

NEO ECU Connector Pinouts

View from back of connector with wire pointing towards the eye

Terminal No.	Description	Terminal No.	Description
1	Ignition signal (Power transistor drive signal) Cyl. No. 1	*34	*1" position switch signal
2	Ignition signal (Power transistor drive signal) Cyl. No. 5	*35	*2" position switch signal
3	Ignition signal (Power transistor drive signal) Cyl. No. 3	36	—
4	ECM & IGN coil relay control signal	37	Throttle opening signal [RB25DE-4WD-M/T, RB25DE-A/T, RB25DET]
5	Tachometer drive signal	*38	*D" position switch signal
6	—	39	Neutral signal (Park/neutral position switch)
7	Ignition signal (Power transistor drive signal) Cyl. No. 6	*40	*R" position switch signal
8	Ignition signal (Power transistor drive signal) Cyl. No. 2	*41	Full switch signal
9	Ignition signal (Power transistor drive signal) Cyl. No. 4	42	—
10	—	43	Sensor ground
11	AAC valve control signal	44	Crankshaft position sensor 120° (REF) signal
12	—	45	Crankshaft position sensor 120° (REF) signal
13	Fuel pump relay control signal	46	Crankshaft position sensor 1° (POS) signal
14	Air conditioner relay control signal	47	Ring gear crankshaft position sensor signal [RB20DE (L/B)] Turbo pressure sensor signal [RB25DET]
15	—	48	Power supply for throttle position sensor, refrigerant pressure sensor, and turbo pressure sensor
16	—	49	Rear defogger switch signal
17	Malfunction indicator lamp	50	Heated oxygen sensor signal
18	—	51	Throttle motor sensor signal [RB25DET]
19	—	52	SB (select bit) 2 signal [RB25DET-A/T]
20	Ignition switch (START) signal	53	Motor throttle switch signal [RB25DET]
21	Air conditioner switch signal	54	Mass air flow sensor signal
22 (CHK)	Check (Diagnosis start)	55	Mass air flow sensor ground
23	Throttle position sensor signal	56	Engine coolant temperature sensor signal
24 (IGN)	Ignition switch (IGN) signal	57	Refrigerant pressure sensor signal
25	Control unit ground	*58	Output shaft rotation sensor signal (Vehicle speed sensor 1)
26	Power steering oil pressure switch signal	59	Turbine sensor signal [RB25DET-A/T]
27	—	*60	Oil temperature sensor signal
28	SB (select bit) 1 signal [RB25DET-A/T]	61	—
29	Vehicle speed sensor signal (Vehicle speed sensor 2)	62	Knock sensor signal 1
30	Headlamp switch signal	63	Knock sensor signal 2
31	Ignition power supply	64	A/T mode switch signal (POWER) [RB20DE (L/B) A/T]
32	Control unit ground	65	DB (data bush) 1 signal [RB25DET-A/T]
*33	Idle position switch signal	66	DB (data bush) 3 signal [RB25DET-A/T]

Symbols in () next to terminal numbers indicate the data link connector terminals. Items marked with * are available on RB20DE (L/B) and RB25DET A/T models only.

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Terminal No.	Description	Terminal No.	Description
67	Control unit power supply	74	—
*68	O/D OFF indicator lamp	75 (RX)	Receive (Data input to control unit)
69	DB (data bush) 2 signal [RB25DET-A/T]	76 (TX)	Transmit (Data output from control unit)
70	A/T mode switch signal (SNOW) [RB20DE (L/B)-A/T]	77	—
*71	Stop lamp switch signal	78	Auxiliary electric fan relay control signal [RB25DE, RB25DET]
72	Control unit power	79	ECM-TCM, TCS/ABS integrated control signal [Multiplex communication] [RB25DE-A/T, RB25DET]
73	—	80	Battery power supply
101	Injector No. 1 cylinder drive signal	*113	Line pressure solenoid valve control signal (Dropping resistor circuit)
102	—	114	Injector No. 4 cylinder drive signal
103	Injector No. 3 cylinder drive signal	*115	Overrun clutch solenoid valve control signal
104	Variable air intake control solenoid valve control signal [RB20DE (L/B), BR25DE] Turbo pressure control solenoid valve control signal [RB25DET]	116	Injector ground
105	Injector No. 2 cylinder drive signal	117	Variable timing control solenoid valve control signal
*106	Line pressure solenoid valve control signal	118	Heated oxygen sensor heater control signal
107	Air jet swirl control solenoid valve control signal [RB20DE (L/B)]	*119	Power indicator lamp
108	Canister purge control valve control signal	*120	Lockup solenoid valve control signal
109	Control unit power supply (Counter-electromotive current feedback circuit)	*121	Shift solenoid valve A control signal
110	Injector No. 5 cylinder drive signal	*122	Shift solenoid valve B control signal
111	Fuel pump terminal voltage control output signal [RB25DET]	123	—
112	Injector No. 6 cylinder drive signal	124	Injector ground

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