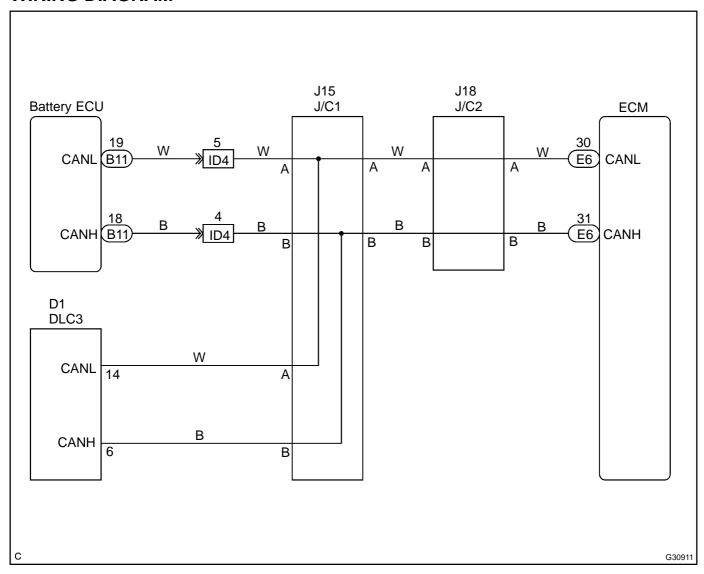
# CHECK CAN MAIN BUS LINE FOR DISCONNECTION

### **CIRCUIT DESCRIPTION**

There may be an open circuit in the CAN bus main line and/or the DLC3 sub bus line when the resistance between terminals 6 (CANH) and 14 (CANL) of the DLC3 is 69  $\Omega$  or more.

Symptom	Trouble Area
Resistance between terminals 6 (CANH) and 14 (CANL) of the DLC3 is 69 $\Omega$ or more.	CAN main bus line or connector Junction connector (J/C1) Junction connector (J/C2) DLC3 sub bus line or connector ECM Battery ECU

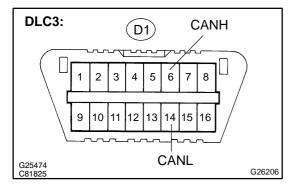
### **WIRING DIAGRAM**



2004 Prius - Preliminary Release (RM1075U)

### INSPECTION PROCEDURE

# 1 CHECK DLC3



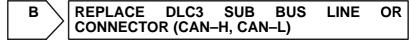
- (a) Turn the power switch off.
- (b) Measure the resistance according to the value(s) in the table below.

#### Result:

Tester connec- tion	Condition	Specified value	Result
D1-6 (CANH) - D1-14 (CANL)	Power Switch OFF	108 to 132 Ω	А
D1-6 (CANH) - D1-14 (CANL)	Power Switch OFF	132 Ω or more	В

#### **NOTICE:**

When the measured value is 132  $\Omega$  or more and the CAN communication system diagnostic code is output, there may be a fault besides disconnection of the DLC3 sub bus line. For that reason, troubleshooting should be performed again from "HOW TO PROCEED WITH TROUBLESHOOT-ING" (see page 05–2602) after repairing the trouble area.





# 2 | CHECK CAN MAIN BUS LINE FOR DISCONNECTION(BUS CHECK)

(a) Perform "BUS CHECK" using the hand-held tester via CAN VIM (see page 05–2616).

Result:

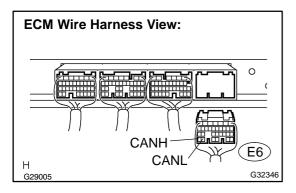
Specified Value	Result
Only "ENGINE" is not displayed	A
Only "HV BATTERY" is not displayed	В
Other	С

B Go to step 4

C Go to step 5

Α

# 3 | CHECK CAN MAIN BUS LINE FOR DISCONNECTION(ECM – J/C2)



- (a) Disconnect the ECM connector (E6).
- (b) Measure the resistance according to the value(s) in the table below.

