

DTC	RrDEF, HI	AIR OUTLET CONTROL SERVOMOTOR CIRCUIT
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CIRCUIT DESCRIPTION

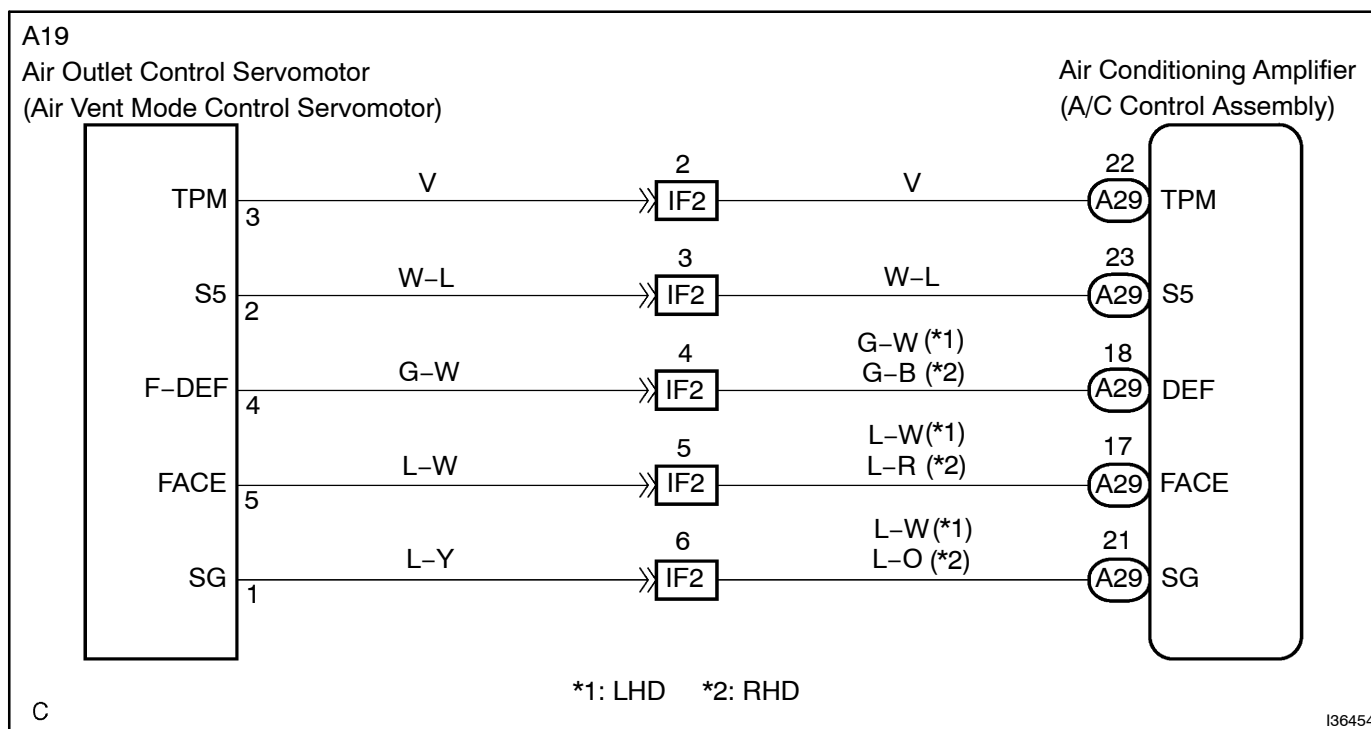
This circuit turns the servomotor and changes each damper position by receiving the signals from the A/C amplifier assy.

The air outlet control servomotor switches the air outlet by rotating the motor (normal, reverse) with electrical power from the A/C amplifier.

When the AUTO switch is on, the A/C amplifier changes the mode between "FACE", "BI-LEVEL" and "FOOT" according to the temperature setting.

