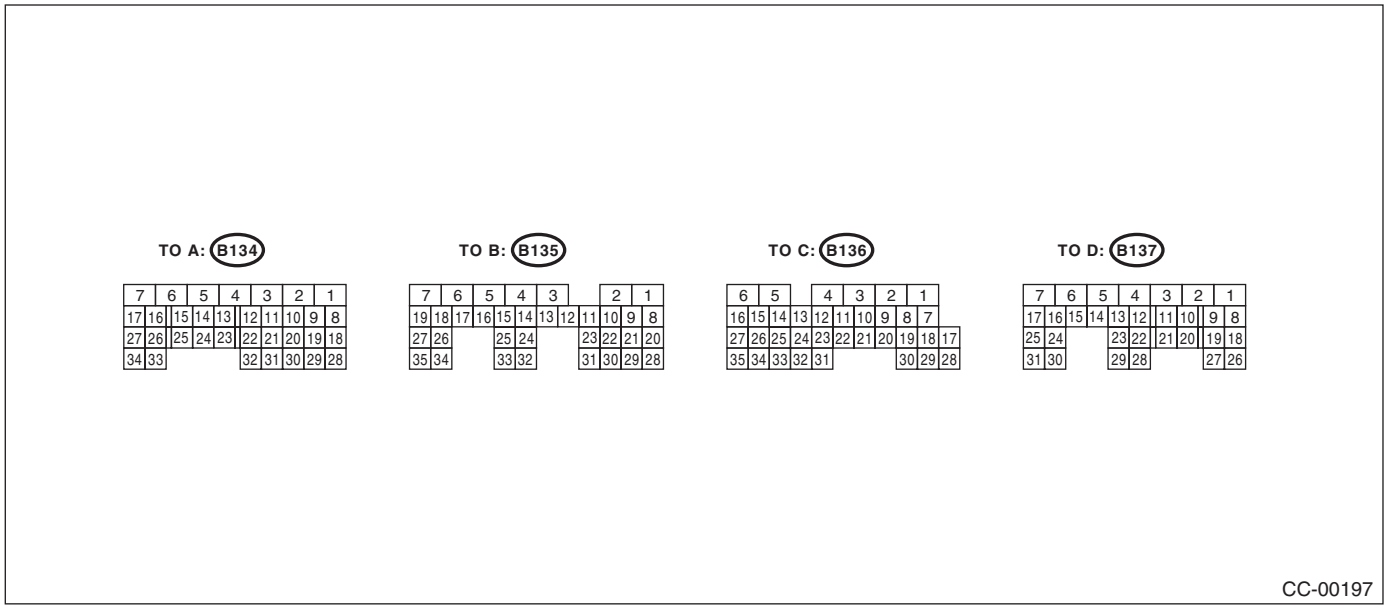
4. Engine Control Module (ECM) I/O Signal

A: ELECTRICAL SPECIFICATION



Contents		Terminal No.	Measurement condition and I/O signal (Idling with ignition ON: Except cruise set light)
Main power supply	VB (CONTROL 1) VB (CONTROL 2)	A7, B2	• Battery voltage is detected when the main power is turned ON. • “0 V” is detected when the main power is turned OFF.
Command switch		B24	• “0 V” is detected when the command switch is in CANCEL position. • “Approx. 1 V” is present when the command switch is in SET/ COAST position. • “Approx. 3 V” is detected when the command switch is in RESUME/ ACCEL position. • “Approx. 4 V” is detected when the command switch is released.
Brake switch 1(Brake switch)		B20	• Battery voltage is detected when the brake pedal is released. • “0 V” is present when brake pedal is depressed.
Brake switch 2(Stop light switch)		B28	• Battery voltage is present when brake pedal is depressed. • “0 V” is detected when the brake pedal is released.
Main switch		B12	• “0 V” is present while the main switch is pressed or turned on. • Approx. “5 V” is detected when the main switch is OFF.
Ground	GND (CONTROL 1) GND (CONTROL 2)	D2 D1	—
Ignition switch		B19	• Battery voltage is detected when the ignition switch is turned ON. • “0 V” is detected when the ignition switch is turned OFF.
Clutch switch(MT model)		C25	• “0 V ”is present when brake pedal is depressed. • Battery voltage is detected when the clutch pedal is released.
Neutral position switch (MT model)		C31	• Battery voltage is present when the shift lever is set in any position other than neutral. • “Approx. 0 V” is detected when the shift lever is in neutral position.
Neutral signal (AT model)		C31	• “Approx. 5 V” (4AT model) or battery voltage (5AT model) is detected when the shift lever is set in any position except “P” or “N”. • “0 V” is detected when the shift lever is in “P” or “N” position.

B: WIRING DIAGRAM

<Ref. to WI-191, WIRING DIAGRAM, Cruise Control System.>