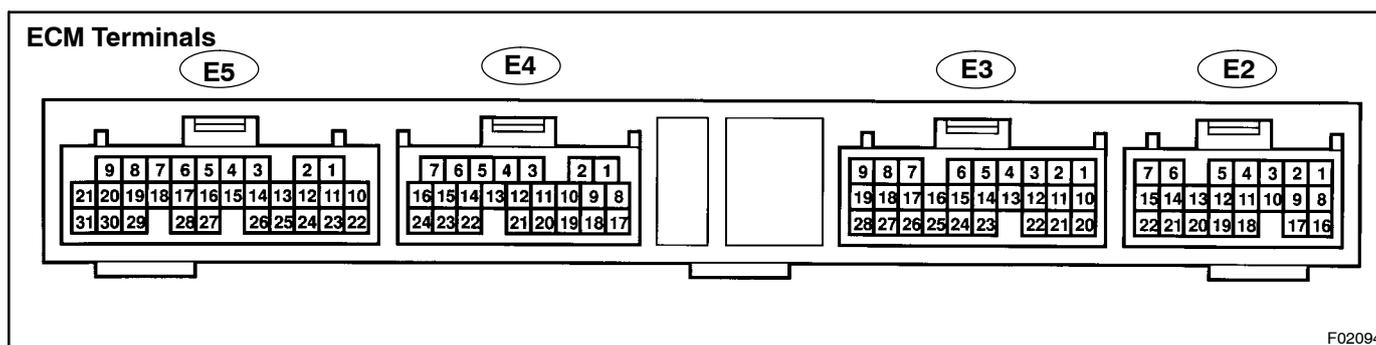


# TERMINALS OF ECM



F02094

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
BATT (E2 - 1) - E1 (E4 - 17)	W ↔ BR	Always	9 - 14
FC (E2 - 3) - E1 (E4 - 17)	G-R ↔ BR	IG switch ON	9 - 14
		Idling	0 - 0.3
PTNK (E2 - 4) - E1 (E4 - 17)	L-B ↔ BR	IG switch ON, fuel cap taken off	2.9 - 3.7
IGSW (E2 - 8) - E1 (E4 - 17)	B-O ↔ BR	IG switch ON	9 - 14
W (E2 - 15) - E1 (E4 - 17)	R-B ↔ BR	Idling	9 - 14
		IG switch ON	Below 3.0
+B (E2 - 16) - E1 (E4 - 17)	B-R ↔ BR	IG switch ON	9 - 14
STP (E3 - 6) - E1 (E4 - 17)	G-W ↔ BR	IG switch ON, brake pedal depressed	7.5 - 14
		IG switch ON, brake pedal depressed	Below 1.5
F/PS (E3 - 8) - E1 (E4 - 17)	P ↔ BR	IG switch ON	Below 1.5
VSV (E3 - 9) - E1 (E4 - 17)	R-L ↔ BR	IG switch ON	9 - 14
STA (E3 - 11) - E1 (E4 - 17)	L ↔ BR	Cranking	6.0 or more
HT1B (E3 - 16) - E03 (E2 - 7)	Y-G ↔ W-B	Idling	Below 3.0
		IG switch ON	9 - 14
MREL (E3 - 21) - E1 (E4 - 17)	L-B ↔ BR	IG switch ON	9 - 14
SPD (E3 - 22) - E1 (E4 - 17)	W-R ↔ BR	IG switch ON, rotate driving wheel slowly	Pulse generation
OX1B (E3 - 25) - E2 (E4 - 18)	W ↔ BR	Maintain engine speed at 2,500 rpm for 2 min. after warning up	Pulse generation (See page DI-78)
TACH (E3 - 27) - E1 (E4 - 17)	BR-W ↔ BR	Idling	Pulse generation
VC (E4 - 2) - E2 (E4 - 18)	R ↔ BR	IG switch ON	9 - 14
HT1A (E4 - 3) - E03 (E2 - 7)	Y-R ↔ W-B	Idling	Below 3.0
		IG switch ON	9 - 14
EVP1 (E4 - 4) - E01 (E5 - 21)	G-O ↔ W-B	IG switch ON	9 - 14
OVL+*2 (E4 - 7) - OVL-*2 (E4 - 6)	L-W ↔ L-B	Engine speed at 6,000 rpm or more	9 - 14
VG (E4 - 11) - EVG (E4 - 1)	G-W ↔ Y-G	Idling, A/C switch OFF	1.1 - 1.5
OX1A (E4 - 12) - E2 (E4 - 18)	B ↔ BR	Maintain engine speed at 2,500 rpm for 2 min. after warning up	Pulse generation (See page DI-78)
THW (E4 - 14) - E2 (E4 - 18)	G ↔ BR	Idling, Engine coolant temp. at 80 °C (176 °F)	0.2 - 1.0
NE+ (E4 - 16) - NE- (E4 - 24)	O ↔ W	Idling	Pulse generation (See page DI-74)
OSW (E4 - 21) - E1 (E4 - 17)	GR ↔ BR	Idling	9 - 14
THA (E4 - 22) - E2 (E4 - 18)	L-R ↔ BR	Idling, intake air temp. 20 °C (68 °F)	0.5 - 3.4

