



Service Bulletin

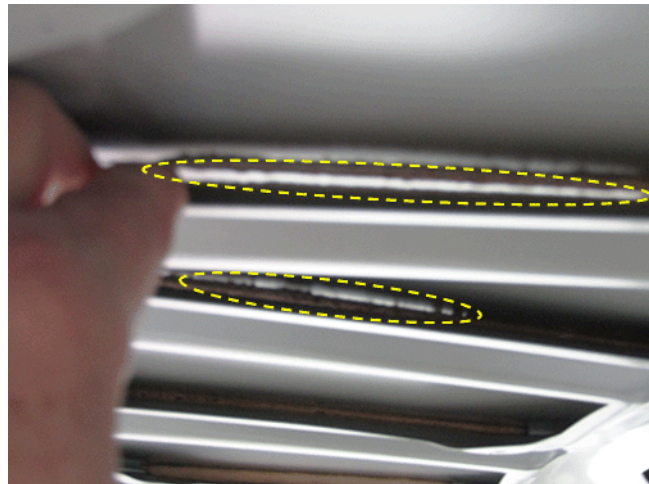
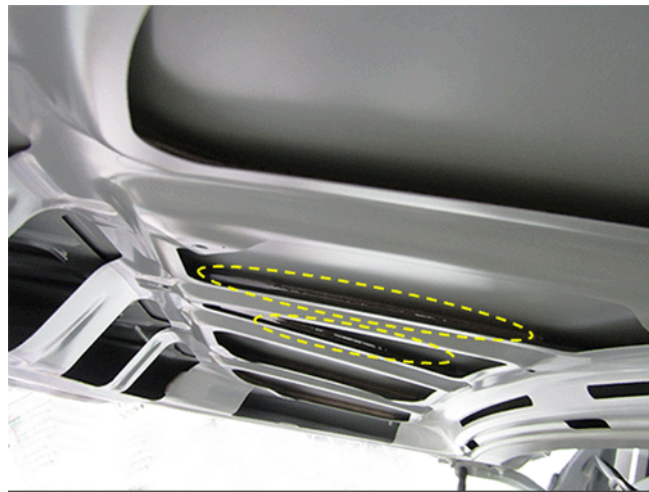
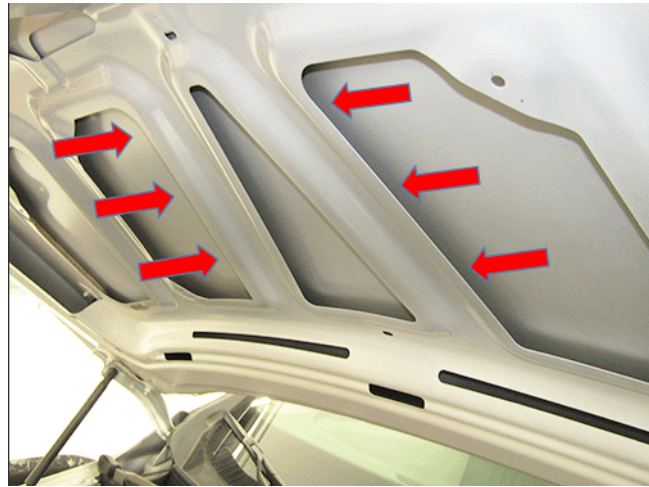
TECHNICAL

Subject: Hood Flutter, Shake or Vibration at Highway Speeds or over Rough Road Conditions

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	Envision	2016	2017			All	All

Involved Region or Country	North America and N.A. Export Regions
Condition	Some customers may comment on the vehicle hood fluttering, vibrating or displaying visible motion at highway speeds or over rough road surfaces.

Cause



Note: As shown in the graphic examples above, the panels may show evidence of separation and/or a gap or void in the original adhesive material.

The cause of the condition may be that the inner and outer hood panels may not be sufficiently bonded together at all points. At highway speeds or over rough surfaces, the outer sheet metal may show signs of a flutter at some locations.

