This integration of an Active Grille Shutter and bolster function into the front end module includes sheet metal bolt on reinforcements in the structure. Injection molding the plastic metal hybrid replaces separate molding of the two systems and a part count reduction of 20 separate parts. This saved 1.76 lbs of weight and enabled an approximate $8 cost savings. This process also improved sealing efficiency to improve heat exchanger performance. It is scalable to other OEMs or vehicle sizes.