DTC No.	Detection Item	Trouble Area
RrDEF, HI	Air outlet control servomotor value does not change even if A/C amplifier operates air outlet control servomotor.	<ul style="list-style-type: none"> • Air outlet control servomotor • Harness or connector between air outlet control servomotor and A/C amplifier • A/C amplifier

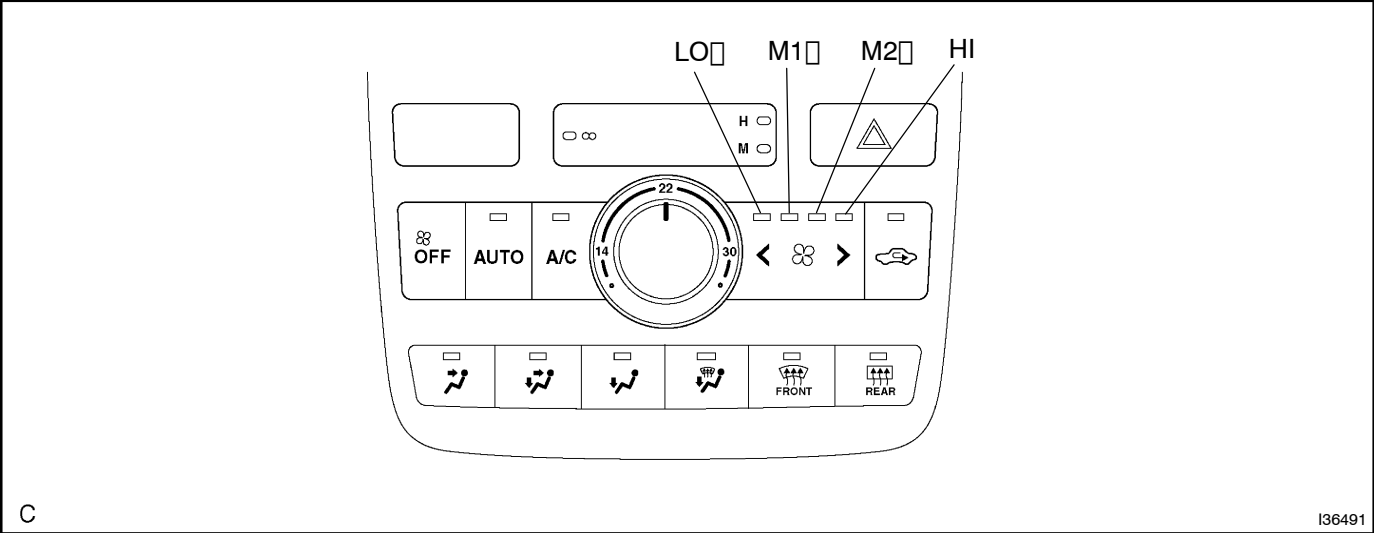
WIRING DIAGRAM



INSPECTION PROCEDURE

1 PERFORM ACTUATOR CHECK

- (a) Warm up the engine.
- (b) Set to the actuator check mode (see page 05-850).
- (c) Press the FACE switch and change to step operation.
- (d) Press the FACE switch and check the air flow by hand.



The number of indicated blower speed indicator	Air flow condition
0	FACE (-9.0%)
1 (LO)	B/L (19.0%)
2 (M1)	FOOT (62.0%)
3 (M2)	F/D (81.0%)
4 (HI)	DEF (109.0%)

OK:
Air flow position changes in accordance with each display code.

Result:

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

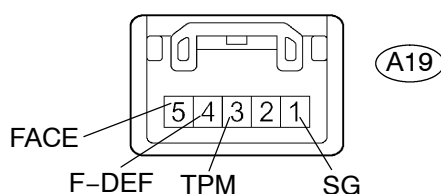
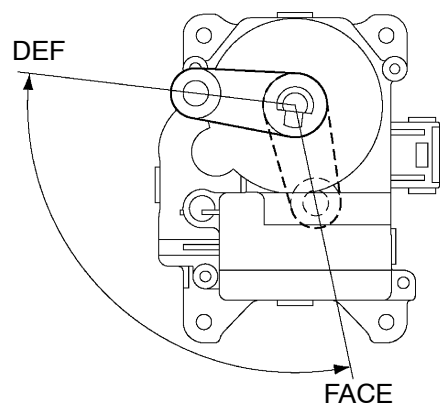
B PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-862)

C REPLACE AIR CONDITIONING AMPLIFIER (SEE PUB. NO. RM864E ON PAGE 55-96)

A

2 INSPECT AIR OUTLET CONTROL SERVOMOTOR

LHD Models:



H

E56112

- Remove the air outlet control servomotor.
- Disconnect the connector from the air outlet control servomotor.
- Connect the positive (+) lead from the battery to terminal 4 and negative (-) lead to terminal 5, then check that the lever turns to "FACE" position smoothly.
- Measure the resistance according to the value(s) in the table below.

