

'03-'09 Dodge Ram Diesel (5.9L & 6.7L) Electric Fan Clutch Assembly Misdiagnosis

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TECH TIP

Like most diesel engines, 2003–2009 Dodge Ram Diesel (5.9L and 6.7L) engines are designed with large cooling systems that often operate at idle for long periods of time. In these applications, the electric fan clutch assembly is activated by the ECU when the engine heat reaches a high temperature or the A/C head pressure reaches 240~270lbs. Proper function of the electric fan clutch assembly is crucial to maintaining A/C head pressure and a working A/C system, especially when idle and even more importantly, in warm weather. If A/C head pressure is not maintained, the compressor clutch may slip or burn causing premature A/C system failure.

THE PROBLEM

A transducer, located in the discharge line, reports A/C head pressure to the ECU. The ECU uses this information to turn on/off the electric fan clutch assembly. In some cases what appears to be a failed electric fan clutch assembly, is rather a failed transducer.

THE SOLUTION

Before replacing a “failed” electric fan clutch assembly for the Dodge Ram Diesel applications listed in this tech tip, check the transducer first. Although the electric fan clutch assembly may appear to be turning, it may not be working correctly due to a malfunctioning transducer.

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