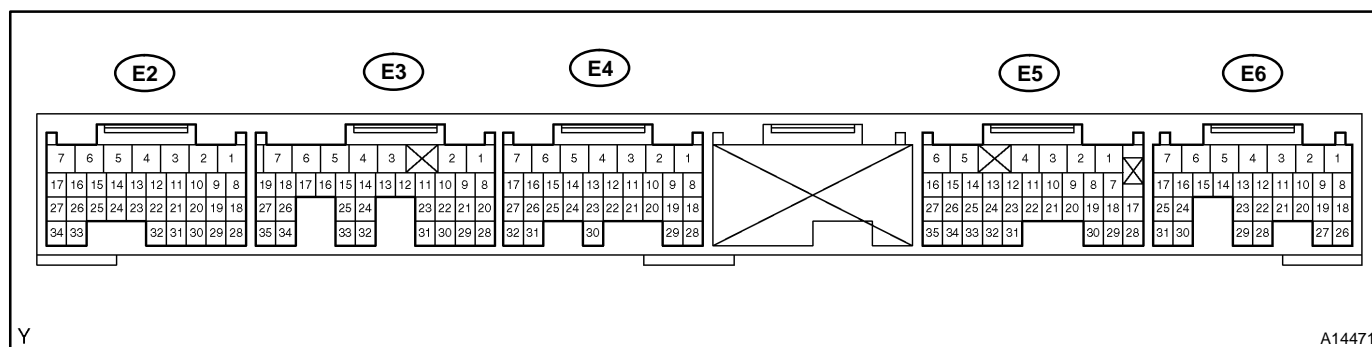


TERMINALS OF ECM



Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
BATT (E6-4) – E1 (E3-7)	B-Y ↔ BR	Always	9 – 14
+BM (E6-7) – E1 (E3-7)	V-Y ↔ BR		
IGSW (E6-17) – E1 (E3-7)	B-O ↔ BR	IG switch ON	9 – 14
+B (E6-6) – E1 (E3-7)	B-R ↔ BR		
+B1 (E6-5) – E1 (E3-7)	B-R ↔ BR		
VC (E2-23) – ETA (E2-22)	L-R ↔ BR	IG switch ON	4.5 – 5.5
VTA (E2-25) – ETA (E2-22)	Y ↔ BR	IG switch ON, Accelerator pedal fully closed	0.4 – 1.0
		IG switch ON, Accelerator pedal fully open	3.2 – 4.8
VTA2 (E2-24) – ETA (E2-22)	B ↔ BR	IG switch ON, Accelerator pedal fully closed	2.0 – 2.9
		IG switch ON, Accelerator pedal fully open	4.6 – 5.1
VPA (E5-33) – EPTK (E5-26)	L ↔ LG-R	IG switch ON, Accelerator pedal fully closed	0.3 – 0.9
		IG switch ON, Accelerator pedal fully open	3.2 – 4.8
VPA2 (E5-32) – EPA (E5-34)	B ↔ BR-Y	IG switch ON, Accelerator pedal fully closed	1.8 – 2.7
		IG switch ON, Accelerator pedal fully open	4.7 – 5.1
VG (E4-27) – EVG (E4-26)	L-Y ↔ G-W	Idling, P or N position, A/C switch OFF	0.5 – 3.0
VCPA (E5-35) – EPA (E5-34)	B ↔ BR-Y	IG switch ON	4.5 – 5.5
VPTK (E5-27) – EPTK (E5-26)	L-R ↔ LG-R	IG switch ON	4.5 – 5.5
THA (E4-32) – ETHA (E4-31)	P-L ↔ BR	Idling, Intake air temp. 20°C (68°F)	0.5 – 3.4
THW (E4-24) – ETHW (E4-25)	R-L ↔ BR	Idling, water temp. 80°C (176°F)	0.2 – 1.0
STA (E6-12) – E1 (E3-7)	B ↔ BR	Shift lever position P or N position, ignition switch START	6.0 or more
#1 (E2-15) – E01 (E4-2) #2 (E4-17) – E01 (E4-2) #3 (E2-14) – E01 (E4-2) #4 (E4-16) – E01 (E4-2) #5 (E2-13) – E01 (E4-2) #6 (E4-15) – E01 (E4-2) #7 (E2-12) – E01 (E4-2) #8 (E4-14) – E01 (E4-2)	L ↔ W-B W ↔ W-B W ↔ W-B G ↔ W-B G ↔ W-B BR ↔ W-B BR ↔ W-B L ↔ W-B	IG switch ON	9 – 14
IGT1 (E2-17) – E1 (E3-7) IGT2 (E4-13) – E1 (E3-7) IGT3 (E2-16) – E1 (E3-7) IGT4 (E4-12) – E1 (E3-7) IGT5 (E2-27) – E1 (E3-7) IGT6 (E4-11) – E1 (E3-7) IGT7 (E2-26) – E1 (E3-7) IGT8 (E4-10) – E1 (E3-7)	G-W ↔ BR L-R ↔ BR L ↔ BR R ↔ BR G ↔ BR R-L ↔ BR P-L ↔ BR B-W ↔ BR	Idling	Pulse generation (See page DI-298)

