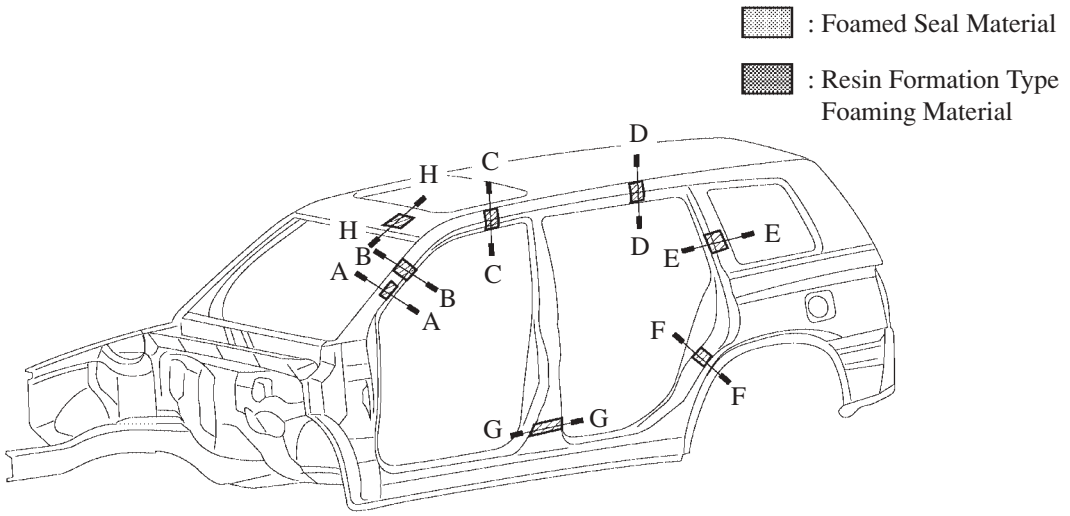
■LOW VIBRATION AND LOW NOISE BODY

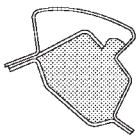
1. General

Effective application of vibration damping and noise suppressant materials reduce engine and road noise.

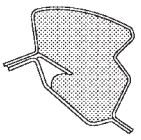
2. Sound Absorbing and Vibration Damping Materials

- Foamed seal material and resin formation type forming material are applied onto the roof panel and pillars to reduce wind and road noise.

