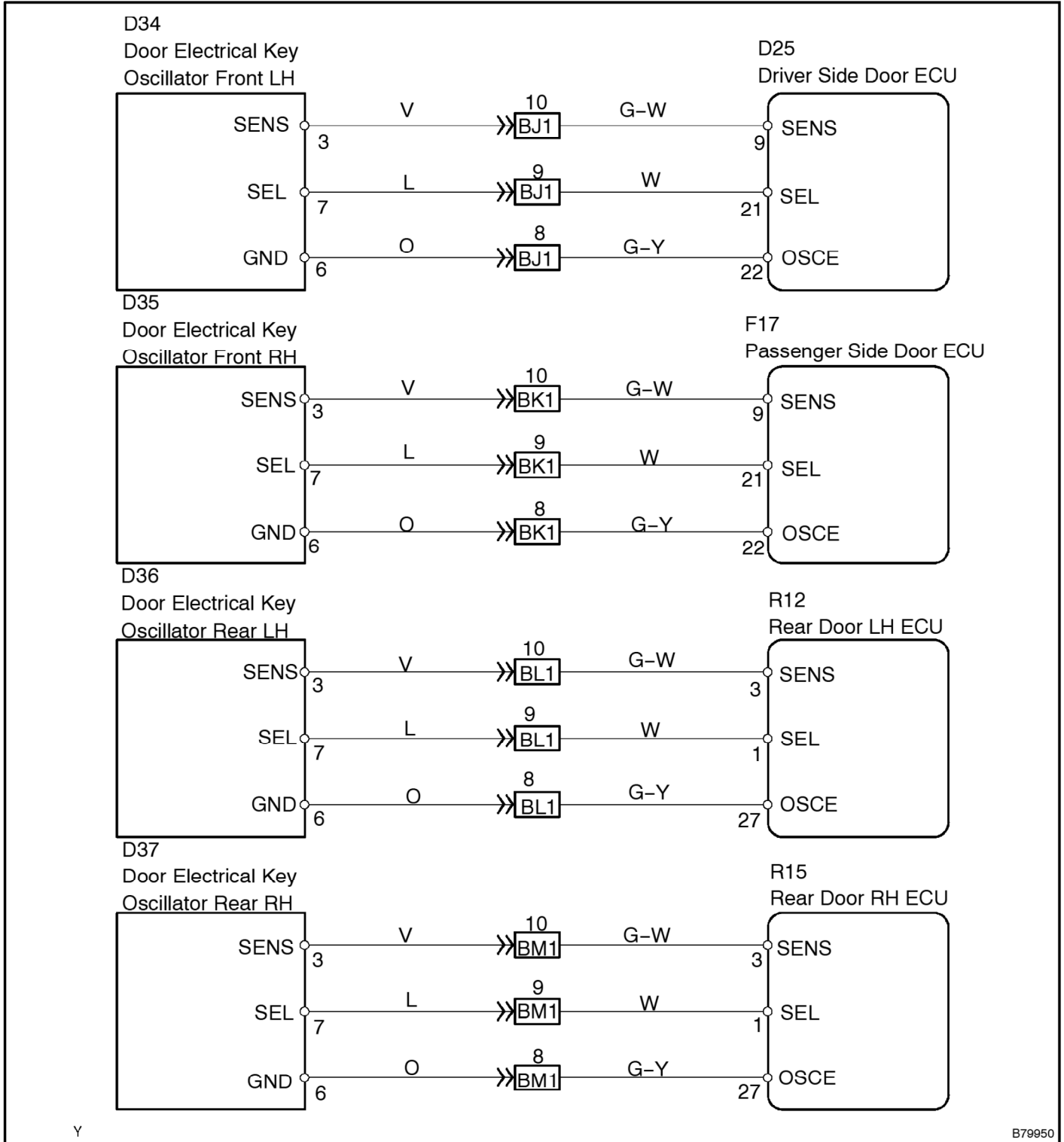


TOUCH SENSOR CIRCUIT

CIRCUIT DESCRIPTION

This circuit receives the signal indicating whether or not a touch sensor signal is detected.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 READ DATA LIST USING HAND-HELD TESTER

- (a) Connect the hand-held tester (with CAN VIM) to the DLC3.
- (b) Turn the ignition switch ON and press the hand-held tester main switch ON.
- (c) Select the items below in the DATA LIST and read the displays on the hand-held tester.

Door ECU (Driver side, Passenger side, Rear LH, Rear RH):

Item	Test Details	Normal Condition	(Diagnostic Note)
TRESPASS SENS	Touch Sensor/ ON or OFF	ON: Touch sensor is touched OFF: Touch sensor is not touched	-

OK: "ON" (sensor is touched) appears on the screen.

