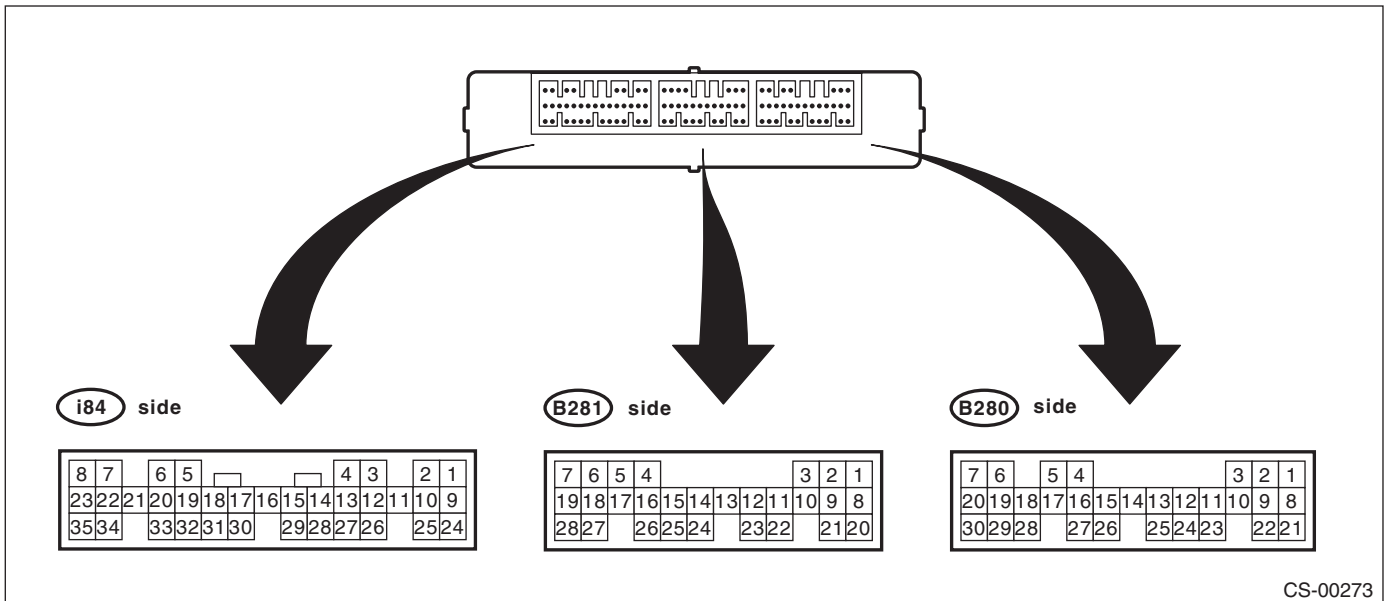


5. Control Module I/O Signal

A: ELECTRICAL SPECIFICATION



Contents	Connector No.	Terminal No.	Signal (V)	Note
			Ignition switch ON (engine OFF)	
System control power supply	B281	2	10 — 13 V	Always
Backup power supply	B280	7	10 — 13 V	When backup fuse is installed
Ignition power supply	i84	1	10 — 13 V	Ignition ON
ACC power supply	i84	24	10 — 13 V	ACC ON
Ground	i84	21	0 V	Always
	B281	9		
	B281	8		
	B280	22		
Key warning switch	B281	7	10 — 13 V	When ignition key inserted
Stop light switch	B281	23	10 — 13 V	When brake pedal depressed
Illumination control switch (Bright switch)	i84	30	10 — 13 V (at dimmer ON)	Cancel the extinction of the clock and audio illumination
Illumination volume (Vi1)	i84	10	4.5 — 5.5 V	Small light ON
Illumination volume (Vi2)	i84	2	0.5 — 4.5 V	Small light ON
Illumination volume (Vi3)	i84	25	0 V	Ground circuit
Illumination output	i84	5	Pulse signal	Small light ON
Front fog light SW input	B281	17	10 — 13 V	Front fog light ON
Door switch input Driver's seat	i84	19	Less than 1 V (10 — 13 V at OFF)	Driver's door open (ON)
Door switch input Passenger's seat	i84	32	Less than 1 V (10 — 13 V at OFF)	Passenger's door open (ON)
Door switch input Rear RH seat	i84	18	Less than 1 V (10 — 13 V at OFF)	Rear RH door open (ON)
Door switch input Rear LH seat	i84	31	Less than 1 V (10 — 13 V at OFF)	Rear LH door open (ON)

Control Module I/O Signal

LAN SYSTEM (DIAGNOSTICS)

