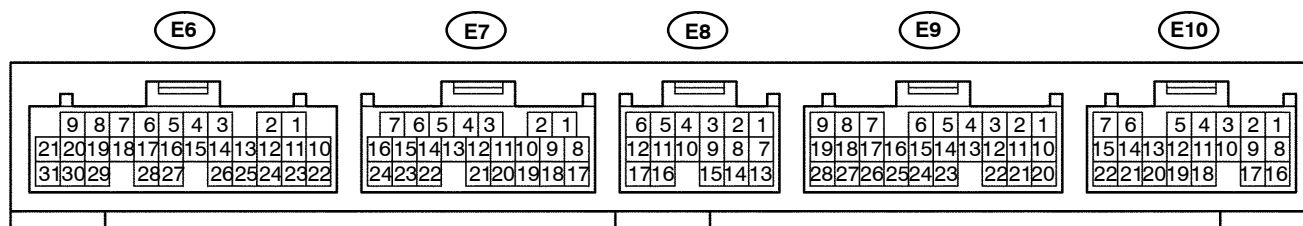


# TERMINALS OF ECM

## ECM Terminals



A02508

A04997

Symbols (Terminal No.)	Wiring Color	Condition	STD Voltage (V)
BATT (E10-1) - E1 (E7-17)	B-R ↔ BR	Always	9 ~ 14
+BM (E10-7) - E1 (E7-17)	Y-B ↔ BR		
IGSW (E10-9) - E1 (E7-17)	B-R ↔ BR	IG switch ON	9 ~ 14
+B (E10-16) - E1 (E7-17)	B-Y ↔ BR		
+B1 (E10-8) - E1 (E7-17)	B-Y ↔ BR		
MREL (E10-10) - E1 (E7-17)	B ↔ BR	IG switch ON	9 ~ 14
VC (E7-2) - E2 (E7-18)	L-R ↔ BR-W	IG switch ON	4.5 ~ 5.5
VG (E7-10) - EVG (E7-19)	L-Y ↔ G-W	Idling, P or N position, A/C switch OFF	0.5 ~ 3.0
THA (E7-22) - E2 (E7-18)	Y-B ↔ BR-W	Idling, Intake air temp. 20°C (68°F)	0.5 ~ 3.4
THW (E7-14) - E2 (E7-18)	G-B ↔ BR-W	Idling, Engine coolant temp. 80°C (176°F)	0.2 ~ 1.0
VTA (E7-13) - E2 (E7-18)	Y ↔ BR-W	IG switch ON Accelerator pedal released	0.4 ~ 1.0
		IG switch ON Accelerator pedal depressed	3.2 ~ 4.8
VTA2 (E7-20) - E2 (E7-18)	Y-B ↔ BR-W	IG switch ON Accelerator pedal released	2.0 ~ 2.9
		IG switch ON Accelerator pedal depressed	4.7 ~ 5.1
VPA (E7-21) - E2 (E7-18)	P ↔ BR-W	IG switch ON Accelerator pedal released	0.3 ~ 0.9
		IG switch ON Accelerator pedal depressed	3.2 ~ 4.8
VPA2 (E7-9) - E2 (E7-18)	R-B ↔ BR-W	IG switch ON Accelerator pedal released	1.8 ~ 2.7
		IG switch ON Accelerator pedal depressed	4.7 ~ 5.1
OXL1 (E7-12) - E1 (E7-17)	B ↔ BR	Maintain engine speed at 2,500 rpm for 2 minutes after warming up	Pulse generation (See page <a href="#">DI-87</a> )
OXL2 (E9-18) - E1 (E7-17)	B ↔ BR		
OXR1 (E7-11) - E1 (E7-17)	W ↔ BR		
OXR2 (E9-27) - E1 (E7-17)	W ↔ BR		
HTL (E7-4) - E1 (E7-17)	R ↔ BR	Idling	Below 3.0
HTL2 (E9-8) - E1 (E7-17)	L ↔ BR		
HTR (E7-3) - E1 (E7-17)	Y ↔ BR	IG switch ON	9 ~ 14
HTR2 (E9-7) - E1 (E7-17)	R-B ↔ BR		

