

DTC	B1660/43	Passenger Airbag ON / OFF Indicator Circuit Malfunction
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DESCRIPTION

RS

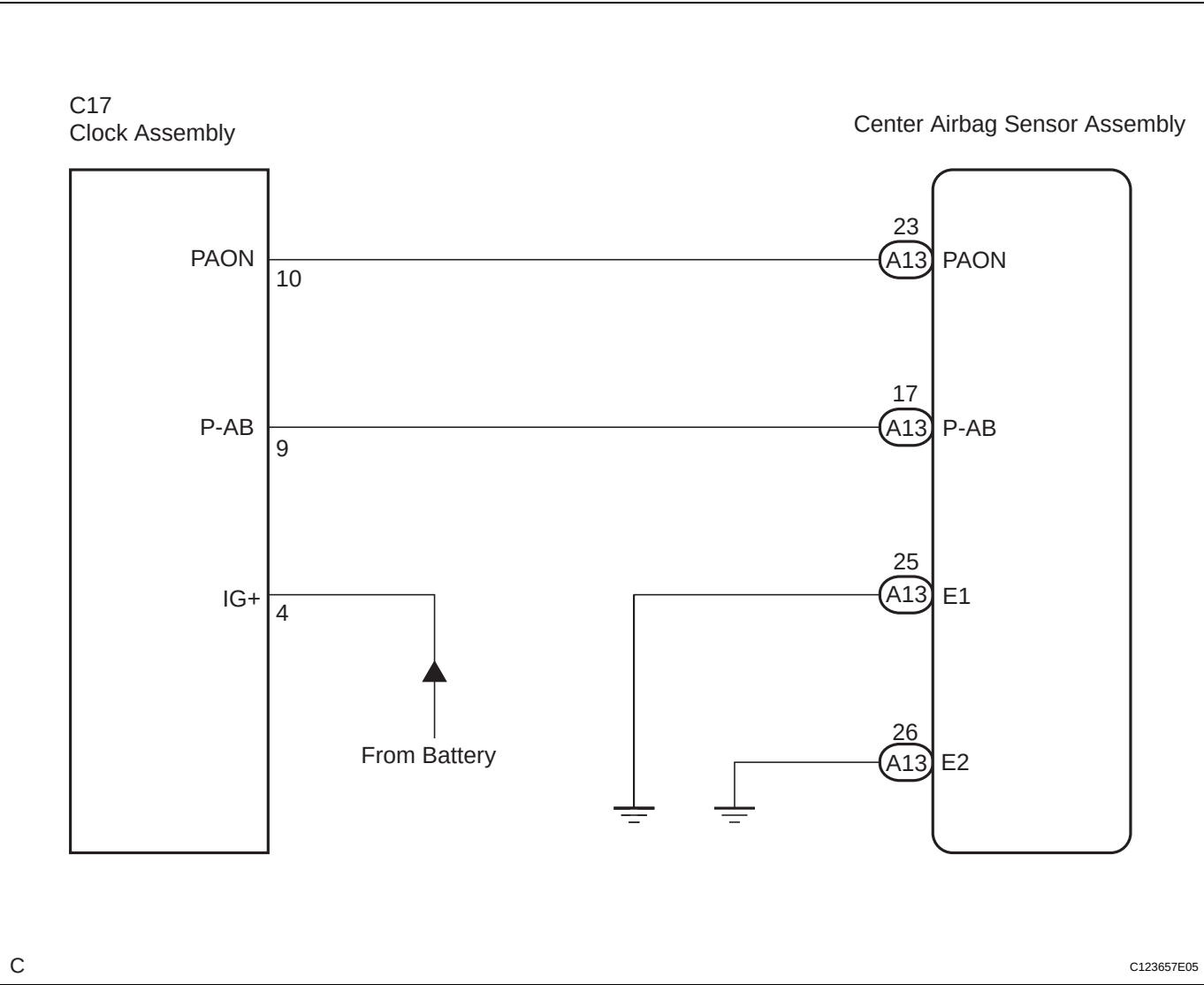
The passenger airbag ON/OFF indicator circuit consists of the center airbag sensor assembly and the clock assembly.

