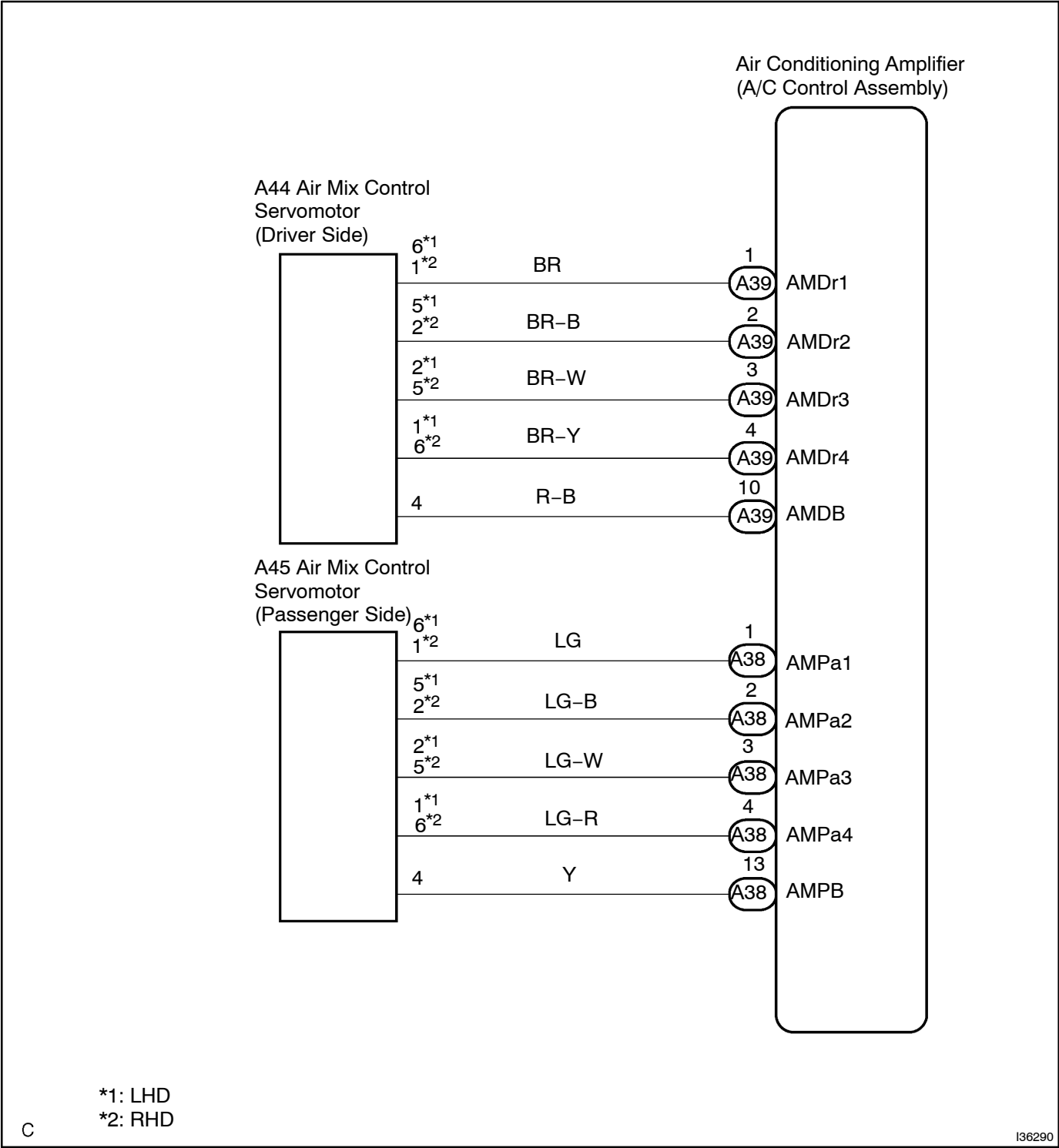


AIR MIX DAMPER CONTROL SERVOMOTOR CIRCUIT

CIRCUIT DESCRIPTION

This servomotor is controlled by the A/C amplifier. Air flow temperature changes when moving the air mix damper to the target point. The target point can be detected with the air mix damper position sensor.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 READ VALUE ON INTELLIGENT TESTER II

- (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
Air Mix Servomotor Target Step (D Side) (Air Mix Step-D)	Air Mix Servomotor Target Step (Driver Side) min.: 257 step max.: 571 step	MAX COOL: Approx. 257 step MAX HOT: Approx. 571 step	-
Air Mix Servomotor Target Step (P Side) (Air Mix Step-P)	Air Mix Servomotor Target Step (Passenger Side) min.: 257 step max.: 571 step	MAX COOL: Approx. 257 step MAX HOT: Approx. 571 step	-

OK:

The display is as specified in the normal condition.

