DI3R1–01

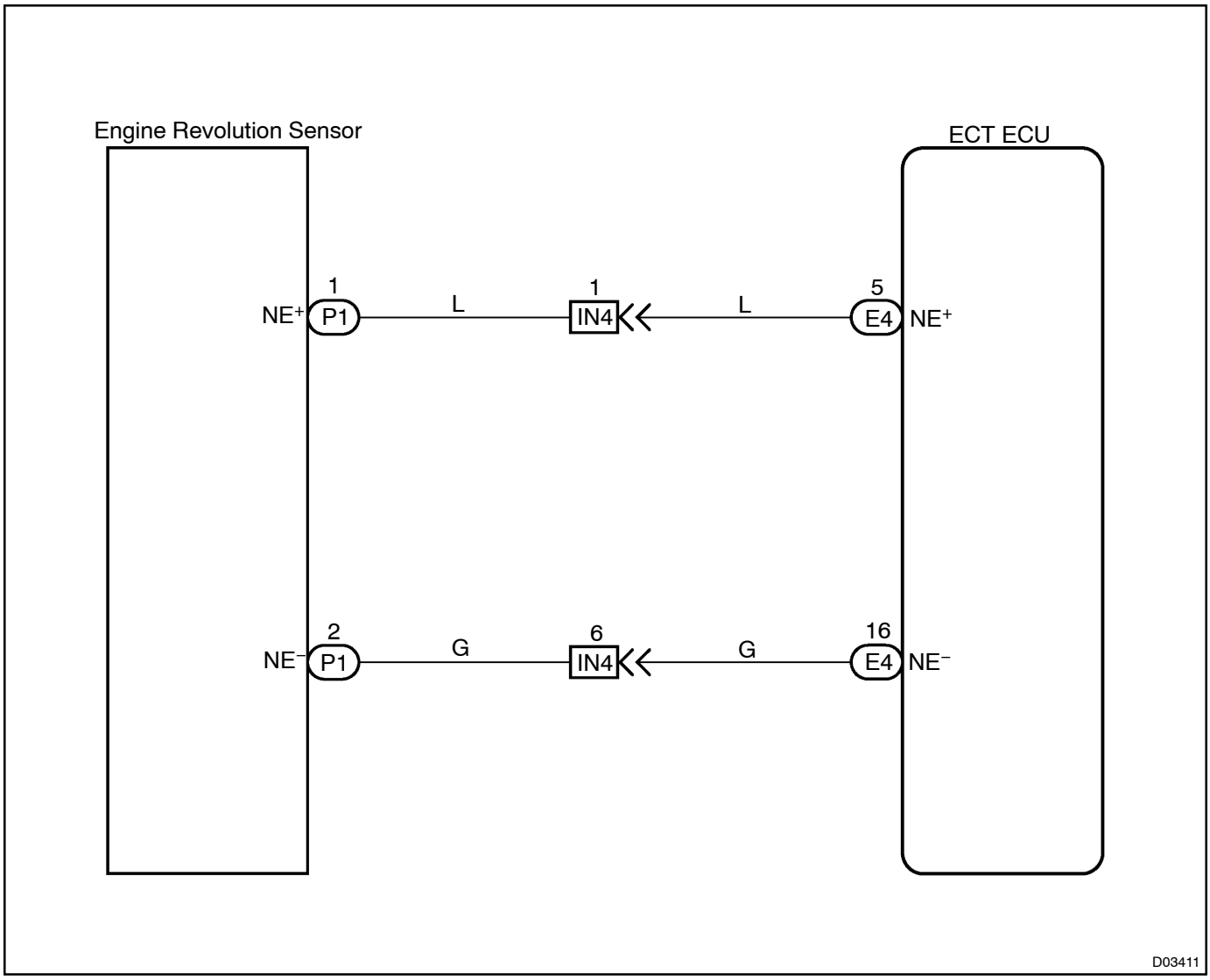
DTC	86	Engine Revolution Sensor Circuit

CIRCUIT DESCRIPTION

Engine revolution sensor (NE signal) consists of a signal plate and a pick–up coil.
The NE signal plate has 37 teeth and is mounted on the governor main shaft. The NE signal sensor generates 18.5 signals for every engine revolution. The ECU detects the engine speed by the NE signals.

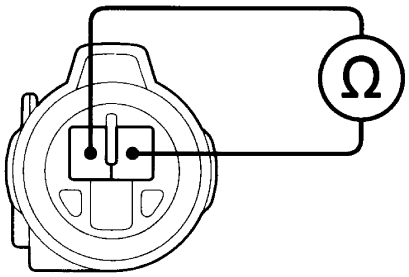
DTC No.	DTC Detecting Condition	Trouble Area
86	All conditions below are detected 4 seconds or more continuously. (2 trip detection logic) (a) Vehicle speed: 30 km/h more than (b) Engine speed: 300 rpm or less (c) Neutral start switch: OFF (Other than P or N)	• Open or short in throttle position sensor circuit • Throttle position sensor • ECT ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check engine revolution sensor.



PREPARATION:
Disconnect the engine revolution sensor connector.
CHECK:
Measure the resistance of engine revolution sensor.
CHECK:
Resistance: approx. 730 Ω

NG → Replace the engine revolution sensor.

OK

2	Check harness and connector between ECT ECU and engine revolution sensor (See page IN–35).

NG → Repair or replace harness or connector.

OK

3	Inspect sensor installation and teeth of signal plate.

NG → Tighten the sensor.
Replace signal plate.

OK

Check and replace the ECT ECU (See page IN–35).