The passenger airbag ON/OFF indicator indicates the operation condition of the front passenger airbag assembly, the front seat side airbag assembly RH and front seat outer belt assembly RH (front passenger side front pretensioner squib).

DTC B1660/43 is recorded when a malfunction is detected in the passenger airbag ON/OFF indicator circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1660/43	- The center airbag sensor assembly receives an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the passenger airbag ON/OFF indicator circuit for 2 seconds. - Passenger airbag ON/OFF indicator malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Clock assembly - Center airbag sensor assembly

WIRING DIAGRAM



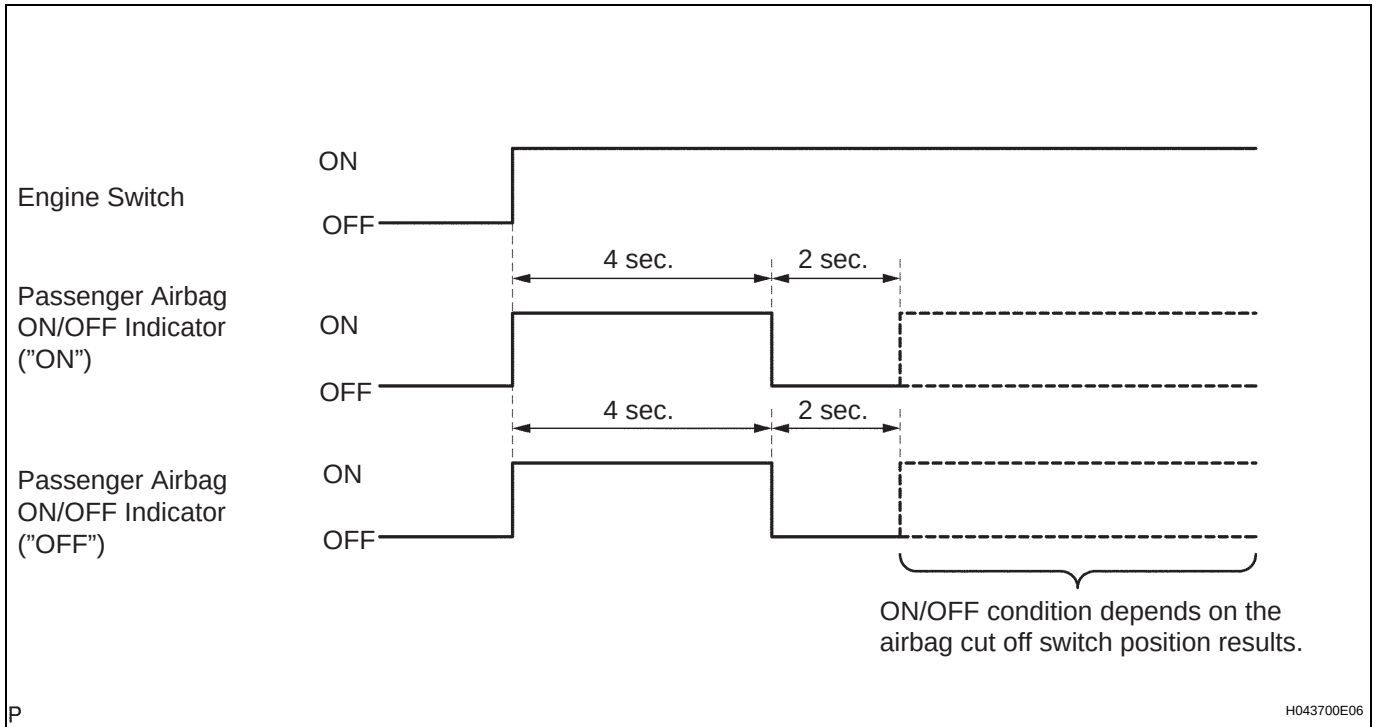
INSPECTION PROCEDURE

1**CHECK PASSENGER AIRBAG ON/OFF INDICATOR CONDITION**

- (a) Turn the ignition switch to the ON position.
 (b) Check the passenger airbag ON/OFF indicator operation.

HINT:

Refer to the normal condition of the passenger airbag ON/OFF indicator (See page [RS-26](#)).

