

2017 Corvette: Service Bulletin: Vehicle Time Out for Parasitic Draw Testing

Vehicle Time Out for Parasitic Draw Testing

GM TechLink - September 18, 2016

Many control modules in a vehicle stay awake for different amounts of time after the ignition is turned off. To help with diagnosis of parasitic drains, a Vehicle Time Out chart has been developed for 2015 ATS, ATS-V; 2017 LaCrosse, CT6, CTS, XT5, Corvette, Acadia (VIN N); and 2016 Camaro models listing the times after a specific event that certain modules stay awake. Components most likely to cause a parasitic draw on a vehicle's battery are switches, relays, and control modules.

The charts lists the amount of time the modules controlling the HVAC, Flashers, Infotainment/DIC, Drive Mode Switch, Park Assist, Headlamps, and Engine Start/Stop features are awake after each of three specific events — door open/close, key fob unlock, and passive unlock.

Refer to Bulletin #16-NA-272 for the chart. It is not a complete listing of all modules that may be active after the ignition is turned off (for example, the interior lights), but includes the most common. Of the modules or switches that are listed, the backlighting or status LED will be on for the time listed.

Powering Down

After the ignition is turned off, the control modules will begin to go to sleep. However, all control modules do not go to sleep at the same time; some may take up to 30 minutes or longer after turning the ignition off before going to sleep. Other modules may periodically wake up and then go back to sleep. It can take up to two hours before all systems power down allowing the parasitic draw test to pass. An occasional increase in the parasitic draw is normal as long as it returns within one second. These are all normal conditions.

There are many things that can prevent a vehicle from completely going to sleep and passing the parasitic draw test. Make sure all the following conditions are met before performing the parasitic current draw test using the EL 38758 parasitic draw test switch. (Fig. 27)

- Ignition off
- Key out of the ignition switch – when not equipped with keyless access and start
- Retained Accessory Power off – open and close the driver's door after turning off the ignition

- Scan tool not communicating with a vehicle control module – in some cases it may need to be disconnected from the DLC
- All access doors closed
- Headlamps off – Auto headlamps disabled
- Any delay lighting off
- Disable any underhood lamp, if equipped
- HVAC afterblow off
- Any accessory that can work with ignition off is inactive or off
- Wait up to two minutes or longer, after all other listed conditions are met

#16-NA-272: Information on Vehicle Time Out for Parasitic Draw Testing - (Aug 25, 2016)

Subject:				Information on Vehicle Time Out for Parasitic Draw Testing			
Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	LaCrosse	2017	2017				
Cadillac	ATS	2015	2015				
	ATS-V	2015	2015				
	CT6	2017	2017				
	CTS	2017	2017				
	XT5	2017	2017				
Chevrolet	Camaro	2016	2016				
	Corvette	2017	2017				
GMC	Acadia (VIN N)	2017	2017				

<i>Involved Region or Country</i>	North America and N.A Export Regions
<i>Condition</i>	The chart below shows times after specific events that certain items stay awake. Those events include Door Open Close, Key Fob Unlock, and Passive Unlock. Certain Modules

stay awake for a specific amount of time. This information is to inform technicians to avoid mis-diagnosis of parasitic drains.

Vehicle Time Out Chart

Note: This is not a complete listing of all modules that may be active after the ignition is turned off (for example Dome and Interior lights). On the modules or switches that are listed, Customers and Technicians may notice that the backlighting or status LED will be on for the time listed.

Make	Model	Test 1	On Times	Test 2	On Times	Test 3	On Times
Buick	LaCrosse	Sitting In Seat Open /Close Door	HVAC - 18 Sec Flasher - 18 Sec Infotainment/DIC - 25 Sec Drive mode Switch - N/A Park Assist - 18 Sec Head lamp indicator - N/A Engine Start/Stop - 18 Sec	Standing on the outside of vehicle using FOB unlock	HVAC - 18 Sec Flasher - 18 Sec Infotainment/DIC - 40 Sec Drive mode Switch - N/A Park Assist - N/A Head lamp indicator - 30 Sec Engine Start/Stop - N/A	Standing on outside of vehicle using passive lock	HVAC - N/A Flasher - N/A Infotainment/DIC - 10 Sec Drive mode Switch - N/A Park Assist - N/A Head lamp indicator - N/A Engine Start/Stop - N/A

