

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 | 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 | Standing 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 |

| | | | | | | | |
|--------------|-------|------------------------|--|--|--------------------------------------|---|--------------------------------------|
| | | | - N/A | | indicator - 30 Sec | | Engine Start/St op - N/A |
| | | | Engine Start/St op - 18 Sec | | Engine Start/St op - N/A | | |
| Cadilla c | ATS | Sitting In Seat | HVAC - 25 Sec | Standin g on the outside of vehicle using FOB unlock | HVAC - 10 Sec | Standin g on outside of vehicle using passive lock | HVAC - 10 Sec |
| | ATS-V | Open/C lose Door | Flasher - N/A | | Flasher - N/A | | Flasher - N/A |
| | | | Infotai nment/ DIC - 25 Sec | | Infotai nment/ DIC - 10 Sec | | Infotai nment/ DIC - 10 Sec |
| | | | Drive mode Switch - 16 Sec | | Drive mode Switch - N/A | | Drive mode Switch - N/A |
| | | | Park Assist - N/A | | Park Assist - N/A | | Park Assist - N/A |
| | | | Head lamp in dicator - N/A | | Head lamp in dicator - N/A | | Head lamp in dicator - N/A |

| | | Engine Start Stop - N/A | Engine Start/St op - N/A | Engine Start/St op - N/A | |
|-----|---|---|--|---|--|
| CT6 | <p>Sitting In Seat Open/C lose Door</p> <p>HVAC - 25 Sec</p> <p>Flasher - 10 Min</p> <p>Infotainment/ DIC - 25 Sec</p> <p>Drive mode Switch - N/A</p> <p>Park Assist - 10 Min</p> <p>Head lamp in dicator</p> | <p>Standin g on the outside of vehicle using FOB unlock</p> | <p>HVAC - 40 Sec</p> <p>Flasher - 10 Min</p> <p>Infotai nment/ DIC - 40 Sec</p> <p>Drive mode Switch - N/A</p> <p>Park Assist - 10 Min</p> <p>Head lamp in dicator</p> | <p>Standin g on outside of vehicle using passive lock</p> | <p>HVAC - 40 Sec</p> <p>Flasher - 10 Min</p> <p>Infotai nment/ DIC - 40 Sec</p> <p>Drive mode Switch - N/A</p> <p>Park Assist - 10 Min</p> <p>Head lamp in dicator</p> |

| | | | - N/A | | - 30 Sec | | - 30 Sec |
|-----|----------------------------------|-----------------------------|--|-------------------------------|--|-----------------------------|-------------------------|
| | | | Engine Start Stop - N/A | | Engine Start Stop - N/A | | Engine Start Stop - N/A |
| CTS | Sitting In Seat Open/C lose Door | HVAC - 25 Sec | Standin g on the outside of vehicle using FOB unlock | HVAC - 40 Sec | Standin g on outside of vehicle using passive lock | HVAC - 40 Sec | Flasher - 1 Min 12 Sec |
| | | Infotai nment/ DIC - 25 Sec | | Infotai nment/ DIC - 40 Sec | | Infotai nment/ 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 in dicator - N/A | | Head lamp in dicator - 30 Sec | | Head lamp in dicator - 30 | |

| | | Engine Start Stop - N/A | | Engine Start Stop - N/A | | Sec |
|-----|---|---|---|---|---|---|
| XT5 | <p>Sitting In Seat Open/C lose Door</p> <p>Infotainment/ DIC - 16 Sec</p> <p>Drive mode Switch- N/A</p> <p>Park Assist - 10 Min</p> <p>Head lamp in dicator - N/A</p> <p>Engine</p> | <p>HVAC - 25 Sec</p> <p>Flasher - 10 Min</p> <p>Infotainment/ DIC - N/A</p> <p>Drive mode Switch- N/A</p> <p>Park Assist - 10 Min</p> <p>Head lamp in dicator - N/A</p> <p>Engine</p> | <p>Standin g on the outside of vehicle using FOB unlock</p> | <p>HVAC - 10 Sec</p> <p>Flasher - 10 Min</p> <p>Infotainment/ DIC - N/A</p> <p>Drive mode Switch - N/A</p> <p>Park Assist - 10 Min</p> <p>Head lamp in dicator - 30 Sec</p> | <p>Standin g on outside of vehicle using passive lock</p> | <p>HVAC - 10 Sec</p> <p>Flasher - 10 Min</p> <p>Infotainment/ DIC - N/A</p> <p>Drive mode Switch - N/A</p> <p>Park Assist - 10 Min</p> <p>Head lamp in dicator - 30 Sec</p> |

| | | | Start Stop - N/A | | Engine Start Stop - N/A | | 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 Switch - 25 Sec Park Assist - N/A Head lamp in dicator - N/A Engine Start Stop - | Standin g on the outside of vehicle using FOB unlock | HVAC - N/A Flasher - N/A Infotai nment/ DIC - 38 Sec Drive mode Switch - N/A Park Assist - N/A Head lamp in dicator - N/A Engine Start Stop - N/A | Standin g on outside of vehicle using passive lock | HVAC - N/A Flasher - N/A Infotai nment/ DIC - 12 Sec Drive mode Switch - N/A Park Assist - N/A Head lamp in dicator - N/A Engine Start Stop - N/A |

| | | | | | | | |
|----------|------------------------------------|---|--|--|--|--|------------|
| | | | N/A | | | | |
| Corvette | Sitting In Seat Open/Close Door | HVAC - N/A 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 | Standin g on the outside of vehicle using FOB unlock | Only lights on Front Dome and Rear Interior - 25 Sec | Standin g on outside of vehicle using passive lock | Passive lock pops open door. Refer to Test one | |
| GMC | Acadia | Sitting In Seat | HVAC - 15 | Standin g on | HVAC - N/A | Standin g on | HVAC - N/A |

| | | | | | | |
|---------|-----------------|----------------------------|-------------------------|------------------------------|--------------------|---------------------------|
| (VIN N) | Open/Close Door | Sec | the outside of vehicle | Flasher - N/A | outside of vehicle | Flasher - N/A |
| | | Flasher - 18 Sec | Infotainment/FOB unlock | Infotainment/FOB unlock | using passive lock | Infotainment/FOB unlock |
| | | Infotainment/FOB unlock | | | | 12 Sec |
| | | Drive mode Switch - 35 Sec | | Drive mode Switch | | Drive mode Switch |
| | | Drive mode Switch - 10 Min | | - 10 Min | | - 10 Min |
| | | Park Assist - N/A | | Park Assist - N/A | | Park Assist - N/A |
| | | Park Assist - 18 Sec | | Head lamp indicator - 30 Sec | | Head lamp indicator - N/A |
| | | Head lamp indicator - N/A | | Engine Start | | Engine Start |
| | | Engine | | Stop - N/A | | Stop - N/A |
| | | Start | | N/A | | |

Online URL:

<https://www.corvetteactioncenter.com/tech/knowledgebase/article/2017-corvette-service-bulletin-vehicle-time-out-for-parasitic-draw-testing-1318.html>