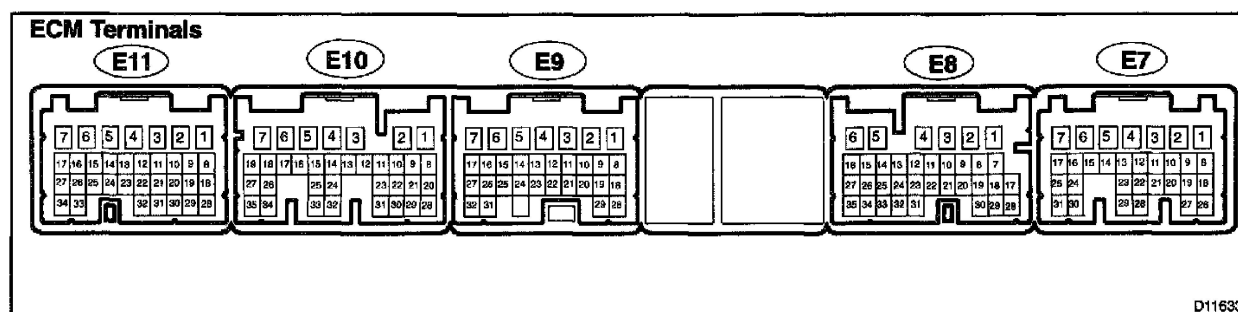


Engine Control Module: Connector Views



Symbols (Terminal No.)	Wiring Color	Condition	STD Voltage (V)
VG (E10-24) – E2G (E10-32)	G–Y – L–W	Idling P or N position, A/C switch OFF	0.5 – 3.0
THA (E11-20) – E2 (E11-28)	L–B – BR	Idling Intake air temp. 20°C (68°F)	0.5 – 3.4
THW (E11-19) – E2 (E11-28)	G–Y – BR	Idling Engine coolant temp. 80°C (176°F)	0.2 – 1.0
VTA (E11-21) – E2 (E11-28)	L – BR	IG switch ON Accelerator pedal fully closed	0.4 – 1.0
		IG switch ON Accelerator pedal fully open	3.2 – 4.8
VTA2 (E11-31) – E2 (E11-28)	B–R – BR	IG switch ON Accelerator pedal fully closed	2.0 – 2.9
		IG switch ON Accelerator pedal fully open	4.6 – 5.1
AF1A+ (E10-23) – E1 (E9-1)	O – BR	Always (IG switch ON)	3.3 fixed*1
AF1A– (E10-31) – E1 (E9-1)	W – BR	Always (IG switch ON)	3.0 fixed*1
OX1B (E8-4) – E1 (E9-1)	B – BR	Maintain engine speed at 2,500 rpm for 3 min. after warming up	Pulse generation
HT1B (E8-4) – E1 (E9-1)	P–B – BR	Idling	Below 3.0
HTF1A (E10-4) – E04 (E10-7)	B–R – W–B	IG switch ON	9 – 14
#10 (E11-1) – E01 (E11-7)	L – W–B	IG switch ON	9 – 14
#20 (E11-2) – E01 (E11-7)	R – W–B	Idling	Pulse generation
#30 (E11-3) – E01 (E11-7)	Y – W–B		
#40 (E11-4) – E01 (E11-7)	W – W–B		
KNK1 (E10-1) – E1 (E9-1)	W – BR	Idling	Pulse generation
G22+ (E11-26) – NE– (E11-34)	B–W – G	Idling	Pulse generation
NE+ (E11-27) – NE– (E11-34)	R – G		
VC (E11-18) – E2 (E11-28)	Y – BR	IG switch ON	4.5 – 5.5
PTNK (E7-21) – E2 (E11-28)	L–R – BR	IG switch ON Disconnect hose from vapor pressure sensor	2.9 – 3.7
		Apply vacuum (less than 66.7 kPa (500 mmHg, 19.7 in.Hg))	Below 0.5
EVP1 (E10-11) – E1 (E9-1)	B–R – BR	IG switch ON	9 – 14
CCV (E10-12) – E1 (E9-1)	G – BR	IG switch ON	9 – 14
TBP (E7-4) – E1 (E9-1)	W–R – BR	IG switch ON	9 – 14
SPD (E8-17) – E1 (E9-1)	V–W – BR	IG switch ON Rotate driving wheel slowly	Pulse generation
VPA (E7-23) – EPA (E7-28)	G–B – Y–B	IG switch ON Accelerator pedal fully closed	0.5 – 1.1
		IG switch ON Accelerator pedal fully open	3.0 – 4.6
VPA2 (E7-29) – EPA2 (E7-29)	GR–B – LG–B	IG switch ON Accelerator pedal fully closed	0.9 – 2.3
		IG switch ON Accelerator pedal fully open	3.4 – 5.0
VCPA (E7-26) – EPA (E7-28)	R–B – Y–B	IG switch ON	4.5 – 5.5
VCP2 (E7-27) – EPA2 (E7-29)	L–B – LG–B	IG switch ON	4.5 – 5.5

*1: The ECM terminal voltage is fixed regardless of the output voltage from the sensor.