Standard:

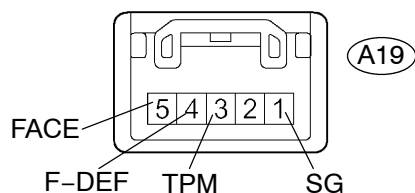
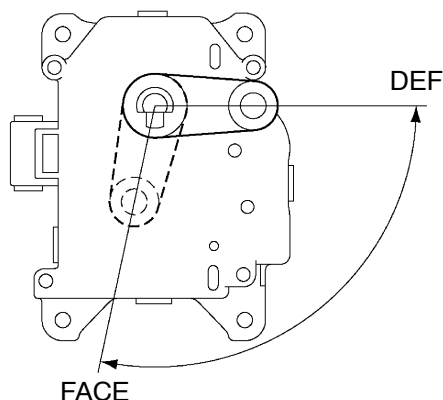
Tester connection	Condition	Specified condition
A19-3 (TPM) - A19-1 (SG)	FACE position	3.6 to 6.7 kΩ

- Connect the positive (+) lead from the battery to terminal 5 and negative (-) lead to terminal 4, then check that the lever turns to "DEF" position smoothly.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A19-3 (TPM) - A19-1 (SG)	DEF position	0.6 to 1.1 kΩ

RHD Models:



H

E56111

NG

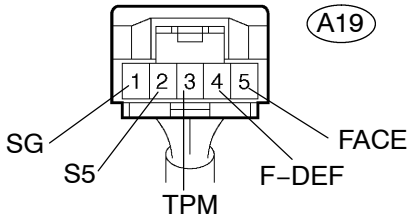
REPLACE AIR OUTLET CONTROL SERVOMOTOR

OK

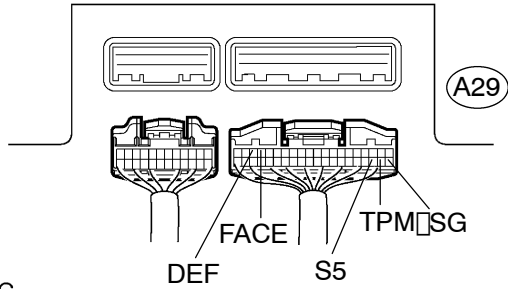
3

CHECK HARNESS AND CONNECTOR (AIR OUTLET CONTROL SERVOMOTOR - AIR CONDITIONING AMPLIFIER) (SEE PAGE 01-32)

Air Outlet Control Servomotor Connector Front View:



Air Conditioning Amplifier Connector Wire Harness View:



- (a) Disconnect the connectors from the air outlet control servomotor and A/C amplifier.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A29-17 (FACE) - A19-5 (FACE)	Always	Below 1 Ω
A29-18 (DEF) - A19-4 (F-DEF)	Always	Below 1 Ω
A29-21 (SG) - A19-1 (SG)	Always	Below 1 Ω
A29-22 (TPM) - A19-3 (TPM)	Always	Below 1 Ω
A29-23 (S5) - A19-2 (S5)	Always	Below 1 Ω
A29-17 (FACE) - Body ground	Always	10 k Ω or higher
A29-18 (DEF) - Body ground	Always	10 k Ω or higher
A29-21 (SG) - Body ground	Always	10 k Ω or higher
A29-22 (TPM) - Body ground	Always	10 k Ω or higher
A29-23 (S5) - Body ground	Always	10 k Ω or higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE AIR CONDITIONING AMPLIFIER (SEE PUB. NO. RM864E ON PAGE 55-96)