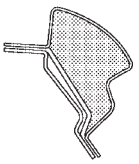




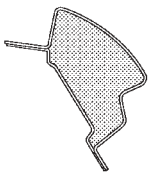
A – A Cross Section



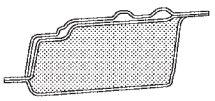
B – B Cross Section



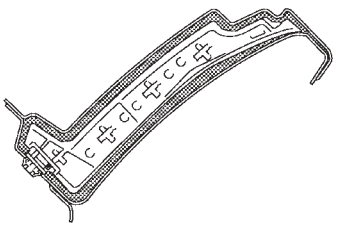
C – C Cross Section



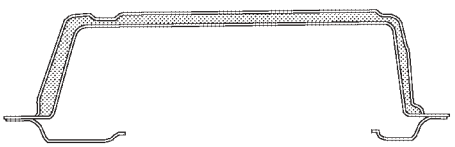
D – D Cross Section



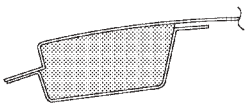
E – E Cross Section



F – F Cross Section



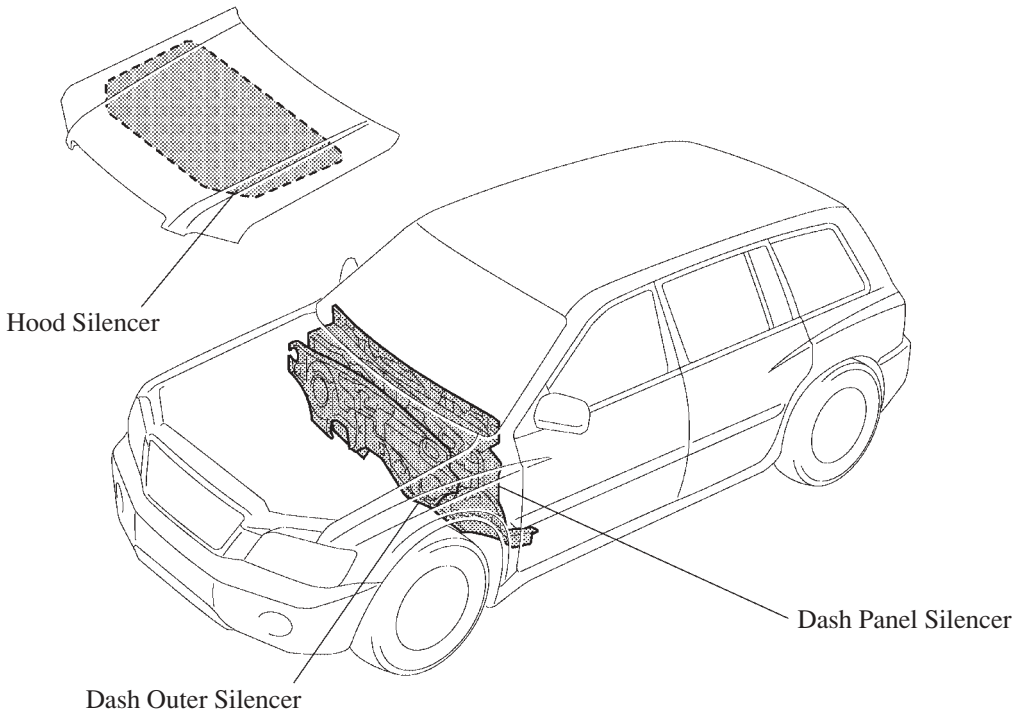
G – G Cross Section



H – H Cross Section

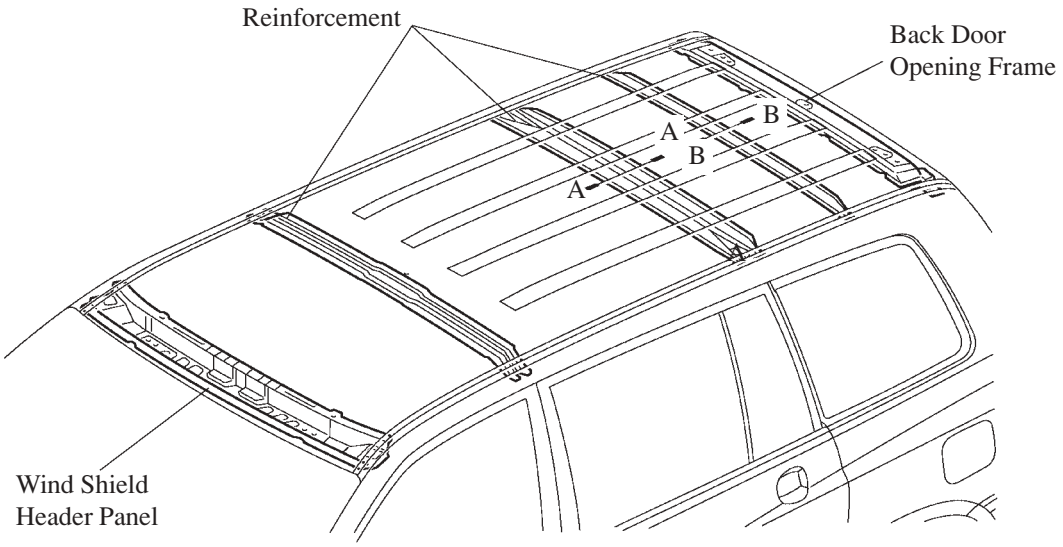
257HL86

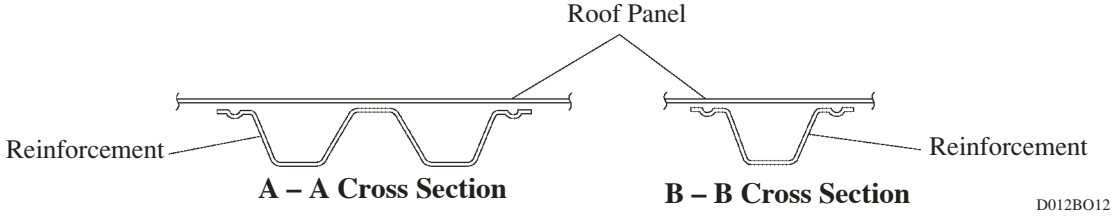
- The large-size dash panel silencer, the dash outer silencer and the hood silencer have been adopted to reduce the engine and the road noise and improve the quietness in the compartment.