Cadillac	ATS ATS-V	Sitting In Seat Open /Close Door	HVAC - 25 Sec Flasher - N/A Infotainm ent/DIC - 25 Sec Drive mode Switch - 16 Sec Park Assist - N/A Head lamp indicator - N/A Engine Start Stop - N/A	Standing on the outside of vehicle using FOB unlock	HVAC - 10 Sec Flasher - N/A Infotainm ent/DIC - 10 Sec Drive mode Switch - N/A Park Assist - N/A Head lamp indicator - N/A Engine Start/Stop - N/A	Standing on outside of vehicle using passive lock	HVAC - 10 Sec Flasher - N/A Infotainm ent/DIC - 10 Sec Drive mode Switch - N/A Park Assist - N/A Head lamp indicator - N/A Engine Start/Stop - N/A
	CT6	Sitting In Seat Open /Close Door	HVAC - 25 Sec Flasher - 10 Min Infotainm ent/DIC - 25 Sec Drive	Standing on the outside of vehicle using FOB unlock	HVAC - 40 Sec Flasher - 10 Min Infotainm ent/DIC - 40 Sec Drive	Standing on outside of vehicle using passive lock	HVAC - 40 Sec Flasher - 10 Min Infotainm ent/DIC - 40 Sec Drive

		mode Switch - N/A		mode Switch - N/A		mode Switch - N/A
		Park Assist - 10 Min		Park Assist - 10 Min		Park Assist - 10 Min
		Head lamp indicator - N/A		Head lamp indicator - 30 Sec		Head lamp indicator - 30 Sec
		Engine Start Stop - N/A		Engine Start Stop - N/A		Engine Start Stop - N/A
CTS	Sitting In Seat Open /Close Door	HVAC - 25 Sec	Standing on the outside of vehicle using FOB unlock	HVAC - 40 Sec	Standing on outside of vehicle using passive lock	HVAC - 40 Sec
		Flasher - 10 Min		Flasher - 10 Min		Flasher - 1 Min 12 Sec
		Infotainm ent/DIC - 25 Sec		Infotainm ent/DIC - 40 Sec		Infotainm ent/DIC - 40 Sec
		Drive mode Switch - 18 Sec		Drive mode Switch - N/A		Drive mode Switch - N/A
		Park Assist - 10 Min		Park Assist - 10 Min		Park Assist - 1 Min 12 Sec
		Head lamp indicator - N/A		Head lamp indicator - 30 Sec		Head lamp indicator - 30 Sec
		Engine Start Stop		Engine Start Stop		

			- N/A		- N/A		Engine Start Stop - N/A
	XT5	Sitting In Seat Open /Close Door	HVAC - 25 Sec Flasher - 10 Min Infotainment/DIC - 16 Sec Drive mode Switch - N/A Park Assist - 10 Min Head lamp indicator - N/A Engine Start Stop - N/A	Standing on the outside of vehicle using FOB unlock	HVAC - 10 Sec Flasher - 10 Min Infotainment/DIC - N/A Drive mode Switch - N/A Park Assist - 10 Min Head lamp indicator - 30 Sec Engine Start Stop - N/A	Standing on outside of vehicle using passive lock	HVAC - 10 Sec Flasher - 10 Min Infotainment/DIC - N/A Drive mode Switch - N/A Park Assist - 10 Min Head lamp indicator - 30 Sec Engine Start Stop - N/A
Chevrolet	Camaro	Sitting In Seat Open /Close Door	HVAC - 25 Sec Flasher - N/A Infotainment/DIC - 25 Sec Drive mode	Standing on the outside of vehicle using FOB unlock	HVAC - N/A Flasher - N/A Infotainment/DIC - 38 Sec Drive mode	Standing on outside of vehicle using passive lock	HVAC - N/A Flasher - N/A Infotainment/DIC - 12 Sec Drive mode

		Switch - 25 Sec		Switch - N/A		Switch - N/A
		Park Assist - N/A		Park Assist - N/A		Park Assist - N/A
		Head lamp indicator - N/A		Head lamp indicator - N/A		Head lamp indicator - N/A
		Engine Start Stop - N/A		Engine Start Stop - N/A		Engine Start Stop - N/A
Corvette	Sitting In Seat Open /Close Door	HVAC - N/A	Standing on the outside of vehicle using FOB unlock	Only lights on Front Dome and Rear Interior- 25 Sec	Standing on outside of vehicle using passive lock	Passive lock pops open door. Refer to Test one
		Flasher - N/A				
		Infotainment/DIC - 15 Sec				
		Drive mode Switch - 15 Sec				
		Park Assist - N/A				
		Head lamp indicator - N/A				
		Engine Start Stop - 15 Sec				

GMC	Acadia (VIN N)	Sitting In Seat Open /Close Door	HVAC - 15 Sec	Standing on the outside of vehicle using FOB unlock	HVAC - N/A	Standing on outside of vehicle using passive lock	HVAC - N/A
			Flasher - 18 Sec		Flasher - N/A		Flasher - N/A
			Infotainm ent/DIC - 35 Sec		Infotainm ent/DIC - 35 Sec		Infotainm ent/DIC - 12 Sec
			Drive mode Switch - 10 Min		Drive mode Switch - 10 Min		Drive mode Switch - 10 Min
			Park Assist - 18 Sec		Park Assist - N/A		Park Assist - N/A
			Head lamp indicator - N/A		Head lamp indicator - 30 Sec		Head lamp indicator - N/A
			Engine Start Stop - 15 Sec		Engine Start Stop - N/A		Engine Start Stop - N/A

Online URL: <https://www.corvetteactioncenter.com/tech/knowledgebase/article.php?id=1318>