



Preliminary Information

PIT4585F 2-MODE (HYBRID) No Crank After Discharged Or Dead 12v Battery

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Cadillac	Escalade	2009 - 2013	All	All	All	M99
Chevrolet	Tahoe	2008 - 2013	All	All	All	M99
Chevrolet	Silverado	2009 - 2013	All	All	All	M99
GMC	Yukon	2008 - 2013	All	All	All	M99
GMC	Sierra	2009 - 2013	All	All	All	M99

Supersession Statement

This PI was superseded to add RPO Codes. Please discard PIT4585E.

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

Condition / Concern

There may be a no crank condition after the vehicle has had very low accessory battery voltage or a dead battery condition. This may have also occurred after the vehicle was jump started with the vehicle key left in the "ON" position and DTC P0C76 may have set.

Recommendations / Instructions

Anytime a battery charger or booster pack is connected to the 12V battery, the ignition key should always be in the off position. If this recommendation is not followed, the Serial Data Gateway Module (SDGM) may report "Crash Sense Failed" and the 300v Hybrid Battery Contactors will remain open until the Hybrid Powertrain Control Module's (HPCM) High Voltage (HV) DTCs are reset.

To reset the HPCM HV DTCs, please use the following procedure:

- 1. Make sure the 12 volt battery is fully charged.**
- 2. Clear DTCs in all modules.**
- 3. Under the Body Menu of the Tech2 select the SDGM Special Functions Menu.**
- 4. Select the "Crash Sensor Reset" in the SDGM by pressing "Enter" then select "Exit" to the Powertrain Menu.**
- 5. Access the HPCM Special Functions Menu.**
- 6. Select "Clear 300V Impact Detection DTC" and press the "Reset" soft key at the bottom of the screen. Exit to the Special Functions Menu.**
- 7. Select the "Clear 300V Present DTC" screen and press the "Reset" soft key at the bottom of the screen. Exit the Special Functions Menu.**
- 8. Turn the ignition key to the "OFF" position.**
- 9. Power "Off" the Tech 2 scan tool and disconnect it from the vehicles diagnostic connector.**
- 10. Open and then close the Driver's Door to disable the Retained Accessory Power (RAP).**
- 11. Wait for 3 minutes and then start the vehicle.**

Note: If there is a P0C76 setting, disconnect the 12v battery. With both 12v battery cables disconnected from the battery, discharge the capacitors by holding the cables together for 15 seconds. Reconnect the 12v battery and perform the above procedure again. If the DTC

still resets, follow SI diagnostics and call the General Motors Technical Assistance Center if needed.

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.

Additional SI Keywords

PIT4585 draw drain electrical engine HCP M99 mode no crank proactive SDG two unwanted voltage



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