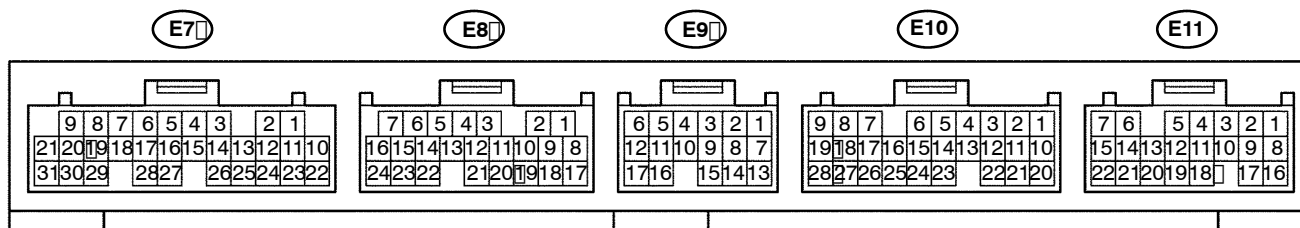


# TERMINALS OF ECU

## Engine ECU Terminals



A02508

A04997

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
BATT (E11-1) – E1 (E8-17)	B-R → BR	Always	9 ~ 14
+BM (E11-7) – E1 (E8-17)	Y-B ↔ BR		
IGSW (E11-9) – E1 (E8-17)	B-R ↔ BR	IG switch ON	9 ~ 14
+B (E11-16) – E1 (E8-17)	B-Y ↔ BR		
+B1 (E11-8) – E1 (E8-17)	B-Y ↔ BR		
MREL (E11-10) – E1 (E8-17)	B-W	IG switch ON	9 ~ 14
VC (E8-2) – E2 (E8-18)	L-R ↔ BR-W	IG switch ON	4.5 ~ 5.5
VG (E8-10) – EVG (E8-19)	L-Y ↔ G-W	Idling, P or N position, A/C switch OFF	0.5 ~ 3.0
THA (E8-22) – E2 (E8-18)	Y-B ↔ BR-W	Idling, Intake air temp. 20°C (68°F)	0.5 ~ 3.4
THW (E8-14) – E2 (E8-18)	G-B ↔ BR-W	Idling, Water temp. 80°C (176°F)	0.2 ~ 1.0
VTA (E8-13) – E2 (E8-18)	R-Y ↔ BR-W	IG switch ON Accelerator pedal released	0.4 ~ 1.0
		IG switch ON Accelerator pedal depressed	3.2 ~ 4.8
VTA2 (E8-20) – E2 (E8-18)	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 (E8-21) – E2 (E8-18)	R ↔ BR-W	IG switch ON Accelerator pedal released	0.3 ~ 0.9
		IG switch ON Accelerator pedal depressed	3.2 ~ 4.8
VPA2 (E8-9) – E2 (E8-18)	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 (E8-12)* – E1 (E8-17)	B ↔ BR	Maintain engine speed at 2,500 rpm for 2 minutes after warming up	Pulse generation (See page DI-51)
OXL2 (E10-18)* – E1 (E8-17)	B ↔ BR		
OXR1 (E8-11)* – E1 (E8-17)	W ↔ BR		
OXR2 (E10-27)* – 1 (E8-17)	W ↔ BR		
HTL (E8-4)* – E1 (E8-17)	R ↔ BR	Idling	Below 3.0
HTL2 (E10-8)* – E1 (E8-17)	L ↔ BR		
HTR (E8-3)* – E1 (E8-17)	Y ↔ BR	IG switch ON	9 ~ 14
HTR2 (E10-7)* – E1 (E8-17)	R-B ↔ BR		

