

## BASF, Ford, Magna Exteriors

## Carbon Composite Grille Opening Reinforcement (GOR)

Grille opening reinforcements are used to structurally tie the upper rails (shotguns) to the lower frame rails, provide the general shape of the frontend, absorb energy during a frontal impact, provide a rigid mount for crash sensor, and facilitate attachment schemes for components such as head lights, hood latch, and front fascia assembly. The GOR increases the overall body stiffness to the front of the vehicle and can easily unbolted to remove the engine if necessary.

- The new all carbon fiber composite GOR is 24% (2.5 lbs.) lighter than its metal stamping overmolded with plastic predecessor.
- For direct part to part baseline system comparison, this new GOR for the 2016 Shelby Mustang GT350 has an overall system weight of 8.1 lbs. versus the previous version of 10.6 lbs.
- The carbon fiber composite part offers better aesthetics resulting in elimination of the beauty cover that reduces further 1.9 lbs with a total system reduction of 4.4 lbs.





