



CHECK AT THE POWERTRAIN CONTROL MODULE (PCM) TERMINAL VOLTAGE CHECK CHART

PCM Connector Terminal Arrangement

1	2	3	4		5	6	7	8	41	42	43		44	45	46	71	72	73	74		75	76	77	101	102	103	104		105	106	107																			
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	47	48	49	50	51	52	53	54	55	56	57	78	79	80	81	82	83	84	85	86	87	88	89	108	109	110	111	112	113	114	115	116	117	118	119	120
24	25	26	27	28	29	30	31	32	33	34	35	58	59	60	61	62	63	64	65	66	90	91	92	93	94	95	96	97	98	121	122	123	124	125	126	127	128	129	130											

AKX01368AB

TERMINAL NO.	INSPECTION ITEM	INSPECTION CONDITION (ENGINE CONDITION)	NORMAL CONDITION
1	No.1 injector	Engine: warming up, idling Suddenly depress the accelerator pedal	From 11 - 14 V momentarily drops slightly
9	No.2 injector		
24	No.3 injector		
2	No.4 injector		
3	Heated oxygen sensor heater (front)	Engine: warming up, idling	9 - 11 V
		Engine: Revving	9 - 11 V ► B+ (momentarily)
6	EGR solenoid	Ignition switch: "ON"	B+
		Engine: idling Suddenly depress the accelerator pedal.	From B+ , momentarily drops
8	Generator G terminal	Engine: warming up, idling (radiator fan: stopped) Headlight: OFF to ON Rear defogger switch: OFF to ON Stoplight switch: OFF to ON	Voltage rises by 0.2 - 3.5 V
11	Ignition coil - No.1, No.4 (Ignition power transistor)	Engine: 3,000 r/min	0.3 - 3.0 V
12	Ignition coil - No.2, No.3 (Ignition power transistor)		
14	Stepper motor coil <A1>	Engine: warming up, idling A/C switch: OFF ► ON Headlight switch: OFF ► ON	B+ <=> 1 V or less (changes repeatedly)
28	Stepper motor coil <A2>		
15	Stepper motor coil <B1>		
29	Stepper motor coil <B2>		
18	Fan controller	Radiator fan and condenser fan are not operating	0 - 0.3V
		Radiator fan and condenser fan are operating	0.7 V or more
19	Volume air flow sensor reset signal	Engine: idling	0 - 1 V
		Engine: 3,000 r/min	6 - 9 V
20	A/C compressor clutch relay	Engine: idling A/C switch: OFF ► ON (A/C compressor is operating)	B+ 1 V or less as A/C clutch cycles
21	Fuel pump relay	Ignition switch: "ON"	B+
		Engine: idling	1 V or less
22	Malfunction Indicator Lamp (SERVICE)	Ignition switch: "LOCK" (OFF) ► "ON"	1 V or less ► 9 - 13 V (after several seconds)

