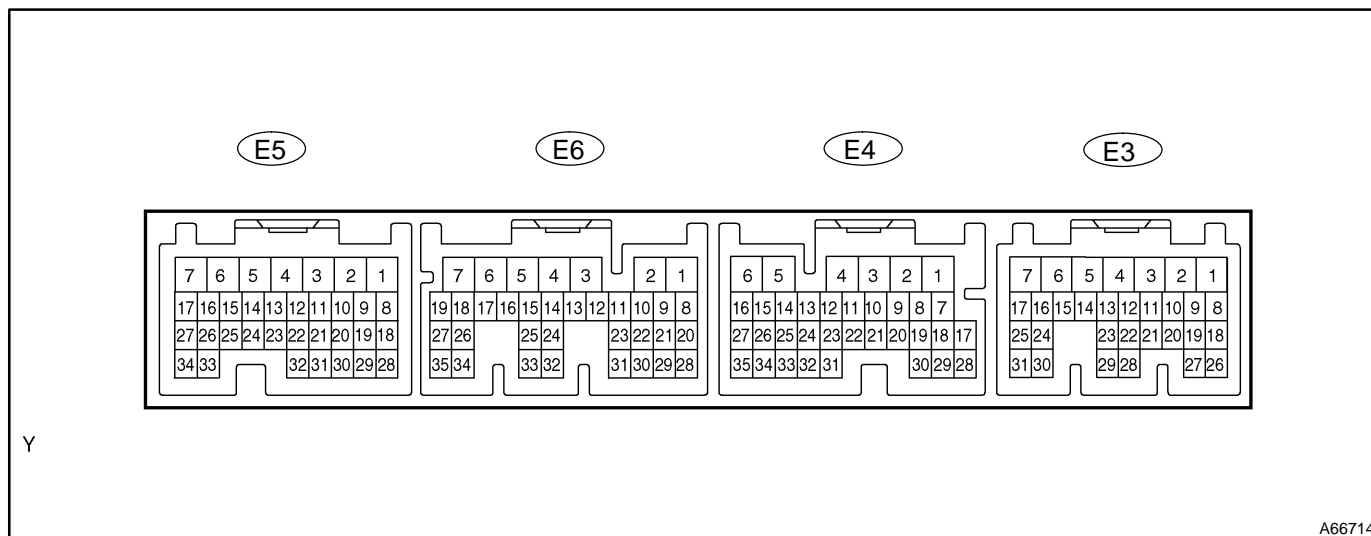


## TERMINALS OF ECM



Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	STD Voltage (V)
BATT (E3 - 3) - E1 (E6 - 7)	B-Y - BR	Battery (for measuring the battery voltage and for the ECM memory)	Always	8 to 14
FC (E3 - 10) - E1 (E6 - 7)	G-R - BR	Fuel pump control	IG switch ON	8 to 14
			Idling	Below 3.5
W (E3 - 11) - E1 (E6 - 7)	Y-G - BR	MIL	Idling	8 to 14
			IG switch ON	Below 3.5
+B (E3 - 1) - E1 (E6 - 7)	B-R - BR	Power source of ECM	IG switch ON	8 to 14
STP (E4 - 19) - E1 (E6 - 7)	G-W - BR	Stop light switch	Brake pedal depressed	8 to 14
			Brake pedal released	Below 1.5
F/PS (E3 - 14) - E1 (E6 - 7)	B - BR	Airbag sensor	IG switch ON	Pulse generation
STA (E6 - 9) - E1 (E6 - 7)	B-Y - BR	Starter signal	Cranking	5.5 or more
PSP (E6 - 29) - E1 (E6 - 7)	Y - BR	Power steering oil pressure sensor	IG switch ON	8 to 14
SPD (E4 - 17) - E1 (E6 - 7)	V-W - BR	Speed signal from combination meter	IG switch ON, rotate driving wheel slowly	Pulse generation (See Page 05-215)
TACH (E3 - 5) - E1 (E6 - 7)	B - BR	Engine speed	Idling	Pulse generation
VC (E5 - 18) - E2 (E5 - 28)	R-W - BR	Power source of sensor (a specific voltage)	IG switch ON	4.5 to 5.5
PRG (E5 - 12) - E01 (E5 - 7)	W-G - BR	VSV for EVAP	IG switch ON	8 to 14
CCV (E4 - 1) - E1 (E6 - 7)	L - BR	VSV for CCV	IG switch ON	9 to 14
PTNK (E3 - 21) - E2 (E5 - 28)	B - BR	Vapor pressure sensor	Ignition switch ON	2.9 to 3.7
			Apply vacuum 4.0 kPa (30 mmHG, 1.18 in.Hg)	Below 0.5
VG (E6 - 24) - EVG (E6 - 32)	P - V	Mass air flow sensor	Idling, A/C switch OFF	1.1 to 1.5
OXL1 (E6 - 23) - E2 (E5 - 28)	W - BR	Heated oxygen sensor (bank1, sensor1)	Maintain engine speed at 2,500 rpm for 2 min. after warming up	Pulse generation (See Page 05-174)
HTL (E6 - 4) - E03 (E6 - 5)	B-R - BR	Heated oxygen sensor heater (bank1, sensor1)	Idling	Below 3.0
			IG switch ON	9 to 14
OXL2 (E6 - 21) - E2 (E5 - 28)	B - BR	Heated oxygen sensor (bank1, sensor2)	Maintain engine speed at 2,500 rpm for 2 min. after warming up	Pulse generation (See Page 05-174)
			Idling	Below 3.0
HTL2 (E4 - 4) - E03 (E6 - 5)	W-L - BR	Heated oxygen sensor heater (bank1, sensor2)	IG switch ON	9 to 14
			Idling	Below 3.0
THW (E5 - 19) - E2 (E5 - 28)	R-L - BR	Engine coolant temperature sensor	Idling, Engine coolant temp. at 80°C (176°F)	0.2 to 1.0

Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	STD Voltage (V)
G2 (E5 – 26) – NE– (E5 – 34)	B – W	Camshaft position sensor	Idling	Pulse generation (See Page 05-161)
NE (E5 – 27) – NE– (E5 – 34)	O – W	Crankshaft position sensor	Idling	Pulse generation (See Page 05-156)
THA (E5 – 20) – E2 (E5 – 28)	Y–B – BR	Intake air temperature sensor	Idling, intake air temp. at 20°C (68°F)	0.5 to 3.4
VTA (E5 – 21) – E2 (E5 – 28)	Y–R – BR	Throttle position sensor	IG switch ON, throttle valve fully closed	0.3 to 1.0
			IG switch ON, throttle valve fully open	3.2 to 4.9
#1 (E5 – 1) – E01 (E5 – 7)	B–O – BR	Injector	IG switch ON	8 to 14
#2 (E5 – 2) – E01 (E5 – 7)	B–Y – BR			
#3 (E5 – 3) – E01 (E5 – 7)	B–W – BR			
#4 (E5 – 4) – E01 (E5 – 7)	B–L – BR			
IGT1 (E5 – 8) – E1 (E6 – 7)	G–R – BR	Ignition coil and igniter (ignition signal)	Idling	Pulse generation (See Page 05-165)
IGT2 (E5 – 9) – E1 (E6 – 7)	G–B – BR			
IGT3 (E5 – 10) – E1 (E6 – 7)	G–O – BR			
IGT4 (E5 – 11) – E1 (E6 – 7)	G–Y – BR			
IGF (E5 – 23) – E1 (E6 – 7)	Y – BR	Ignition coil and igniter (ignition confirmation signal)	IG switch ON	4.5 to 5.5
			Idling	Pulse generation (See Page 05-165)
RSD (E5 – 5) – E01 (E5 – 7)	B–R – BR	Idle air control valve	IG switch ON	9 to 14
OCV+ (E5 – 15) – OCV– (E5 – 14)	R–Y – R–B	Camshaft timing oil control valve	IG switch ON	Pulse generation (See Page 05-43)
KNK1 (E6 – 1) – E1 (E6 – 7)	W – BR	Knock sensor	Idling	Pulse generation (See Page 05-152)
TC (E3 – 20) – E1 (E6 – 7)	P–B – BR	Terminal TC of DLC 3	IG switch ON	9 to 14
SIL (E3 – 18) – E1 (E6 – 7)	W – BR	Terminal SIL of DLC3	Connect hand-held tester to DLC3	Pulse generation