DTC	P0325	Knock Sensor 1 Circuit Malfunction (Bank 1)
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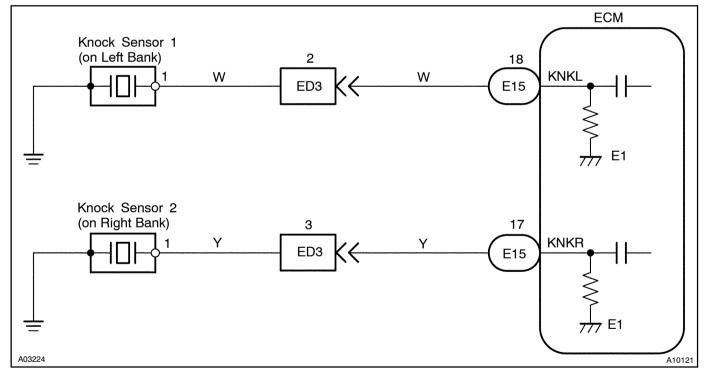
	DTC	P0330	Knock Sensor 2 Circuit Malfunction (Bank 2)	
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CIRCUIT DESCRIPTION

Each of knock sensor is fitted to the right bank and left bank of the cylinder block to detect engine knocking. This sensor contains a piezoelectric element which generates a voltage when it becomes deformed, which occurs when the cylinder block vibrates due to knocking. If engine knocking occurs, ignition timing is retarded to suppress it.

DTC No.	DTC Detecting Condition	Trouble Area
P0325	No knock sensor 1 signal to ECM with engine speed between 1,700 rpm and 5,400 rpm	 Open or short in knock sensor 1 circuit Knock sensor 1 (looseness) ECM
P0330	No knock sensor 2 signal to ECM with engine speed between 1,700 rpm and 5,400 rpm	 Open or short in knock sensor 2 circuit Knock sensor 2 (looseness) ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

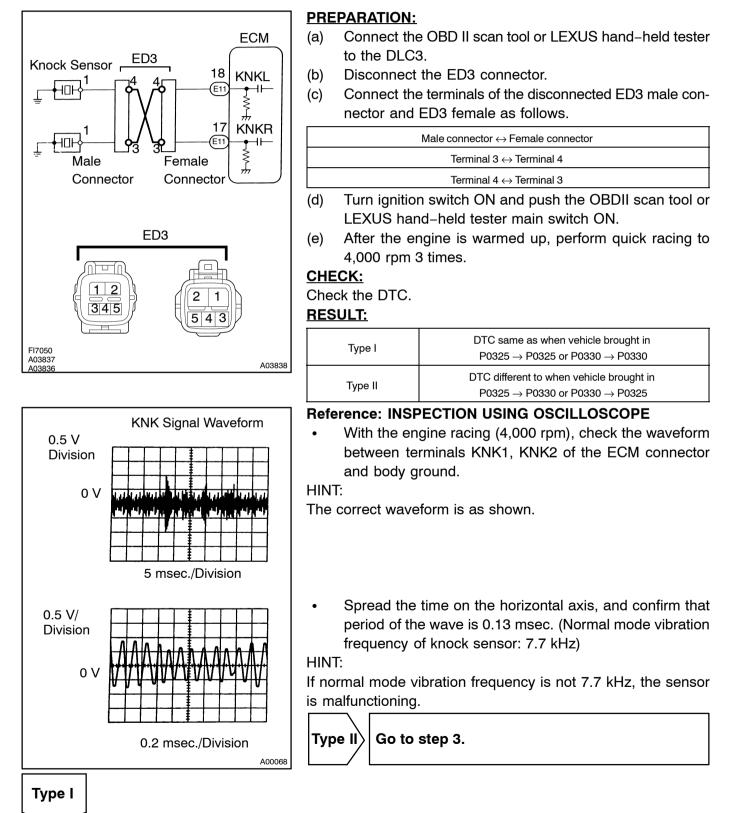
- DTC P0325 is for the left bank knock sensor circuit.
- DTC P0330 is for the right bank knock sensor circuit.

DI2OU-03

Read freeze frame data using LEXUS hand-held tester or OBD II scan tool. Because freeze frame
records the engine conditions when the malfunction is detected. When troubleshooting, it is useful for
determining whether the vehicle was running or stopped, the engine was warmed up or not, the air-fuel
ratio was lean or rich, etc. at the time of the malfunction.

1

Connect OBD II scan tool or LEXUS hand-held tester, and check knock sensor circuit.



2	Check for open and short in harness and connector between ED3 connector and ECM (See page $IN-30$).	
	NG Repair or replace harness or connector.	
ОК		
Check and replace ECM (See page IN–30).		
3	Check for open and short in harness and connector between ED3 connector and knock sensor (See page IN−30).	

HINT:

- If DTC P0325 has changed to P0330, check the knock sensor circuit on the left bank side.
- If DTC P0330 has changed to P0325, check the knock sensor circuit on the right bank side.

