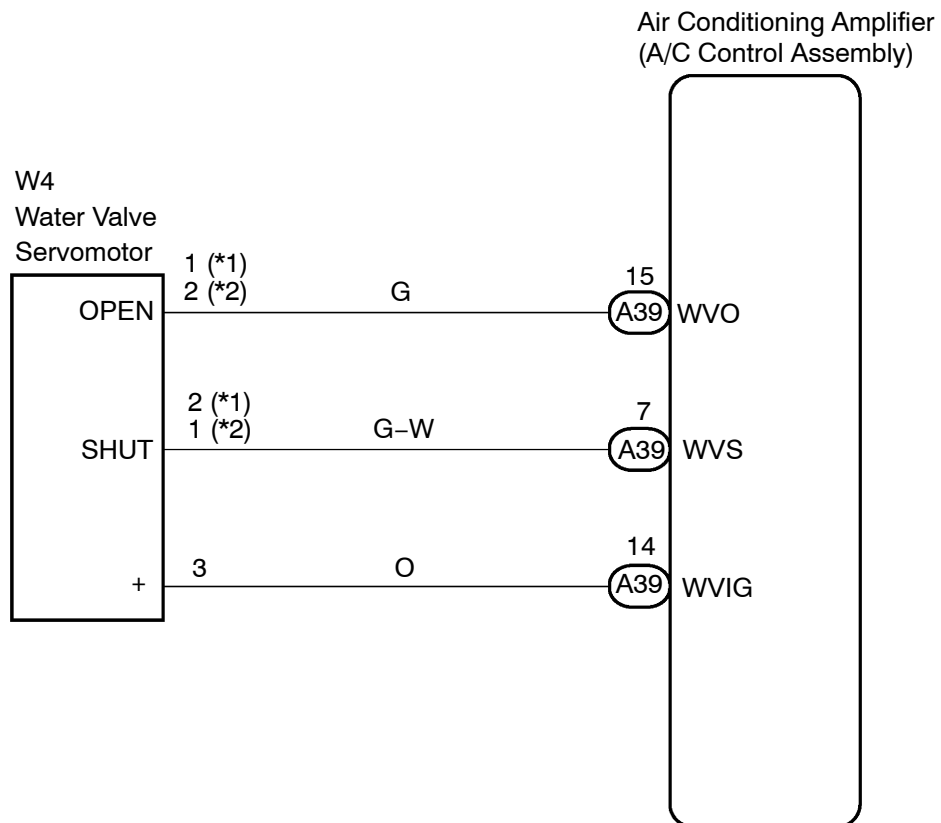


WATER VALVE CONTROL SERVOMOTOR CIRCUIT

CIRCUIT DESCRIPTION

This circuit controls the amount of the coolant flowing to the heater core by a signal from the A/C amplifier, and adjusts the temperature at the air outlets.

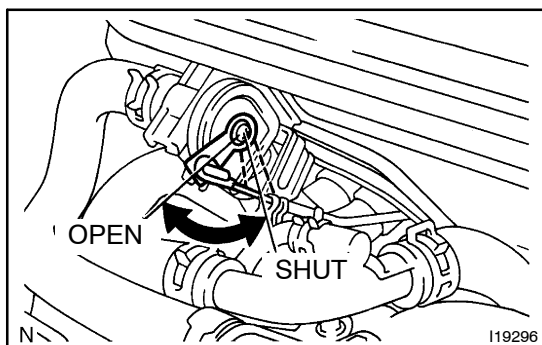
WIRING DIAGRAM



*1: LHD
*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 operation of water valve.

