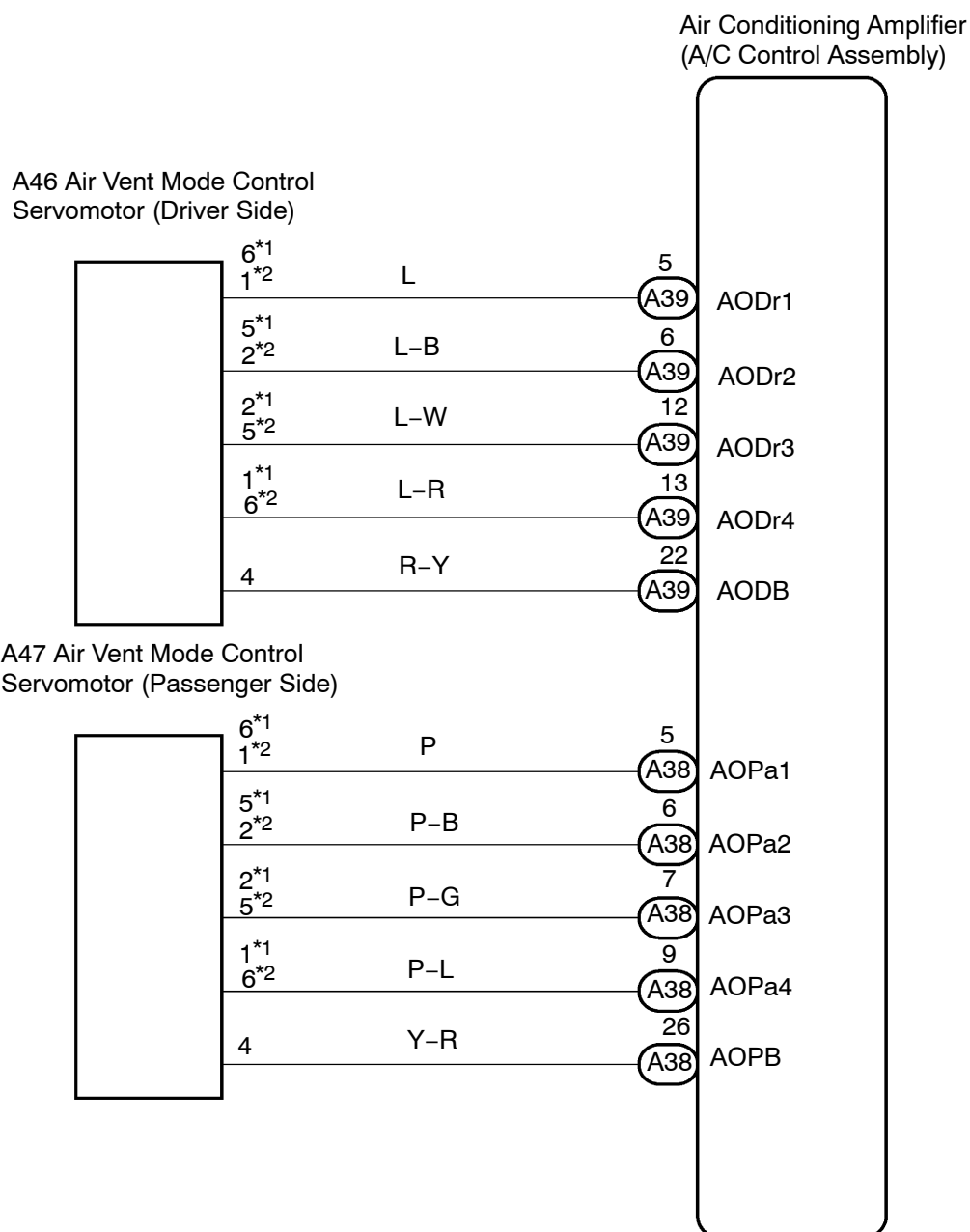# AIR VENT MODE DAMPER CONTROL SERVOMOTOR CIRCUIT

CIRCUIT DESCRIPTION

This circuit turns the servomotor and changes each damper position by receiving the signals from the A/C amplifier assy. When the AUTO switch is on, the A/C amplifier changes the mode between "FACE", "BI–LEVEL" and "FOOT" following the temperature setting.

