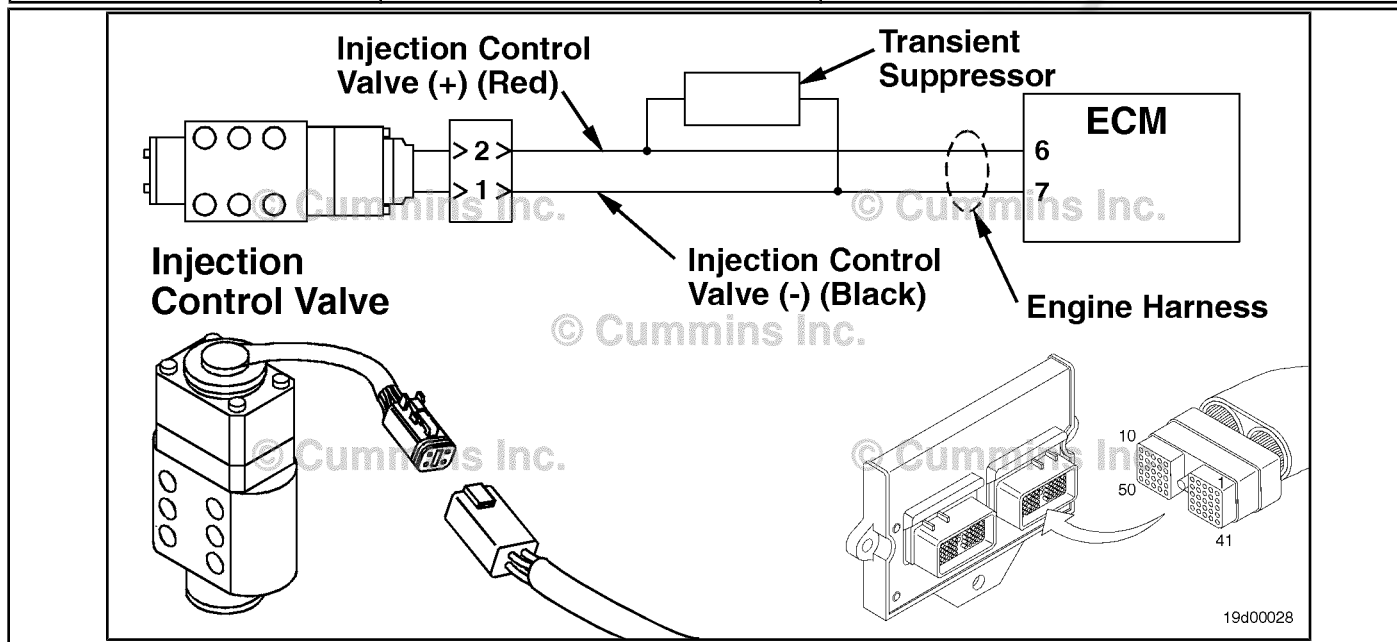


Fault Code 539

Transient Suppressor Circuit

CODES	REASON	EFFECT
Fault Code: 539 PID(P), SID(S): P018 SPN: 633 FMI: 11 Lamp: Yellow SRT:	Open circuit detected at the transient suppressor in the injection control valve circuit in the engine harness.	Possible white smoke and rough running.



Injection Control Valve Circuit

Circuit Description:

The transient suppressor absorbs the extra current created when the injection control valve closes after an injection event. Without the transient suppressor, high voltage would be transmitted back into the ECM and damage the pump driver circuits.

Component Location:

The transient suppressor extends from the trunk of the engine harness and is mounted with a p-clip to the engine block. It is a small copper colored cylinder with a red and a black wire extending from one end. It is located just below where the injection lines connect to the fuel pump. The injection control valve is located at the rear of the fuel injection pump, on the top of the distributor, and below the accumulator.

Shop Talk:

When the transient suppressor is working normally, it will generate heat. Caution **must** be taken when working with it, as it can be hot. The heat generated in the transient suppressor is dependent on the speed of the engine.

Refer to Troubleshooting Fault Code t05-539

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