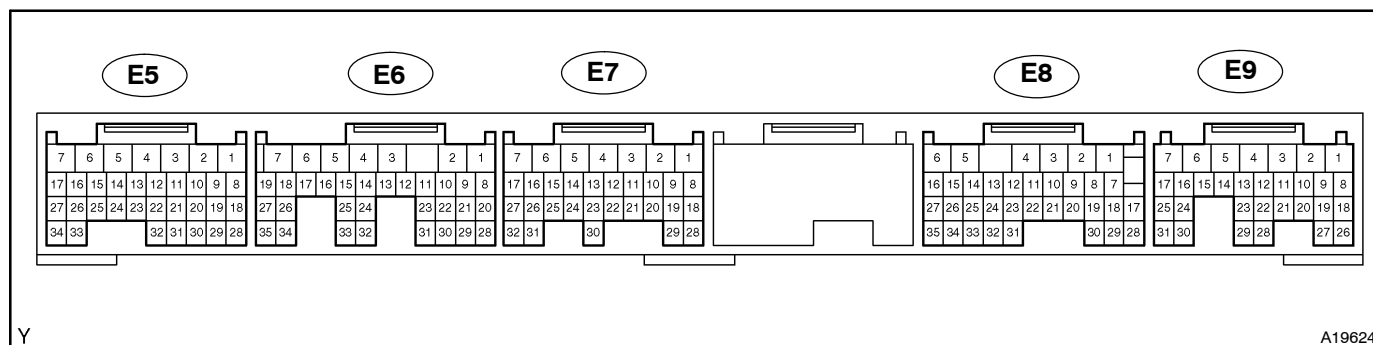


TERMINALS OF ECM



Each ECM terminals standard normal voltage is shown in the table below. In the table, first follow the information under "Condition".

Look under "Symbols (Terminals No.)" for the terminals to be inspected.

The standard normal voltage between the terminals is shown under "STD Voltage".

Use the illustration above as a reference for the ECM terminals.

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage
BATT (E9-3) – E1 (E7-1)	B-R – BR	Always	9 to 14 V
+BM (E8-6) – E1 (E7-1)	Y-B – BR		
IGSW (E9-9) – E1 (E7-1)	B-R – BR	IG switch ON	9 to 14 V
+B (E9-1) – E1 (E7-1)	B-Y – BR		
MREL (E9-8) – E1 (E7-1)	B-W – BR	IG switch ON	9 to 14 V
VC (E5-18) – E2 (E5-28)	L-R – BR-W	IG switch ON	4.5 to 5.5 V
VG (E5-30) – E2G (E5-29)	L-Y – G-W	Idling, P or N position, A/C switch OFF	0.5 to 3.0 V
THA (E5-20) – E2 (E5-28)	Y-B – BR-W	Idling, Intake air temp. 20°C (68°F)	0.5 to 3.4 V
THW (E5-19) – E2 (E5-28)	G-B – BR-W	Idling, Engine coolant temp. 80°C (176°F)	0.2 to 1.0 V
VTA1 (E5-21) – E2 (E5-28)	R-Y – BR-W	IG switch ON, Accelerator pedal released	0.5 to 1.2 V
		IG switch ON, Accelerator pedal depressed	3.2 to 4.8 V
VTA2 (E5-31) – E2 (E5-28)	Y-B – BR-W	IG switch ON, Accelerator pedal released	2.0 to 3.1 V
		IG switch ON, Accelerator pedal depressed	4.7 to 5.1 V
VPA (E9-22) – E2 (E5-28)	R – BR-W	IG switch ON, Accelerator pedal released	0.3 to 0.9 V
		IG switch ON, Accelerator pedal depressed	3.2 to 4.8 V
VPA2 (E9-23) – E2 (E5-28)	R-B – BR-W	IG switch ON, Accelerator pedal released	1.8 to 2.7 V
		IG switch ON, Accelerator pedal depressed	4.7 to 5.1 V
VCPA (E9-26) – EPA (E9-28)	L-R – BR-W	IG switch ON	4.5 to 5.5 V
VCP2 (E9-27) – EPA2 (E9-29)	W – W-R	IG switch ON	4.5 to 5.5 V
OX1A (E6-23) – E1 (E7-1)	B – BR	Maintain engine speed at 2,500 rpm for 2 minutes after warming up	Pulse generation (See page DI-221)
OX1B (E6-29) – E1 (E7-1)	B – BR		
OX2A (E6-22) – E1 (E7-1)	W – BR	Maintain engine speed at 2,500 rpm for 2 minutes after warming up	Pulse generation (See page DI-221)
OX2B (E6-21) – E1 (E7-1)	W – BR		
HT1A (E6-4) – E1 (E7-1)	R – BR	Idling	Below 3.0 V
HT1B (E6-5) – E1 (E7-1)	L – BR		
HT2A (E6-33) – E1 (E7-1)	Y – BR	IG switch ON	9 to 14 V
HT2B (E6-25) – E1 (E7-1)	R – B – BR		