Correction

To prevent the metal from fluttering, apply panel vibration control material between the inner and outer hood panels, following the Service Procedure below.

Parts Information

Either of the products below can be used for this repair.

- For additional information on SEM 39977, contact www.semproducts.com or call SEM at 1-866-327-7829. SEM products are also available at local automotive paint supply stores.
- For additional information on 3M 04274, contact www.3m.com/automotive or call 1-888-3M HELPS (1-888-364-3577).

Description	Part Number	Material Allowance
SEM 39977*	Dual - Mix™ Panel Control Vibration Material	\$7.60 (U.S.) \$10.16 (Canada)
3M™ 04274*	Duramix NVH Dampening Material	

*There is enough material to repair approximately 7 vehicles. Store the remaining material for future use.

Warranty Information

For vehicles repaired under warranty, use:

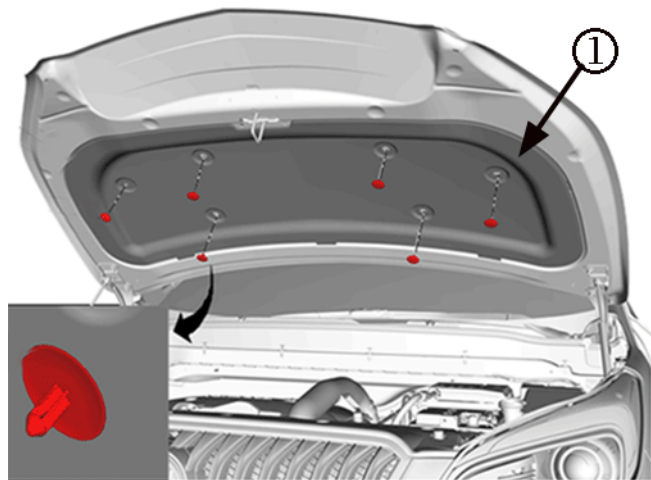
Labor Operation	Description	Labor Time
1480308*	Bond Inner and Outer Hood Panels	0.4 hr

*This is a unique Labor Operation for Bulletin use only.

Service Procedure

Important: The hood fluttering or vibration DOES NOT indicate that any adjustment of the hood latch, striker or bumpers is needed. Hood overslam bumpers that are not in contact or a hood latch that is set slightly high may also lead to hood vibration. However, this procedure is for hood inner to outer panel adhesive separation after the latch position and overslam bumper contact have been verified.

1. Open the hood.



2. Remove the underhood insulation pad (1). Refer to *Hood Insulator Replacement* in SI.
3. Cover the engine and the cowl area with a blanket, towel or other protective covering. Panel vibration control material may drip while being applied.



Note: The condition is most commonly found at the two center-most inner panels (1), however in some cases the next outboard inner panels (2) may also be affected.

4. The graphic above shows the areas most likely to require bonding. Examine the underhood panel for signs of original factory shrinkage or insufficient application, similar to the pictures listed in the Cause section.



Note: Application to the right side panels is shown in the graphic above.

5. Using a non-expanding two-part panel control vibration material, such as SEM 39977*, 3M™ 04274*, or equivalent, fill the voids between the inner and outer hood panels. Keep the tip of the applicator right up against the panel in order to allow the material to flow in between the panels. Follow the manufacturers instructions for proper application.

Important: While most of the areas to bond will be covered by the underhood insulation pad, maintain a neat appearance.

6. Reinstall the underhood insulation pad. Refer to *Hood Insulator Replacement* in SI.
7. Remove the blanket covering the engine and fenders.
8. Inspect for, and clean up, any dripped material.
9. Close the hood and allow the panel vibration control material to set per manufacturers recommendation.

*We believe these sources and their products to be reliable. There may be additional manufacturers of such material. General Motors does not endorse, indicate any preference for or assume any responsibility for the products from these firms or for any such items which may be available from other sources.

Version	1
Modified	

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that

your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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