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## General Motors Position Statement Bumper/Fascia Replacement with Advanced Driver Assistance Systems (ADAS)

- General Motors DOES NOT APPROVE the use of aftermarket, reconditioned, or salvage Bumpers/Fascia's on GM vehicles equipped with ADAS.
- Aftermarket, reconditioned or salvage Bumpers/Fascia's may have different material specifications than what was designed, tested and validated for use with ADAS.

General Motors (GM) vehicles, systems and components are engineered, tested and manufactured to protect vehicle occupants based upon both government mandated and internal corporate requirements relative to durability, Noise, Vibration and Harshness (NVH), occupant protection, and vehicle safety. The overall structural integrity of the vehicle is dependent on maintaining its inherent design specifications.

At General Motors, safety is our overriding priority. With the safety of our customers at the centre of everything we do, we are limiting repairs to Bumpers/Fascia's with Advanced Driver Assistance Systems (ADAS) to topcoat refinish only. Further, topcoat refinish material thickness of repaired ADAS Bumper Fascia systems must not exceed 13 mils in thickness. Any repairs such as gouges, tears or damage that requires the use of substrate repair material or reinforcement tapes must be avoided.

Primer and topcoat refinish methods can be employed on ADAS equipped Bumper/Fascia systems, provided the total paint mil thickness on any portion of the Bumper/Fascia does not exceed 13 mils. It is necessary that a non-metallic paint film thickness tool be used post repair to ensure material film build on part does not exceed 13 mils in thickness.

### Examples of ADAS technology include:

- Ultrasonic Blind Spot Detection
- Integrated Brake Assist
- Rear Emergency Braking
- Automatic Collision Preparation
- Rear Cross-Traffic Alert
- Adaptive Cruise Control

Reconditioned Bumpers/Fascia's available in the aftermarket may have been repaired using substrate repair "filler material" or reinforcement tapes and as such General Motors does not endorse the use of reconditioned ADAS Bumper/Fascia systems. Only NEW Genuine GM ADAS Bumpers/Fascias and components are tested and validated as a safety system.



With the continued expansion and use of ADAS safety systems on GM vehicles, it is critically important to be aware of the proper service and replacement requirements for Bumper/Fascia systems. To help preserve the performance of repaired GM vehicles, GM publishes vehicle specific collision repair procedures and manufactures and sells Genuine GM Parts. Genuine GM Parts offer the same safety and performance as the parts originally installed on new Holden, Opel, GMC and Chevrolet vehicles. Repairing a vehicle using Genuine GM Parts and following GM repair procedures helps ensure that a vehicle is returned to pre-accident condition.

See attachment "A" for additional details

### Bumper/Fascia Replacement with Advanced Driver Assistance Systems (ADAS)

#### Attachment A content:

Using only new Genuine GM replacement Bumper/Fascia parts from the Australian & New Zealand authorised supplier network will ensure that the ADAS systems will perform as designed by General Motors. Doing so, upfront, will also reduce cycle time. Aftermarket Bumper/Fascia assemblies may not have been designed, engineered, or tested to operate and perform as intended by GM. Non-original parts can be made of different material, or a slightly different configuration, which may cause the safety functionality to not perform as designed.

The use of non-OEM safety and structural parts and components may compromise the overall crashworthiness and occupant safety of General Motors vehicles in a subsequent collision.

#### Bumper/Fascia Repair

Depending on vehicle build configuration, the Bumper/Fascia system may have ADAS sensors attached to the inner surface that are not visible from the exterior of the vehicle (Please refer to Figure 1.1). GM is limiting repairs to these Bumper/Fascia systems on vehicles equipped with ADAS.

Figure 1.1





These repairs are defined as:

(1) *Bumper/Fascia Substrate Damage*

Any Bumper/Fascia equipped with ADAS(s) that requires substrate repair must be replaced. An example of substrate repair is shown in Figure 1.2

Figure 1.2



(2) *Paint Refinish Repairs*

Paint repairs can be made, provided that the total paint mil thickness on any portion of the Bumper/Fascia does not exceed 13 mils. (Appropriate paint mil gauge should be used).

NOTE: Paint MIL gauge such as PosiTector 200 by DeFelsko, shown in Figure 1.3, can determine paint film thickness on a non-metallic surface.

Figure 1.3



Safety is General Motors' overriding priority. When repairing GM vehicles, it is important to follow GM OEM repair procedures and use Genuine GM Parts to help ensure that the ADAS systems will continue to perform as designed by General Motors.

*Further details specifically available for each applicable vehicle model – please refer to GM Service Information Document ID # 5525750 – Collision Repair Position Statements.*

Available online at : [gmtradeparts.com.au](http://gmtradeparts.com.au) and [gmtradeparts.co.nz](http://gmtradeparts.co.nz)