WIRING DIAGRAM

*1: LHD

C   *2: RHD

INSPECTION PROCEDURE

1	PERFORM ACTUATOR CHECK

(a) Warm up the engine.

(b) Set the actuator check mode (see page 05–774).

(c) Press the driver temperature up switch, and change to step operation.

(d) Press the driver temperature up switch, and check the air flow mode by hand.

Display code	Air flow position
0	FACE
1	FACE
2	FACE
3	FACE
4	BI–LEVEL
5	BI–LEVEL
6	FOOT
7	FOOT
8	FOOT/DEF
9	DEF

OK:

Air flow position changes in accordance with each display code.

NG	REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55–16)

OK

2	INSPECT VENT MODE CONTROL SERVOMOTOR

Air Vent Mode Control Servomotor Connector Wire Harness View (Driver Side):

I41338

Air Vent Mode Control Servomotor Connector Wire Harness View (Passenger Side):
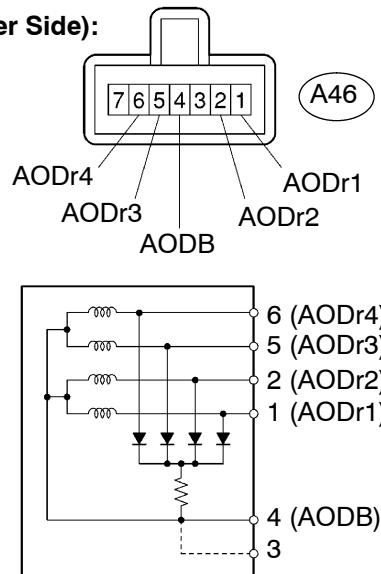
I41338

(a) Remove the vent mode control servomotor.

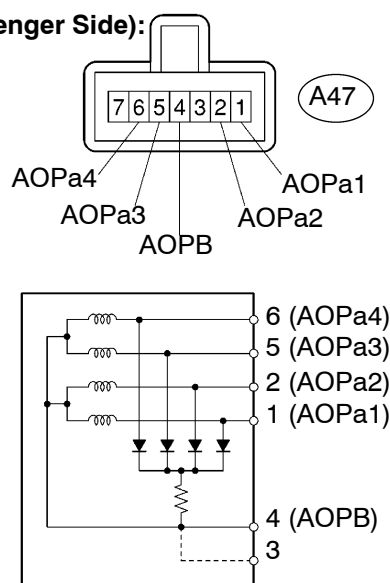(b) Measure resistance according to the value(s) in the table below:

Standard: (Driver side)

Tester connection	Condition	Specified condition
A46−1 (AODr1) − A46−4 (AODB)	Always	24.3 to 26.3 Ω
A46−2 (AODr2) − A46−4 (AODB)	Always	24.3 to 26.3 Ω
A46−5 (AODr3) − A46−4 (AODB)	Always	24.3 to 26.3 Ω
A46−6 (AODr4) − A46−4 (AODB)	Always	24.3 to 26.3 Ω

Standard: (Passenger side)

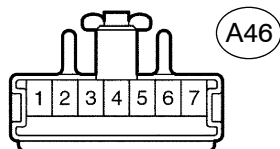| Tester connection	Condition	Specified condition
A47−1 (AOPa1) − A47−4 (AOPB)	Always	24.3 to 26.3 Ω
A47−2 (AOPa2) − A47−4 (AOPB)	Always	24.3 to 26.3 Ω
A47−5 (AOPa3) − A47−4 (AOPB)	Always	24.3 to 26.3 Ω
A47−1 (AOPa4) − A47−4 (AOPB)	Always	24.3 to 26.3 Ω

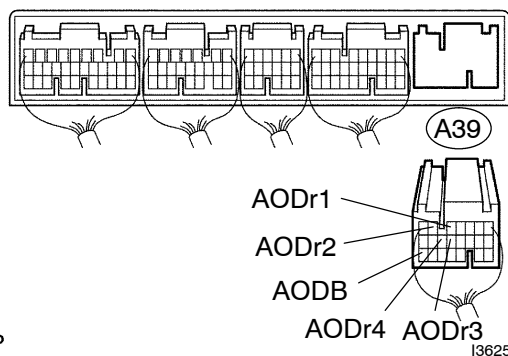| NG >	REPLACE AIR OUTLET SERVOMOTOR

OK

| 3 | CHECK HARNESS AND CONNECTOR(AIR OUTLET SERVOMOTOR – AIR CONDITIONING AMPLIFIER) (SEE PAGE 01–44) |

Air Outlet Servomotor Connector Front View (Driver Side):

