

Document ID# 1665393  
2004 Cadillac CTS

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# The Tech 2 Cannot Communicate with GM-LAN Modules - keywords 3.5l 3.6L 4.6L CANdi connector control crank data DTC gauge hesitate hunt idle information LH2 LY7 LX9 light low MIL misfire no number part #PIP3446 - (May 26, 2005)

The Tech 2 Cannot Communicate with GM-LAN Modules

2004 Cadillac CTS

2004 Cadillac SRX

2004 Cadillac XLR

2004 Chevrolet Malibu

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

## Condition/Concern:

The Tech 2 cannot communicate with GM-LAN Modules.

## Recommendation/Instructions:

The following information will help you with communication issues:

1. Ensure that the dealer does not have a 10 mb memory card installed in their Tech 2, only the 32mb card.
2. Verify that the led does flash on their CANdi module (J-45289). Refer to step 11 for further information.
3. The CTS and SRX class2 message monitor should include the ECM/PCM, even though it is on a

## GMLAN data bus.

- You cannot pull DTC, Review any data, or SPS program the PCM without the CANdi module connected, or if the CAN/LAN data lines are open/shorted, on the CTS and SRX. If the class 2 lines are shorted this will NOT effect retrieving data or DTC's from the ECM/TCM.
  - The PCM is always active on class 2 message monitor until it loses the battery feed from the ECM/TCM fuse. Pulling any other fuse will not affect its activity on the class2 message monitor. This is true for the CTS and SRX
  - The IPC and VTD also go inactive when pulling the PCM/TCM fuse on the SRX
  - You cannot review any data or request info for SPS programming without having the CANdi module (J-45289) connected. We are using the LAN data line for programming.
  - The Malibu will request info for programming without the CANdi module connected, and review some engine data. Only the PCM would come on the class2 monitor but after 4 seconds go inactive, you can ping the module and it will come on again and then go inactive. Cycling the key has no effect and the power moding check also has no response when cycling the key.
4. The Tech 2 has a new diagnostic feature called functional diagnosis under special functions. Verify the CANdi module (J-45289) communication with ECM/PCM. The green LED. flashes one time per second when it is working properly.
  5. Always use the latest version software for the Tech 2.
  6. Verify that the Tech 2 data cable between the Tech 2 and the DLC is not the concern, for no communication with the ECM/PCM.
  7. Only use the 16 pin DLC connector with the molded connector with the bridge between the row of pins.
  8. The field has been calling in product reports on defective CANdi modules (J-45289).
  9. Refer to the appropriate SI document for the scan tool does not communicate with high-speed GM-LAN device.
  10. Refer to the appropriate SI document for the DLC schematics.
  11. Check the led indicator on the CANdi module (J-45289) to see how fast it is flashing. If it is flashing slowly (1 time per 3 seconds) then there is a problem between the Tech 2 and CANdi module. If the indicator is flashing fast (1 time per second) it is more likely that they are having a vehicle problem with GM-LAN.
  12. Next step is this work around method for Tech 2.
    - Select TOOL  
OPTIONS
    - Select PROGRAMMING TECH  
2
    - Select RESET TECH 2 (soft  
key)

Tech 2 does a "warm reboot" back to main screen. Take another look at the CANdi LED indicator. If now flashing fast then likely it will communicate with the vehicle.

However this reset procedure probably has to be repeated each time you turn on Tech 2.

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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