**Result**

ON/OFF Indicator Illumination	Proceed to
Always ON	A
OFF	B

B**Go to step 7****A**

2 CHECK PASSENGER AIRBAG ON / OFF INDICATOR



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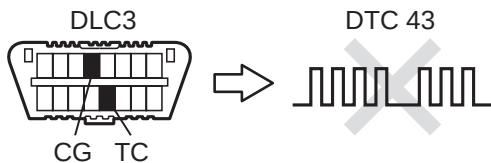
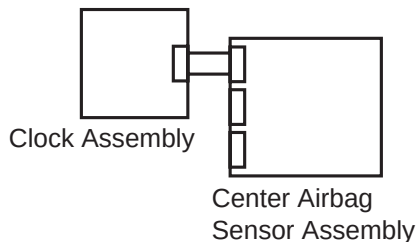
- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Check the passenger airbag ON/OFF indicator operation.

OK:

The passenger airbag ON/OFF indicator does not come on.

NG**Go to step 4****OK**

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



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- Connect the connectors to the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page RS-34).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check for DTCs (See page RS-34).

OK:

DTC B1660/43 is not output.

HINT:

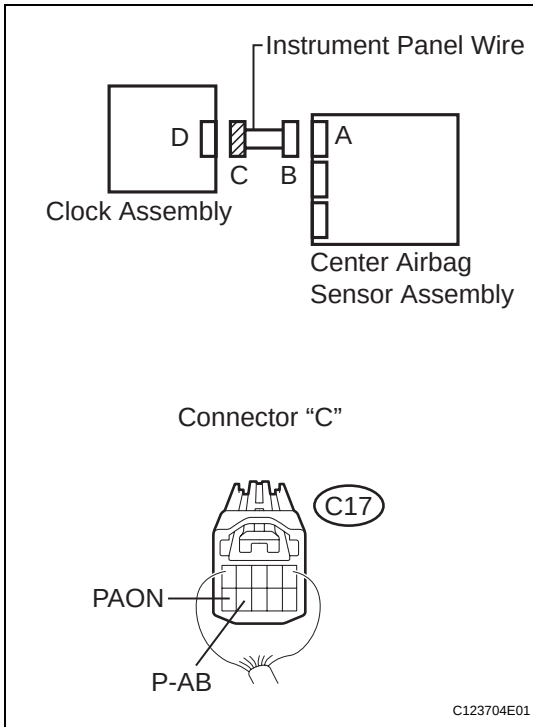
Codes other than DTC B1660/43 may be output at this time, but they are not related to this check.

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REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

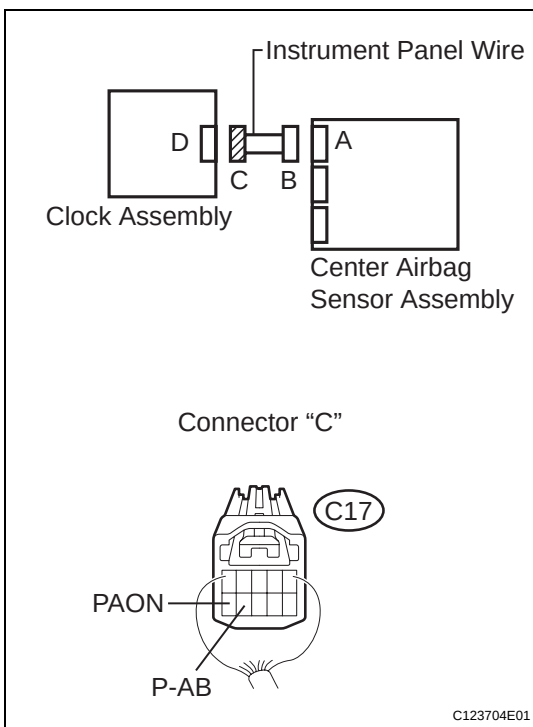
USE SIMULATION METHOD TO CHECK

4 CHECK INSTRUMENT PANEL WIRE (SHORT)

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connector from the clock assembly.
- Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
C17-10 (PAON) - C17-9 (P-AB)	Always	1 MΩ or higher

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****5 CHECK INSTRUMENT PANEL WIRE (SHORT TO GROUND)**

- Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
C17-10 (PAON) - Body ground	Always	1 MΩ or higher
C17-9 (P-AB) - Body ground	Always	1 MΩ or higher

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

REPLACE CLOCK ASSEMBLY

RS

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CHECK CONNECTION OF CONNECTORS

- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Check that the connectors are properly connected to the center airbag sensor assembly and the clock assembly.
- OK:
The connectors are properly connected.

