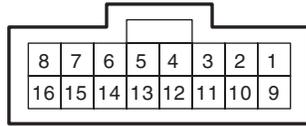


Auto A/C Control Module I/O Signal

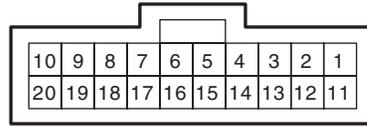
HVAC SYSTEM (AUTO A/C) (DIAGNOSTICS)

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

A: ELECTRICAL SPECIFICATION



To A: (B282)



To B: (B283)

AC-00735

Terminal No.	Remarks	Measuring conditions	Standard value
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	Less than 5 V
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
		Ignition switch: ON	Battery voltage
A10	A/C cut signal	Ignition switch: ON	Battery voltage
		When operating pressure SW	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 center	Ignition switch: ON	Less than 5 V
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, B17	Mode door actuator power supply	When switching mode door from DEF → FACE	Battery voltage
		When switching mode door from FACE → DEF	Battery voltage
B8, B18	Passenger's side air mix door actuator power supply	When switching air mix door from HOT → COOL	Battery voltage
		When switching air mix door from COOL → HOT	Battery voltage
B9, B19	Driver's side air mix door actuator power supply	When switching air mix door from HOT → COOL	Battery voltage
		When switching air mix door from COOL → HOT	Battery voltage

Auto A/C Control Module I/O Signal

HVAC SYSTEM (AUTO A/C) (DIAGNOSTICS)

Terminal No.	Remarks	Measuring conditions	Standard value
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-113, WIRING DIAGRAM, Air Conditioning System.>