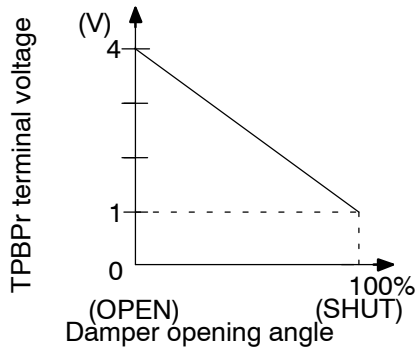


<b>DTC</b>	<b>B1435</b>	<b>MAX COOL DAMPER POSITION SENSOR CIRCUIT (PASSENGER SIDE)</b>
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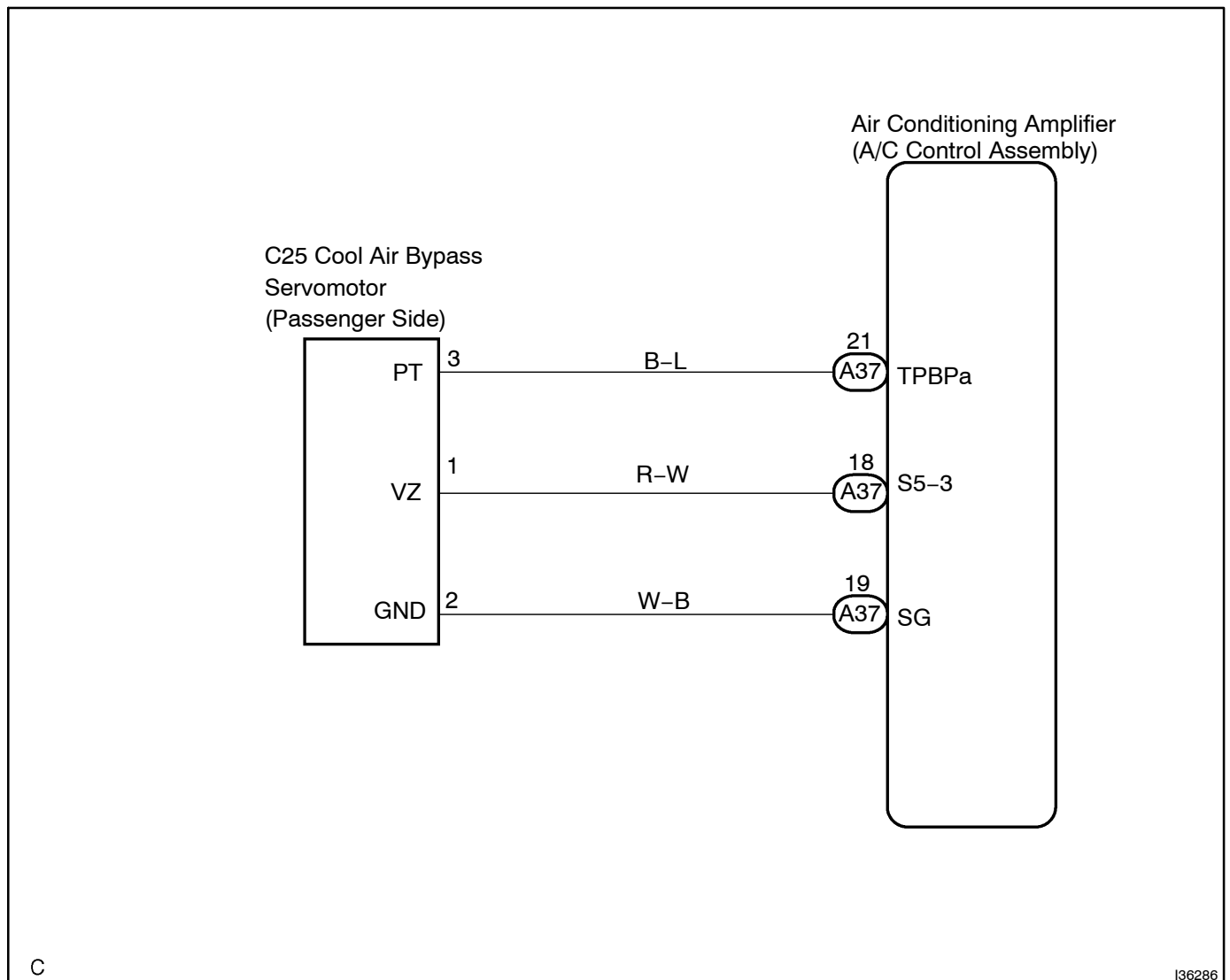
**CIRCUIT DESCRIPTION**



This sensor detects the position of the cool air bypass servomotor (Max cool damper servomotor) and sends the appropriate signals to the A/C amplifier. The position sensor is built in the cool air bypass servomotor.

DTC No.	Detection Item	Trouble Area
B1435	Max cool bypass damper position sensor circuit (Passenger side) (Open or short)	<ul style="list-style-type: none"> <li>• Cool air bypass servomotor (Max cool damper servomotor)</li> <li>• Harness or connector between cool air bypass servomotor (Max cool damper servomotor) and A/C amplifier</li> <li>• A/C amplifier</li> </ul>

**WIRING DIAGRAM**



## INSPECTION PROCEDURE

### 1 READ VALUE ON HAND-HELD TESTER

- (a) Connect the hand-held tester to the DLC3.  
 (b) Turn the ignition switch to the ON position and push the hand-held tester main switch on.  
 (c) Select the item below in the DATA LIST, and read the display on the hand-held tester.

