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Document ID: IK0800369

Availability: ISIS, FleetISIS, Body Builder, IsSIR

Major System: Electrical

Current Language: English

Other Languages: NONE

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

Applies To: Cummins ISX ISM

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

04/03/2018 - Author updated for feedback purposes
10/22/2015 - Author updated for Feedback purposes

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.

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Fault Codes

Data Monitor/Logger

ECM Diagnostic Tests

Advanced ECM Data

Features and Parameters

Calibration Selection

OBD Fault Codes

Work Orders

Trip Information

Audit Trail

Inquire Data

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		