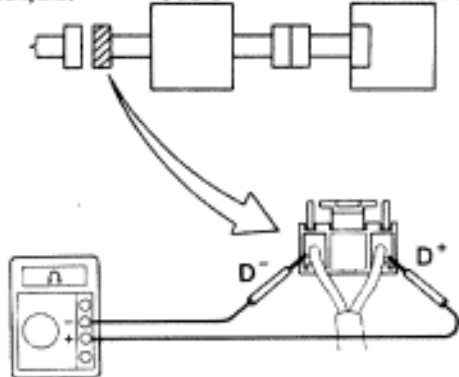
When storing steering wheel pad, keep upper surface of the pad facing upward.



2

Check squib circuit.

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

AB0074
AB0068**C**

Measure resistance between D⁺ and D[–] on spiral cable side of connector between spiral cable and steering wheel pad.

OK

Resistance: 1 k Ω or higher

OK

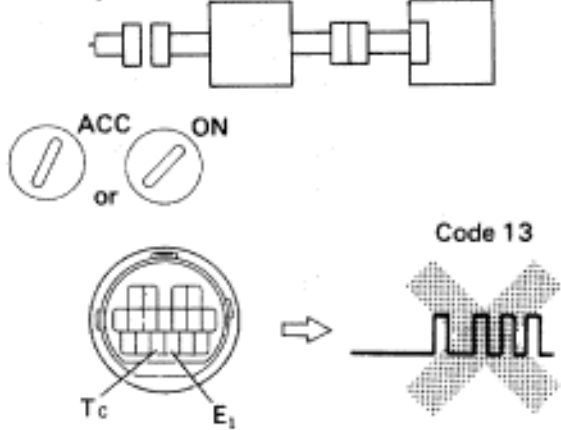
NG

Go to step [5].

3

Check center airbag sensor assembly.

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

AB0074
AB0118 AB0119
S-17-1 FI1390

- P** (1) Connect negative (–) terminal cable to battery.
(2) 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 TDCL.
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

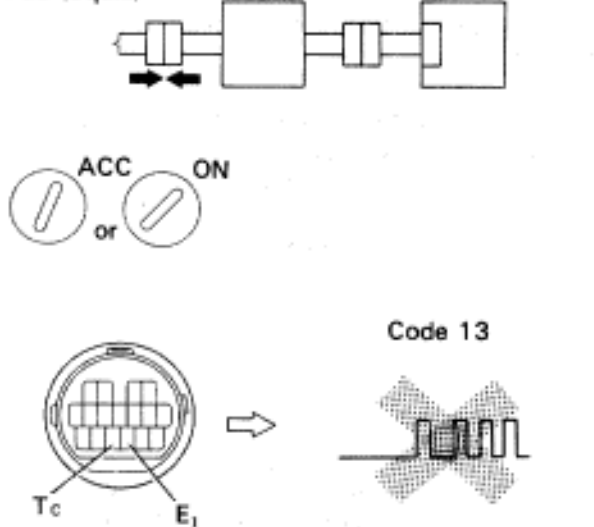
NG

Replace center airbag sensor assembly.

4

Check squib.

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

AB0075
AB0118 AB0119
S-17-1 FI1390

- P** (1) Turn ignition switch LOCK.
(2) Disconnect battery negative (–) terminal cable, and wait at least 2 seconds.
(3) Connect steering wheel pad (squib) connector.
(4) Connect negative (–) terminal cable to battery.
(5) 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 TDCL.
SST 09843–18020
(4) Check diagnostic code.

OK Diagnostic code 13 is not output.

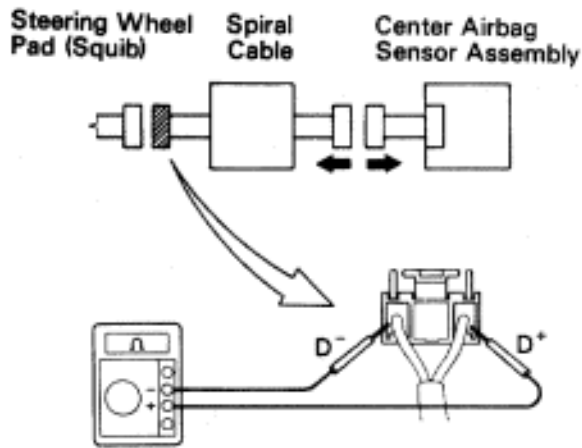
Hint Codes other than code 13 may be output at this time, but this is not relevant to this check.

