

2014 Corvette: GM TechLink Article: Power Memory Seat Operation

Source: GM TechLink

Date: April, 2014

The power driver's seat with memory recall and Easy Exit recall operations on some 2014 Corvettes (with the Memory Package, RPO AAB) may seem to operate erratically or intermittently. To help with diagnosis, it's necessary to become familiar with the operational characteristics of this all-new system.



Some common comments include:

- The seat won't recall when entering the vehicle
- The seat only moves when holding one of the memory buttons (button 1, 2 or the Exit button)
- The seat stops moving when releasing a memory button
- Sometimes the seat moves completely to the stored position by pressing and releasing a memory button

Seat Travel Limit Switches



Bulkhead Limit Switch located on the left and right body harness conduit.

The new Bulkhead Limit Switch, located on the left and right body harness conduit, is used in both seating positions and acts to prevent damage to the body harness and seatback covers when the seat or seatback is moved in a rearward direction. When this switch is active (any time pressure is detected against the rear bulkhead/carpet area directly behind the seats), power seat movement is limited to movements that will bring the seat/seat-back forward.

The new Seatback Unlock Switch, located inside the seatback assembly at the recliner mechanism, is used in both seat positions to prevent the seat from moving further rearward to ensure that the seat-back can return to the normal upright position. When this switch is active (any time the seatback is manually folded forward), power seat movement is limited to movements that will bring the seat/seatback forward.

Both of these switches are viewable with the GDS2 scan tool. Common reasons for the Bulkhead Limit Switch being active are if the Easy Exit setting is stored in a position that applies pressure to the rear bulkhead or if an object is behind the seatback.

Supervised and Unsupervised Movements

Unlike prior models, the new system features unsupervised and supervised modes.

Unsupervised movement occurs when the operator has pressed and released, within 1/2 second, a memory button, which allows the seat to move on its own to a previously stored position.

TIP: Pressing any power seat button or memory button during unsupervised movement stops the seat. To resume recall operation, press and release, within 1/2 second, the desired memory button again. Depending on transmission type, unsupervised movement will occur if:

- **Automatic transmission** – The vehicle ignition is on, the transmission is in Park, and the Bulkhead Limit Switch Seatback and Unlock Switch are both inactive.
- **Manual transmission** – The vehicle ignition is on, the clutch is depressed, the Parking Brake is applied, and the Bulkhead Limit Switch and Seatback Unlock Switch are both inactive.

Supervised movement occurs when a memory button is actively pressed and held, which allows the seat to move only while the operator is supervising the seat movement. Releasing the memory button will stop the seat movement. Only supervised memory recall operation can occur when the vehicle ignition is not in the On/Run Position. If the Bulkhead Limit Switch or Seatback Unlock Switch is active, either no operation will occur or supervised operation will occur, depending on which switch is active and the requested direction of seat travel

Auto Memory Recall

The new memory seat system allows the operator to enable or disable the Auto Memory Recall operation of the seat. Auto Memory Recall is when the seat moves to a previously stored position either when opening the driver's door or when the vehicle ignition is turned on. In order for auto recall to function, the

feature must be turned on in the Settings menu of the infotainment system. The operation of Auto Memory Recall is based on transmission type:

- **At Driver's Door Open (Automatic transmission)** – When the vehicle ignition is off and the Unlock key fob button is pressed, auto recall will occur if the driver's door is opened within four minutes. The seat position will be recalled to the set position if the Bulk-head Limit Switch or Seatback Unlock Switch is inactive. If the driver's door is already open, pressing the Unlock key fob button will cause the seat to recall to the desired position if the Bulkhead Limit Switch or Seatback Unlock Switch is inactive.
- **At Ignition On (Automatic transmission)** – When the vehicle ignition button is pressed, the seat position will be recalled to the set position without a memory button being pressed if the Bulkhead Limit Switch or Seatback Unlock Switch is inactive.
- **Manual transmission** – The only available selection is on or off. If turned on, when the vehicle ignition is off and the driver's door is opened, the seat position will be recalled to the set position if the Bulkhead Limit Switch or Seatback Unlock Switch is inactive.

Easy Exit

The new memory system also allows the operator to enable or disable the Easy Exit Automatic Recall operation of the driver's seat. This feature recalls the current driver's previously stored Exit button position when exiting the vehicle. In order for the Easy Exit feature to function, it must be turned on in the Settings menu of the infotainment system. Easy Exit recall automatically activates when one of the following occurs:

- The vehicle is turned off and the driver's door is opened within a short time.
- The vehicle is turned off with the driver's door open.
- The Exit button is pressed.

TIP: Similar to Auto Memory Recall, the operation of the Easy Exit recall will differ based on Transmission type. Refer to the Supervised/Unsupervised Movements section.

Thanks to Jeremy Richardson

Online URL:

<https://www.corvetteactioncenter.com/tech/knowledgebase/article/2014-corvette-gm-techlink-article-power-memory-seat-operation-3.html>