The purposes of this paper are twofold: first, to understand the importance of federal motor vehicle safety standards 207.210 in occupant safety, and second, to enhance the strength of driver seat failure components in an effort to create safety guidelines for the vehicle's driver seat. The federal motor vehicle safety standards 207.210 apply to:

- International Journal of Engineering Research and Applications (IJERA), an open access online peer-reviewed international journal that publishes research.