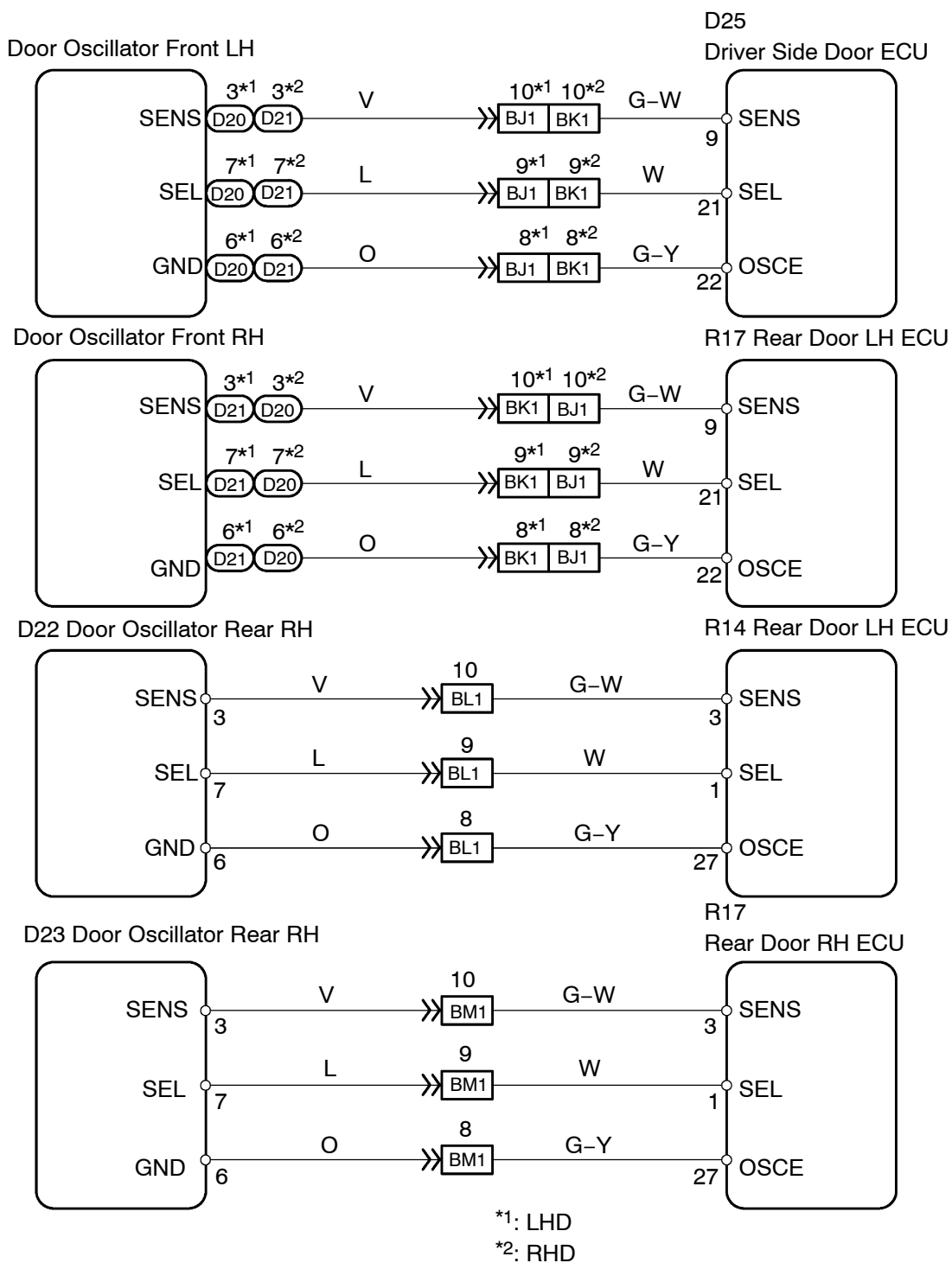


TOUCH SENSOR CIRCUIT

CIRCUIT DESCRIPTION

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

WIRING DIAGRAM



INSPECTION PROCEDURE

1 READ VALUE OF INTELLIGENT TESTER

- (a) Connect the Intelligent Tester II to the DLC3.
- (b) Turn the Ignition switch ON and press the Intelligent Tester II main switch ON.
- (c) Select the items below in the DATA LIST and read the displays on the Intelligent Tester II.

