

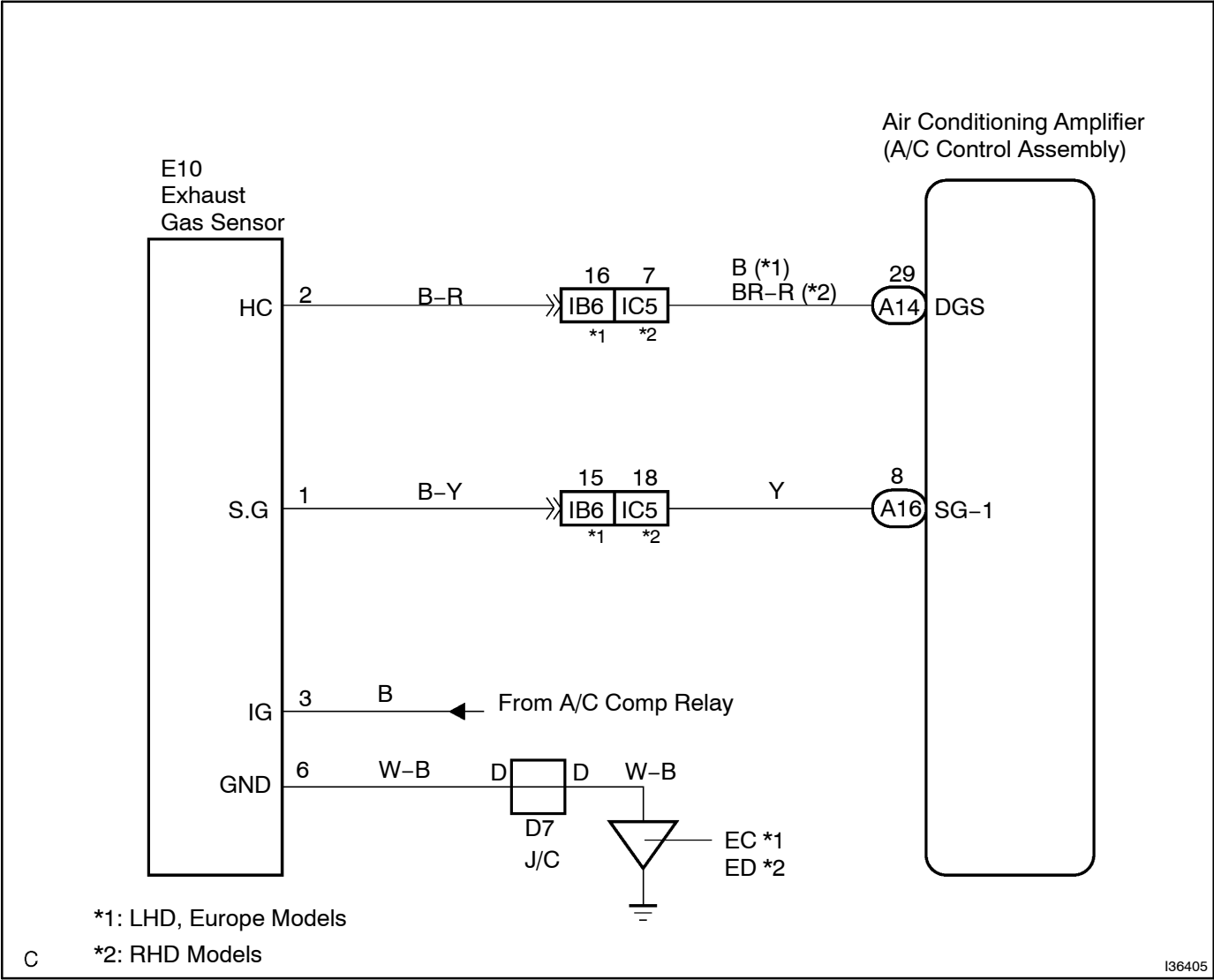
DTC	B1418	EMISSION GAS SENSOR CIRCUIT
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CIRCUIT DESCRIPTION

This sensor detects the exhaust gas (HC, CO) outside the vehicle and sends a signal to the A/C amplifier.

DTC No.	Detection Item	Trouble Area
B1418	Emission gas sensor circuit (HC, CO) (Open or short)	<ul style="list-style-type: none"><li>Exhaust gas sensor (Emission gas sensor)</li><li>Harness or connector between exhaust gas sensor (Emission gas sensor) and A/C amplifier</li><li>A/C amplifier</li></ul>

WIRING DIAGRAM



## INSPECTION PROCEDURE

## 1 READ VALUE ON INTELLIGENT TESTER

- (a) Connect the Intelligent Tester II to the DLC3.
- (b) Turn the Ignition switch to the ON position and push the Intelligent Tester II main switch on.
- (c) Select the item below in the DATA LIST, and read the display on the Intelligent Tester II.