*2: Only for A/T

M+ (E9-5) – E01 (E11-7)	B – W-B	Idling	Pulse generation
M- (E9-4) – E01 (E11-7)	W – W-B		
+BM (E7-2) – E1 (E9-1)	R-L – BR	Always	9 – 14
IGT1 (E11-8) – E1 (E9-1)	R-W – BR	Idling	Pulse generation
IGT2 (E11-9) – E1 (E9-1)	P – BR		
IGT3 (E11-10) – E1 (E9-1)	LG-B – BR		
IGT4 (E11-11) – E1 (E9-1)	L-Y – BR		
IGF (E11-23) – E1 (E9-1)	W-R – BR	IG switch ON	4.5 – 5.5
		Idling	Pulse generation
OCV+ (E9-16) – OCV- (E9-15)	B-W – Y	IG switch ON	Pulse generation
STP (E8-19) – E1 (E9-1)	G-W – BR	IG switch ON Brake pedal depressed	7.5 – 14
NSW (E10-8) – E1 (E9-1)*1	B-W – BR	IG switch ON Shift position in P or N position	0 – 3
BATT (E7-3) – E1 (E9-1)	B-Y – BR	Always	9 – 14
IGSW (E7-9) – E1 (E9-1)	B-R – BR	IG switch ON	9 – 14
+B (E7-1) – E1 (E9-1)	R – BR	IG switch ON	9 – 14
MREL (E7-8) – E1 (E9-1)	B-R – BR	IG switch ON	9 – 14
STA (E10-9) – E1 (E9-1)	GR – BR	Cranking	6.0 or more
FC (E7-10) – E01 (E11-7)	G-R – W-B	IG switch ON	9 – 14
LOCKI (E11-23) – E1 (E9-1)	W-L – BR	A/C compressor is operating	Pulse generation
THR (E8-3) – E2 (E11-28)	L-W – BR	IG switch ON A/C evaporator temp. 0°C (32°F)	2.2 – 2.6
		IG switch ON A/C evaporator temp. 15°C (59°F)	1.4 – 1.8
TC (E7-11) – E1 (E9-1)	P-B – BR	IG switch ON	9 – 14
W (E7-18) – E1 (E9-1)	G-R – BR	Idling	9 – 14
		IG switch ON	Below 3.0
A/CI (E8-33) – E1 (E9-1)	R-W – BR	A/C indicator light lights up	Below 4.0
		A/C indicator light does not light up	9 – 14
A/CS (E8-31) – E1 (E9-1)	R-B – BR	A/C switch ON	9 – 14
		A/C switch OFF	Below 1.0
ACMG (E9-2) – E01 (E11-7)	L-Y – BR	A/C magnetic clutch ON	Below 1.0
ELS (E7-12) – E1 (E9-1)	G-O – BR	Defogger switch and taillight switch OFF	Below 1.5
PS (E9-10) – E1 (E9-1)	R-W – BR	IG switch ON	9 – 14
		At idling Turn steering wheel to lock position	Below 3.0
SIL (E7-11) – E1 (E9-1)	W – BR	During transmission	Pulse generation
TACH (E7-5) – E1 (E9-1)	B-O – BR	Idling	Pulse generation
KSW (E8-34) – E1 (E9-1)	L-B – BR	At time of inserting key	Below 1.5
		In condition without key inserted	Pulse generation
RXCK (E8-27) – E1 (E9-1)	R-L – BR	At time of inserting key	Pulse generation
CODE (E8-15) – E1 (E9-1)	G-W – BR	At time of inserting key	Pulse generation
TXCT (E8-26) – E1 (E9-1)	L-Y – BR	At time of inserting key	Pulse generation
IMLD (E8-16) – E1 (E9-1)	R-Y – BR	In condition without key inserted	Pulse generation

*1: The ECM terminal voltage is fixed regardless of the output voltage from the sensor.

*2: Only for A/T

Pinouts Part 2