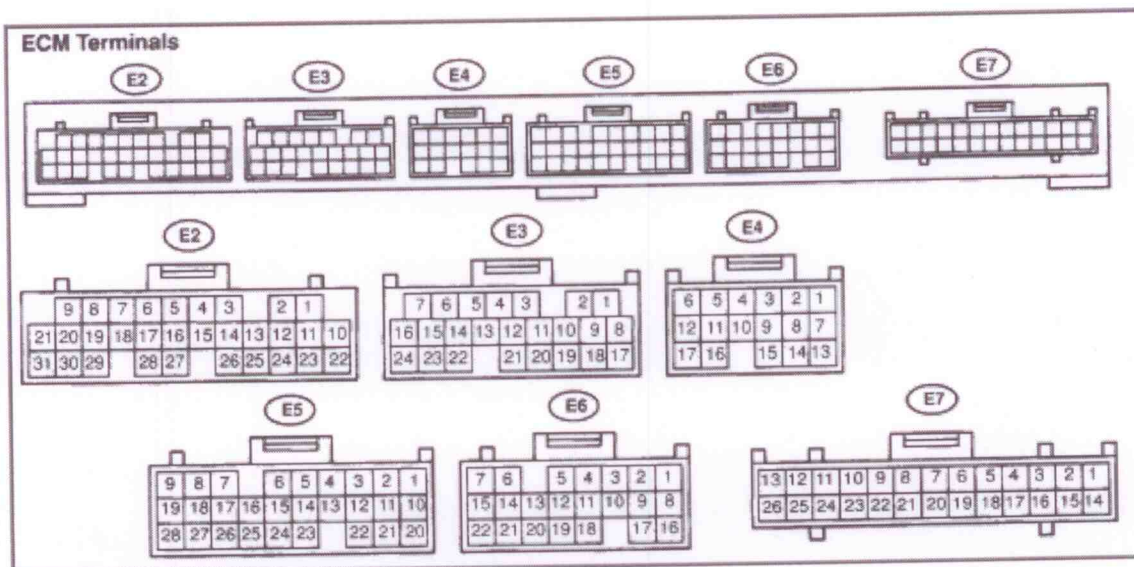


1999 Lexus GS 300 L6-3.0L (2JZ-GE)

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Engine Control Module



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Part 1 Of 3

| Symbols (Terminal No.) | Wiring Color | Condition | STD Voltage (V) |
|---------------------------|--------------|---|-----------------|
| BATT (E6-1) - E1 (E3-17) | B-Y ↔ BR | Always | 9 - 14 |
| BM (E6-7) - E1 (E3-17) | V-Y ↔ BR | | |
| IGSW (E6-9) - E1 (E3-17) | B-O ↔ BR | IG switch ON | 9 - 14 |
| +B (E6-16) - E1 (E3-17) | B-R ↔ BR | | |
| B2 (E6-8) - E1 (E3-17) | B-R ↔ BR | | |
| VC (E3-2) - E2 (E3-18) | L-Y ↔ BR | IG switch ON | 4.5 - 5.5 |
| VTA (E3-23) - E2 (E3-18) | Y-G ↔ BR | IG switch ON Accelerator pedal released | 0.4 - 1.0 |
| | | IG switch ON Accelerator pedal depressed | 3.2 - 4.8 |
| VTA2 (E3-24) - E2 (E3-18) | Y-R ↔ BR | IG switch ON Accelerator pedal released | 2.0 - 2.9 |
| | | IG switch ON Accelerator pedal depressed | 4.6 - 5.1 |
| VPA (E3-15) - E2 (E3-18) | L ↔ BR | IG switch ON Accelerator pedal released | 0.3 - 0.9 |
| | | IG switch ON Accelerator pedal depressed | 3.2 - 4.8 |
| VPA2 (E3-16) - E2 (E3-18) | L-R ↔ BR | IG switch ON Accelerator pedal released | 1.8 - 2.7 |
| | | IG switch ON Accelerator pedal depressed | 4.7 - 5.1 |
| VG (E3-10) - EVG (E3-19) | R-L ↔ GR | Idling, P or N position, A/C switch OFF | 1.1 - 1.5 |
| THA (E3-22) - E2 (E3-18) | W-R ↔ BR | Idling, intake air temp. 20°C (68°F) | 0.5 - 3.4 |
| THW (E3-14) - E2 (E3-18) | B-R ↔ BR | Idling, Engine coolant temp. 80°C (176°F) | 0.2 - 1.0 |
| STA (E5-2) - E1 (E3-17) | B ↔ BR | Shift lever position P or N position, ignition switch START | 9 - 14 |