## DATA LIST / AIR CONDITIONER:

Item	Measure Item/Display (Range)	Normal Condition	Diagnostic Note
Emission gas sensor (Emiss Gas Sens)	Emission gas min.: 0 V max.: 255 V	Increases as the gas amount increases	-

## OK:

The display is as specified in the normal condition.

## Result:

NG	A
OK (Checking from the PROBLEM SYMPTOM TABLE)	B
OK (Checking from the DTC)	C

B

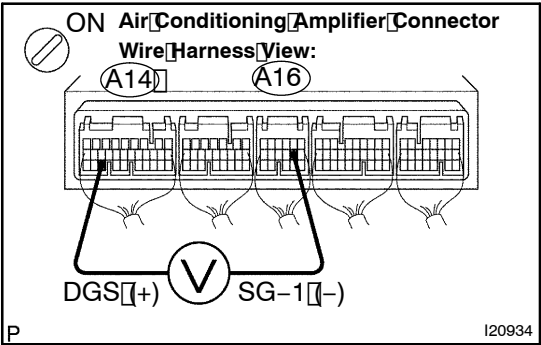
PROCEED TO NEXT CIRCUIT INSPECTION  
SHOWN IN PROBLEM SYMPTOMS TABLE  
(SEE PAGE 05-778)

C

REPLACE AIR CONDITIONING AMPLIFIER  
(SEE PAGE 55-16)

A

2 INSPECT AIR CONDITIONING AMPLIFIER (DGS - SG-1)



- (a) Remove the A/C amplifier with connectors still connected.
- (b) Turn the ignition switch to the ON position.
- (c) Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A14-29 (DGS) - A16-8 (SG-1)	Ignition switch ON at 10 to 35°C (50 to 95°F)	1.0 to 4.5 V

HINT:  
As the temperature increases, the voltage decreases.

Result:

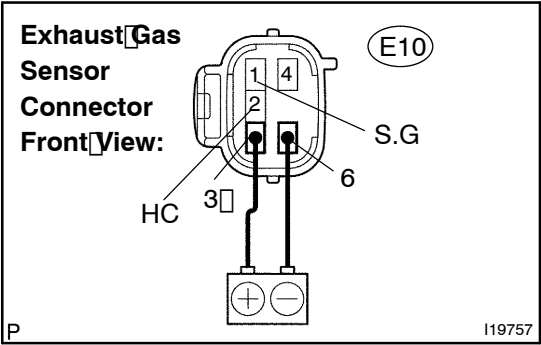
NG	A
OK (Checking from the PROBLEM SYMPTOM TABLE)	B
OK (Checking from the DTC)	C

B PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-778)

C REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55-16)

A

3 INSPECT EXHAUST GAS SENSOR



- (a) Remove the exhaust gas sensor.
- (b) After keeping to apply battery voltage between terminals 3 and 6 for more than 30 seconds, measure the resistance between terminals 1 and 2.
- (c) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
E10-1 (S.G) - E10-2 (HC)	at 10 to 35°C (50 to 95°F)	5 to 100 kΩ

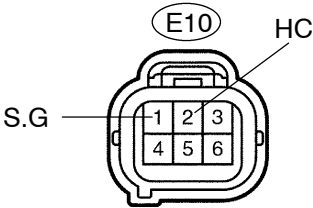
HINT:  
When the sensor is exposed to the exhaust gas, the resistance goes down.

NG REPLACE EXHAUST GAS SENSOR

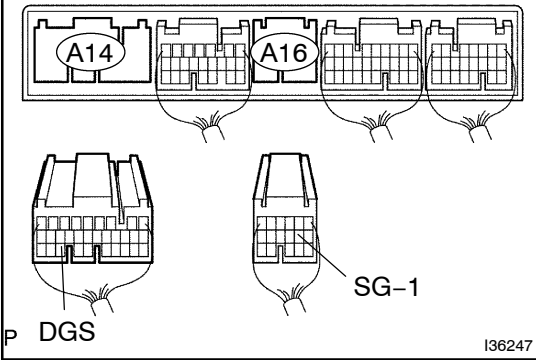
OK

4. CHECK HARNESS AND CONNECTOR (AIR CONDITIONING AMPLIFIER - EXHAUST GAS SENSOR) (SEE PAGE 01-44)

Exhaust Gas Sensor Connector  
Wire Harness View:



Air Conditioning Amplifier Connector  
Wire Harness View:



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

Standard:

Tester Connection	Condition	Specified Condition
E10-1 (S.G) - A16-8 (SG-1)	Always	Below 1 $\Omega$
E10-2 (HC) - A14-29 (DGS)	Always	Below 1 $\Omega$
E10-1 (S.G) - Body Ground	Always	10 k $\Omega$ or higher
A10-2 (HC) - Body Ground	Always	10 k $\Omega$ or higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55-16)