\*: Only for Europe

## DIAGNOSTICS – ENGINE

Symbols (Terminals) (No.)	Wiring (Color)	Condition	STD (Voltage) (V)
#1 (E8-5) – E01 (E7-21)	Y ↔ W-B	IG switch ON	9 ~ 14
#2 (E8-6) – E01 (E7-21)	B ↔ W-B		
#3 (E7-1) – E01 (E7-21)	L ↔ W-B	Idling	Pulse generation (See page DI-120)
#4 (E7-2) – E01 (E7-21)	R ↔ W-B		
#5 (E7-3) – E01 (E7-21)	G ↔ W-B		
#6 (E7-4) – E01 (E7-21)	R-L ↔ W-B		
#7 (E7-5) – E01 (E7-21)	W ↔ W-B		
#8 (E7-6) – E01 (E7-21)	B-W ↔ W-B		
KNKL (E7-18) – E1 (E8-17)	B ↔ BR	Maintain engine speed at 4,000 rpm after warming up	Pulse generation (See page DI-67)
KNKR (E7-17) – E1 (E8-17)	W ↔ BR		
G2 (E7-10) – NE- (E7-22)	R ↔ G	Idling	Pulse generation (See page DI-72)
NE+ (E7-23) – NE- (E7-22)	L ↔ G		
PRG (E8-7) – E1 (E8-17)	L-B ↔ BR	IG switch ON	9 ~ 14
SPD (E10-15) – E1 (E8-17)	V ↔ BR	IG switch ON Rotate driving wheel slowly	Pulse generation (See page DI-77)
CL+ (E7-29) – CL- (E7-24)	G ↔ L	Idling	Pulse generation (See page DI-88)
M+ (E7-8) – E1 (E8-17)	R ↔ BR	Idling	Pulse generation (See page DI-85)
M- (E7-7) – E1 (E8-17)	W ↔ BR		
DI (E11-4)*1 – E1 (E8-17)	G-W ↔ BR	IG switch ON	9 ~ 14
FPC (E11-5)*1 – E1 (E8-17)	G-R ↔ BR	IG switch ON	0 ~ 3.0
FPR (E11-4)*2 – E1 (E8-17)	G-W ↔ BR	IG switch ON	0 ~ 3.0
FC (E11-5)*2 – E1 (E8-17)	B-W ↔ BR	IG switch ON	9 ~ 14
IGT1 (E7-11) – E1 (E8-17)	B ↔ BR	Idling	Pulse generation (See page DI-103)
IGT2 (E7-12) – E1 (E8-17)	R ↔ BR		
IGT3 (E7-13) – E1 (E8-17)	L ↔ BR		
IGT4 (E7-14) – E1 (E8-17)	G ↔ BR		
IGT5 (E7-15) – E1 (E8-17)	Y ↔ BR		
IGT6 (E7-16) – E1 (E8-17)	B-Y ↔ BR		
IGT7 (E7-25) – E1 (E8-17)	B-L ↔ BR		
IGT8 (E7-26) – E1 (E8-17)	L-B ↔ BR		
IGF1 (E7-27) – E1 (E8-17)	B-W ↔ BR	IG switch ON	4.5 ~ 5.5
IGF2 (E7-28) – E1 (E8-17)	B-R ↔ BR	Idling	Pulse generation (See page DI-103)
STP (E10-6) – E1 (E8-17)	G-W ↔ BR	Brake pedal is depressed	7.5 ~ 14
		Brake pedal is released	Below 1.5
STA (E10-17) – E1 (E8-17)	B-R *3 ↔ BR B-W *4 ↔ BR	Shift lever position P or N position, ignition switch START	6.0 or more
NSW (E10-20)*3 – E1 (E8-17)	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 (E11-6) – E1 (E8-17)	W ↔ BR	Idling	9 ~ 14
		IG switch ON	Below 3.0

\*1: Only for Europe

\*2: Except Europe

\*3: Except M/T (LHD)

\*4: Only for M/T (LHD)

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
ACT (E10-13) - E1 (E8-17)	L-B ↔ BR	A/C switch OFF	Below 3.0
		A/C switch ON at idling	9 ~ 14
A/C (E10-25) - E1 (E8-17)	W-G ↔ BR	A/C switch ON at idling	Below 3.0
		A/C switch OFF	7.5 ~ 14
ST1- (E11-19) - E1 (E8-17)	R-G ↔ BR	IG switch ON, Brake pedal is depressed	Below 1.5
		IG switch ON, Brake pedal is released	7.5 ~ 14
SIL (E11-11) - E1 (E8-17)	V-W ↔ BR	During transmission	Pulse generation
ELS (E10-12) - E1 (E8-17)	G-W ↔ BR	Taillight switch ON, Defogger switch ON	7.5 ~ 14
		Taillight switch OFF, Defogger switch OFF	0 ~ 1.5
TACH (E10-16) - E1 (E8-17)	B ↔ BR	Idling	Pulse generation
KSW (E11-20) - E1 (E8-17)	R-B ↔ BR	At the time of inserting the key	Below 1.5
		In the condition without the key inserted	4 ~ 5
RXCK (E11-13) - E1 (E8-17)	V-G ↔ BR	At the time of inserting the key	Pulse generation
CODE (E11-12) - E1 (E8-17)	L-B ↔ BR	At the time of inserting the key	Pulse generation
TXCT (E11-14) - E1 (E8-17)	R-Y ↔ BR	At the time of inserting the key	Pulse generation