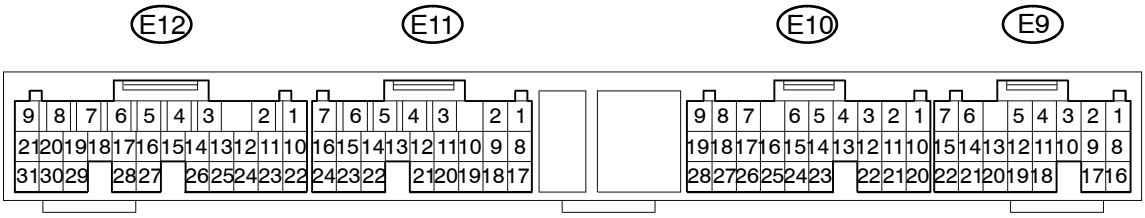
TERMINALS OF ECM

054T8–07

ECM Terminals



Y

A09639

Symbols (Terminal No.)	Wiring Color	Condition	STD Voltage (V)
BATT (E9–2) – E1 (E12–22)	L – BR	Always	9 – 14
+B (E9–1) – E1 (E12–22)	B – BR	IG switch ON	9 – 14
VC (E11–21) – E2 (E11–20)	R–W – BR	IG switch ON	4.5 – 5.5
VCPA (E10–8) – EPA (E10–27)	LG–R – BR–W	IG switch ON	4.5 – 5.5
VPA (E10–19) – EPA (E10–27)	W–L – BR–W	IG switch ON Accelerator pedal released	0.6 – 1.3
VPA (E10–19) – EPA (E10–27)	W–L – BR–W	IG switch ON Accelerator pedal depressed	2.8 – 4.5
VPA2 (E10–28) – EPA (E10–27)	GR–G – BR–W	IG switch ON Accelerator pedal released	1.4 – 2.1
VAP2 (E10–28) – EPA (E10–27)	GR–G – BR–W	IG switch ON Accelerator pedal depressed	3.6 – 4.5
PIM (E11–16) – E2 (E11–20)	L–B – BR	Apply vacuum 40 kPa (300 mmHg, 11.8 in.Hg)	1.0 – 1.8
PIM (E11–16) – E2 (E11–20)	L–B – BR	Apply vacuum 135 kPa (1,000 mmHg, 39.4 in.Hg)	2.3 – 3.2
THA (E11–22) – E2 (E11–20)	B–L – BR	Idling, air intake temp. 0°C (32°F) to 60°C (140°F)	0.2 – 3.8
THW (E11–14) – E2 (E11–20)	R–L – BR	Idling, engine coolant temp. 60°C (140°F) to 120°C (248°F)	0.1 – 1.5
THF (E11–24) – E2 (E11–20)	G–B – BR	IG switch ON (at engine cold)	0.5 – 3.8
IGSW (E9–9) – E1 (E12–22)	B–O – BR	IG switch ON	9 – 14
STA (E10–6) – E1 (E12–22)	B–Y – BR	Cranking	6.0 or more
NE+ (E12–17) – NE– (E12–28)	B – W	Idling	Pulse generation (See page 05–321)
TDC+ (E12–16) – TDC– (E12–27)	V – P	Idling	Pulse generation (See page 05–318)
SP1 (E10–22) – E1 (E12–22)	V–R – BR	IG switch ON, Rotate driving wheel slowly	Pulse generation (See page 05–370)
TCV (E12–5) – E1 (E12–22)	R–W – BR	IG switch ON	9 – 14
TCV (E12–5) – E1 (E12–22)	R–W – BR	Idling	Pulse generation (See page 05–323)
STP (E10–14) – E1 (E12 – 22)	G–Y – BR	IG switch ON, Brake pedal depressed	7.5 – 14
STP (E10–14) – E1 (E12 – 22)	G–Y – BR	IG switch ON, Brake pedal released	Below 1.5
ST1– (E10–23) – E1 (E12 – 22)	R–L – BR	IG switch ON, Brake pedal depressed	Below 1.5
ST1– (E10–23) – E1 (E12 – 22)	R–L – BR	IG switch ON, Brake pedal released	7.5 – 14
MREL (E9–7) – E01 (E12–21)	W–G – W–B	IG switch ON	9 – 14
AC1 (E10–4) – E1 (E12–22)	Y–R – BR	A/C switch ON (at idling)	0 – 1.5
AC1 (E10–4) – E1 (E12–22)	Y–R – BR	A/C switch OFF	9 – 14
TAC (E10–2) – E1 (E12–22)	B–W – BR	Idling	Pulse generation
SREL (E9–16) – E01 (E12–21)	R – W–B	IG switch ON	9 – 14