## DIAGNOSTICS – ENGINE

Symbols (Terminal No.)	Wiring Color	Condition	STD Voltage (V)
#1 (E7-5) – E01 (E6-21)	Y ↔ W-B	IG switch ON	9 ~ 14
#2 (E7-6) – E01 (E6-21)	B ↔ W-B		
#3 (E6-1) – E01 (E6-21)	L ↔ W-B		
#4 (E6-2) – E01 (E6-21)	R ↔ W-B		
#5 (E6-3) – E01 (E6-21)	G ↔ W-B	Idling	Pulse generation (See page <a href="#">DI-71</a> )
#6 (E6-4) – E01 (E6-21)	R-L ↔ W-B		
#7 (E6-5) – E01 (E6-21)	W ↔ W-B		
#8 (E6-6) – E01 (E6-21)	B-W ↔ W-B		
KNKL (E6-18) – E1 (E7-17)	B ↔ BR	Maintain engine speed at 4,000 rpm after warming up	Pulse generation (See page <a href="#">DI-78</a> )
KNKR (E6-17) – E1 (E7-17)	W ↔ BR		
G2 (E6-10) – NE- (E6-22)	R ↔ G	Idling	Pulse generation (See page <a href="#">DI-82</a> )
NE+ (E6-23) – NE- (E6-22)	L ↔ G		
PRG (E7-7) – E1 (E7-17)	L-B ↔ BR	IG switch ON	9 ~ 14
TPC (E9-10) – E1 (E7-17)	L ↔ BR	IG switch ON	9 ~ 14
PTNK (E9-22) – E2 (E7-18)	L-B ↔ BR-W	Ignition switch ON	2.9 ~ 3.7
		Apply vacuum 4.0 kPa (30 mmHg, 1.18 in.Hg)	Below 0.5
SPD (E9-15) – E1 (E7-17)	V ↔ BR	IG switch ON Rotate driving wheel slowly	Pulse generation (See page <a href="#">DI-113</a> )
CL+ (E6-29) – CL- (E6-24)	G-W ↔ G-B	Idling	Pulse generation (See page <a href="#">DI-126</a> )
M+ (E6-8) – E1 (E7-17)	R ↔ BR	Idling	Pulse generation (See page <a href="#">DI-123</a> )
M- (E6-7) – E1 (E7-17)	W ↔ BR		
DI (E10-4) – E1 (E7-17)	G-R ↔ BR	IG switch ON	9 ~ 14
FPC (E10-5) – E1 (E7-17)	G-W ↔ BR	IG switch ON	0 ~ 3.0
IGT1 (E6-11) – E1 (E7-17)	B ↔ BR	Idling	Pulse generation (See page <a href="#">DI-139</a> )
IGT2 (E6-12) – E1 (E7-17)	R ↔ BR		
IGT3 (E6-13) – E1 (E7-17)	L ↔ BR		
IGT4 (E6-14) – E1 (E7-17)	G ↔ BR		
IGT5 (E6-15) – E1 (E7-17)	Y ↔ BR		
IGT6 (E6-16) – E1 (E7-17)	B-Y ↔ BR		
IGT7 (E6-25) – E1 (E7-17)	B-L ↔ BR		
IGT8 (E6-26) – E1 (E7-17)	L-B ↔ BR		
IGF1 (E6-27) – E1 (E7-17)	B-W ↔ BR	IG switch ON	4.5 ~ 5.5
IGF2 (E6-28) – E1 (E7-17)	B-R ↔ BR	Idling	Pulse generation (See page <a href="#">DI-139</a> )
STP (E9-6) – E1 (E7-17)	G-W ↔ BR	Brake pedal is depressed	7.5 ~ 14
		Brake pedal is released	Below 1.5
STA (E9-17) – E1 (E7-17)	B-R ↔ BR	Shift lever position P or N position, Ignition switch START	6.0 or more
NSW (E9-20) – E1 (E7-17)	B-W ↔ BR	IG switch ON Other shift position in P, N position	9 ~ 14
		IG switch ON Shift position in P, N position	0 ~ 3.0
W (E10-6) – E1 (E7-17)	W ↔ BR	Idling	9 ~ 14
		IG switch ON	Below 3.0
ACT (E9-13) – E1 (E7-17)	L-B ↔ BR	A/C switch OFF	Below 3.0
		A/C switch ON at idling	9 ~ 14
A/C (E9-25) – E1 (E7-17)	W-G ↔ BR	A/C switch ON at idling	Below 3.0
		A/C switch OFF	7.5 ~ 14

Symbols (Terminal No.)	Wiring Color	Condition	STD Voltage (V)
ST1- (E10-19) - E1 (E7-17)	R-G ↔ BR	IG switch ON, Brake pedal is depressed	Below 1.5
		IG switch ON, Brake pedal is released	7.5 ~ 14
SIL (E10-11) - E1 (E7-17)	V-W ↔ BR	During transmission	Pulse generation
ELS (E9-12) - E1 (E7-17)	G-W ↔ BR	Taillight switch ON, Defogger switch ON	7.5 ~ 14
		Taillight switch OFF, Defogger switch OFF	0 ~ 1.5
TACH (E9-16) - E1 (E7-17)	B ↔ BR	Idling	Pulse generation
KSW (E10-20) - E1 (E7-17)	R-B ↔ BR	At time of inserting key	Below 1.5
		In condition without key inserted	4 ~ 5
RXCK (E10-13) - E1 (E7-17)	V-G ↔ BR	At time of inserting key	Pulse generation
CODE (E10-12) - E1 (E7-17)	L-B ↔ BR	At time of inserting key	Pulse generation
TXCT (E10-14) - E1 (E7-17)	R-Y ↔ BR	At time of inserting key	Pulse