Theft warning ECU:

Item	Test Details	Normal Condition	(Diagnostic Note)
Touch sensor	Outside door handle touched/not touched	ON: Touched OFF: Not touched	-

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

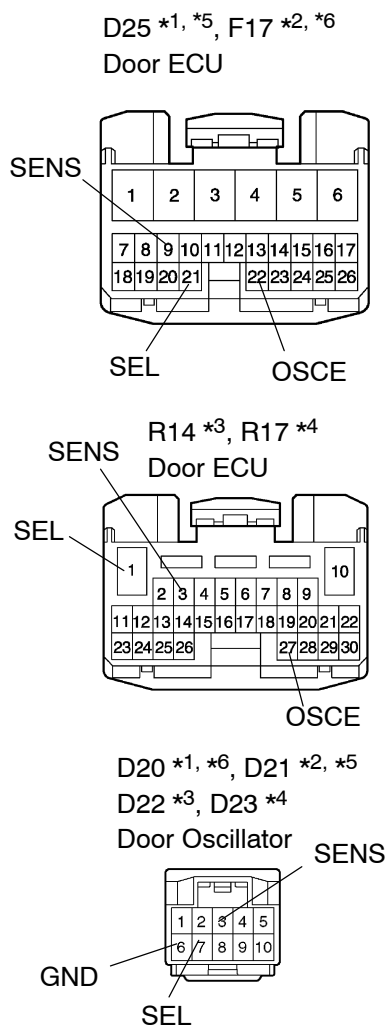
NG Go to step 2

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE
(See page 05-2634)

2 CHECK WIRE HARNESS (DOOR OSCILLATOR - DOOR ECU)

Wire Harness Side



- *1: Driver Side (LHD)
- *2: Passenger Side (LHD)
- *3: Rear LH
- *4: Rear RH
- *5: Driver Side (RHD)
- *6: Passenger Side (RHD)

B80304

- (a) Disconnect the D25, F17, R14 and R17 door ECU connectors.
- (b) Disconnect the D20, D21, D22 and D23 door oscillator connectors.
- (c) Measure the resistance of between the wire harness side connectors.

Standard:

LHD models (Driver side)

Tester Connection	Specified Condition
D25-9 (SENS) - D20-3 (SENS)	Below 1 Ω
D25-21 (SEL) - D20-7 (SEL)	Below 1 Ω
D25-22 (OSCE) - D20-6 (GND)	Below 1 Ω

LHD models (Passenger side)

Tester Connection	Specified Condition
F17-9 (SENS) - D21-3 (SENS)	Below 1 Ω
F17-21 (SEL) - D21-7 (SEL)	Below 1 Ω
F17-22 (OSCE) - D21-6 (GND)	Below 1 Ω

LHD models (Rear LH)

Tester Connection	Specified Condition
R14-3 (SENS) - D22-3 (SENS)	Below 1 Ω
R14-1 (SEL) - D22-7 (SEL)	Below 1 Ω
R14-27 (OSCE) - D22-6 (GND)	Below 1 Ω

LHD models (Rear RH)

Tester Connection	Specified Condition
R17-3 (SENS) - D23-3 (SENS)	Below 1 Ω
R17-1 (SEL) - D23-7 (SEL)	Below 1 Ω
R17-27 (OSCE) - D23-6 (GND)	Below 1 Ω

RHD models (Driver side)

Tester Connection	Specified Condition
D25-9 (SENS) - D21-3 (SENS)	Below 1 Ω
D25-21 (SEL) - D21-7 (SEL)	Below 1 Ω
D25-22 (OSCE) - D21-6 (GND)	Below 1 Ω

RHD models (Passenger side)

Tester Connection	Specified Condition
F17-9 (SENS) - D20-3 (SENS)	Below 1 Ω
F17-21 (SEL) - D20-7 (SEL)	Below 1 Ω
F17-22 (OSCE) - D20-6 (GND)	Below 1 Ω

RHD models (Rear LH)

