

SERVICE HINTS

C/OPN RELAY

3-5 : Closed with the starter running and engine running

EFI RELAY

5-3 : Closed with the ignition SW at ON or ST position

E4 (A), E5 (B), E6 (C), E7 (D), E8 (E) ENGINE CONTROL MODULE

Voltage at engine control module wiring connector

BATT-E1 : Always 9.0-14.0 volts

+B-E1 : 9.0-14.0 volts (Ignition SW at ON position)

VC-E1 : Always 4.5-5.5 volts (Ignition SW at ON position)

VTA1-E1 : 0.3-0.8 volts (Ignition SW on and throttle valve fully closed)

3.2-4.9 volts (Ignition SW on and throttle valve fully open)

VG-E1 : 4.0-5.5 volts (Ignition SW at ON position)

THA-E1 : 0.5-3.4 volts (Ignition SW on and intake air temp. 20°C, 68°F)

THW-E1 : 0.2-1.0 volts (Engine idling and coolant temp. 80°C, 176°F)

IGF-E1 : 4.5-5.5 volts (Ignition SW at ON position)

Pulse generation (Engine idling)

STA-E1 : 9.0-14.0 volts (Ignition SW on and other shift position in P or N position)

Below 3.0 volts (Ignition SW on and shift position in P or N position)

SPD-E1 : Pulse generation (Ignition SW on and rotate driving wheel slowly)

W-E1 : Below 3.0 volts (Malfunction indicator lamp on)

9.0-14.0 volts (Malfunction indicator lamp off and engine running)

A/C-E1 : Below 1.5 volts (Engine idling and A/C SW on)

7.5-14.0 volts (A/C SW off)

ACIS-E01 : 9.0-14.0 volts (Ignition SW at ON position)

NSW-E1 : 6.0 volts or more (Engine cranking)

RSO-E1 : Pulse generation (Engine idling and A/C operation)

KNKL, KNKR-E1 : Pulse generation (Engine idling)

HTS, HAFL, HAFR-E01 :

9.0-14.0 volts (Ignition SW at ON position)

0-3.0 volts (Engine idling)

OXS, AFL+, AFR+-E1 : Pulse generation (Maintain engine speed at 2500 rpm for two minutes after warming up)

IGT1, IGT2, IGT3, IGT4, IGT5, IGT6-E1 : Pulse generation (Engine idling)

#10, #20, #30, #40, #50, #60-E01 : 9.0-14.0 volts (Ignition SW at ON position)

Pulse generation (Engine idling)

I8, I9, I10, I11, I12, I13 INJECTOR

2-1 : Approx. 13.8 Ω

T3 THROTTLE POSITION SENSOR

2-1 : 3.75 kΩ

Engine Control 1mz Manual

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