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Title: 2006-2009 Cummins Active Fault Code 249 / 256 Ambient Air Temperature Sensor

Applies To: Cummins ISX ISM

SYMPTOMS

- Fault 249 Active
- Fault 256 Active

POSSIBLE DIAGNOSTIC TROUBLE CODES

DTC	MODULE	DESCRIPTION
249	Cummins ECM	Ambient Air Temperature Sensor 1 Circuit - Voltage Above Normal or Shorted to High Source.
256	Cummins ECM	Ambient Air Temperature Sensor 1 Circuit - Voltage Below Normal or Shorted to Low Source.

TROUBLESHOOTING

1. Inspect the ECM chassis connector 6000. Click [HERE](#) for the circuit diagram, and [HERE](#) for the connector composite of the 6000.
2. If pin 19 is not populated with a wire, refer to the below and disable the ECM parameter for the Ambient Air Temp Sensor.
3. If pin 19 is populated refer to the circuit diagram link above and repair the wiring or sensor issue.

Features and Parameters				ECM Value	Unit	Original Value
Load Based Speed Control						
High Engine Speed Breakpoint				1800	rpm	
Low Engine Speed Breakpoint				1800	rpm	
Maintenance Monitor				Disable		
OEM Ambient Air Temperature Sensor				Disable		
Powertrain Protection				Disable		
PTO				Enable		
Additional Switch Speed				1000	rpm	
Alternate Operation				Disable		
Clutch Override				Enable		
Maximum Engine Load				800	ft*lb	
Maximum Speed				1800	rpm	
Maximum Vehicle Speed				2	mph	
Minimum Speed				650	rpm	
Ramp Rate				250	rp...	
Resume Switch Speed				900	rpm	
Service Brake Override				Enable		
Set Switch Speed				850	rpm	
Zero VSS Limit				Disable		
Accelerator Pedal or Lever Override				Disable		
Remote PTO				Disable		
Road Speed Governor				Enable		

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