

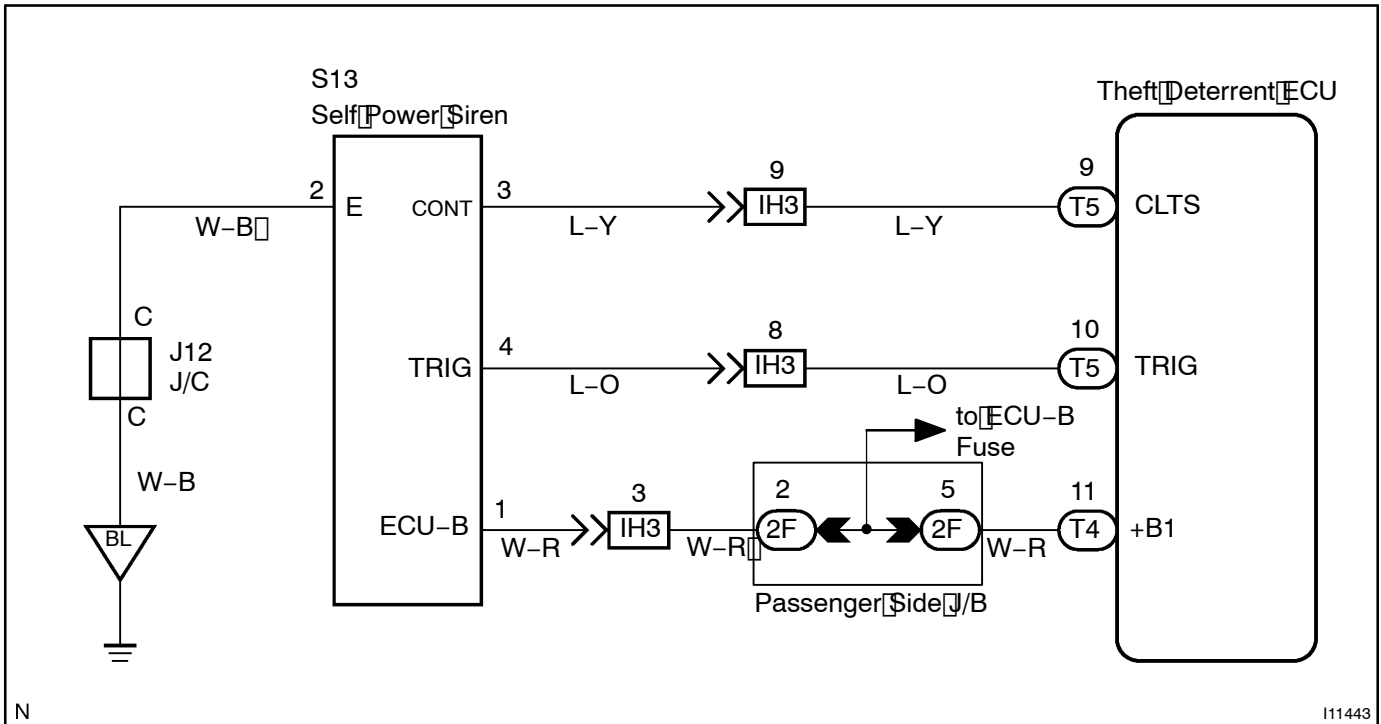
Self Power Siren

CIRCUIT DESCRIPTION

A radio transmitter is integrated into the door light.

This creates a spherical electric field inside the vehicle, detects intrusion using the Doppler effect caused by movement of an object in the vehicle, and outputs a warning trigger signal to the theft deterrent ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

In case of using the LEXUS hand-held tester, start the inspection from step 1 and in case of not using the LEXUS hand-held tester, start from step 2.

- 1 Check self power siren using LEXUS hand-held tester.

PREPARATION:

Connect the LEXUS hand-held tester to the DLC3.

CHECK:

Check that the self power alarm can operated in an ACTIVE TEST.

OK:

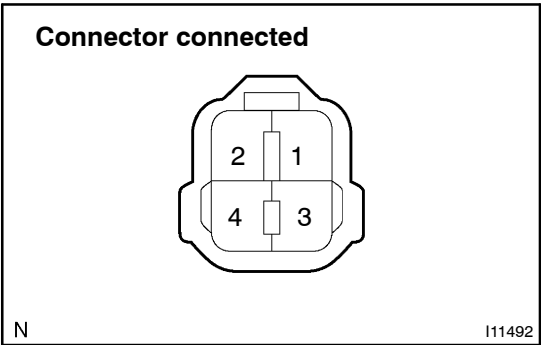
The self power alarm should sound.

OK

Proceed to next circuit inspection shown in problem symptoms table (See page DI-442).

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2 Check self power siren.



PREPARATION:

- (a) Remove the self power siren.
- (b) Disconnect the self power siren connector.

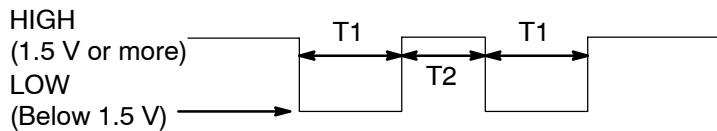
CHECK:

- (a) Case 1:
Check terminal 3 in case of the system set signal is not input to the siren.
- (b) Case 2:
Check terminal 4 in case of the siren drive signal is not input when the alarm is triggered.

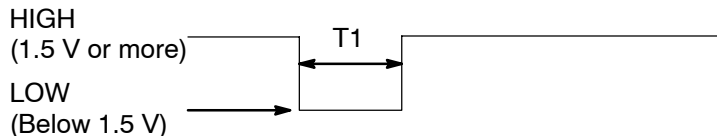
OK:

Tester connection	Condition	Specified condition
1 - Ground	Constant	Battery voltage
2 - Ground	Constant	No voltage
3 - Ground	When transforming from armed or arming preparation state to disarmed state.	Using an oscilloscope *1
	When transforming from the arming preparation state to armed state.	Using an oscilloscope *2
	Normal condition	Approx. 1.4 V
4 - Ground	Normal condition	Battery voltage
	Arming condition	Below 1 V

*1: wave pattern



*2: wave pattern



T1: 0.15 - 1.3 secs
T2: 0.15 - 0.25 secs

OK Replace self power siren.

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3 Check harness and connector between ECU and alarm, alarm and body ground (See page IN-32).

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Repair or replace harness or connector.

OK

Proceed to next circuit inspection shown in problem/symptom table (See page DI-442).