



Durability Event: Idle and Accessories

1 Introduction

Note: Nothing in this standard supercedes applicable laws and regulations.

Note: In the event of conflict between the English and domestic language, the English language shall take precedence.

1.1 Purpose. To subject a vehicle to engine idles and a limited number of accessory cycles during high ambient temperatures and after specific durability events.

1.2 Applicability. The test instructions covered in this standard are intended for use in passenger car and truck testing and is adapted at the Desert Proving Ground, Yuma, The United States of America.

This global test procedure is intended to document the test facility requirements and driving instructions necessary to properly execute this durability event. Regional test procedures exist in order to implement this global procedure at the various GM proving grounds. Each regional test procedure includes the driving instructions for the specific access roads to and from the test facility, references to local signs and landmarks, and any other region-specific information necessary to implement this GMW durability event.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

None

2.2 GM Standards/Specifications.

GMW15444

2.3 Additional References.

2.3.1 Yuma. DR.YU.IA.

3 Resources

3.1 Facilities. Refer to the appropriate proving ground driving instruction document.

- Yuma Proving Ground: DR.YU.IA

3.1.1 Calibration. The test facilities and equipment shall be in good working order and shall have a valid calibration label.

3.1.2 Alternatives. Alternative test facilities and equipment may also be used. However, all measuring variables as specified in this standard shall be determined correctly with respect to their physical definition.

3.2 Equipment. Refer to the appropriate proving ground driving instruction document.

3.3 Test Vehicle/Test Piece. Not applicable.

3.4 Test Time. The time required to execute this event varies by proving ground. Refer to the appropriate proving ground driving instruction document.

3.5 Test Required Information. Not applicable.

3.6 Personnel/Skills. Refer to the appropriate proving ground driving instruction document.

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4 Procedure

4.1 Preparation. Refer to the proving ground driving instruction document.

4.2 Conditions.

4.2.1 Environmental Conditions. In situations where severe weather makes driving unsafe, this event should be postponed until conditions improve.

4.2.2 Test Conditions. Deviations from the requirements of this standard shall have been agreed upon. Such requirements shall be specified on component drawings, test certificates, reports, etc.

4.3 Instructions. This event is to be performed in conjunction with other events during the engine idle time specified in the appropriate proving ground driving instruction document.

This event should be performed at the completion of the adjoining event in the nearest location that does not interfere with other traffic.

4.3.1 Engine Idle in Gear. Pull into the idle location, center the steering wheel and **STOP**. Select maximum air conditioning (if so equipped) and set the blower fan to its highest setting. With automatic transmission in **HIGH RANGE** (manual transmission in gear and clutch depressed), **APPLY SERVICE BRAKE PEDAL. IDLE for ONE MINUTE.** Turn the steering wheel **FULL RIGHT** and then **FULL LEFT**. Turn the steering wheel back to the center position.

4.3.2 Engine Idle in Park and Accessory Check. **SHIFT** automatic transmission to **PARK**. (For vehicles with manual transmission, shift transmission lever to neutral position and release the clutch pedal and engage park brake.) Allow engine to continue idling.

4.3.2.1 Glove Box and Remote Trunk Release. Open the glove box to its rest position. Open the trunk using the remote trunk release located in the interior of the vehicle, if so equipped. Close the glove box.

4.3.2.2 Door Lock Cycles. Lock and unlock all of the doors twice from the interior of the vehicle using the power door lock switch. If not equipped with power door locks, manually lock and unlock all of the doors twice.

4.3.2.3 Doors and Windows. Cycle each window fully open and closed using the power window switch(es) at the driver location, if so equipped. Include rear sliding window, if so equipped.

4.3.2.3.1 Open the driver's door to its full open position and exit the vehicle. With the door open, partially lower and raise the window for that door with its power window switch to check if the switch is functioning properly. If not equipped with power windows, manually crank the window fully open and closed. Close the door. Fully open and close the driver's door two (2) more times without window operation.

4.3.2.3.2 Open the front passenger door to its full open position. With the door open, partially lower and raise the window for that door with its power window switch to check if the switch is functioning properly. If not equipped with power windows, manually crank the window fully open and closed. Close the door. Fully open and close the front passenger door again without window operation.

4.3.2.3.3 Open all other door(s) on the passenger side to their full open position. With the door(s) open, partially lower and raise the window(s) for those doors with their power window switch(es) to check if the switch(es) are functioning properly. If not equipped with power windows, manually crank the window(s) fully open and closed. Close the doors. Fully open and close the passenger side rear door(s) again without window operation.

4.3.2.3.4 Open all door(s) on the driver's side, including the driver's door, to their full open position. With the door(s) open, partially lower and raise the window(s) for those doors with their power window switch(es) to check if the switch(es) are functioning properly. If not equipped with power windows, manually crank the window(s) fully open and closed. Close the doors. Fully open and close the driver's side door(s) again without window operation.

4.3.2.3.5 Open the driver's door to its full open position, enter the vehicle, and close the door.

4.3.2.4 Horn. Sound the horn for 1 s to 3 s at each horn button.

4.3.2.5 Windshield Wiper and Washer. Use the windshield washer for 1 s to 3 s and allow the windshield to clear. Activate the windshield wipers and cycle them once at each setting (using the windshield washer as necessary to keep the windshield wet). Repeat this procedure using the rear washer and wiper, if so equipped.

4.3.2.6 Tilt Steering Wheel. Lower tilt steering wheel, if so equipped, to its lowest position. Release tilt, allowing steering wheel to travel to its highest position under its own force. Return steering wheel to normal driving position.

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