

Water Valve VSV Circuit

CIRCUIT DESCRIPTION

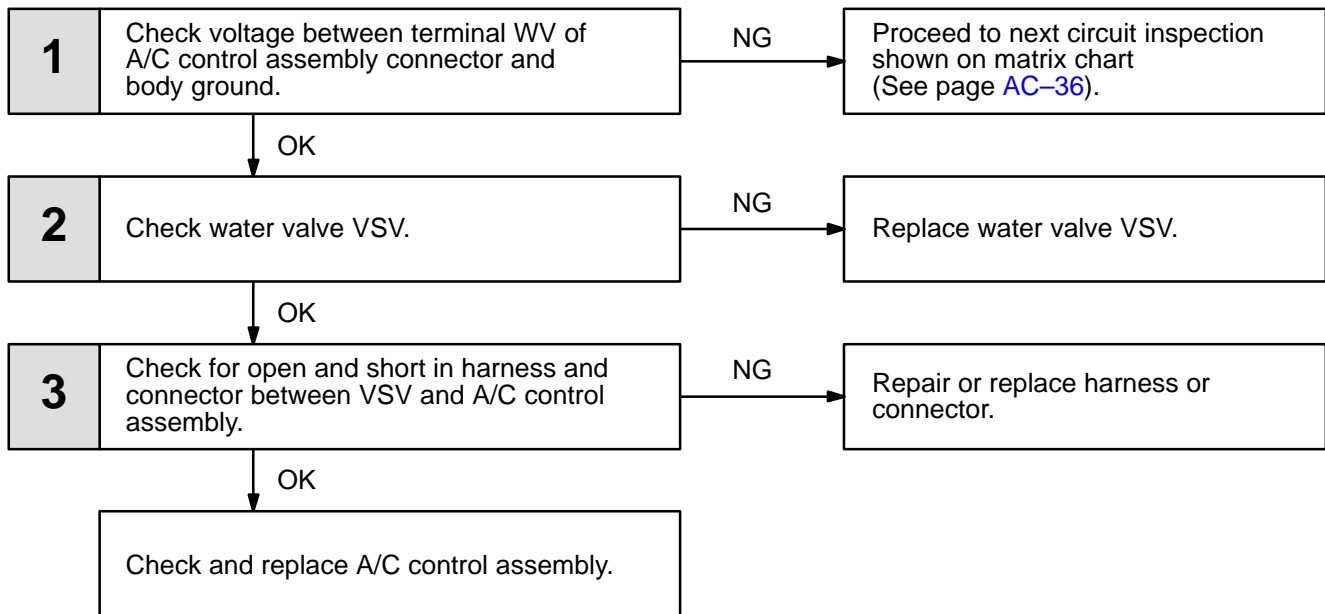
If the target air mix damper position is on the hot side beyond a predetermined level, the A/C control assembly turns ON Tr inside the A/C control assembly.

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

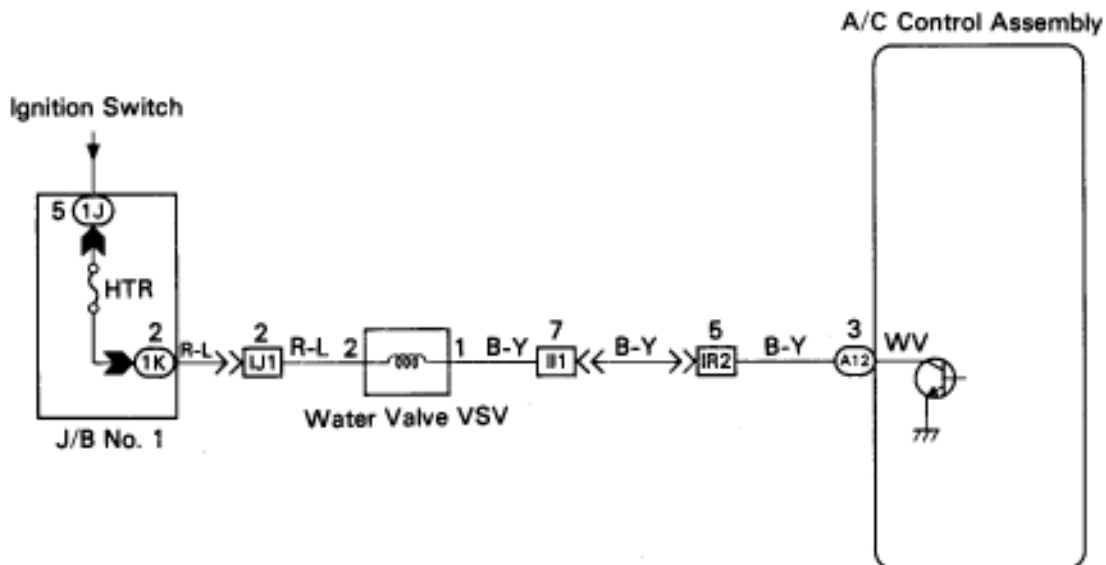
If the target air mix damper position is on the cool side beyond a predetermined level, the A/C control assembly turns OFF Tr inside the A/C control assembly.

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

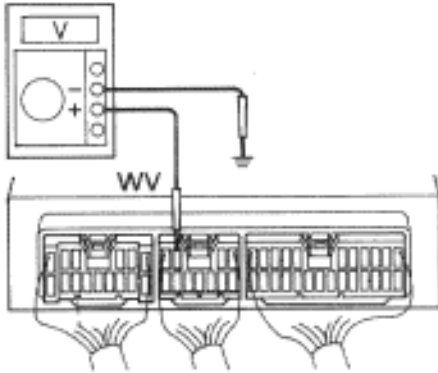
DIAGNOSTIC CHART



WIRING DIAGRAM



INSPECTION PROCEDURE

1**Check voltage between terminals WV of A/C control assembly connector and body ground.**

AC2878

NG**P**

1. Remove console upper panel (See page [BO-111](#))
2. Remove A/C control assembly with connectors still connected.
3. Start the engine.

C

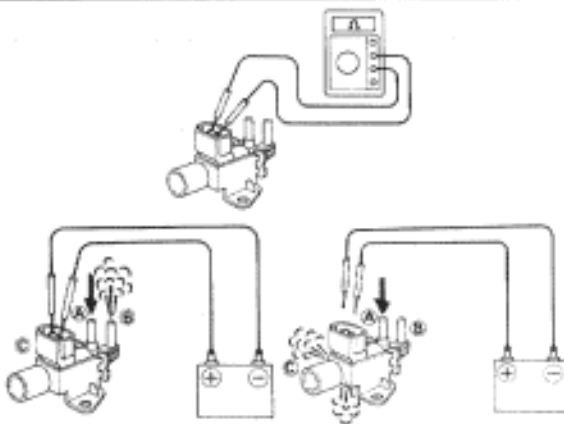
Measure voltage between terminal WV of A/C control assembly connector and body ground when the set temp. is set to MAX COLD and MAX HOT.

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 [AC-36](#)).

2**Check water valve VSV.**AC0877
AC0874 AC0875**OK****P**

Water valve VSV connector.

C

Measure resistance between terminals of VSV connector.

OK

Resistance: 37 — 44 at 20°C (68°F)

C

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

OK

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

NG

Replace water valve VSV.

3**Check for open and short in harness and connector between VSV and A/C control assembly (See page [IN-27](#)).****OK****NG**

Repair or replace harness or connector.

Check and replace A/C control assembly.