#### DATA LIST / AIR CONDITIONER:

Item	Measure Item/Display (Range)	Normal Condition	Diagnostic Note
A/B DAMP POS-P	Cool air bypass damper position (Passenger side) / min.: -14% max.: 113.5%	OPEN: Approx. 0 % SHUT: Approx. 100%	-

#### 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**

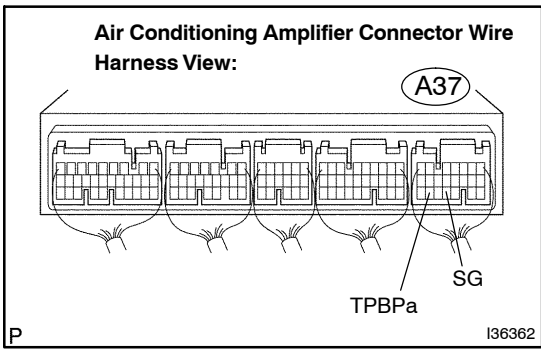
**PROCEED TO NEXT CIRCUIT INSPECTION  
SHOWN IN PROBLEM SYMPTOMS TABLE  
(SEE PAGE 05-885)**

**C**

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

**A**

**2 INSPECT AIR CONDITIONING AMPLIFIER(TPBP<sub>a</sub> - SG (SG-7))**



- (a) Remove the A/C amplifier with connectors still connected.
- (b) Turn the ignition switch to the ON position.
- (c) Change the set temperature to activate the cool air by-pass servomotor.
- (d) Measure the voltage according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
A37-21 (TPBP <sub>a</sub> ) - A38-19 (SG)	MAX. Hot	0.5 to 1.8 V
A37-21 (TPBP <sub>a</sub> ) - A38-19 (SG)	MAX. Cool	3.5 to 4.5 V

**HINT:**

As the set temperature increases, the voltage decreases gradually without interruption.

**Result:**

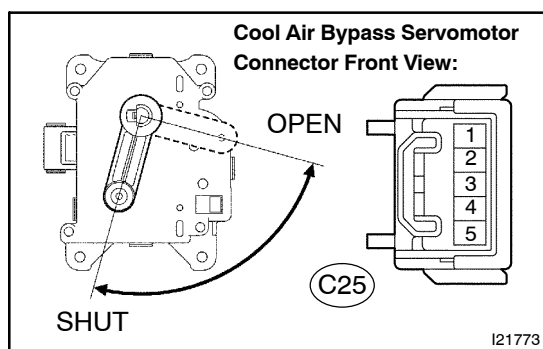
NG	A
OK (Checking from the PROBLEM SYMPTOMS TABLE)	B
OK (Checking from the DTC)	C

**B** → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-885)**

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

**A**

### 3 INSPECT COOL AIR BYPASS SERVOMOTOR



- (a) Remove the cool air bypass servomotor.
- (b) Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
C25-1 (VZ) - C25-2 (GND)	Always	4.2 to 7.2 k $\Omega$

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

**HINT:**

See page [05-964](#) for operation procedure for cool air bypass servomotor.

**Standard:**

Tester connection	Condition	Specified condition
C25-3 (PT) - C25-2 (GND)	Max. Cool	3.33 to 4.03 k $\Omega$
C25-3 (PT) - C25-2 (GND)	Max. Hot	0.80 to 1.60 k $\Omega$

**HINT:**

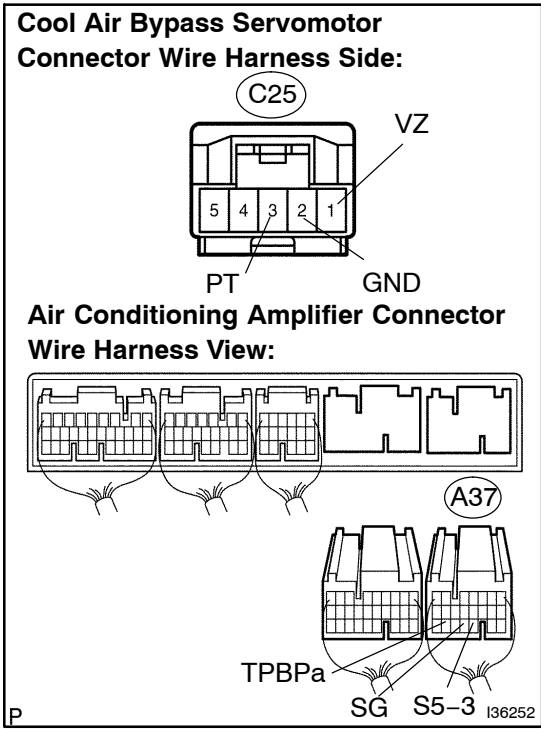
As the cool air bypass servomotor moves from the cool side to the hot side, the resistance decreases gradually without interruption.

**NG**

**REPLACE COOL AIR BYPASS SERVOMOTOR**

**OK**

**4 CHECK HARNESS AND CONNECTOR(COOL AIR BYPASS SERVOMOTOR - AIR CONDITIONING AMPLIFIER) (SEE PAGE 01-42)**



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

**Standard:**

Tester connection	Condition	Specified condition
A37-21 (TPBP a) - C25-3 (PT)	Always	Below 1 Ω
A37-18 (S5-3) - C25-1 (VZ)	Always	Below 1 Ω
A37-19 (SG) - C25-2 (GND)	Always	Below 1 Ω
C25-3 (PT) - Body ground	Always	10 kΩ or higher
C25-1 (VZ) - Body ground	Always	10 kΩ or higher
C25-2 (GND) - Body ground	Always	10 kΩ or higher

**NG REPAIR OR REPLACE HARNESS OR CONNECTOR**

**OK**

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