

# Crank No Start

## Symptoms: Crank No Start

### General Information:

The only mechanism for the fuel system to prevent the engine from starting or running is to shut the Fuel Delivery System Shutoff Valve and prevent fuel from reaching the engine. If the Fuel Inlet Pressure at the engine during cranking is in the appropriate, then the issue is not related to the fuel system. If the pressure is not at the appropriate level, then the issue is most likely a fuel system issue.

The FDS has an electronically controlled solenoid valve. The FDS ECU sends a signal, either directly to the fuel system regulator solenoid coil, or to a Fuel Relay that then sends the signal to the fuel system regulator solenoid coil. This controls the flow of fuel from the system to the regulator, and then to the engine.

## Verification

### Condition

- Manual Shut Off Valve, Cylinder Valve, Fuel Delivery System Shutoff Valve, or if equipped Body Valve is ON/OPEN

### Action

- Crank to see if starts. If no start, cycle key OFF and ON and verify pressure on the Regulated Pressure gauge (Orange). If pressure is between 70 -150 psi, it is not a fuel system issue.
- If there is no pressure, cycle key OFF and ON to verify an audible click from Fuel System Regulator Solenoid Coil.
  - If there is not an audible click, the fuel system regular solenoid is not opening.
    - Check for 12 volts being supplied to fuel solenoid coil.
    - Visually inspect Fuel System Regulator Solenoid Coil connector for damage or corrosion
    - With the key on, measure the voltage between the two terminals on the Fuel System Regulator Solenoid Coil connector.
    - If there is 12 volts and the coil is not switching, replace the Fuel System Regulator Solenoid Coil.
    - If there is NO voltage, check to make sure the Fuel System Relay is switching.
- Verify the Supply Pressure gauge (Yellow) is showing fuel pressure.
- If there is NO voltage, check to make sure the Fuel System Relay is switching.

### Specification

- If the voltage is at least 10.8 VDC (12 Volt) then proceed to Linked Solutions Section.
- If there is NO voltage, check to make sure the Fuel System Relay is switching Linked Solutions Section.
- If the connector(s) show signs of damage or corrosion, then proceed to the repair Section.

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### Linked Solutions

- [Fuel System Regulator Solenoid Coil \(042-023\)](#)
- [Fuel System Relay \(042-030\)](#)

### Repair

- Replace components that were found to be out of specification.
- Clean corrosion

### Validation

- Verify a click sound from Fuel System Regulator Solenoid Coil when key switch is turned ON.
- Check Regulated Pressure Gauge (Orange) for correct pressure.
- Vehicle starts.