



# Service Bulletin

## TECHNICAL

**Subject:** A/C Inoperative or A/C Blows Warm, DTC P0530 May Be Set

**Models:** 2001-2003 Buick Rendezvous  
2001-2003 Chevrolet Venture  
2001-2003 Oldsmobile Silhouette  
2001-2003 Pontiac Aztek  
2001-2003 Pontiac Montana

### Condition

Some customers may comment that the A/C system is inoperative, the A/C compressor cycles too often, or a lack of cooling. DTC P0530 may be set.

DTC P0530 information:

The powertrain control module (PCM) monitors the high side refrigerant pressure via a A/C refrigerant pressure sensor. When the pressure is high the signal voltage is high. When the pressure is low the signal voltage is low. When pressure is high the PCM commands the cooling fans on. When pressure is too high or too low the PCM will not allow the A/C compressor clutch to engage.

To duplicate this DTC, the following conditions must be present.

- The engine is running.
- A/C has been requested.

Conditions for setting the DTC

- The PCM detects the signal circuit is less than 5 counts (0.09 volt) or more than 250 counts (4.90 volts).
- The condition exists for 20 seconds.

Actions taken when the DTC sets

- The PCM will not illuminate the Malfunction Indicator Lamp (MIL).
- The PCM stores the failure records.
- The A/C compressor clutch is disabled.

Conditions for Clearing the DTC

- The DTC will become history if the PCM no longer detects a failure.
- The history DTC will clear after 50 fault free ignition cycles.
- The DTC can be cleared with a scan tool.

### Procedure

Diagnose and repair the A/C system following the service procedure below:

1. Leak test the A/C system.
2. Inspect the A/C high pressure valve for leaks located on the A/C compressor. If the A/C high pressure valve is the source of the leak, continue with the next step. If the A/C high pressure valve is not the source of the leak, continue leak test diagnostics per the vehicle's service manual.
3. Recover the refrigerant from the system.

4. Remove the A/C high pressure valve from the compressor and discard.
5. Replace the A/C high pressure valve, P/N 10337355.

**Tighten** the A/C high pressure valve to 12N·m (9ft lbs).

6. Vacuum and recharge the A/C system.

7. Plug in a scan tool and check for DTC P0530. If DTC P0530 is set, use the scan tool to clear the DTC. Operate the vehicle within the Conditions for Running the DTC. If P0530 resets, run the diagnostic.

**Parts Information**

Part Number	Description
10337355	A/C High Pressure Valve