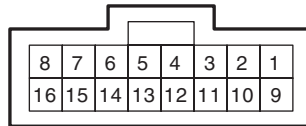


Auto A/C Control Module I/O Signal

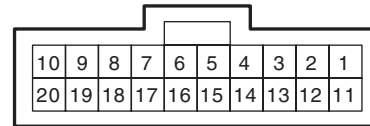
HVAC SYSTEM (AUTO A/C) (DIAGNOSTICS)

4. Auto A/C Control Module I/O Signal

A: ELECTRICAL SPECIFICATION



TO A: **B282**



TO B: **B283**

AC-00735

Auto A/C Control Module I/O Signal

HVAC SYSTEM (AUTO A/C) (DIAGNOSTICS)

Terminal No.	Remarks	Measuring condition	Standard
A1	Battery power supply	Ignition switch: OFF	Battery voltage
A2	ACC power supply	Ignition switch: ACC	Battery voltage
A3	Mode door actuator position signal	Mode door: FACE position	4 V
		Mode door: DEF position	1 V
A4	Passenger's side air mix door actuator position signal	Air mix door: Maximum cool position	4 V
		Air mix door: Maximum hot position	1 V
A5	In-vehicle sensor	Ignition switch: ON	5 V or less
A6	Sunload sensor	Ignition switch: ON, With Sunload (No sunload: 0 V)	3 V
A8	Sensor power supply	Ignition switch: ON	5 V
A9	Ignition power supply	Ignition switch: ON	Battery voltage
A10	A/C cut signal	Ignition switch: ON	Battery voltage
		When pressure SW is operating	0 V
A12	Driver's side air mix door actuator position signal	Air mix door: Maximum cool position	4 V
		Air mix door: Maximum hot position	1 V
A13	Evaporator sensor	Ignition switch: ON	5 V or less
A14, A16	Ground	Continuity to chassis ground	0 Ω
A15	Sensor ground	Continuity to chassis ground	0 Ω
B1, B11	Ambient sensor, engine coolant temperature sensor	—	*1
B2	Blower motor control	Ignition switch : ON, Blower switch : ON	0.45 V
B3	Blower motor control	Ignition switch : ON, Blower switch : ON	9.05 V
B4	RAM monitor	—	*1
B5	RAM monitor	—	*1
B6	A/C ON signal	A/C: ON (A/C OFF: 0 V)	7 — 14 V
B7	Mode door actuator power supply	When switching mode door from DEF → FACE	Battery voltage
B17		When switching mode door from FACE → DEF	Battery voltage
B8	Passenger's side air mix door actuator power supply	When switching air mix door from HOT → COOL	Battery voltage
B18		When switching air mix door from COOL → HOT	Battery voltage
B9	Driver's side air mix door actuator power supply	When switching air mix door from HOT → COOL	Battery voltage
B19		When switching air mix door from COOL → HOT	Battery voltage
B10	Intake door actuator	FRESH (RECIRC: Battery voltage)	0 V
B20		RECIRC (FRESH: Battery voltage)	0 V
B13	Blower fan ON signal	When blower fan is rotating (Not rotating: Battery voltage)	0 V
B14	RAM monitor	—	*1
B15, B16	Control panel	—	*1

*1: Unable to measure the voltage for digital signal.

B: WIRING DIAGRAM

1. AIR CONDITIONER AUTO A/C MODEL

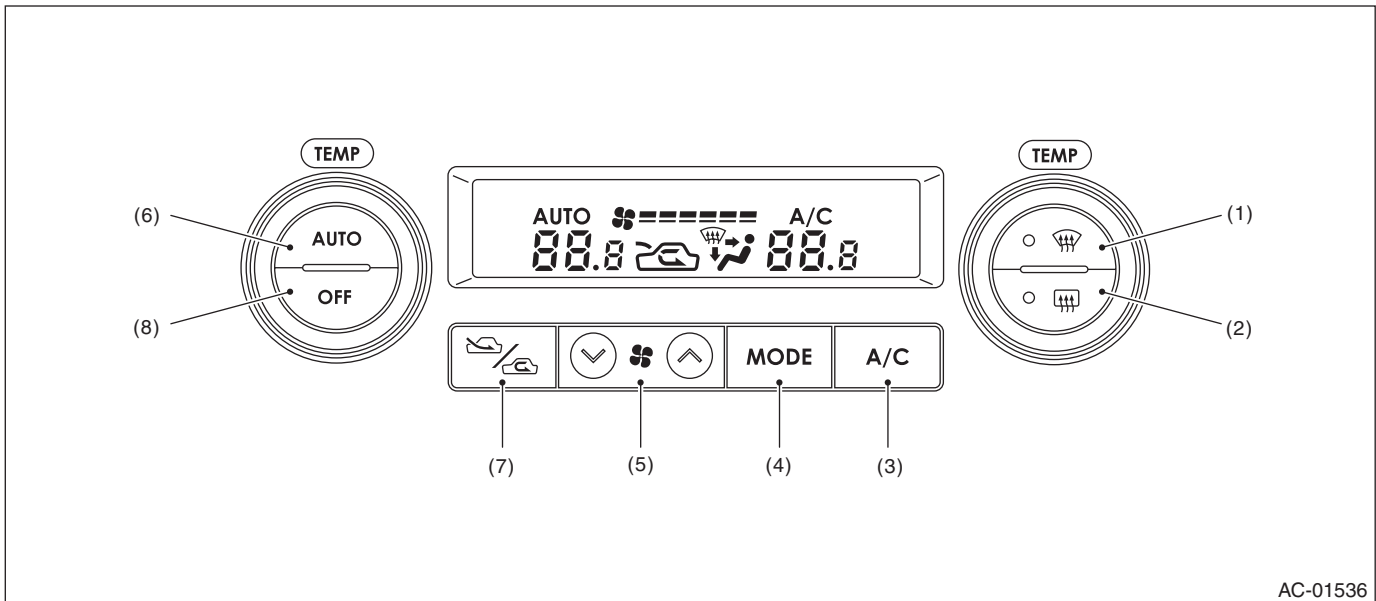
<Ref. to WI-112, WIRING DIAGRAM, Air Conditioning System.>

Diagnostic Chart for Self-diagnosis

HVAC SYSTEM (AUTO A/C) (DIAGNOSTICS)

5. Diagnostic Chart for Self-diagnosis

A: OPERATION



AC-01536

- | | | |
|---------------------------------|-----------------------------|-------------------------|
| (1) Front defroster switch | (4) Air flow control switch | (7) FRESH/RECIRC switch |
| (2) Rear window defogger switch | (5) FAN switch | (8) OFF switch |
| (3) A/C switch | (6) AUTO switch | |

NOTE:

For A/C system self-diagnosis, there is one that checks the control panel, and the other that checks the whole control system (sensor, actuator, blower motor, etc.). Perform the self-diagnosis for control panel first, and then perform the self-diagnosis for control system.