DIAGNOSTICS – ENGINE (3UZ-FE)

IF1L (E4-6) – E1 (E3-7)	LG ↔ BR	IG switch ON	4.5 – 5.5
IF2L (E4-4) – E1 (E3-7)	G-B ↔ BR	Idling	Pulse generation (See page DI-298)
IF1R (E4-7) – E1 (E3-7)	G ↔ BR		
IF2R (E4-5) – E1 (E3-7)	L-B ↔ BR		
G2 (E2-29) – G2- (E2-28)	L ↔ Y	Idling	Pulse generation (See page DI-245)
NE+ (E2-31) – NE- (E2-32)	R ↔ G		
MREL (E6-13) – E1 (E3-7)	B-Y ↔ BR	IG switch ON	9 – 14
FPC (E6-14) – E1 (E3-7)	B-L ↔ BR	IG switch ON	9 – 14
STP (E5-4) – E1 (E3-7)	G-W↔BR	Brake pedal is depressed	7.5 – 14
		Brake pedal is released	Below 1.5
PRG (E2-11) – E1 (E3-7)	G-B ↔ BR	IG switch ON	9 – 14
OXL1 (E3-28)* – E1 (E3-7)	B ↔ BR	Maintain engine speed at 2,500 rpm for 2 minutes after warming up	Pulse generation (See page DI-249)
OXL2 (E5-28)* – E1 (E3-7)	W ↔ BR		
OXR1 (E4-28)* – E1 (E3-7)	W ↔ BR		
OXR2 (E5-17)* – E1 (E3-7)	R ↔ BR		
HTL (E3-9) – E1 (E3-7)	L-Y ↔ BR	Idling	Below 3.0
HTL2 (E5-7) – E1 (E3-7)	GR ↔ BR	IG switch ON	9 – 14
HTR (E4-30) – E1 (E3-7)	G-Y ↔BR		
HTR2 (E5-8) – E1 (E3-7)	BR-B ↔BR		
KNKL (E3-1) – E1 (E3-7)	B ↔ BR	Maintain engine speed at 4,000 rpm after warming up	Pulse generation (See page DI-242)
KNKR (E3-2) – E1 (E3-7)	W ↔ BR		
TC (E5-3) – E1 (E3-7)	P-B ↔ BR	IG switch ON	9 – 14
W (E6-2) – E1 (E3-7)	GR-R ↔ BR	Idling	9 – 14
		IG switch ON	Below 3.0
ACMG (E6-16) – E1 (E3-7)	L-O ↔ BR	A/C switch ON (At Idling)	Below 3.0
		A/C switch OFF	9 – 14
ENG+ (E5-19)	LG ↔ L	Idling	Pulse generation
– ENG- (E5-30)	R ↔ G		
TRC+ (E5-18)			
– TRC- (E5-29)			
VVL+ (E2-18) – VVL- (E2-19)	R ↔ G	Idling	Pulse generation (See page DI-305)
VVR+ (E4-19) – VVR- (E4-18)	Y ↔ L		
OCV+ (E2-6)	L-Y ↔ G-W	IG switch ON	Pulse generation (See page DI-310)
– OCV- (E2-5)	L-W ↔ L-B		
OCR+ (E4-9)			
– OCR- (E4-8)			
ACIS (E4-21) – E01 (E3-2)	L-W ↔ W-B	IG switch ON	9 – 14
		Engine speed between 2,500 rpm and 4,000 rpm	Below 3.0
M+ (E2-3) – E1 (E3-7)	L ↔ W-B	Idling	Pulse generation (See page DI-291)
M- (E2-2) – E1 (E3-7)	Y ↔ W-B		
SIL (E6-26) – E1 (E3-7)	W ↔ BR	During transmission	Pulse generation
SP2+ (E3-23) – SP2- (E3-22)	G ↔ R	Vehicle is driving	Pulse generation (See page DI-281)