Display code	Air flow lever position
0	SHUT
1	SHUT
2	SHUT
3	OPEN
4	OPEN
5	OPEN
6	OPEN
7	OPEN
8	OPEN
9	OPEN

OK:

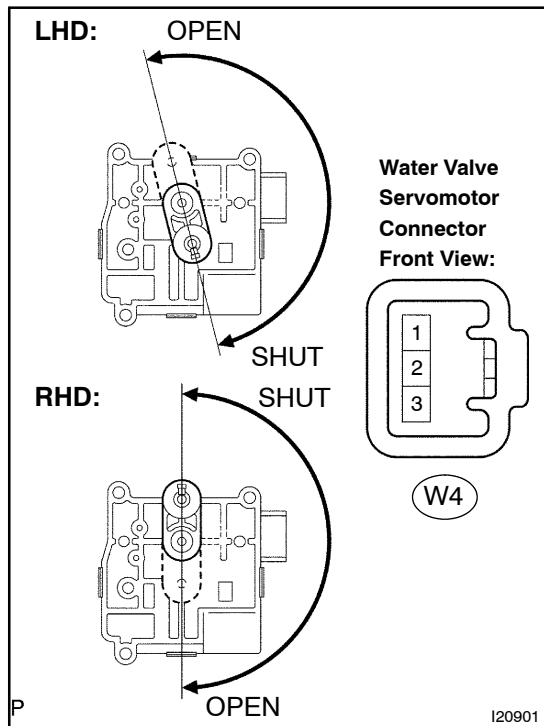
Water valve lever changes in accordance with each display code.

NG

REPLACE AIR CONDITIONING AMPLIFIER
([SEE PAGE 55-16](#))

OK

2 INSPECT WATER VALVE SERVOMOTOR



- Remove the water valve servomotor.
- Connect the positive (+) lead from the battery to terminal 3 and negative (-) lead to terminal 1 (2), then check that the lever turns to the "OPEN" position smoothly.
- Connect the positive (+) lead from the battery to terminal 3 and negative (-) lead to terminal 2 (1), then check that the lever turns to the "SHUT" position smoothly.

HINT:

(): RHD models

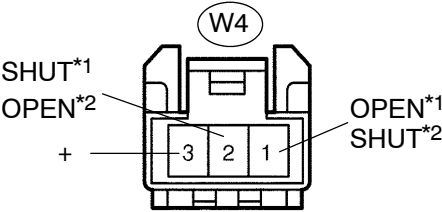
NG

REPLACE WATER VALVE SERVOMOTOR

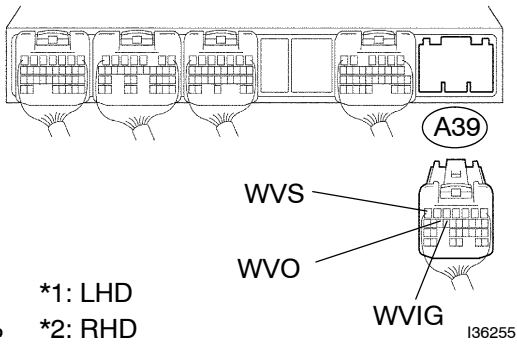
OK

3 **CHECK HARNESS AND CONNECTOR(WATER VALVE SERVOMOTR - AIR
CONDITIONING AMPLIFIER) (SEE PAGE 01-44)**

**Water Valve Servomotor Connector
Wire Harness View:**



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



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

Standard:

Tester connection	Condition	Specified condition
A39-15 (WVO) - W4-1 (OPEN) *1	Always	Below 1 Ω
A39-15 (WVO) - W4-2 (OPEN) *2	Always	Below 1 Ω
A39-7 (WVS) - W4-2 (SHUT) *1	Always	Below 1 Ω
A39-7 (WVS) - W4-1 (SHUT) *2	Always	Below 1 Ω
A39-14 (WVIG) - W4-3 (+)	Always	Below 1 Ω
A39-15 (WVO) - Body ground	Always	10 kΩ or higher
A39-7 (WVS) - Body ground	Always	10 kΩ or higher
A39-14 (WVIG) - Body ground	Always	10 kΩ or higher

HINT:

*1: LHD

*2: RHD

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55-16)