

Idle Control System

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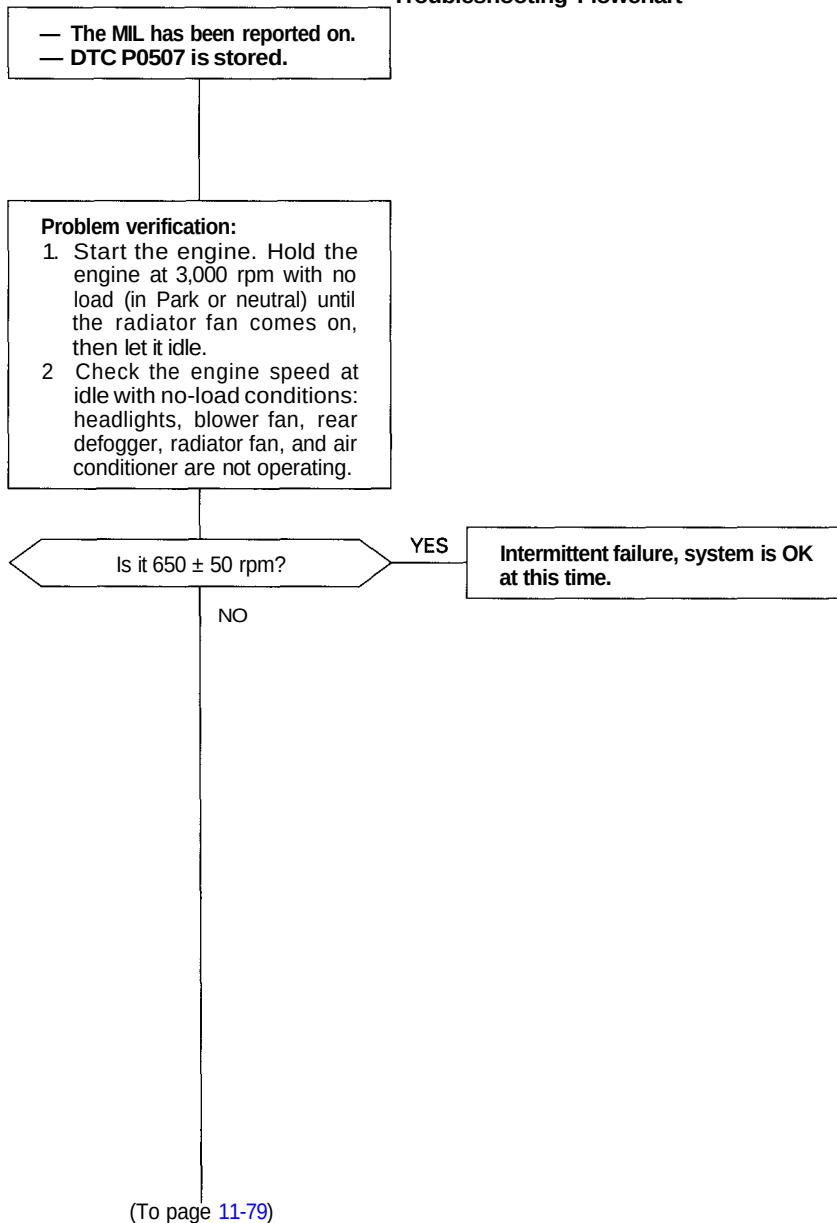
P0507 The HDS or the scan tool indicates Diagnostic Trouble Code (DTC) P0507: Idle control system RPM higher than expected.

NOTE: If DTC P0511 is stored at the same time as DTC P0507, troubleshoot DTC P0511 first, then troubleshoot DTC P0507.

Possible Cause

- IAC valve mechanical malfunction
- Idle air control thermal valve malfunction
- Throttle body clogged port, improper adjustment
- Intake manifold gasket leakage
- Intake air hose loose or leaking
- Vacuum hoses leakage
- ECT sensor incorrect output

Troubleshooting Flowchart





(From page 11-78)

Check the idle air control thermal valve:

1. Turn the ignition switch OFF.
2. Remove the cover from the idle air control thermal valve.
3. Start the engine and let it idle.
4. Put your finger on the valve seat area and check for air flow.

Is air flow felt in the valve seat area?

YES

Check engine coolant level and for air in the cooling system. If OK, replace the idle air control thermal valve.

NO

- Check for vacuum leaks, make sure the throttle valve is completely closed, and repair as necessary.
- Adjust the idle speed. If it's impossible, replace the IAC valve.

NOTE: If the cover of the idle air control thermal valve was removed, do the PCM reset procedure.

