

Abnormal Camshaft Angle Sensor 636-2 (No signal) Although the crank signal appears, the CAM signal does not appear.

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636-2 Camshaft Angle Sensor Abnormal (Signal Abnormal) Mismatch of Cam Signal Pulses.

723-2 crank speed sensor abnormal (no signal) Although the crank signal appears, the CAM signal does not appear.

723-2 crank speed sensor abnormality (signal abnormality) CAM signal pulse mismatch.

636-7 Camshaft Angle sensor phase mismatch right CAM pulse does not exist at crank clearance.

Abnormal intake temperature sensor (abnormal high pressure) The intake temperature sensor voltage is higher than 4.95V within 3 minutes after the engine starts

Abnormal intake temperature sensor (low pressure abnormal) intake temperature sensor voltage is less than 0.1V

Abnormal coolant temperature sensor (high pressure abnormal) coolant temperature sensor voltage is higher than 4.85V

110-4 coolant temperature sensor abnormal (low pressure abnormal) coolant temperature sensor voltage is less than 0.1V

102-4 abnormal pressurized intake pressure sensor (abnormal high pressure) pressurized intake pressure sensor voltage is higher than 4.9V

102-3 abnormal pressurized intake pressure sensor (abnormal low pressure)  
pressurized intake pressure sensor voltage is lower than 0.1V

EGR position abnormal (no brush specification) EGR position output signal condition  
cannot occur

Abnormal atmospheric pressure sensor (high pressure abnormal) atmospheric  
pressure sensor voltage is higher than 3.8V

108-3 Abnormal atmospheric pressure sensor (low pressure abnormal) atmospheric  
pressure sensor voltage is less than 0.5V

174-3 Abnormal fuel temperature sensor (abnormal high pressure) The fuel  
temperature sensor voltage is higher than 4.85V within 3 minutes after engine starting

174-4 Abnormal fuel temperature sensor (low pressure abnormal) fuel temperature  
sensor voltage is less than 0.1 V

157-3 Abnormal common rail pressure sensor (high voltage abnormal) Common rail  
pressure sensor voltage is higher than 4.5V

157-3 Common rail pressure sensor abnormal (low pressure abnormal) Common rail  
pressure sensor voltage is lower than 0.7V

Abnormal oil pressure sensor (abnormal high pressure) Oil pressure sensor voltage  
higher than 4.85V

Abnormal oil pressure sensor voltage of oil pressure sensor is lower than 0.1V

The 105-3 pressurized intake temperature sensor is abnormal (high pressure is abnormal) for more than 5 minutes after the engine starts or the coolant temperature exceeds

At 50°C (122°F), the pressurized intake temperature sensor voltage is higher than 4.95V

105-4 pressurized intake temperature sensor abnormal (low pressure abnormal) pressurized intake temperature sensor voltage is lower than 0.1V

The 636-2 camshaft Angle sensor is abnormal (no signal)

636-2 Camshaft Angle Sensor Abnormal (Signal Abnormal) operation is not affected.

Can not restart after shutdown

723-2 crank speed sensor abnormal (no signal) ○

723-2 crank speed sensor abnormal (signal abnormal) output power does not drop ○

The 636-7 camshaft Angle sensor is not affected by phase mismatching operation.

Can not restart after shutdown

172-3 Abnormal intake temperature sensor (abnormal high pressure) ○

172-4 Intake temperature sensor abnormal (low pressure abnormal) output power does not drop ○

110-3 coolant temperature sensor abnormal (high pressure abnormal) ○

110-4 coolant temperature sensor abnormal (low pressure abnormal) output power does not drop ○

102-4 pressurized intake pressure sensor abnormal (high pressure abnormal) ○

102-3 pressurized intake pressure sensor abnormal (low pressure abnormal) output power does not drop ○

10001-3 EGR abnormal position (no brush specification) output power does not drop ○

108-4 abnormal atmospheric pressure sensor (high pressure abnormal) ○

108-3 abnormal atmospheric pressure sensor (low pressure abnormal) output power does not drop ○

174-3 abnormal fuel temperature sensor (abnormal high pressure) ○

174-4 abnormal fuel temperature sensor (low pressure abnormal) output power does not drop ○

157-3 Common rail pressure sensor abnormal (high pressure abnormal) ○

157-4 Common rail pressure sensor abnormal (low pressure abnormal) output power drop: 70%○

Abnormal oil pressure sensor (abnormal high pressure) ○

Abnormal oil pressure sensor (abnormal low pressure)

105-3 pressurized intake temperature sensor abnormal (high pressure abnormal) ○

Abnormal pressure inlet temperature sensor (abnormal low pressure)

10002-2 EGR valve control abnormal valve target lifting position and the actual lifting position difference is more than 20%

1347-0 oil suction control valve drive system open circuit, +B or ground short circuit oil suction control valve drive current is higher than 2400 mA or less than 50 mA.

Or the difference between the target current and actual current is 1000 mA or more

651-3 Nozzle #1 Drive System Open Injector 1 Monitor No input signal

652-3 Nozzle #2 Drive System Open Injector 2 Monitor No input signal

653-3 Nozzle #3 Drive System Open Circuit Injector 3 Monitor No input signal

654-3 Nozzle #4 Drive System Open Circuit Injector 4 Monitor No input signal

655-3 Nozzle #5 Drive System Open Injector 5 Monitor No input signal

656-3 Nozzle #6 Drive System Open Injector 6 Monitor No input signal

Abnormal pressure of common oil tank (level 1) The pressure of common oil tank exceeds 185 MPa

157-0 Abnormal pressure of common oil tank (Grade 2) Grade 1 "abnormal pressure of common oil tank", and the pressure of common oil tank exceeds 190 MPa

When the oil suction control valve power is 40% or more, or when the oil suction control valve target pressure is 90 mm<sup>3</sup>/ SEC or less, the actual oil tank pressure is 40MPa (410 kg/cm<sup>2</sup>, 5820 psi) higher than the target oil tank pressure.

633-7 Pressure limiter open Pressure limiter open

When the oil suction control valve power is 33% or less, or when the pressure to the oil suction control valve is 28,000 mm<sup>3</sup>/ SEC or more and the speed is 1200 min<sup>-1</sup>, the actual tank pressure is 50 MPa (510 kg/cm<sup>2</sup>, 7270 psi) higher than the target tank pressure

When the pressure delivered to the oil suction control valve is 900 min<sup>-1</sup>, the actual oil tank pressure is 15 MPa