Tester Connection	Specified Condition
R14-3 (SENS) - D22-3 (SENS)	Below 1 Ω
R14-1 (SEL) - D22-7 (SEL)	Below 1 Ω
R14-27 (OSCE) - D22-6 (GND)	Below 1 Ω

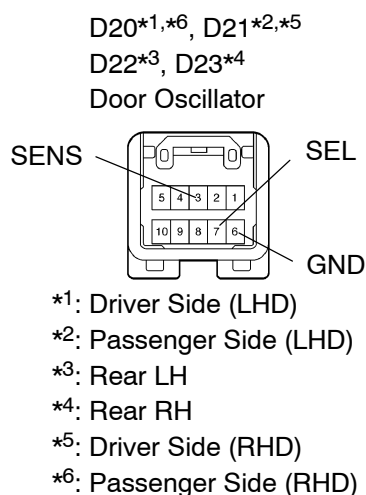
RHD models (Rear RH)

Tester Connection	Specified Condition
R17-3 (SENS) - D23-3 (SENS)	Below 1 Ω
R17-1 (SEL) - D23-7 (SEL)	Below 1 Ω
R17-27 (OSCE) - D23-6 (GND)	Below 1 Ω

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

3 INSPECT DOOR OSCILLATOR

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

Standard:**LHD models (Driver side)**

Tester Connection	Condition	Specified Condition
D20-7 (SEL) - D20-6 (GND)	Smart key placed at least 5 m (16 ft) away from door → Placed close to door	10 to 14 V → 0 V
D20-3 (SENS) - D20-6 (GND)	Outside door handle touched → Not touched	10 to 14 V → 0 V

LHD models (Passenger side)

Tester Connection	Condition	Specified Condition
D21-7 (SEL) - D21-6 (GND)	Smart key placed at least 5 m (16 ft) away from door → Placed close to door	10 to 14 V → 0 V
D21-3 (SENS) - D21-6 (GND)	Outside door handle touched → Not touched	10 to 14 V → 0 V

LHD models (Rear LH)

Tester Connection	Condition	Specified Condition
D22-7 (SEL) - D22-6 (GND)	Smart key placed at least 5 m (16 ft) away from door → Placed close to door	10 to 14 V → 0 V
D22-3 (SENS) - D22-6 (GND)	Outside door handle touched → Not touched	10 to 14 V → 0 V

LHD models (Rear RH)

Tester Connection	Condition	Specified Condition
D23-7 (SEL) - D23-6 (GND)	Smart key placed at least 5 m (16 ft) away from door → Placed close to door	10 to 14 V → 0 V
D23-3 (SENS) - D23-6 (GND)	Outside door handle touched → Not touched	10 to 14 V → 0 V

RHD models (Driver side)

Tester Connection	Condition	Specified Condition
D21-7 (SEL) - D21-6 (GND)	Smart key placed at least 5 m (16 ft) away from door → placed close to door	10 to 14 V → 0 V
D21-3 (SENS) - D21-6 (GND)	Outside door handle touched → not touched	10 to 14 V → 0 V

RHD models (Passenger side)

Tester Connection	Condition	Specified Condition
D20-7 (SEL) - D20-6 (GND)	Smart key placed at least 5 m (16 ft) away from door → placed close to door	10 to 14 V → 0 V
D20-3 (SENS) - D20-6 (GND)	Outside door handle touched → not touched	10 to 14 V → 0 V

RHD models (Rear LH)

Tester Connection	Condition	Specified Condition
D22-7 (SEL) - D22-6 (GND)	Smart key placed at least 5 m (16 ft) away from door → Placed close to door	10 to 14 V → 0 V
D22-3 (SENS) - D22-6 (GND)	Outside door handle touched → Not touched	10 to 14 V → 0 V

RHD models (Rear RH)

Tester Connection	Condition	Specified Condition
D23-7 (SEL) - D23-6 (GND)	Smart key placed at least 5 m (16 ft) away from door → Placed close to door	10 to 14 V → 0 V
D23-3 (SENS) - D23-6 (GND)	Outside door handle touched → Not touched	10 to 14 V → 0 V

NG**REPLACE DOOR OSCILLATOR****OK**

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE
 (See page 05-2634)