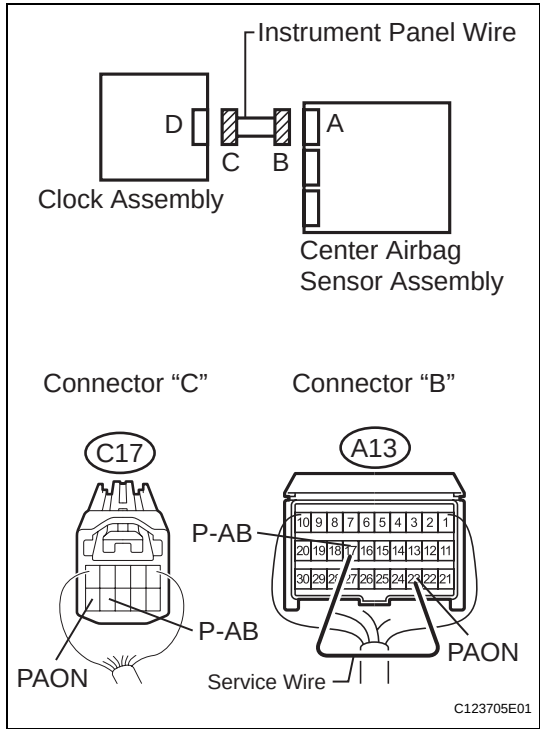
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CONNECT CONNECTORS

OK

7

CHECK INSTRUMENT PANEL WIRE (OPEN)



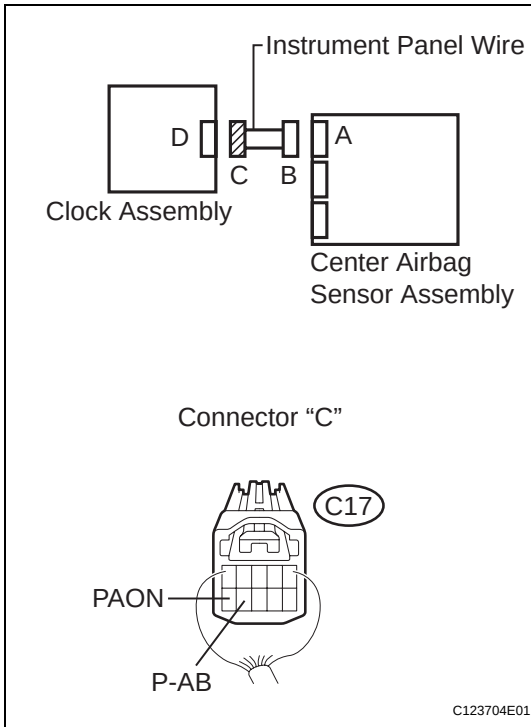
- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connectors from the center airbag sensor assembly and the clock assembly.
- (d) Using a service wire, connect A13-23 (PAON) and A13-17 (P-AB) of connector "B".
- NOTICE:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
- (e) Measure the resistance according to the value(s) in the table below.
- Standard resistance

Tester connection	Condition	Specified condition
C17-10 (PAON) - C17-9 (P-AB)	Always	Below 1 Ω

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REPAIR OR REPLACE INSTRUMENT PANEL WIRE

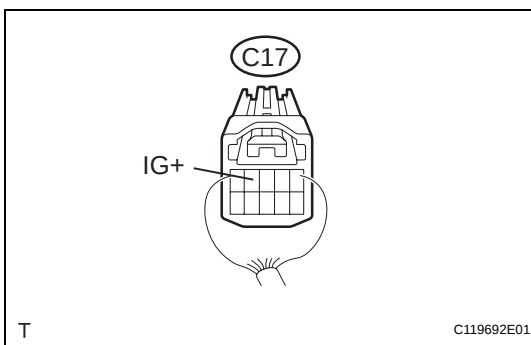
OK

8 CHECK INSTRUMENT PANEL WIRE (SHORT TO B+)

- Disconnect the service wire from connector "B".
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester connection	Condition	Specified condition
C17-10 (PAON) - Body ground	Ignition switch ON	Below 1 V
C17-9 (P-AB) - Body ground	Ignition switch ON	Below 1 V

