DI31P–11

DTC	13	Engine Speed Sensor Circuit Malfunction 2 (NE Circuit)

CIRCUIT DESCRIPTION

Refer to DTC12 on page DI–20.

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

WIRING DIAGRAM

Refer to DTC12 on page DI–20.

INSPECTION PROCEDURE

HINT:
Read freeze frame data using the hand–held tester. 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	**Check resistance of engine speed sensor (See Pub. No. RM464E FU section).**

NG → **Replace injection pump (See Pub. No. RM464E FU section).**

OK

2	**Check for open and short in harness and connector between engine ECU and engine speed sensor (See page IN–20).**

NG → **Repair or replace harness or connector.**

OK

3	**Inspection sensor installation.**

NG → **Tighten sensor.**

OK

Check and replace engine ECU (See page IN–20).