

2007 Isuzu Truck i-370 2WD L5-3.7L

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Engine Cranks But Does Not Run

Engine Cranks but Does Not Run

Description

The Engine Cranks but Does Not Run diagnostic table is an organized approach to identifying a condition that causes an engine not to start. The Engine Cranks but Does Not Run diagnostic table directs the service technician to the appropriate system diagnosis.

The Engine Cranks but Does Not Run diagnostic table assumes the following:

- The battery is completely charged. Refer to Battery Inspection/Test (Non-HP2). [See: Starting and Charging\Testing and Inspection\Component Tests and General Diagnostics\Battery Inspection/Test](#)
- The cranking speed is acceptable. Refer to Engine Cranks Slowly. [See: Starting and Charging\Testing and Inspection\Symptom Related Diagnostic Procedures\Engine Cranks Slowly](#)
- There is adequate fuel in the [fuel tank](#).

Test

Step 1 - Step 8

Step	Action	Value(s)	Yes	No
1	Did you perform the Diagnostic System Check – Vehicle?	—	Go to Step 2	Go to Diagnostic System Check - Vehicle
2	1. Turn ON the ignition, with the engine OFF. 2. With a scan tool, observe the DTC information. Does the scan tool display DTCs P0107, P0335, P0340, P0365, P0601, P0602, P0603, P0604, P0606, P0607, P0651, P1621, P1631, P1680, P1681, P1682, or P2610?	—	Go to Diagnostic Trouble Code (DTC) List - Vehicle	Go to Step 3
3	Does the scan tool display any vehicle theft deterrent (VTD) DTCs?	—	Go to Diagnostic Trouble Code (DTC) List - Vehicle	Go to Step 4
4	1. Turn ON the ignition, with the engine OFF. 2. Probe both sides of the ETC fuse with a test lamp that is connected to a good ground. Does the test lamp illuminate on at least one side of the fuse?	—	Go to Step 5	Go to Powertrain Relay Diagnosis
5	Command the fuel pump ON with a scan tool. Does the fuel pump turn ON?	—	Go to Step 6	Go to Fuel Pump Electrical Circuit Diagnosis
6	1. Turn OFF the ignition. 2. Remove an ignition coil. 3. Install the J 26792 Spark Tester to the coil boot. 4. Attempt to start the engine. Does the spark tester spark?	—	Go to Step 7	Go to Electronic Ignition (EI) System Diagnosis
7	1. Turn OFF the ignition. 2. Disconnect the multi-way harness connector of the fuel injectors. 3. Connect a test lamp between the ignition 1 voltage circuit of the fuel injector, fuse side, and a fuel injector control circuit, powertrain control module (PCM) side. 4. Crank the engine. Does the test lamp flash when cranking the engine?	—	Go to Step 8	Go to Fuel Injector Circuit Diagnosis
8	1. Turn OFF the ignition. 2. Install the J 34730-1A Fuel Pressure Gage. 3. Turn ON the ignition, with the engine OFF. 4. Command the fuel pump ON with a scan tool. Is the fuel pressure within the specified range while the fuel pump is operating?	334–375 kPa (48–54 psi)	Go to Step 9	Go to Fuel System Diagnosis

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Step 9 - Step 11

Step	Action	Value(s)	Yes	No
9	<p>Inspect for the following conditions:</p> <ul style="list-style-type: none"> • A collapsed air intake duct • A restricted air filter element • Contaminated fuel—Refer to Airborne Contaminants in Fuel Diagnosis (w/special tool) or Airborne Contaminants in Fuel Diagnosis (w/o special tool) • The spark plugs for being gas or coolant fouled—Refer to Spark Plug Inspection. If the spark plugs are fouled, determine what caused the condition. • An engine mechanical condition (worn timing chain, gears and low compression)—Refer to Oil Consumption Diagnosis and Symptoms - Engine. • A restricted exhaust system—Refer to Restricted Exhaust. • An engine coolant temperature (ECT) sensor that has shifted in value. Refer to Temperature Versus Resistance. • Compare MAP/BARO parameters to another vehicle. The parameters should be close in value. Refer to Altitude Versus Barometric Pressure. <p>Did you complete the action?</p>	—	Go to Step 10	—
10	<ol style="list-style-type: none"> 1. Clear the DTCs with a scan tool. 2. Turn OFF the ignition for 30 seconds. 3. Attempt to start the engine. <p>Does the engine start and continue to run?</p>	—	Go to Step 11	Go to Step 2
11	<ol style="list-style-type: none"> 1. Allow the engine to reach operating temperature. 2. Observe the DTC information with a scan tool. <p>Are there any DTCs that have not been diagnosed?</p>	—	Go to Diagnostic Trouble Code (DTC) List - Vehicle	System OK

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