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 squib.**AB0073
AB0068

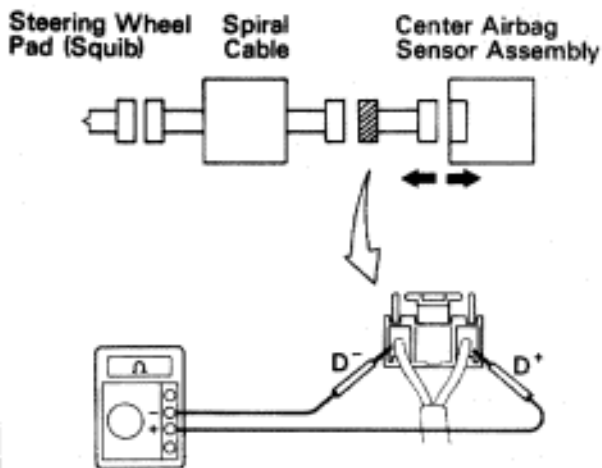
- P** (1) Disconnect connector between center airbag sensor assembly and spiral cable.
 (2) Release airbag activation prevention mechanism on center airbag sensor assembly side of spiral cable connector (See page [AB-60](#)).

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

OK Resistance: 1 M Ω or higher

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-60](#)).

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 M Ω or higher

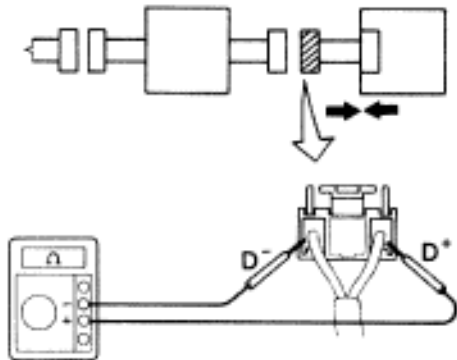
OK**NG**

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

7

Check center airbag sensor assembly.

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



A80073
A80068

OK

P Connect center airbag sensor assembly connector.

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

OK Resistance: 1 k Ω or higher

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.

RELEASE METHOD OF AIRBAG ACTIVATION PREVENTION MECHANISM

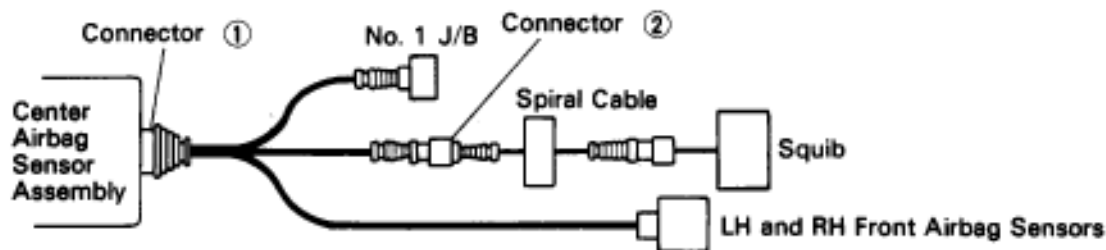
An airbag activation prevention mechanism is built into the connector for the squib circuit of the airbag system. When release of the airbag activation prevention mechanism is directed in the troubleshooting procedure, as shown in the illustration of the connectors (1) and (2) below, insert paper which is the same thickness as the male terminal, between the terminal and the short spring.

CAUTION:

- **NEVER RELEASE** the airbag activation prevention mechanism on the steering wheel pad connector.

NOTICE:

- Do not release the airbag activation prevention mechanism unless specifically directed by the troubleshooting procedure.
- If the paper inserted is too thick the terminal and short spring may be damaged, so always use paper the same thickness as the male terminal.



AB0027

Center Airbag Sensor Assembly Connector (Connector ①)



Before Release



Paper

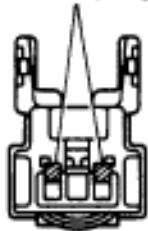
After Release



AB0131 AB0042 AB0043

Spiral Cable Connector (Connector ②)

Short Spring

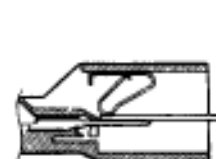


Before Release



Paper

After Release



AB0130 AB0045 AB0046

MEMO