Zoom

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Part 2 Of 3

| Symbols (Terminal No.) | Wiring Color | Condition | STD Voltage (V) |
|--|--|---|---------------------------------------|
| #10 (E3-5) - E01 (E2-21) #20 (E3-6) - E01 (E2-21) #30 (E2-1) - E01 (E2-21) #40 (E2-2) - E01 (E2-21) #50 (E2-3) - E01 (E2-21) #60 (E2-4) - E01 (E2-21) | Y ↔ W-B B-W ↔ W-B L ↔ W-B R ↔ W-B W ↔ W-B R-L ↔ W-B | IG switch ON Idling | 9 - 14 Pulse generation |
| IGT (E2-11) - E1 (E3-17) IGT2 (E2-12) - E1 (E3-17) IGT3 (E2-13) - E1 (E3-17) | B-Y ↔ BR B-L ↔ BR B-R ↔ BR | Idling | Pulse generation |
| IGF (E2-25) - E1 (E3-17) | B ↔ BR | IG switch ON | 4.5 - 5.5 |
| | | Idling | Pulse generation |
| G2 (E2-10) - NE- (E2-22) | Y ↔ L | Idling | Pulse generation |
| NE (E2-23) - NE- (E2-22) | W ↔ L | | |
| MREL (E6-10) - E1 (E3-17) | B-Y ↔ BR | IG switch ON | 9 - 14 |
| FPC (E6-5) - E1 (E3-17) | B-L ↔ BR | IG switch ON | Below 1.5 |
| | | Idling | Pulse generation (0 and 4.5 - 5.5) |
| DI (E6-4) - E1 (E3-17) | B-R ↔ BR | Idling | 7.0 or more |
| STP (E5-6) - E1 (E3-17) | G-W ↔ BR | Brake pedal is depressed | 7.5 - 14 |
| | | Brake pedal is released | Below 1.5 |
| PRG (E3-7) - E01 (E2-21) | B-Y ↔ W-B | IG switch ON | 9 - 14 |
| TPC (E7-13) - E01 (E2-21) | W-R ↔ W-B | IG switch ON | 9 - 14 |
| PTNK (E5-18) - E2 (E3-18) | L-Y ↔ BR | Ignition switch ON | 2.9 - 3.7 |
| | | Apply vacuum 4.0 kPa (30 mmHg, 1.1 in.Hg) | Below 0.5 |
| OX1A (E3-12) - E2 (E3-18) OX1B (E5-8) - E2 (E3-18) OX2A (E3-11) - E2 (E3-18) OX2B (E7-24) - E2 (E3-18) | B ↔ BR W ↔ BR W ↔ BR R ↔ BR | Maintain engine speed at 2,500 rpm for 2 minutes after warming up | Pulse generation |
| HT1A (E3-4) - E01 (E2-21) HT1B (E7-26) - E01 (E2-21) HT2A (E3-3) - E01 (E2-21) HT2B (E7-25) - E01 (E2-21) | R ↔ W-B GR ↔ W-B Y ↔ W-B GR-B ↔ W-B | Idling | Below 3.0 |
| | | IG switch ON | 9 - 14 |
| KNK1 (E2-28) - E1 (E3-17) | B ↔ BR | Maintain engine speed at 4,000 rpm after warming up | Pulse generation |
| KNK2 (E2-27) - E1 (E3-17) | GR ↔ BR | | |
| TC (E5-5) - E1 (E3-17) | P-B ↔ BR | IG switch ON | 9 - 14 |
| W (E6-6) - E01 (E2-21) | GR-R ↔ W-B | Idling | 9 - 14 |
| | | IG switch ON | Below 3.0 |
| ACMG (E5-13) - E01 (E2-21) | L-O ↔ W-B | A/C switch ON (at idling) | Below 3.0 |
| | | A/C switch OFF | 9 - 14 |
| OCV+ (E2-18) - OCV- (E2-17) | W-R ↔ R-W | IG switch ON | Pulse generation |
| ACIS (E2-5) - E01 (E2-21) | B-L ↔ W-B | IG switch ON | 9 - 14 |
| | | Engine speed between 2,500 and 4,000 rpm | Below 3.0 |
| CL+ (E2-20) - CL- (E2-19) | G-R ↔ Y-R | Idling | Pulse generation |

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Part 3 Of 3

| Symbols (Terminal No.) | Wiring Color | Condition | STD Voltage (V) |
|--|------------------|--------------------|------------------|
| M+ (E2-8) - E1 (E3-17) M- (E2-7) - E1 (E3-17) | W ↔ BR B ↔ BR | Idling | Pulse generation |
| SIL (E6-11) - E1 (E3-17) | W ↔ BR | IG switch ON | 9 - 14 |
| SP2+ (E4-5) - SP2- (E4-11) | L-Y ↔ R-L | Vehicle is driving | Pulse generation |

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