NG
**REPLACE AIR CONDITIONING AMPLIFIER
(SEE PAGE 55-16)**
OK**2 PERFORM ACTUATOR CHECK**

- (a) Set the actuator check mode (see page 05-774).
- (b) Press the driver temperature up switch and change to the step operation.
- (c) Check the air flow temperature by hand.

Display Code	Air Mix Damper Operation
0	COOL side 10% open
1	COOL side 10% open
2	COOL side 10% open
3	COOL side 10% open
4	COOL/HOT 50% open
5	COOL/HOT 50% open
6	COOL/HOT 50% open
7	HOT side 100% open
8	HOT side 100% open
9	HOT side 100% open

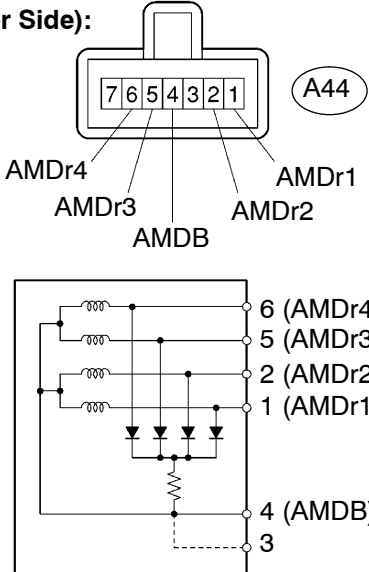
OK:

Air flow temperature changes in accordance with each display code.

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

3 INSPECT AIR MIX CONTROL SERVOMOTOR

**Air Mix Control Servomotor
Connector Wire Harness View
(Driver Side):**



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- (a) Remove the air mix control servomotor.
(b) Measure the resistance according to the value(s) in the table below:

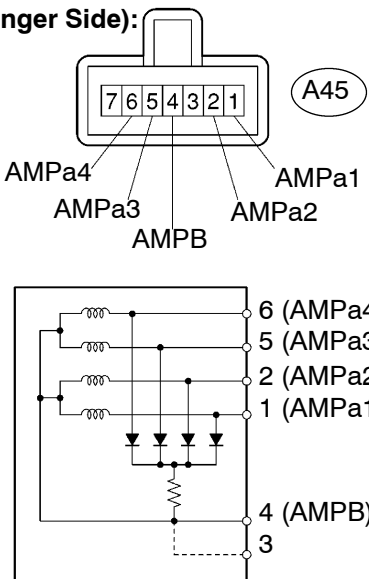
Standard: (Driver side)

Tester connection	Condition	Specified condition
A44-1 (AMDr1) - A44-4 (AMDB)	Always	24.3 to 26.3 Ω
A44-2 (AMDr2) - A44-4 (AMDB)	Always	24.3 to 26.3 Ω
A44-5 (AMDr3) - A44-4 (AMDB)	Always	24.3 to 26.3 Ω
A44-6 (AMDr4) - A44-4 (AMDB)	Always	24.3 to 26.3 Ω

Standard: (Passenger side)

Tester connection	Condition	Specified condition
A45-1 (AMPa1) - A45-4 (AMPB)	Always	24.3 to 26.3 Ω
A45-2 (AMPa2) - A45-4 (AMPB)	Always	24.3 to 26.3 Ω
A45-5 (AMPa3) - A45-4 (AMPB)	Always	24.3 to 26.3 Ω
A45-6 (AMPa4) - A45-4 (AMPB)	Always	24.3 to 26.3 Ω

