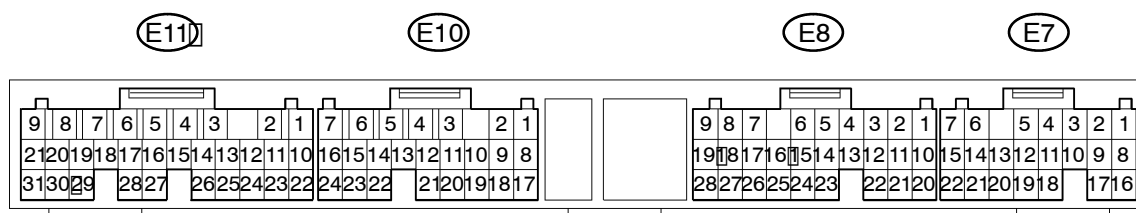


# TERMINALS OF ECM

## ECM Terminals



Y

A09639

Symbols (Terminal No.)	Wiring Color	Condition	STD Voltage (V)
BATT (E7-2) - E1 (E11-22)	B-Y - BR	Always	9 - 14
+B (E7-1) - E1 (E11-22)	B-W - BR	IG switch ON	9 - 14
VC (E10-21) - E2 (E10-20)	R - BR	IG switch ON	4.5 - 5.5
VCC (E8-8) - E2C (E8-27)	G-B - BR	IG switch ON	4.5 - 5.5
VA (E8-19) - E2C (E8-27)	B-R - BR	Accelerator pedal fully closed	0.6 - 1.3
VA (E8-19) - E2C (E8-27)	B-R - BR	Accelerator pedal fully opened	2.8 - 4.5
VAS (E8-28) - E2C (E8-27)	L-W - BR	Accelerator pedal fully closed	1.4 - 2.1
VAS (E8-28) - E2C (E8-27)	L-W - BR	Accelerator pedal fully opened	3.6 - 5.0
VCC2 (E8-13) - E2C (E8-27)	G - BR	IG switch ON	4.5 - 5.5
PCR (E10-23) - E2 (E10-20)	R-L - BR	IG switch ON	1.0 - 4.0
THAF (E10-13) - E2 (E10-20)	B-Y - BR	Atmospheric temp	0.5 - 3.8
PIM (E10-16) - E2 (E10-20)	GR - BR	Apply vacuum 40 kPa (300 mmHg, 11.8 in.Hg)	1.0 - 1.8
PIM (E10-16) - E2 (E10-20)	GR - BR	Apply vacuum 135 kPa (1,000 mmHg, 39.4 in.Hg)	2.3 - 3.2
THA (E10-22) - E2 (E10-20)	G-Y - BR	Idling, air intake temp. 0°C (32°F) to 60°C (140°F)	0.2 - 3.8
THW (E10-14) - E2 (E10-20)	G - BR	Idling, engine coolant temp. 60°C (140°F) to 120°C (248°F)	0.1 - 1.5
THF (E10-24) - E2 (E10-20)	V - BR	IG switch ON (at engine cold)	0.5 - 3.8
VG (E10-19) - EVG (E10-11)	G-W - Y-G	Idling, A/C switch OFF	0.5 - 3.0
IGSW (E7-9) - E1 (E11-22)	B-O - BR*1 G - BR*2	IG switch ON	9 - 14
STA (E7-15) - E1 (E11-22)	R-W - BR	Cranking	6.0 or more
NE+ (E11-17) - NE- (E11-28)	O - W	Idling	Pulse generation (See page 05-173)
G+ (E11-16) - G- (E11-27)	L - B-W	Idling	Pulse generation (See page 05-173)
SP1 (E8-22) - E1 (E11-22)	W-R - BR	IG switch ON, Rotate driving wheel slowly	Pulse generation (See page 05-235)
VNT (E11-2) - E01 (E11-21)	W-R - BR	IG switch ON	Pulse generation (See page 05-213)
PA (E10-17) - E01 (E11-21)	W-R - BR	VSV for atmospheric pressure leaning OFF	9 - 14
PA (E10-17) - E01 (E11-21)	W-R - BR	VSV for atmospheric pressure leaning ON	0 - 3
STP (E8-14) - E2 (E10-20)	G-W - BR	IG switch ON, Brake pedal depressed	7.5 - 14
STP (E8-14) - E2 (E10-20)	G-W - BR	IG switch ON, Brake pedal released	Below 1.5
ST1- (E8-23) - E2 (E10-20)	L-O - BR*1	IG switch ON, Brake pedal depressed	Below 1.5
ST1- (E8-23) - E2 (E10-20)	B-R - BR*2	IG switch ON, Brake pedal depressed	Below 1.5
ST1- (E8-23) - E2 (E10-20)	L-O - BR*1	IG switch ON, Brake pedal released	7.5 - 14
ST1- (E8-23) - E2 (E10-20)	B-R - BR*2	IG switch ON, Brake pedal released	7.5 - 14