### Standard:

Tester connection	Condition	Specified value
E6-31 (CANH) - E6-30 (CANL)	Power Switch OFF	108 to 132 Ω

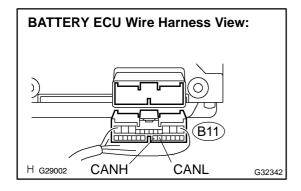


REPLACE CAN MAIN BUS LINE OR CONNECTOR (ECM - J/C2)



### REPLACE ECM (SEE PAGE 10-24)

# 4 CHECK CAN MAIN BUS LINE FOR DISCONNECTION(BATTERY ECU – J/C1)



- (a) Disconnect the battery ECU connector (B11).
- (b) Measure the resistance according to the value(s) in the table below.

#### Standard:

Tester connection	Condition	Specified value
B11–18 (CANH) – B11–19 (CANL)	Power Switch OFF	108 to 132 Ω

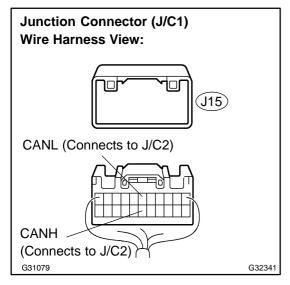
NG \

REPLACE CAN MAIN BUS LINE OR CONNECTOR (BATTERY ECU – J/C1)

OK

REPLACE BATTERY ECU ASSY (SEE PAGE 21-98)

# 5 CHECK CAN MAIN BUS LINE FOR DISCONNECTION(J/C1 – ECM)



- (a) Disconnect the J/C1 connector (J15).
- (b) Measure the resistance according to the value(s) in the table below.

### Standard:

Tester connection	Condition	Specified value
J15–17 (CANH) – J15–6 (CANL)	Power Switch OFF	108 to 132 Ω

ING >	Go to step 8
NG	Go to step 8

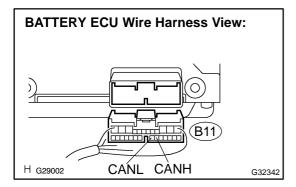
ОК

# 6 CONNECT CONNECTOR

(a) Reconnect the J/C1 connector (J15).



# 7 CHECK CAN MAIN BUS LINE FOR DISCONNECTION(BATTERY ECU – J/C1)



- (a) Disconnect the battery ECU connector (B11).
- (b) Measure the resistance according to the value(s) in the table below.

#### Standard:

Tester connection	Condition	Specified value
B11-18 (CANH) - B11-19 (CANL)	Power Switch OFF	108 to 132 Ω

NG \

REPLACE CAN MAIN BUS LINE OR CONNECTOR (BATTERY ECU – J/C1)

OK

REPLACE BATTERY ECU ASSY (SEE PAGE 21-98)

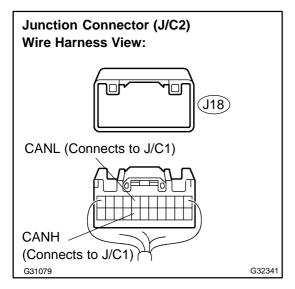
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# 8 CONNECT CONNECTOR

(a) Reconnect the J/C1 connector (J15).



# 9 CHECK CAN MAIN BUS LINE FOR DISCONNECTION(J/C2 – J/C1)



- (a) Disconnect the J/C2 connector (J18).
- (b) Measure the resistance according to the value(s) in the table below.

#### Standard:

Tester connection	Condition	Specified value
J18–18 (CANH) – J18–7 (CANL)	Power Switch OFF	108 to 132 Ω

NG `

REPLACE CAN MAIN BUS LINE OR CONNECTOR (J/C2 – J/C1)

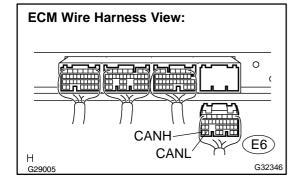
OK

# 10 CONNECT CONNECTOR

(a) Reconnect the J/C2 connector (J18).



# 11 CHECK CAN MAIN BUS LINE FOR DISCONNECTION(ECM – J/C2)



- (a) Disconnect the ECM connector (E6).
- (b) Measure the resistance according to the value(s) in the table below.

### Standard:

Tester connection	Condition	Specified value
E6-31 (CANH) - E6-30 (CANL)	Power Switch OFF	108 to 132 Ω

NG `

REPLACE CAN MAIN BUS LINE OR CONNECTOR

ОК

### REPLACE ECM (SEE PAGE 10-24)