#1 (E5-1) – E01 (E5-7) #2 (E5-2) – E01 (E5-7) #3 (E5-3) – E01 (E5-7) #4 (E5-4) – E01 (E5-7) #5 (E5-5) – E01 (E5-7) #6 (E6-3) – E01 (E5-7) #7 (E7-6) – E01 (E5-7) #8 (E7-5) – E01 (E5-7)	Y – W-B B – W-B L – W-B R – W-B G – W-B R-L – W-B W – W-B B-W – W-B	IG switch ON	9 to 14 V
KNK1 (E6-1) – E1 (E7-1) KNK2 (E6-2) – E1 (E7-1) G2+ (E7-27) – G2- (E7-32) NE+ (E7-25) – NE- (E7-24)	B – BR W – BR R – G L – G	Idling Maintain engine speed at 4,000 rpm after warming up Idling	Pulse generation (See page DI-173) Pulse generation (See page DI-192) Pulse generation (See page DI-197)
PRG (E5-34) – E1 (E7-1) CCV (E5-27) – E1 (E7-1) TBP (E9-4) – E1 (E7-1)	L-B – BR L-R – BR L – BR	IG switch ON IG switch ON IG switch ON, disconnect vacuum hose from VSV for pressure switching valve	9 to 14 V 9 to 14 V 9 to 14 V
PTNK (E9-21) – E2 (E5-28)	L-B – BR-W	Ignition switch ON Apply vacuum 4.0 kPa (30 mmHg, 1.18 in.Hg)	2.9 to 3.7 V Below 0.5 V
SPD (E8-17) – E1 (E7-1) M+ (E7-3) – E1 (E7-1) M- (E7-2) – E1 (E7-1)	V – BR R – BR W – BR	IG switch ON, Rotate driving wheel slowly Idling	Pulse generation (See page DI-280) Pulse generation (See page DI-310)
FPR (E5-33) – E1 (E7-1) FC (E9-10) – E1 (E7-1)	G-W – BR B-W – BR	IG switch ON IG switch ON	0 to 3.0 V 9 to 14 V
IGT1 (E5-9) – E1 (E7-1) IGT2 (E5-8) – E1 (E7-1) IGT3 (E5-25) – E1 (E7-1) IGT4 (E5-11) – E1 (E7-1) IGT5 (E5-12) – E1 (E7-1) IGT6 (E5-26) – E1 (E7-1) IGT7 (E5-13) – E1 (E7-1) IGT8 (E5-10) – E1 (E7-1)	B – BR R – BR L – BR G – BR Y – BR B-Y – BR B-L – BR L-B – BR	Idling	Pulse generation (See page DI-208)
IGF1 (E5-24) – E1 (E7-1) IGF2 (E5-23) – E1 (E7-1)	B-W – BR B-R – BR	IG switch ON Idling	4.5 to 5.5 V Pulse generation (See page DI-208)
STP (E8-19) – E1 (E7-1)	G-W – BR	Brake pedal is depressed Brake pedal is released	7.5 to 14 V Below 1.5 V
ST1- (E8-12) – E1 (E7-1)	R-G – BR	Brake pedal is depressed Brake pedal is released	Below 1.5 V 7.5 to 14 V
STA (E5-17) – E1 (E7-1) STSW (E7-12) – E1 (E7-1) ACCR (E5-15) – E1 (E7-1) STAR (E6-9) – E1 (E7-1)	B-R – BR B-W – BR R-G – BR B-W – BR	Shift lever range P or N, Ignition switch START Shift lever range P or N, ignition switch START Shift lever range P or N, ignition switch START Shift lever range P or N, ignition switch START	6.0 V or more 6.0 V or more 9 to 14 V 9 to 14 V
NSW (E5-16) – E1 (E7-1)	B-W – BR	IG switch ON, Other shift position in P, N IG switch ON, Shift position in P, N	9 to 14 V 0 to 3.0 V
W (E9-11) – E1 (E7-1)	W – BR	Idling IG switch ON	9 to 14 V Below 3.0 V
SIL (E9-18) – E1 (E7-1) TACH (E9-5) – E1 (E7-1)	V-W – BR B – BR	During transmission Idling	Pulse generation Pulse generation