D012BO02

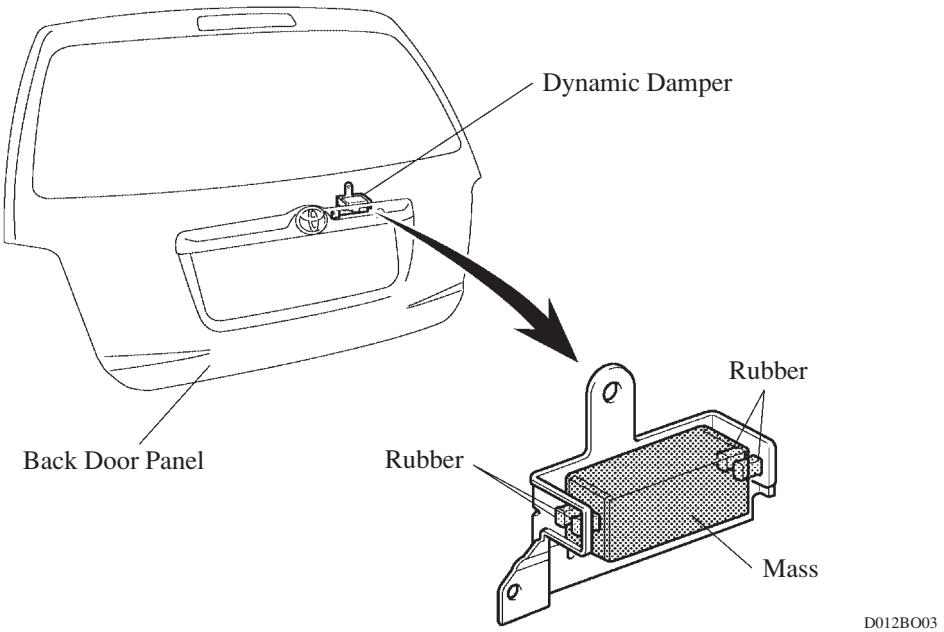
- The location and cross-section structure of the roof reinforcements have been optimized to improve roof panel sound absorption and vibration damping.





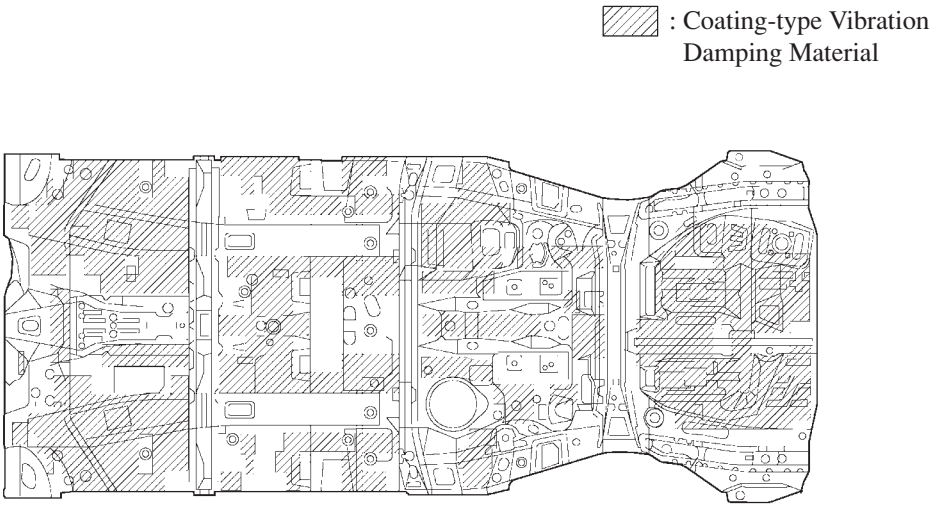
D012BO12

- A dynamic damper has been provided on the back door, which is susceptible to the influences of the booming sound. Thus, the booming sound that occurs during idling or is transmitted from the road has been reduced.



