

Water Valve VSV Circuit

CIRCUIT DESCRIPTION

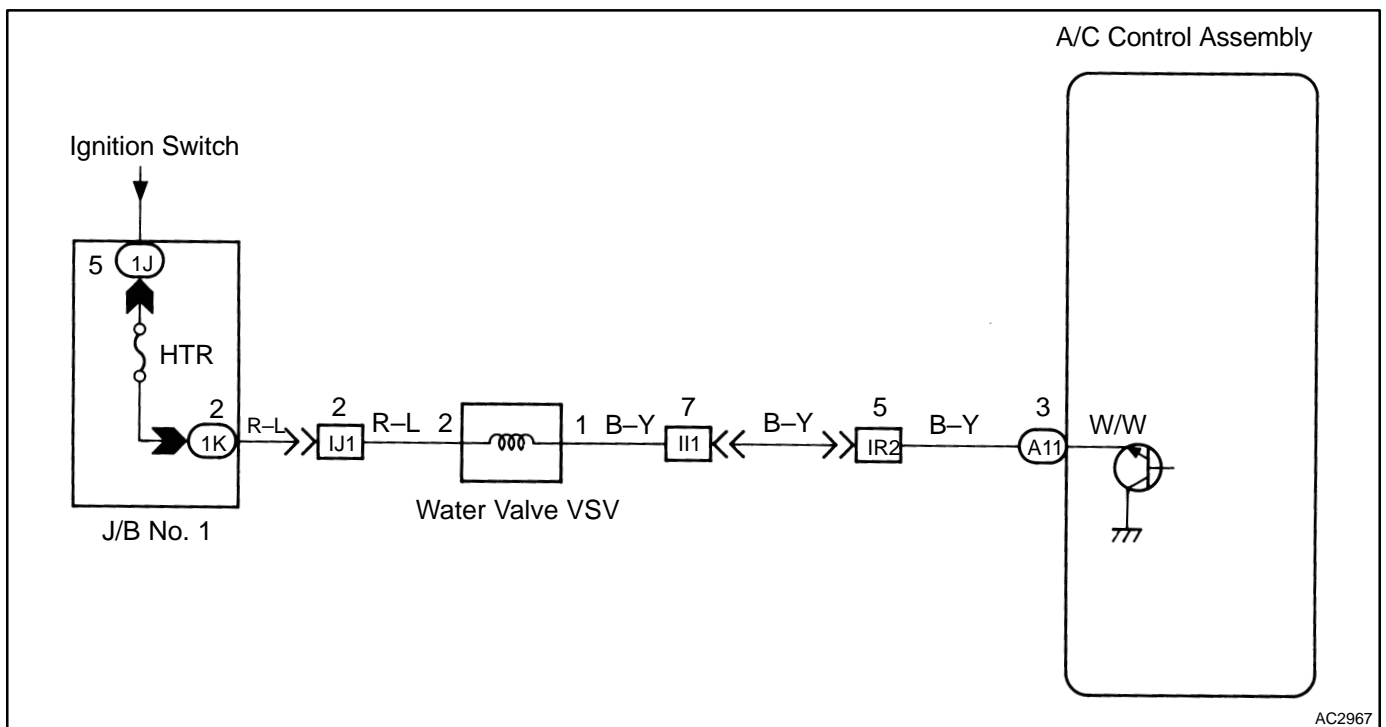
If the target air mix damper position is on the hot side beyond a predetermined level, the A/C control assembly turn ON Tr inside the A/C control assembly.

This turns the water valve VSV ON so that engine coolant flows to the heater core.

If the target air mix damper position is on the cool side beyond a predetermined level, the A/C control assembly OFF Tr inside the A/C control assembly.

This turns OFF the VSV and stops circulation of engine coolant to the heater core, thus increasing the cooling performance.

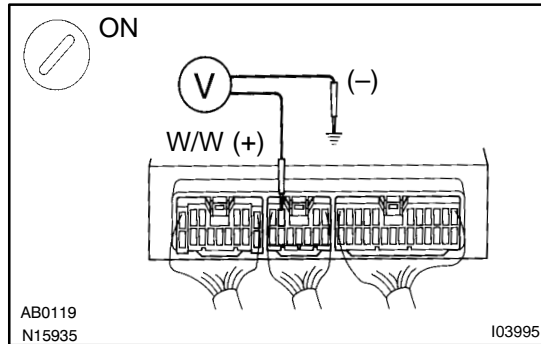
WIRING DIAGRAM



AC2967

INSPECTION PROCEDURE

- 1 Check voltage between terminal W/W of A/C control assembly connector and body ground.**

**PREPARATION:**

- Remove upper console panel.
- Remove A/C control assembly with connectors still connected.
- Start the engine.

CHECK:

Measure voltage between terminal W/W of A/C control assembly connector and body ground when the set temp. is set to MAX COLD and MAX HOT.

OK:

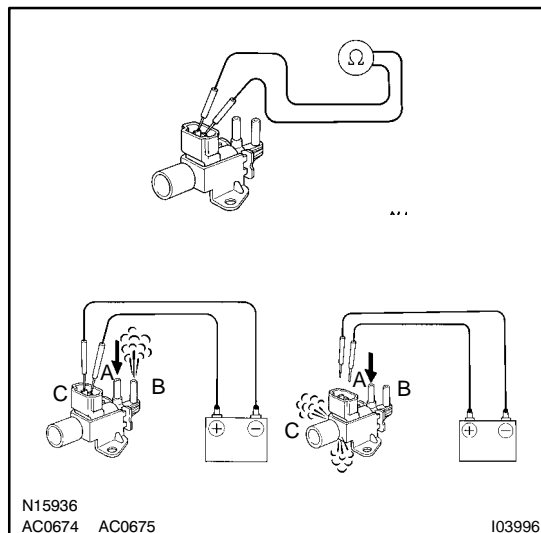
Set Temp.	Voltage
MAX. COLD	10 – 14 V
MAX. HOT	Below 1 V

OK

Proceed to next circuit inspection shown on matrix chart (See page DI-821).

NG

- 2 Check water valve VSV.**

**PREPARATION:**

Water valve VSV connector.

CHECK:

Measure resistance between terminals of VSV connector.

OK:

Resistance: 37 – 44 Ω at 20°C (68°F)

CHECK:

Check operation of water valve VSV when battery positive voltage is applied to terminals of VSV connector or not.

OK:

- Battery positive voltage is applied:
The air from A is flowing out through B.
- Battery positive voltage is not applied:
The air from A is flowing out through air filter.

NG

Replace water valve VSV.

OK

3	Check for open and short in harness and connector between VSV and A/C control assembly (See page IN-29).
---	---

NG**Repair or replace harness or connector.****OK****Check and replace A/C control assembly.**