## DIAGNOSTICS - ENGINE

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
VTA (E4 - 23) - E2 (E4 - 18)	B-W ↔ BR	IG switch ON, throttle valve fully closed	0.3 - 1.0
		IG switch ON, throttle valve fully open	3.2 - 4.9
#10 (E5 - 1) - E01 (E5 - 21)	R ↔ W-B	IG switch ON	9 - 14
		Idling	Pulse generation (See page <a href="#">DI-64</a> )
#20 (E5 - 2) - E01 (E5 - 21)	R-L ↔ W-B	IG switch ON	9 - 14
		Idling	Pulse generation (See page <a href="#">DI-64</a> )
#30 (E5 - 3) - E01 (E5 - 21)	R-W ↔ W-B	IG switch ON	9 - 14
		Idling	Pulse generation (See page <a href="#">DI-64</a> )
#40 (E5 - 4) - E01 (E5 - 21)	R-B ↔ W-B	IG switch ON	9 - 14
		Idling	Pulse generation (See page <a href="#">DI-64</a> )
IGT1 (E5 - 10) - E1 (E4 - 17)	R-B ↔ BR	Idling	Pulse generation (See page <a href="#">DI-114</a> )
IGT2 (E5 - 11) - E1 (E4 - 17)	R-W ↔ BR	Idling	Pulse generation (See page <a href="#">DI-114</a> )
IGT3 (E5 - 12) - E1 (E4 - 17)	G-R ↔ BR	Idling	Pulse generation (See page <a href="#">DI-114</a> )
IGT4 (E5 - 13) - E1 (E4 - 17)	R-Y ↔ BR	Idling	Pulse generation (See page <a href="#">DI-114</a> )
CCV (E5 - 17) - E1 (E4 - 17)	V-W ↔ BR	IG switch ON	9 - 14
RSO (E5 - 18) - E01 (E5 - 21)	B-W ↔ W-B	IG switch ON, disconnect E4 of E4 connector	9 - 14
MOPS (E5 - 22) - E1 (E4 - 17)	Y-B ↔ BR	Idling	9 - 14
OCV+ (E5 - 24) - OCV- (E5 - 23)	G-O ↔ W	IG switch ON	Pulse generation (See page <a href="#">DI-123</a> )
IGF (E5 - 25) - E1 (E4 - 17)	B-Y ↔ BR	IG switch ON	4.5 - 5.5
		Idling	Pulse generation (See page <a href="#">DI-114</a> )
KNK1 (E5 - 27) - E1 (E4 - 17)	W ↔ BR	Idling	Pulse generation (See page <a href="#">DI-71</a> )
PS (E5 - 28) - E1 (E4 - 17)	P ↔ BR	IG switch ON	9 - 14

\*1: Only for A/T models.

\*2: Only for 2ZZ-GE models.