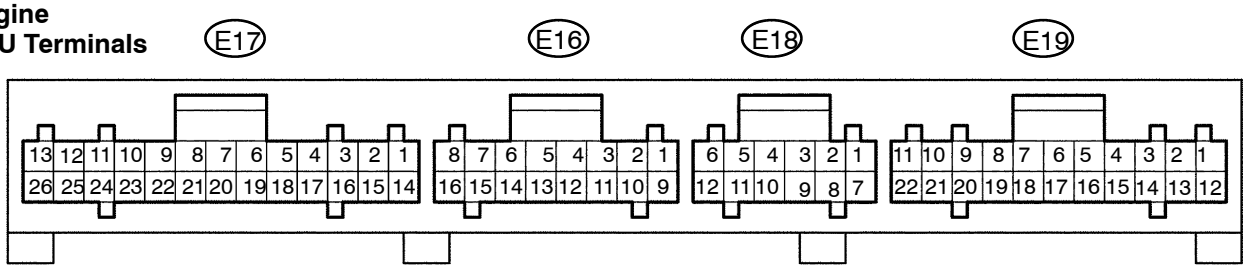
DI31M–02

TERMINALS OF ECU

Engine ECU Terminals



A02958

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
BATT (E19–1) – E1 (E17–14)	B–R – BR	Always	9 ~ 14
+ B (E19–12) – E1 (E17–14)	B–Y – BR	IG switch ON	9 ~ 14
VC (E16–1) – E2 (E16–9)	L–R – BR–W	IG switch ON	4.5 ~ 5.5
VCC (E18–6) – E2C (E18–4)	L–R – BR–W	IG switch ON	4.5 ~ 5.5
VA (E18–5) – E2C (E18–4)	R–Y – BR–W	Accelerator pedal fully closed	0.6 ~ 1.3
		Accelerator pedal fully opened	2.8 ~ 4.5
VAS (E18–12) – E2C (E18–4)	P–L – BR–W	Accelerator pedal fully closed	0.6 ~ 1.3
		Accelerator pedal fully opened	2.8 ~ 4.5
IDL (E18–9) – E2C (E18–4)	LG–B – BR–W	Accelerator pedal fully closed	9 ~ 14
		Accelerator pedal fully opened	0 ~ 3
PIM (E16–2) – E2 (E16–9)	P–L – BR–W	Apply vacuum 40 kPa (300 mmHg, 11.8 in.Hg)	1.0 ~ 1.8
		Apply vacuum 135 kPa (1,000 mmHg, 39.4 in.Hg)	2.3 ~ 4.2
THA (E16–3) – E2 (E16–9)	W–G – BR–W	Idling, air intake temp. 0°C (32°F) to 60°C (140°F)	0.2 ~ 3.8
THW (E16–4) – E2 (E16–9)	G–B – BR–W	Idling, engine coolant temp. 60°C (140°F) to 120°C (248°F)	0.1 ~ 1.5
THF (E16–5) – E2 (E16–9)	B–R – BR–W *1	IG switch ON (at engine cold)	0.5 ~ 3.8
	G–R – BR–W *2		
STA (E19–11) – E1 (E17–14)	B–W – BR	Cranking	6.0 or more
TDC+ (E17–17) – TDC– (E17–16)	B – W	Idling	Pulse generation (See page DI–21)
NE+ (E17–19) – NE– (E17–18)	L – G	Idling	Pulse generation (See page DI–21)
SP1 (E19–9) – E1 (E17–14)	V – BR	IG switch ON Rotate driving wheel slowly	Pulse generation
TCV (E17–11) – E01 (E17–13)	R–Y – W–B	IG switch ON	9 ~ 14
		Idling	Pulse generation (See page DI–24)
SPVD (E17–12) – E1(E17–14)	L–Y – BR	IG switch ON	9 ~ 14
SPVF (E17–25) – E1 (E17–14)	L–R – BR	Idling	Pulse generation (See page DI–71)
EGR (E17 – 24) – E01 (E17–13)	R–G – W–B	IG switch ON	9 ~ 14
		EGR ON	Pulse generation (See page DI–85)