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****9 CHECK CLOCK ASSEMBLY (SOURCE VOLTAGE)**

- Connect the connectors to the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

Standard voltage

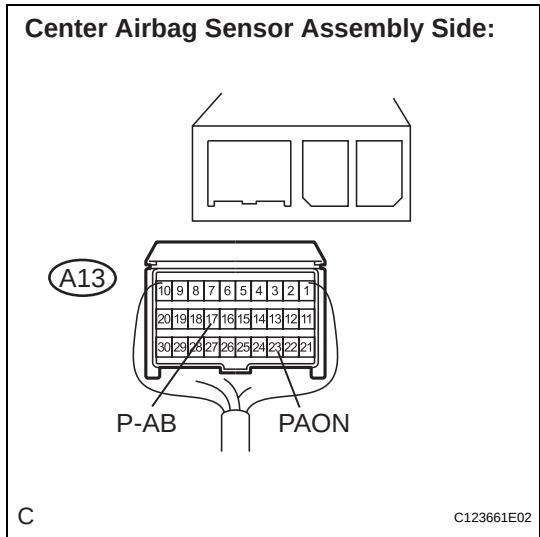
Tester connection	Condition	Specified condition
C17-4 (IG+) - Body ground	Ignition switch ON	10 to 14 V

NG**REPAIR OR REPLACE WIRE HARNESS (CLOCK ASSEMBLY - BATTERY) OR BATTERY****OK****RS**

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CHECK PASSENGER AIRBAG ON / OFF INDICATOR



- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Connect the connector to the clock assembly.
- (d) Disconnect the connectors from the center airbag sensor assembly.
- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the ignition switch to the ON position.
- (g) Check the indicator according to the conditions in the table below.

Result

Tester connection	Condition	Passenger airbag ON/OFF indicator
A13-23 (PAON) - Body ground	Ignition switch ON	"ON" comes on
A13-17 (P-AB) - Body ground	Ignition switch ON	"OFF" comes on

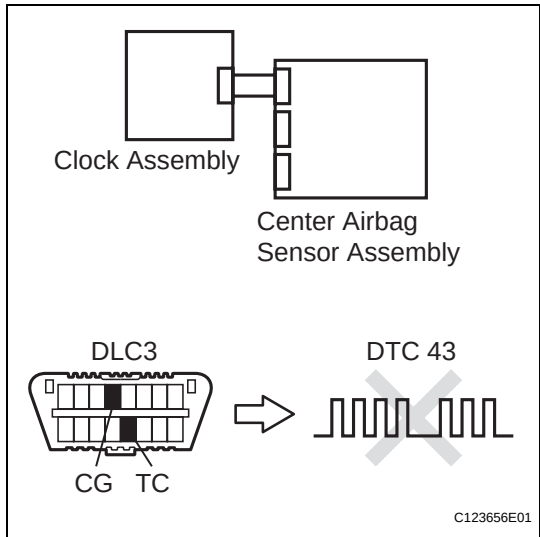
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REPLACE CLOCK ASSEMBLY

OK

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CHECK CENTER AIRBAG SENSOR ASSEMBLY



- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Connect the connectors to the center airbag sensor assembly.
- (d) Connect the negative (-) terminal cable to the battery and wait for at least 2 seconds.
- (e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (f) Clear the DTCs stored in memory (See page RS-34).
- (g) Turn the ignition switch to the LOCK position.
- (h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (i) Check for DTCs (See page RS-34).

OK:

DTC B1660/43 is not output.

HINT:

Codes other than DTC B1660/43 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

A button with a black border and a downward-pointing arrow shape at the bottom, containing the text "OK".

OK

A rectangular button with a black border containing the text "USE SIMULATION METHOD TO CHECK".

USE SIMULATION METHOD TO CHECK

A black square containing the white text "RS".

RS