Contents	Connector No.	Terminal No.	Signal (V)	Note
			Ignition switch ON (engine OFF)	
Door switch Trunk/Rear gate	i84	17	Less than 1 V (10 — 13 V at OFF)	Trunk/Rear gate open (ON)
Manual switch (LOCK)	i84	5	Less than 1 Ω	Door lock switch ON
Manual switch (UNLOCK)	i84	29	Less than 1 Ω	Door unlock switch ON
Door lock power supply	i84	34	10 — 13 V	Always
All door lock output	i84	7	10 — 13 V	Manual lock switch, door key switch ON
Driver's door UNLOCK output	i84	23	10 — 13 V	Driver's seat unlock signal ON
All door UNLOCK output	i84	8	10 — 13 V	ALL door unlock signals ON
Rear gate UNLOCK output	i84	22	10 — 13 V	When the rear gate release switch is ON with all seats unlocked
Key/shift lock power supply	B281	1	10 — 13 V	Always
Shift lock output	B280	6	10 — 13 V	Ignition switch ON, shift position "P" range, foot brake ON (Only AT)
Key locking output	B280	5	10 — 13 V	Except P range, ignition key is inserted, ignition switch ON (AT model)
Wiper de-icer switch	i84	14	Less than 1 Ω	Wiper de-icer switch ON
Wiper de-icer relay output	B280	14	1 V or less	Wiper de-icer relay ON
Rear defogger switch	i84	28	Less than 1 Ω	Rear defogger switch ON
Rear defogger relay output	B281	16	1 V or less	Rear defogger relay ON
Shift switch (ON)	B281	26	Less than 1 Ω	At Manual mode
Shift switch (UP)	B281	15	Less than 1 Ω	At Manual mode UP
Shift switch (DOWN)	B281	25	Less than 1 Ω	At Manual mode DOWN
P range switch	B281	13	Less than 1 Ω	Shift range P position
Impact sensor	B281	5	8 V or more (pulse signal is usually used)	Impact sensor ON (Model with impact sensor)
Fuel level sensor	B281	19	0 — 102.3 Ω	Resistance differs according to the fuel level (displays resistance combining level gauge main and sub)
Ambient sensor	B281	3	0.5 — 4.5 V	SIG
	B281	10	0 V	GND
Seat belt switch (driver's seat)	i84	4	Less than 1 Ω	When driver's seat belt is not worn
Seat belt switch (Passenger's seat)	i84	13	Less than 1 Ω	When passenger's seat belt is not worn
Seat belt warning light (driver's seat)	i84	20	Less than 1 Ω	When driver's seat belt is worn
Seat belt warning light (Passenger's seat)	B281	24	Less than 1 Ω	When passenger's seat belt is worn
Rear wiper switch (ON)	B281	6	Less than 1 Ω	Rear wiper switch ON
Rear wiper switch (INT)	B281	18	Less than 1 Ω	Rear wiper switch ON
Rear washer switch	B281	27	Less than 1 Ω	Rear washer switch ON

Control Module I/O Signal

LAN SYSTEM (DIAGNOSTICS)

Contents	Connector No.	Terminal No.	Signal (V)	Note
			Ignition switch ON (engine OFF)	
Rear wiper power supply	B280	21	10 — 13 V	Ignition switch ON
Rear wiper ON output	B280	1	10 — 13 V	Rear wiper switch ON
Rear wiper return	B280	8	10 — 13 V	At wiper reversing
		1 — 8	10 — 13 V	
Room light output	B280	3	1 V or less	When LOCK, UNLOCK with keyless entry
Key ring illumination output	B280	4	1 V or less	Ignition key removed, driver's door open
Turn hazard output	B280	12	1 V or less	When operating keyless entry answer back
Keyless Buzzer Output	i84	6	10 — 13 V	When operating keyless entry answer back
Security horn output	B280	11	1 V or less	When operating security horn
Security indicator light output	i84	33	Approx. 1 V	At ignition key removed, immobilizer operating
TPMS registration check signal input	B281	4	1 V or less	When inputting registration check signal
Keyless communication	i84	9	Serial communication	At keyless entry signal received
High speed CAN circuit	B280	20	Between B20 — B30 Serial communication	At communicating (sending and receiving)
High speed CAN circuit	B280	30		
Low-speed CAN circuit 1	i84	27	Between A26 — A27 Serial communication	At communicating (sending and receiving)
Low-speed CAN circuit 1	i84	26		
Low-speed CAN circuit 2	B280	26	Between B25 — B26 Serial communication	At communicating (sending and receiving) (Model with auto A/C)
Low-speed CAN circuit 2	B281	25		
Immobilizer antenna	B281	20 — 21	Serial communication	—
Immobilizer communication (Main)	B280	18 (Back-up 28)	Serial communication	—
Subaru Select Monitor communication	B280	19	Serial communication	—

B: WIRING DIAGRAM

<Ref. to WI-197, WIRING DIAGRAM, CAN Communication System.> <Ref. to WI-115, AUTO A/C MODEL, WIRING DIAGRAM, Air Conditioning System.>