DTC	13	ENGINE SPEED SENSOR CIRCUIT MALFUNCTION2 (NE CIRCUIT)

CIRCUIT DESCRIPTION

Refer to DTC 12 on page 05–24.

DTC No.	DTC Detection Condition	Trouble Area
13	No NE signal to ECM for 0.5 sec. or more at 630 rpm or more	• Open or short in engine speed sensor circuit • Crankshaft position sensor • ECM
	No NE signal to ECM for 2.0 sec. or more during cranking	

WIRING DIAGRAM

Refer to DTC 12 on page 05–24.

INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand–held tester, as freeze frame data records the engine conditions when a 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	CHECK ENGINE SPEED SENSOR (See page 10–1)

NG → REPLACE INJECTION PIPE

OK

2	CHECK WIRE HARNESS (ECM ⇔ ENGINE SPEED SENSOR) (See page 01–27)

NG → REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

3	INSPECT SENSOR INSTALLATION

NG → TIGHTEN SENSOR

OK

CHECK AND REPLACE ECM (See page 01–27)