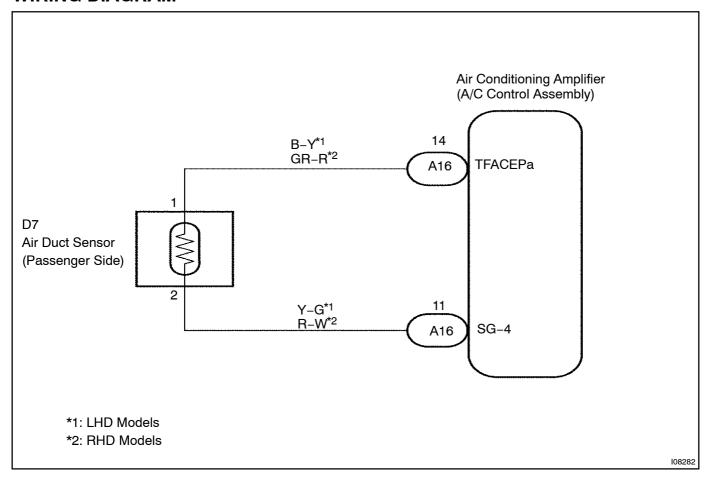
DTC	B1416	AIR DUCT SENSOR CIRCUIT (PASSENGER SIDE)	
		SIDE)	

# **CIRCUIT DESCRIPTION**

This sensor detects the register temperature and sends the appropriate signals to the A/C amplifier.

DTC No.	Detection Item	Trouble Area
B1416	Air duct sensor circuit (Passenger side) (Open or short)	Air duct sensor     Harness or connector between duct sensor and A/C amplifier     A/C amplifier

## **WIRING DIAGRAM**



## INSPECTION PROCEDURE

# 1 | | READ[YALUE[ON[INTELLIGENT[TESTER[II

- (a) Connect the intelligent tester to the intelligent tester to the intelligent the intelligen
- (b) Turn the ignition witch to the ON position and push the intelligent tester is main witch on.
- (c) Select the litem below in the DATA LIST, and litead the display on the lintelligent tester 1.

## DATA[LIST][AIR[CONDITIONER:

ltem	Measure⊡tem/Display (Range)	Normal@ondition	Diagnostic∏Note
Duct[sensor[[P[side) (Duct[Temp-P)	Duct[\$ensor[[Passenger[\$ide)]] min.: -1[2.7°C[[9.14°E) max.:[]*6.55°C (169.79°E)	Actualductdemperaturedsdis- playeddPassengerside)	-

#### OK:

The display is as specified in the normal condition.

### Result:

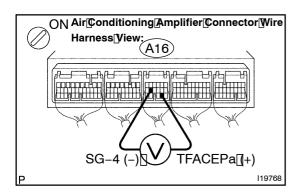
NG	A
OK[[Checking[]rom[]he[PROBLEM[\$YMPTOM[TABLE)	В
OK[[Checking[]rom[]he[]DTC)	С

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

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

Α

## 2 | INSPECT AIR CONDITIONING AMPLIFIER (TFACEPa - \$G-4)



- (a) Remove[the]A/Camplifier[with]connectors[still]connected.
- (b) Turn the ignition witch to the ON position.
- (c) Measure[the[yoltage]according[to[the[yalue(s)]in[the[table below.

#### Standard:

Tester@onnection	Condition	Specified@ondition
A16-1@[[TFACEPa] - A16-11[[SG-4]	lgnition[ <b>s</b> witch[ <b>O</b> N at[ <b>2</b> 5°C[[77°E)	1.8[]o[2.2[V
A16-1@[[TFACEPa] - A16-11[[SG-4]	lgnition[§witch[DN at[50°C (122°E)	0.8 <u>1</u> lo 1.2 <u>1</u> ly

#### HINT:

As the temperature increases, the voltage decreases.

#### Result:

NG	Α
OK (Checking[from[f]he[PROBLEM[\$YMPTOM[TABLE)	В
OK[[Checking[]rom[]]he[]DTC)	С



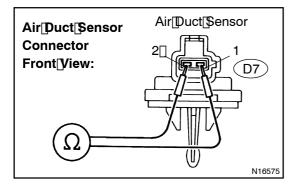
PROCEED[] TO[] NEXT[] CIRCUIT[] INSPECTION SHOWN[]N[PROBLEM[\$YMPTOMS[]TABLE (SEE[PAGE[05-778)



REPLACE[AIR[CONDITIONING[AMPLIFIER (SEE[PAGE[55-15])



# 3 | INSPECT\_AIR\_DUCT\_SENSOR



- (a) Remove the air duct sensor.
- (b) Measure the resistance according to the value(s) in the table below.

#### Standard:

Tester connection	Condition	Specified condition
D7-1 - D7-2	at 0°C (32°F)	14.5 to 19.0 kΩ
D7-1 - D7-2	at 25°C (77°F)	4.8 to 5.2 k $\Omega$
D7-1 - D7-2	at 50°C (122°F)	1.6 to 2.0 kΩ

#### HINT:

As the temperature increases, the resistance decreases.



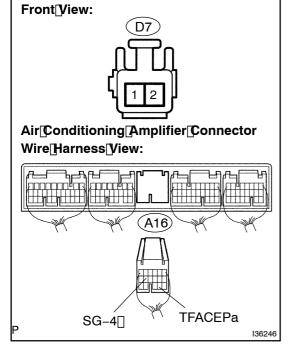
## **REPLACE AIR DUCT SENSOR**

OK

**4**[]

Air Duct Sensor Connector

# CHECK[HARNESS[AND]CONNECTOR(AIR]CONDITIONING[AMPLIFIER -[AIR DUCT[\$ENSOR)][SEE[PAGE[01-44])



(a) Measure[the[resistance[according[to[the[yalue(s)]]n[the table[below.

## Standard:

Tester[connection	Condition	Specified@condition
A16-1@(TFACEPa) - D7-1	Always	Below 1 Ω
A16-11[[SG-4) -[[D7-2	Always	Below 1 Ω
A16–1∄∏TFACEPa) – Body[ground	Always	10 kΩ[þr[իigher
A16−11[[SG−4) − Body[ground	Always	10 kΩ[þr[ħigher

NGĎ

OK

REPLACE[AIR[CONDITIONING[AMPLIFIER[SEE[PAGE[55-16]