	ENGINE SOON)		have elapsed)
26	Heated oxygen sensor heater (rear)	Engine: warming up, idling	1 V or less
		Engine: Revving	B+
34	Evaporative emission purge solenoid	Ignition switch: "ON"	B+
		Engine: warm up, 3,000 r/min	3 - 13 V
35	Evaporative emission ventilation solenoid	Ignition switch: "ON"	B+
		Carry out the Actuator test to drive the solenoid valve	For approximately Six seconds 1 V or less
41	Power supply	Ignition switch: "ON"	B+
47			
43	Tachometer signal	Engine: 3,000 r/min	0.3 - 3.0 V
44	Engine coolant temperature sensor	Ignition switch: "ON"	When engine coolant temperature is -20°C (-4°F) 3.9 - 4.5 V
			When engine coolant temperature is 0°C (32°F) 3.2 - 3.8 V
			When engine coolant temperature is 20°C (68°F) 2.3 - 2.9 V
			When engine coolant temperature is 40°C (104°F) 1.3 - 1.9 V
			When engine coolant temperature is 60°C (140°F) 0.7 - 1.3 V
			When engine coolant temperature is 80°C (176°F) 0.3 - 0.9 V
45	Crankshaft position sensor	Engine: cranking	0.4 - 4.0 V
		Engine: idling	1.5 - 2.5 V
46	Sensor supplied voltage	Ignition switch: "ON"	4.5 - 5.5 V
49	MFI relay (power supply)	Ignition switch: "OFF"	B+
		Ignition switch: "ON"	1V or less
51	Fuel temperature sensor	Ignition switch: "ON"	When fuel temperature is 0°C (32°F) 2.7 - 3.1 V
			When fuel temperature is 20°C (68°F) 2.1 - 2.5 V
			When fuel temperature is 40°C (104°F) 1.6 - 2.0 V
			When fuel temperature is 80°C (176°F) 0.8 - 1.2 V
52	Power steering pressure switch	Engine: warming up, idling	When steering wheel is stationary B+
			When steering wheel is turned 1V or less
54	Generator FR terminal	Engine: warming up, idling (radiator fan: stopped) Headlight: OFF to ON	Voltage drops
		Rear defogger switch: OFF to ON Stop light switch: OFF to ON	
55	Barometric pressure sensor	Ignition switch: "ON"	When altitude is 0 m (0 ft) 3.7 - 4.3 V
			When altitude is 600 m (1,969 ft) 3.4 - 4.0 V
			When altitude is 1,200 m (3,937 ft) 3.2 - 3.8 V
			When altitude is 1,800 m (5,906 ft) 2.9 - 3.5 V
56	Camshaft position sensor	Engine: cranking	0.4 - 3.0 V
		Engine: idling	1.5 - 3.0 V
58	Ignition switch-ST	Engine: cranking	8 V or more
61	A/C switch 2	Engine: idling	when A/C is MAX. COOL 1 V or less

		Outside air temperature: 25°C or more	condition (when the load by A/C is high)	
			when A/C is MAX. HOT condition (when the load by A/C is low)	B+
64	Intake air temperature sensor	Ignition switch: "ON"	When Intake air temperature is -20°C (-4°F)	3.8 - 4.4 V
			When Intake air temperature is 0°C (32°F)	3.2 - 3.8 V
			When Intake air temperature is 20°C (68°F)	2.3 - 2.9 V
			When Intake air temperature is 40°C (104°F)	1.5 - 2.1 V
			When Intake air temperature is 60°C (140°F)	0.8 - 1.4 V
			When Intake air temperature is 80°C (176°F)	0.4 - 1.0 V
65	Volume air flow sensor	Engine: idling		2.2 - 3.2 V
		Engine: 2,500 r/min		
66	Backup power supply	Ignition switch: "LOCK" (OFF)		B+
71	Heated oxygen sensor (front)	Engine: warming, 2,500 r/min (check using a digital type voltmeter)		0 <=> 0.8 V (changes repeatedly)
73	Heated oxygen sensor (rear)	Engine: warming up Revving		0 and 0.6 - 1.0 V alternates
78	Throttle position sensor	Ignition switch: "ON" (check for smooth voltage increase as throttle is moved from idle position to wide open throttle)	Idle	0.535 - 0.735 V
			Wide open throttle	4.5 - 5.5 V
79	Idle position signal	Ignition switch: "ON"	Set throttle valve to idle position	0 - 1 V
			Open throttle slightly	4 V or more
83	A/C switch	Engine: idling	Turn the A/C switch OFF	1 V or less
			Turn the A/C switch ON (A/C compressor is operating)	B+
91	Manifold differential pressure sensor	Engine: idling		0.8 - 2.4 V
		Engine: idling Suddenly depress the accelerator pedal		Rises from 0.8 - 2.4 V suddenly
92	Fuel tank differential pressure sensor	Engine: idling		1.2 - 3.8 V
98	Ignition switch-IG	Ignition switch: "ON"		B+