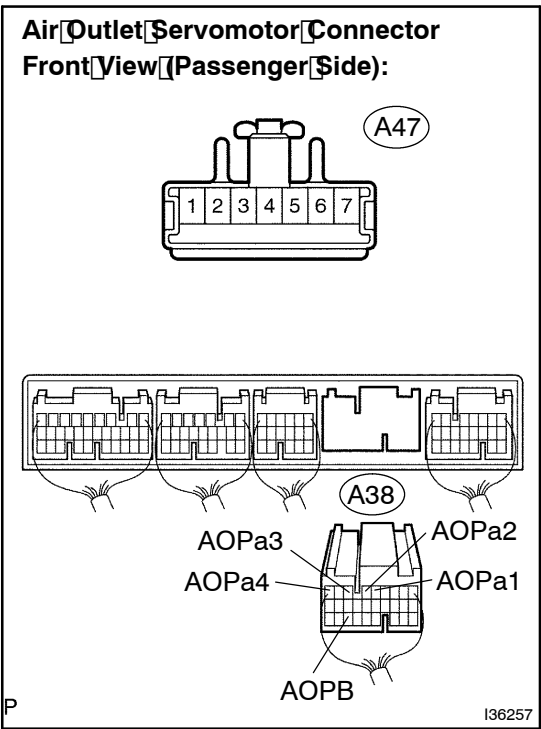**Air Conditioning Amplifier Connector Wire Harness View:**

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

Standard (Driver side):

Tester connection	Condition	Specified condition
A39–5 (AODr1) – A46–6 *1	Always	Below 1 Ω
A39–6 (AODr2) – A46–5 *1	Always	Below 1 Ω
A39–12 (AODr3) – A46–2 *1	Always	Below 1 Ω
A39–13 (AODr4) – A46–1 *1	Always	Below 1 Ω
A39–5 (AODr1) – A46–1 *2	Always	Below 1 Ω
A39–6 (AODr2) – A46–2 *2	Always	Below 1 Ω
A39–12 (AODr3) – A46–5 *2	Always	Below 1 Ω
A39–13 (AODr4) – A46–6 *2	Always	Below 1 Ω
A39–22 (AODB) – A46–4	Always	Below 1 Ω
A39–5 (AODr1) – Body ground	Always	10 kΩ or higher
A39–6 (AODr2) – Body ground	Always	10 kΩ or higher
A39–12 (AODr3) – Body ground	Always	10 kΩ or higher
A39–13 (AODr4) – Body ground	Always	10 kΩ or higher
A39–22 (AODB) – Body ground	Always	10 kΩ or higher

*1: LHD
*2: RHD

Air Outlet Servomotor Connector Front View (Passenger Side):

Standard (Passenger side):

Tester connection	Condition	Specified condition
A38−5 (AOPa1) − A47−6 *1	Always	Below 1 Ω
A38−6 (AOPa2) − A47−5 *1	Always	Below 1 Ω
A38−7 (AOPa3) − A47−2 *1	Always	Below 1 Ω
A38−9 (AOPa4) − A47−1 *1	Always	Below 1 Ω
A38−5 (AOPa1) − A47−1 *2	Always	Below 1 Ω
A38−6 (AOPa2) − A47−2 *2	Always	Below 1 Ω
A38−7 (AOPa3) − A47−5 *2	Always	Below 1 Ω
A38−9 (AOPa4) − A47−6 *2	Always	Below 1 Ω
A38−26 (AOPB) − A47−4	Always	Below 1 Ω
A38−5 (AOPa1) − Body ground	Always	10 kΩ or higher
A38−6 (AOPa2) − Body ground	Always	10 kΩ or higher
A38−7 (AOPa3) − Body ground	Always	10 kΩ or higher
A38−9 (AOPa4) − Body ground	Always	10 kΩ or higher
A38−26 (AOPB) − Body ground	Always	10 kΩ or higher

*1: LHD

*2: RHD

NG ⟩ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55−16)