



Service Bulletin

PRELIMINARY INFORMATION

Subject: Diagnostic Tips Ambient Temperature Display / Information (Topology)

Models: 2015 Cadillac Escalade Models
2015 Chevrolet Tahoe, Silverado, Suburban
2014 Chevrolet Silverado 1500
2015 GMC Sierra, Yukon Models
2014 GMC Sierra 1500

This PI was superseded to update Recommendation/Instructions. Please discard PIT5365A.

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Recommendation/Instructions

There has been some confusion on how the temperature reading that is displayed on the radio, gets from the ambient temperature sensor to the actual radio display. Depending on the model and radio option, it may vary. The block diagrams below should help clarify any confusion.

-1500 Trucks and All SUV's With IO3 Radio

Ambient Air Temperature Sensor >>> (hard wired circuits 636 and 61) >>> ECM >>> (High Speed Lan)>>> BCM >>> (Low Speed Lan) >>> Radio tuner>>> (LVDS Cable) >>> Radio Display

Note: After the BCM sends the ambient air temperature out on the Low Speed Lan buss, the HVAC Control Module also uses this information for HVAC related requirements

-1500 Trucks and All SUV's With IO4, IO5, or IO6

Ambient Air Temperature Sensor >>> (hard wired circuits 636 and 61) >>> ECM >>> (High Speed Lan)>>> BCM >>> (Low Speed Lan) >>> Radio tuner >>> (MOST BUSS) >>> HMI >>> (LVDS Cable) >>> Radio Display

Note: After the BCM sends the ambient air temperature out on the Low Speed Lan buss, the HVAC Control Module also uses this information for HVAC related requirements.

-2500/3500 Trucks With IO3 Radio

Important: Some early built 2500/3500 trucks with 6.6L Diesel (RPO LML and AVF), built before November of 2014, uses the ambient air temperature sensor located in the outside passenger mirror for the temperature displayed on the radio, HVAC and powertrain requirements. If the BCM and IPC are reprogrammed with the latest calibration in TIS2WEB this will change the operation to what is shown below. The grille mounted ambient air temperature sensor will now be used for the radio and HVAC requirements and the passenger mirror sensor will only be used for powertrain requirements.

Ambient Air Temperature Sensor >>> (hard wired circuits 636 and 61) >>> IPC >>> (Low Speed Lan) >>> Radio tuner >>> (LVDS Cable) >>> Radio Display

Note: After the IPC sends the ambient air temperature out on the Low Speed Lan buss, the HVAC Control Module also uses this information for HVAC related requirements.

-2500/3500 Trucks with IO4, IO5, or IO6

Important: Some early built 2500/3500 trucks with 6.6L Diesel (RPO LML and AVF), built before November of 2014, uses the ambient air temperature sensor located in the outside passenger mirror for the temperature displayed on the radio, HVAC and powertrain requirements. If the BCM and IPC are reprogrammed with the latest calibration in TIS2WEB this will change the operation to what is shown below. The grille mounted ambient air temperature sensor will now be used for the radio and HVAC requirements and the passenger mirror sensor will only be used for powertrain requirements.

Ambient Air Temperature Sensor >>> (hard wired circuits 636 and 61) >>> ECM >>> (High Speed Lan)>>> BCM >>> (Low Speed Lan) >>> Radio tuner>>> (LVDS Cable) >>> Radio Display

Note: After the IPC sends the ambient air temperature out on the Low Speed Lan buss, the HVAC Control Module also uses this information for HVAC related requirements

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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