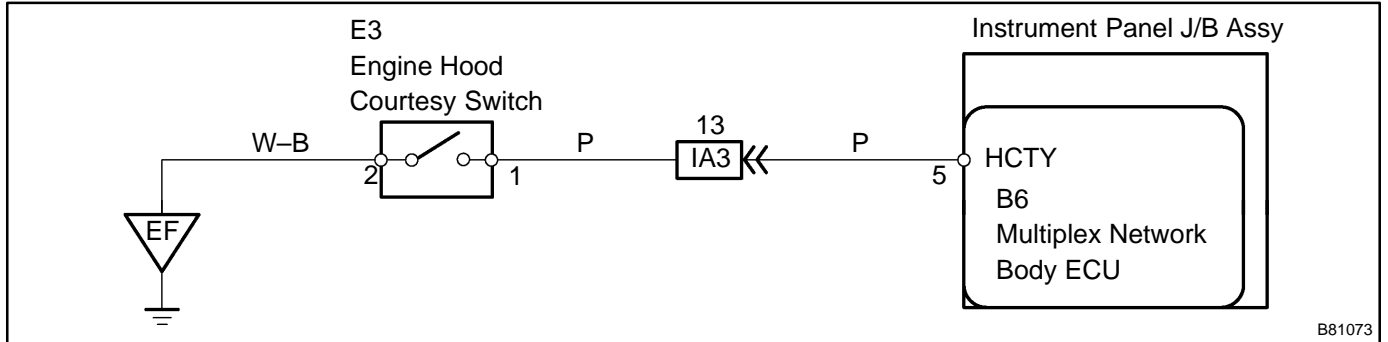


ENGINE HOOD COURTESY SWITCH CIRCUIT

CIRCUIT DESCRIPTION

The engine hood courtesy switch is installed into the hood lock. This switch turns on when the engine hood is opened and turns off when the engine hood is closed.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 READ VALUE OF HAND-HELD TESTER

- (a) Connect the hand-held tester (with CAN VIM) to the DLC3.
- (b) Turn the power switch ON (IG) and press the hand-held tester main switch ON.
- (c) Read the DATA LIST according to the displays on the tester.

Multiplex network body ECU:

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
HOOD COURTESY SW	Engine hood courtesy switch signal/ON OFF	ON: Engine hood is open OFF: Engine hood is closed	-

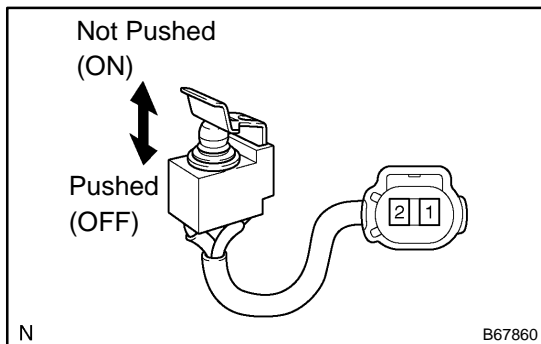
OK: "ON" (engine hood is open) appears on the screen.

NG → Go to step 2

OK

REPLACE POWER SOURCE CONTROL ECU

2 INSPECT ENGINE HOOD COURTESY SWITCH



- (a) Remove the courtesy switch from the hood lock.
- (b) Measure the switch resistance.

Standard:

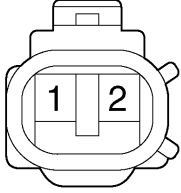
Tester Connection	Condition	Specified Condition
1 - 2	Pushed (OFF)	10 kΩ or higher
1 - 2	Not pushed (ON)	Below 1 Ω

NG → REPLACE ENGINE HOOD COURTESY SWITCH

OK

3 CHECK WIRE HARNESS (ENGINE HOOD COURTESY SWITCH - BODY GROUND)

Wire Harness Side
E3
Engine Hood Courtesy Switch



Y B67849

- (a) Disconnect the E3 switch connector.
- (b) Measure the resistance of the wire harness side connector.

Standard:

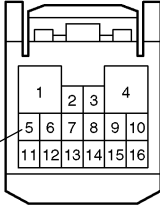
Tester Connection	Specified Condition
E3-2 - Body ground	Below 1 Ω

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

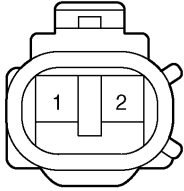
4 CHECK WIRE HARNESS (MULTIPLEX NETWORK BODY ECU - ENGINE HOOD COURTESY SWITCH)

Wire Harness Side
B6
Multiplex Network Body ECU



HCTY

E3
Engine Hood Courtesy Switch



Y B75921

- (a) Disconnect the B6 ECU connector.
- (b) Disconnect the E3 switch connector.
- (c) Measure the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
B6-5 (HCTY) - E3-1	Below 1 Ω
B6-5 (HCTY) - Body ground	10 kΩ or higher

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05-2508)