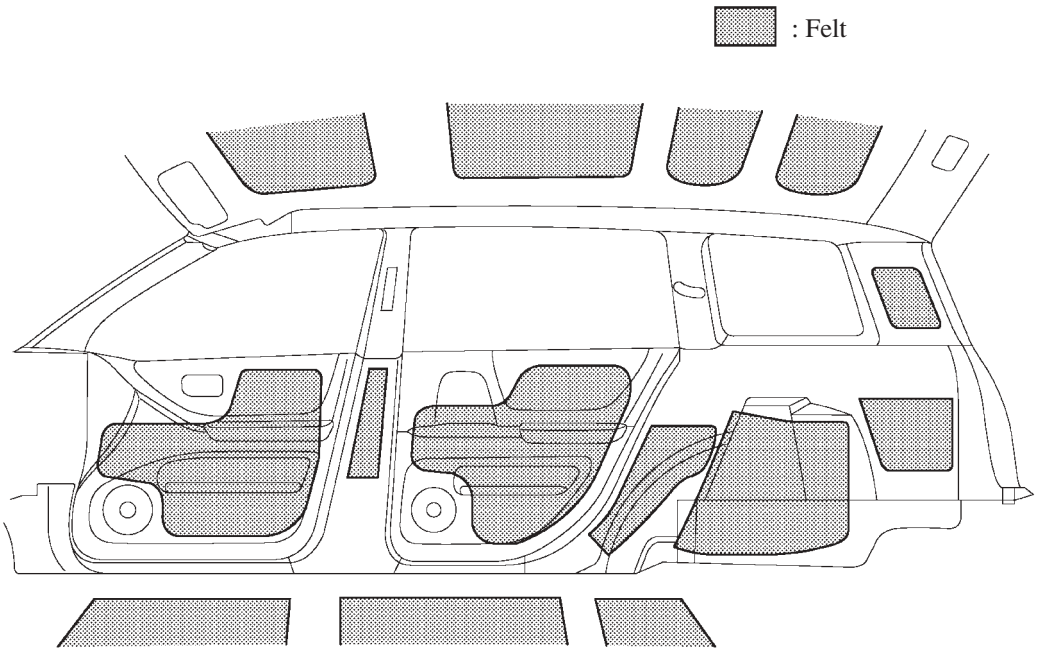
Dynamic Damper

- The new Kluger has adopted a coating-type vibration damping material that foams and adheres to the floor to reduce road noise.



Top View of the Floor Panel

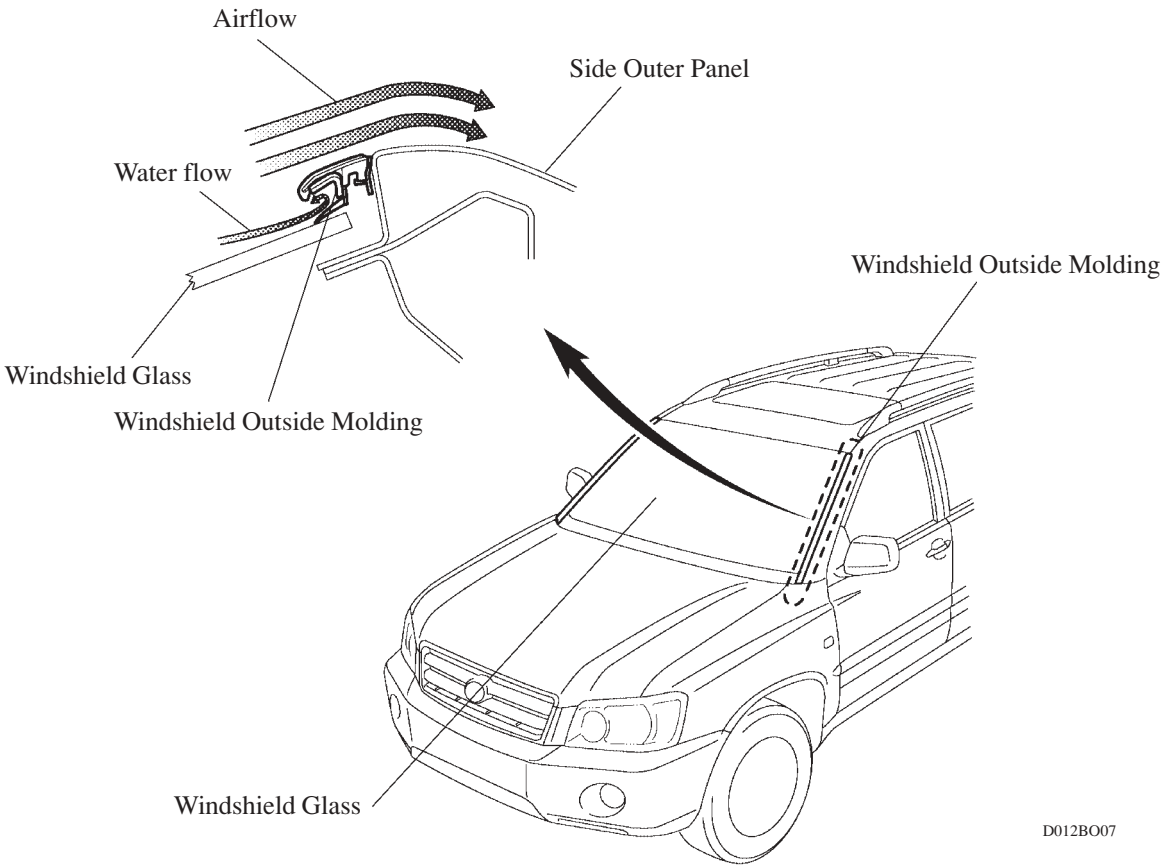
- Resin felt pads that are effective in absorbing sounds are optimally placed to reduce road noise to ensure quieter vehicle operation.



D012BO18

3. Reducing Wind Noise

The shape of the windshield outside molding has been optimized to reduce wind noise and also prevent the flow of rain water and washer fluid to the door glass.



D012BO07