*1: LHD
*2: RHD

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
S/TH (E17–10) – E01 (E17–13)	W–L – W–B	VSV OFF (idling)	9 ~ 14
		VSV ON (after IG switch OFF for 2 sec.)	0 ~ 3
PA (E17–9) – E01 (E17–13)	W–R – W–B	VSV for atmospheric pressure leaning OFF	9 ~ 14
		VSV for atmospheric pressure leaning ON	0 ~ 3
MREL (E19–3) – E01 (E17–13)	B–W – W–B	IG switch ON	9 ~ 14
IGSW (E19–14) – E1 (E17–14)	B–R – BR	IG switch ON	9 ~ 14
AC1 (E18–2) – E1 (E17–14)	W–G – BR	A/C switch ON (at idling)	0 ~ 1.5
		A/C switch OFF	9 ~ 14
ACT (E18–8) – E1 (E17–14)	L–B – BR	IG switch ON	9 ~ 14
		At A/C cut controlled (Driving below 30 km/h, accelerator pedal fully opened for 5 sec.)	0 ~ 3
PDL (E18–3) – E1 (E17–14)	GR – BR	Accelerator pedal fully closed	9 ~ 14
		Accelerator pedal fully opened	0 ~ 3
TAC (E18–7) – E1 (E17–14)	B – BR	Idling	Pulse generation
TC (E19–4) – E1 (E17–14)	P–B – BR	IG switch ON	9 ~ 14
W (E19–5) – E1 (E17–14)	W – BR	Check engine warning light lights up	0 ~ 3
		Except check engine warning light lights up	9 ~ 14
G–IND (E18–1) – E1 (E17–14)	Y–R – BR	Glow indicator light lights up	0 ~ 3
		Except glow indicator light lights up	9 ~ 14
DATA (E16–6) – E1 (E17–14)	G–B – BR	For 0.5 sec. after IG switch ON	Pulse generation
CLK (E16–14) – E1 (E17–14)	G–W – BR	For 0.5 sec. after IG switch ON	Pulse generation
THWO (E19–8) – E1 (E17–14)	Y–B – BR	IG switch ON	Pulse generation (See page DI–96)
EGRC (E17–3) – E1 (E17–14)	R – BR	IG switch ON	0 ~ 3
		Maintain engine speed at 1500 rpm after warming up	9 ~ 14
IREL (E19–2) – E1 (E17–14)	G–Y – BR	IG switch ON	0 ~ 3
		At intake heater ON	9 ~ 14
SPVD (E17–12) – E1 (E17–14)	L–Y – BR	Idling	Pulse generation (See page DI–71)
VCH (E17–23) – E1 (E17–14)	Y–R – BR	Heater blower switch ON	0 ~ 3
		Heater blower switch OFF	9 ~ 14
SVR (E19–13) – E1 (E17–14)	L–W – BR	IG switch ON	0 ~ 1.5
VCT (E16–7) – E1 (E17–14)	L–B – BR	Heater blower switch ON	0 ~ 3
		Heater blower switch OFF	9 ~ 14
HSW (E19–20) – E1 (E17–14)	B–L – BR	Push on power heater switch	0 ~ 3
		Push off power heater switch	9 ~ 14
FSW (E17–7) – E1 (E17–14)	R–L – BR	At shift position in first position	9 ~ 14
		At other shift position in first position	0 ~ 3
PS (E16–8) – E1 (E17–14)	P – BR	Idling, Turn steering wheel	0 ~ 3
		IG switch ON	9 ~ 14
SIL (E19–15) – E1 (E17–14)	V–W – BR	Connect hand–held tester to DLC3	Pulse generation
IMI (E19–17) – E1 (E17–14)	L–B – BR	Idling	Pulse generation
IMO (E19–6) – E1 (E17–14)	L–R – BR	A few sec. after engine staring	Pulse generation