NG

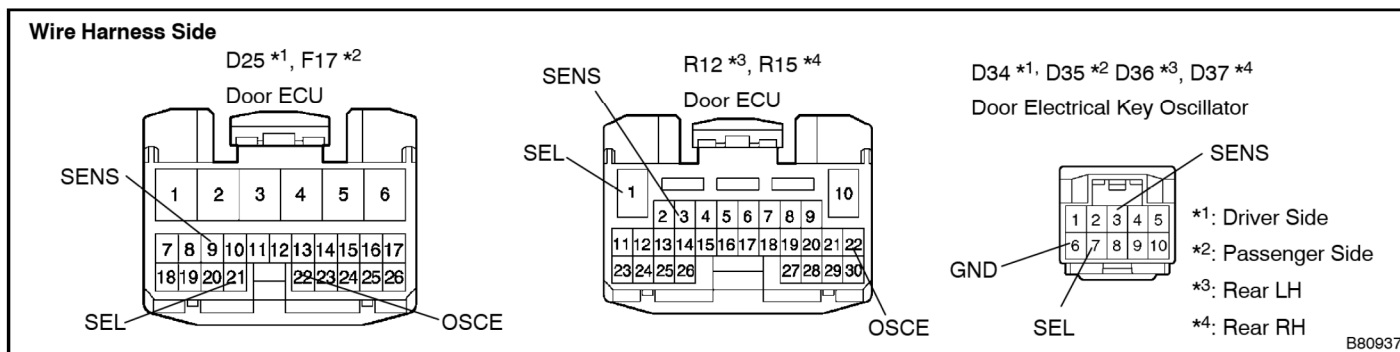
Go to step 2

OK

**PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE
(See page 05-2833)**

2 CHECK WIRE HARNESS (DOOR ELECTRICAL KEY OSCILLATOR - DOOR ECU)

- (a) Disconnect the D25, F17, R12 and R15 door ECU connectors.
 (b) Disconnect the D34, D35, D36 and D37 door oscillator connectors.
 (c) Measure the resistance of the wire harness side connectors.

**Standard:****Driver side**

Tester Connection	Specified Condition
D25-9 (SENS) - D34-3 (SENS)	Below 1 Ω
D25-21 (SEL) - D34-7 (SEL)	Below 1 Ω
D25-22 (OSCE) - D34-6 (GND)	Below 1 Ω
D25-9 (SENS) or D34-3 (SENS) - Body ground	10 k Ω or higher
D25-21 (SEL) or D34-7 (SEL) - Body ground	10 k Ω or higher

Passenger side

Tester Connection	Specified Condition
F17-9 (SENS) - D35-3 (SENS)	Below 1 Ω
F17-21 (SEL) - D35-7 (SEL)	Below 1 Ω
F17-22 (OSCE) - D35-6 (GND)	Below 1 Ω
F17-9 (SENS) or D35-3 (SENS) - Body ground	10 k Ω or higher
F17-21 (SEL) or D35-7 (SEL) - Body ground	10 k Ω or higher

Rear LH

Tester Connection	Specified Condition
R12-3 (SENS) - D36-3 (SENS)	Below 1 Ω
R12-1 (SEL) - D36-7 (SEL)	Below 1 Ω
R12-27 (OSCE) - D36-6 (GND)	Below 1 Ω
R12-3 (SENS) or D36-3 (SENS) - Body ground	10 k Ω or higher
R12-1 (SEL) or D36-7 (SEL) - Body ground	10 k Ω or higher

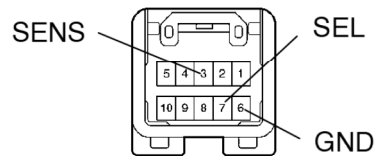
Rear RH

Tester Connection	Specified Condition
R15-3 (SENS) - D37-3 (SENS)	Below 1 Ω
R15-1 (SEL) - D37-7 (SEL)	Below 1 Ω
R15-27 (OSCE) - D37-6 (GND)	Below 1 Ω
R15-3 (SENS) or D37-3 (SENS) - Body ground	10 k Ω or higher
R15-1 (SEL) or D37-7 (SEL) - Body ground	10 k Ω or higher

NG**REPAIR OR REPLACE HARNESS AND CONNECTOR****OK**

3 CHECK DOOR ELECTRICAL KEY OSCILLATOR

D34 *1, D35 *2, D36 *3 or D37 *4
Door Electrical Key Oscillator



- *1: Driver Side
- *2: Passenger Side
- *3: Rear LH
- *4: Rear RH

B80326

- (a) Measure the voltage between wire harness side connectors.

Standard:

Driver side

Tester Connection	Condition	Specified Condition
D34-7 (SEL) - D34-6 (GND)	Smart key placed at least 5 m (16.4 ft) away from door → placed near door	10 to 14 V → 0 V
D34-3 (SENS) - D34-6 (GND)	Outside door handle touched → not touched	10 to 14 V → 0 V

Passenger side

Tester Connection	Condition	Specified Condition
D35-7 (SEL) - D35-6 (GND)	Smart key placed at least 5 m (16.4 ft) away from door → placed near door	10 to 14 V → 0 V
D35-3 (SENS) - D35-6 (GND)	Outside door handle touched → not touched	10 to 14 V → 0 V

Rear LH

Tester Connection	Condition	Specified Condition
D36-7 (SEL) - D36-6 (GND)	Smart key placed at least 5 m (16.4 ft) away from door → placed near door	10 to 14 V → 0 V
D36-3 (SENS) - D36-6 (GND)	Outside door handle touched → not touched	10 to 14 V → 0 V

Rear RH

Tester Connection	Condition	Specified Condition
D37-7 (SEL) - D37-6 (GND)	Smart key placed at least 5 m (16.4 ft) away from door → placed near door	10 to 14 V → 0 V
D37-3 (SENS) - D37-6 (GND)	Outside door handle touched → not touched	10 to 14 V → 0 V

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REPLACE DOOR ELECTRICAL KEY OSCILLATOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE
(See page 05-2833)