**Air Mix Control Servomotor
Connector Wire Harness View
(Passenger Side):**



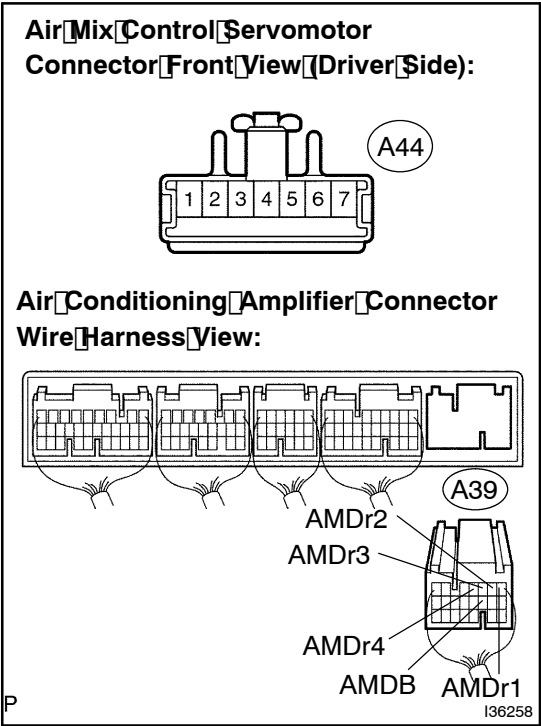
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REPLACE AIR MIX CONTROL SERVOMOTOR

OK

4. CHECK HARNESS AND CONNECTOR (AIR MIX CONTROL SERVOMOTOR – AIR CONDITIONING AMPLIFIER) (SEE PAGE 01-44)



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

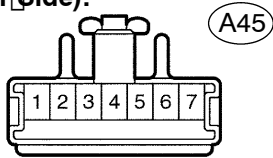
Standard (Driver side):

Tester connection	Condition	Specified condition
A39-1 (AMDr1) – A44-6 *1	Always	Below 1 Ω
A39-2 (AMDr2) – A44-5 *1	Always	Below 1 Ω
A39-3 (AMDr3) – A44-2 *1	Always	Below 1 Ω
A39-4 (AMDr4) – A44-1 *1	Always	Below 1 Ω
A39-1 (AMDr1) – A44-1 *2	Always	Below 1 Ω
A39-2 (AMDr2) – A44-2 *2	Always	Below 1 Ω
A39-3 (AMDr3) – A44-5 *2	Always	Below 1 Ω
A39-4 (AMDr4) – A44-6 *2	Always	Below 1 Ω
A39-10 (AMDB) – A44-4	Always	Below 1 Ω
A39-1 (AMDr1) – Body ground	Always	10 kΩ or higher
A39-2 (AMDr2) – Body ground	Always	10 kΩ or higher
A39-3 (AMDr3) – Body ground	Always	10 kΩ or higher
A39-4 (AMDr4) – Body ground	Always	10 kΩ or higher
A39-10 (AMDB) – Body ground	Always	10 kΩ or higher

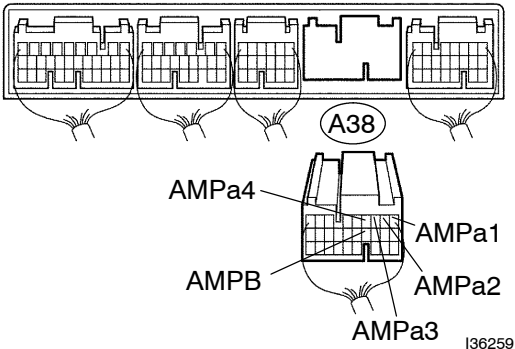
*1: LHD

*2: RHD

Air Mix Control Servomotor
Connector Front View
(Passenger Side):



Air Conditioning Amplifier Connector
Wire Harness View:



Standard (Passenger Side):

Tester Connection	Condition	Specified Condition
A38-1 (AMPa1) - A45-6 *1	Always	Below 1 Ω
A38-2 (AMPa2) - A45-5 *1	Always	Below 1 Ω
A38-3 (AMPa3) - A45-2 *1	Always	Below 1 Ω
A38-4 (AMPa4) - A45-1 *1	Always	Below 1 Ω
A38-1 (AMPa1) - A45-1 *2	Always	Below 1 Ω
A38-2 (AMPa2) - A45-2 *2	Always	Below 1 Ω
A38-3 (AMPa3) - A45-5 *2	Always	Below 1 Ω
A38-4 (AMPa4) - A45-6 *2	Always	Below 1 Ω
A38-13 (AMPB) - A45-4	Always	Below 1 Ω
A38-1 (AMPa1) - Body Ground	Always	10 kΩ or higher
A38-2 (AMPa2) - Body Ground	Always	10 kΩ or higher
A38-3 (AMPa3) - Body Ground	Always	10 kΩ or higher
A38-4 (AMPa4) - Body Ground	Always	10 kΩ or higher
A38-13 (AMPB) - 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)