#1 (E11-15) – E01 (E11-21)	V – BR	Idling	Pulse generation (See <a href="#">page 05-257</a> )
#2 (E11-14) – E01 (E11-21)	Y-B – BR	Idling	Pulse generation (See <a href="#">page 05-257</a> )
#3 (E11-13) – E01 (E11-21)	L-W – BR	Idling	Pulse generation (See <a href="#">page 05-257</a> )
#4 (E11-12) – E01 (E11-21)	G-W – BR	Idling	Pulse generation (See <a href="#">page 05-257</a> )
INJF (E11-18) – E01 (E11-21)	R-L – BR	Idling	Pulse generation (See <a href="#">page 05-257</a> )
MREL (E7-7) – E01 (E11-21)	P-B – BR	IG switch ON	9 – 14
AC1 (E8-6) – E1 (E11-22)	B-O – BR	A/C switch ON (at idling)	0 – 1.5
AC1 (E8-6) – E1 (E11-22)	B-O – BR	A/C switch OFF	9 – 14
TACH (E8-10) – E1 (E11-22)	W-L – BR	Idling	9 – 14
SREL (E7-16) – E01 (E11-21)	G-Y – BR	IG switch ON	9 – 14
W (E7-12) – E1 (E11-22)	L – BR*1 R-B – BR*2	Check engine warning light lights up	0 – 3
W (E7-12) – E1 (E11-22)	L – BR*1 R-B – BR*2	Except check engine warning light lights up	9 – 14
GIND (E7-3) – E1 (E11-22)	L-O – BR*1 L-Y – BR*2	Glow indicator light lights up	0 – 3
GIND (E7-3) – E1 (E11-22)	L-O – BR*1 L-Y – BR*2	Except glow indicator light lights up	9 – 14
ACT (E8-5) – E1 (E11-22)	R-W – BR	IG switch ON	9 – 14
ACT (E8-5) – E1 (E11-22)	R-W – BR	At A/C cut controlled (Driving below 30 km/h, accelerator pedal fully opened for 5 sec.)	0 – 3
THWO (E7-6) – E1 (E11-22)	G – BR*1 G-W – BR*2	IG switch ON	Pulse generation (See <a href="#">page 05-272</a> )
LU+A (E11-20) – E1 (E11-22)	B-O – BR	IG switch ON	Pulse generation (See <a href="#">page 05-178</a> )
LU-A (E11-30) – E1 (E11-22)	R-Y – BR	IG switch ON	Pulse generation (See <a href="#">page 05-178</a> )
LU+B (E11-19) – E1 (E11-22)	G-Y – BR	IG switch ON	Pulse generation (See <a href="#">page 05-178</a> )
LU-B (E11-29) – E1 (E11-22)	L-B – BR	IG switch ON	Pulse generation (See <a href="#">page 05-178</a> )
TC (E7-18) – E1 (E11-22)	P-B – BR	IG switch ON	9 – 14
SIL (E7-19) – E1 (E11-22)	W – BR	Connect hand-held tester to DLC3	Pulse generation
IMI (E7-14) – E1 (E11-22)	R-W – BR*1 R-Y – BR*2	Idling	Pulse generation
IMO (E7-21) – E1 (E11-22)	Y-G – BR	A few sec. after engine starting	Pulse generation
RINJ1 (E11 – 26) – E1 (E11-22)	G-B – BR	Idling	0.5 – 4.5
RINJ2 (E11 – 25) – E1 (E11-22)	R-W – BR	Idling	0.5 – 4.5
RINJ3 (E11 – 24) – E1 (E11-22)	R-B – BR	Idling	0.5 – 4.5
RINJ4 (E11 – 23) – E1 (E11-22)	G-R – BR	Idling	0.5 – 4.5

## DIAGNOSTICS – ECD SYSTEM (1CD-FTV)

EGR+A (E11-6) – E1 (E11-22)	R – BR	Idling	Pulse generation (See page 05-243)
EGR-A (E11-5) – E1 (E11-22)	Y-G – BR	Idling	Pulse generation (See page 05-243)
EGR+B (E11-4) – E1 (E11-22)	L-O – BR	Idling	Pulse generation (See page 05-243)
EGR-B(E11-3) – E1 (E11-22)	B-Y – BR	Idling	Pulse generation (See page 05-243)
PCV1 (E11-9) – E1 (E11-22)	G – BR	Idling	Pulse generation (See page 05-251)
PCV2 (E11-8) – E1 (E11-22)	B – BR	Idling	Pulse generation (See page 05-251)
HSW*1 (E8-25) – E1 (E11-22)	P-L – BR	Heater idle up switch ON	0 – 3.0
HSW*1 (E8-25) – E1 (E11-22)	P-L – BR	Heater idle up switch OFF	9 – 14

\*1: LHD

\*2: RHD