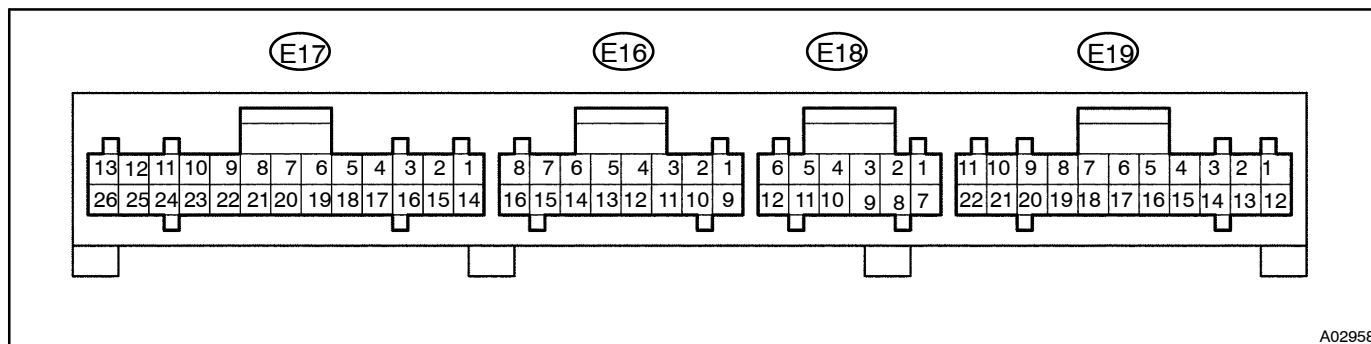


# TERMINALS OF ECU



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 – 3.2                                               |
| THOP (E16-15) – E1 (E17-14)   | GR – BR      | Accelerator pedal fully closed                           | 9 – 14                                                  |
|                               |              | Accelerator pedal fully Opened                           | 0 – 3                                                   |
| THAF (E18-11) – E2 (E16-9)    | Y-B – BR-W   | Atmospheric temp                                         | 0.2 – 3.8                                               |
| 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 – 1.2                                                 |
| THF (E16-5) – E2 (E16-9)      | G-R – BR-W   | IG switch ON (at engine cold)                            | 1.5 – 3.4                                               |
| VG (E16-10) – EVG (E16-11)    | V-R – B      | Idling, A/C switch OFF                                   | 0.2 – 4.9                                               |
| STA (E19-11) – E1 (E17-14)    | B-R – BR     | Cranking                                                 | 6.0 or more                                             |
| TDC+ (E17-17) – TDC- (E17-16) | B – W        | Idling                                                   | Pulse generation<br>(See Pub. No. RM617E on page DI-21) |
| NE+ (E17-19) – NE- (E17-18)   | L – G        | Idling                                                   | Pulse generation<br>(See Pub. No. RM617E on page DI-21) |
| SP1 (E19-9) – E1 (E17-14)     | V – BR       | IG switch ON<br>Rotate driving wheel slowly              | Pulse generation                                        |
| VNT (E17-20) – E01 (E17-13)   | B – W-B      | IG switch ON                                             | 9 – 14                                                  |
|                               |              | Idling                                                   | Pulse generation<br>(See page DI-38)                    |
| TCV (E17-11) – E01 (E17-13)   | R-Y – W-B    | IG switch ON                                             | 9 – 14                                                  |
|                               |              | Idling                                                   | Pulse generation<br>(See Pub. No. RM617E on page DI-24) |
| SPVD (E17-12) – E1(E17-14)    | L-Y – BR     | IG switch ON                                             | 9 – 14                                                  |

## DIAGNOSTICS – ENGINE (European Spec.)

|                                |           |                                                                                                |                                                            |
|--------------------------------|-----------|------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| SPVF (E17-25) – E1 (E17-14)    | L-R – BR  | Idling                                                                                         | Pulse generation<br>(See Pub. No. RM617E<br>on page DI-71) |
| EGR (E17-24) – E01<br>(E17-13) | R-G – W-B | IG switch ON                                                                                   | 9 – 14                                                     |
|                                |           | EGR ON                                                                                         | Pulse generation<br>(See Pub. No. RM617E<br>on page DI-85) |
| PA (E16-16) – 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<br>(Driving below 30 km/h, accelerator pedal fully opened for<br>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                                                     |
| GIND (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)     | LG – BR   | For 0.5 sec. after IG switch ON                                                                | Pulse generation                                           |
| CLK (E16-14) – E1 (E17-14)     | L – 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<br>(See Pub. No. RM617E<br>on page DI-96) |
| LU+A (E17-10) – E1<br>(E17-14) | G-R – BR  | IG switch ON                                                                                   | Pulse generation                                           |
| LU-A (E17-9) – E1<br>(E17-14)  | G-W – BR  | IG switch ON                                                                                   | Pulse generation                                           |
| LU+B (E17-8) – E1<br>(E17-14)  | V – BR    | IG switch ON                                                                                   | Pulse generation                                           |
| LU-B (E17-7) – E1<br>(E17-14)  | G – BR    | IG switch ON                                                                                   | Pulse generation                                           |
| EGRC (E17-3) – E1 (E17-14)     | R – BR    | IG switch ON                                                                                   | 9 – 14                                                     |
|                                |           | Maintain engine speed at 1500 rpm after warming up                                             | 0 – 3                                                      |
| SREL (E19-2) – E1 (E17-14)     | G-Y – BR  | When more than 20 sec. passes after IG switch is turned ON                                     | 0 – 3                                                      |
|                                |           | At intake heater ON                                                                            | 9 – 14                                                     |
| SPVD (E17-12) – E1 (E17-14)    | L-Y – BR  | Idling                                                                                         | Pulse generation<br>(See Pub. No. RM617E<br>on page DI-71) |
| VCH (E17-23) – E1 (E17-14)     | Y-R – BR  | Heater blower switch ON                                                                        | 9 – 14                                                     |
|                                |           | Heater blower switch OFF                                                                       | 0 – 3                                                      |
| SVR (E19-13) – E1 (E17-14)     | L-W – BR  | IG switch ON                                                                                   | 9 – 14                                                     |

|                            |          |                                           |                  |
|----------------------------|----------|-------------------------------------------|------------------|
| 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 (E17-5) – 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 starting          | Pulse generation |