W (E9–12) – E01 (E12–21)	R–B – W–B	Check engine warning light lights up	0 – 3
W (E9–12) – E01 (E12–21)	R–B – W–B	Except check engine warning light lights up	9 – 14
GIND (E9–3) – E01 (E12–21)	Y–R – W–B	Glow indicator light lights up	0 – 3
GIND (E9–3) – E01 (E12–21)	Y–R – W–B	Except glow indicator light lights up	9 – 14
DATA (E11–13) – E1 (E12–22)	V – BR	For 0.5 sec. after IG switch ON	Pulse generation
CLK (E11–12) – E1 (E12–22)	P – BR	For 0.5 sec. after IG switch ON	Pulse generation
ACT (E10–13) – E1 (E12–22)	Y–G – BR	IG switch ON	9 – 14
ACT (E10–13) – E1 (E12–22)	Y–G – BR	At A/C cut controlled (Driving below 30 km/h, accelerator pedal fully opened for 5 sec.)	0 – 3
LU+A (E12–20) – E01 (E12–21)	L–B – W–B	IG switch ON	Pulse generation (See page 05–327)
LU–A (E12–30) – E01 (E12–21)	L–W – W–B	IG switch ON	Pulse generation (See page 05–327)
LU+B (E12–19) – E01 (E12–21)	L–R – W–B	IG switch ON	Pulse generation (See page 05–327)
LU–B (E12–29) – E01 (E12–21)	L–Y – W–B	IG switch ON	Pulse generation (See page 05–327)
TC (E9–18) – E1 (E12–22)	P–L – BR	IG switch ON	9 – 14
SIL (E9–19) – E1 (E12–22)	R–Y – BR	Connect hand–held tester to DLC3	Pulse generation
IMI (E11–7) – E1 (E12–22)	W–R – BR	Idling	Pulse generation
IMO (E9–15) – E1 (E12–22)	L–R – BR	A few sec. after engine staring	Pulse generation
SPV+ (E12–7) – E1 (E12–22)	R–L – BR	IG switch ON	9 – 14
SPV+ (E12–7) – E1 (E12–22)	R–L – BR	Idling after warming up	Pulse generation
SPV– (E12–6) – E1 (E12–22)	R–Y – BR	Idling after warming up	Pulse generation
HSW (E10–1) – E1 (E12–22)	G–Y – BR	Heater idle up switch ON	0 – 3
HSW (E10–1) – E1 (E12–22)	G–Y – BR	Heater idle up switch OFF	9 – 14
EGR (E12–4) – E01 (E12–21)	G–B – W–B	IG switch ON	9 – 14
EGR (E12–4) – E01 (E12–21)	G–B – W–B	EGR ON	Pulse generation (See page 05–386)
EGRC (E12–2) – E01 (E12–21)	P–L – W–B	IG switch ON	0 – 3
EGRC (E12–2) – E01 (E12–21)	P–L – W–B	Maintain engine speed at 1500 rpm after warming up	9 – 14
EGLS (E11–23) – E2 (E11–20)	L–W – BR	IG switch ON	0.6 – 1.4