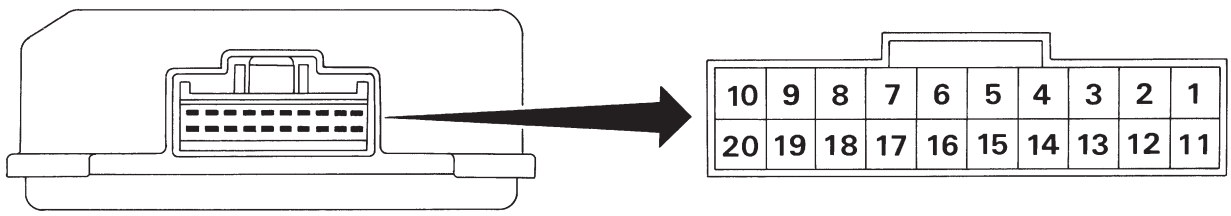
5. Control Module I/O Signal



G6M0015

Content	Terminal No.	Measuring conditions and I/O signals (ignition switch ON and engine idling)
Main power supply	2	● Battery voltage is present when main power is turned ON. ● “0” volt is present when main power is turned OFF.
Inhibitor switch (AT) (U.S.A.) N position switch (AT) (CANADA)	4	● “0” volt is present when selector lever is set to P or N position (CANADA: N position only). ● Battery voltage is present when selector lever is other than P or N position (CANADA: N position only).
Air valve	5	● “0” volt is present when vehicle is stopped. ● ON-and-OFF (“0”-and-battery voltage) operation is alternately repeated while cruise control is operating.
GND	6	—
Vacuum pump motor	7	● “0” volt is present when vehicle is stopped. ● ON-and-OFF (“0”-and-battery voltage) operation is alternately repeated while cruise control is operating.
Data link connector	8	—
RESUME/ACCEL switch	9	● Battery voltage is present when switch is turned ON. ● “0” volt is present when switch is turned OFF.
SET/COAST switch	10	● Battery voltage is present when switch is turned ON. ● “0” volt is present when switch is turned OFF.
Ignition switch	12	● Battery voltage is present when ignition switch is turned ON. ● “0” volt is present when ignition switch is turned OFF.
Release valve	13	● “0” volt is present when vehicle is stopped. ● ON-and-OFF (“0”-and-battery voltage) operation is alternately repeated while cruise control is operating.
Power supply to vacuum pump motor, air valve, release valve	14	● “0” volt is present when vehicle is stopped. ● Battery voltage is present while cruise control is operating.
Cruise main switch	15	● Battery voltage is present during pressing the main switch, and then approx. 12 V is present while switch is turned ON. ● “0” volt is present when switch is turned OFF.
Brake switch	16	Turn the cruise main switch to ON and leave clutch pedal released (MT). Then check that; ● “0” volt is present when brake pedal is depressed. ● Battery voltage is present when brake pedal is released. Additionally only in MT vehicle, keep the cruise main switch to ON and leave brake pedal released. Then check that; ● “0” volt is present when clutch pedal is depressed. ● Battery voltage is present when clutch pedal is released.
Data link connector	17	—
Data link connector	18	—
Vehicle speed sensor 2	19	Lift-up the vehicle until all four wheels are raised off ground, and then rotate any wheel manually. Approx. 5 and 0 volt pulse signals are alternately input to cruise control module.
Stop light switch	20	Turn ignition switch to OFF. Then check that; ● Battery voltage is present when brake pedal is depressed. ● “0” volt is present when brake pedal is released.

NOTE:
Voltage at terminals 5, 7, 13 and 14 cannot be checked unless vehicle is driving by cruise control operation.