

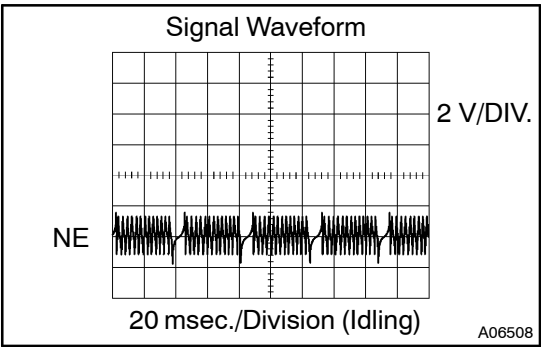
CIRCUIT INSPECTION

DTC	13	Engine Speed Sensor Circuit Malfunction
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CIRCUIT DESCRIPTION

The Pickup (engine speed) sensor in the engine control system contains signal plate and a pickup coil for NE signal. The NE signal plate has 52 teeth and is mounted in the injection pump. The NE signal sensor generates 52 signals of engine 2 revolutions. The emission ECU detects the engine speed and cam lift position of the injection pump. The emission ECU uses NE signals for injection timing control. And NE signal is used for injection volume control, also.

DTC No.	DTC Detecting Condition	Trouble Area
13	No NE signal to emission ECU for 0.5 sec. or more at 1,000 rpm or more	• Open or short in pickup sensor circuit • Pickup sensor • Emission ECU



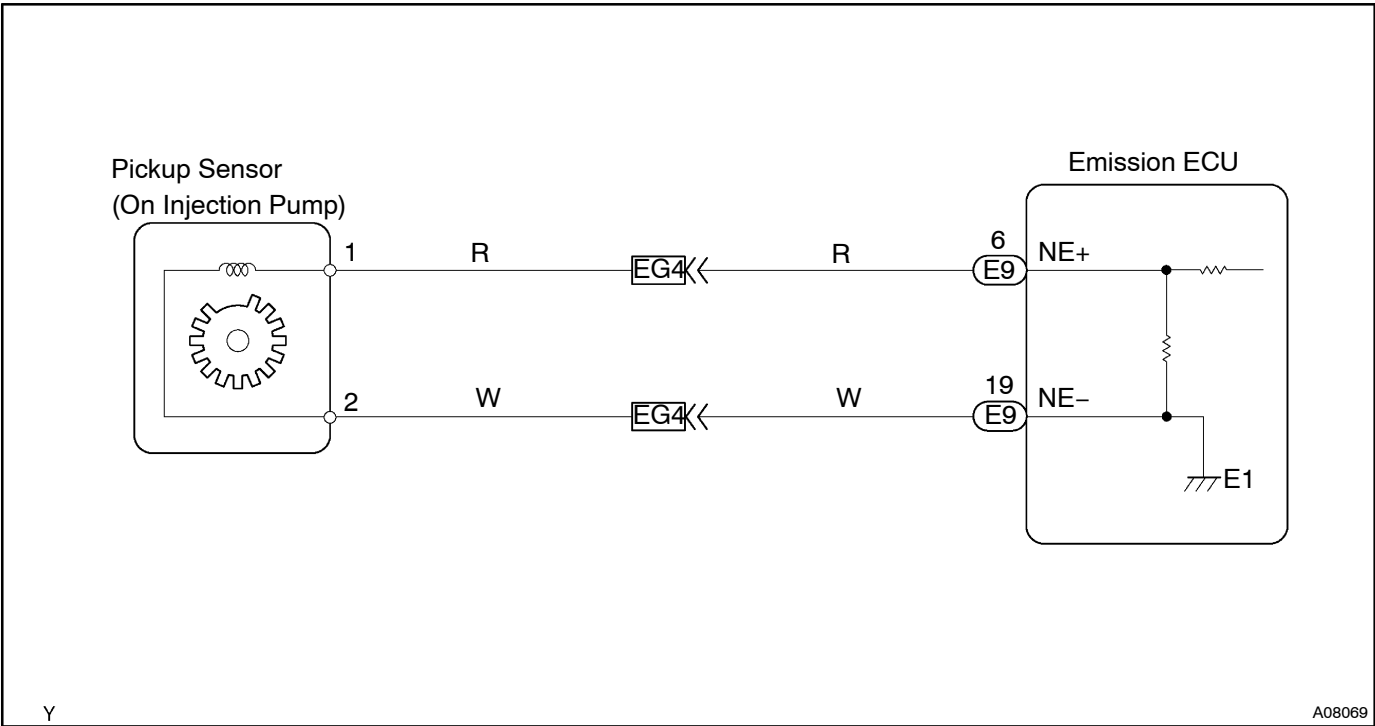
Reference: INSPECTION USING OSCILLOSCOPE

During cranking or idling, check the wave from between terminals NE+ and NE- of the emission ECU.

HINT:

The correct waveform is as shown.

WIRING DIAGRAM



INSPECTION PROCEDURE

