



Seatbelt Tightening System – Introduction

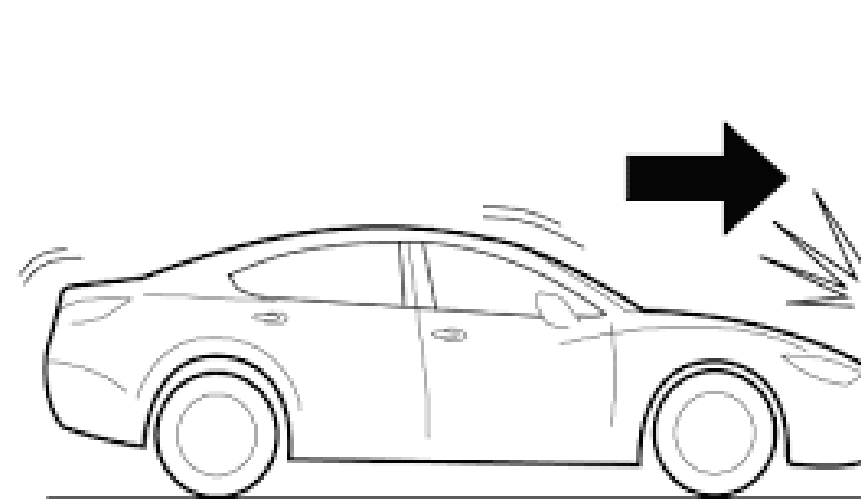
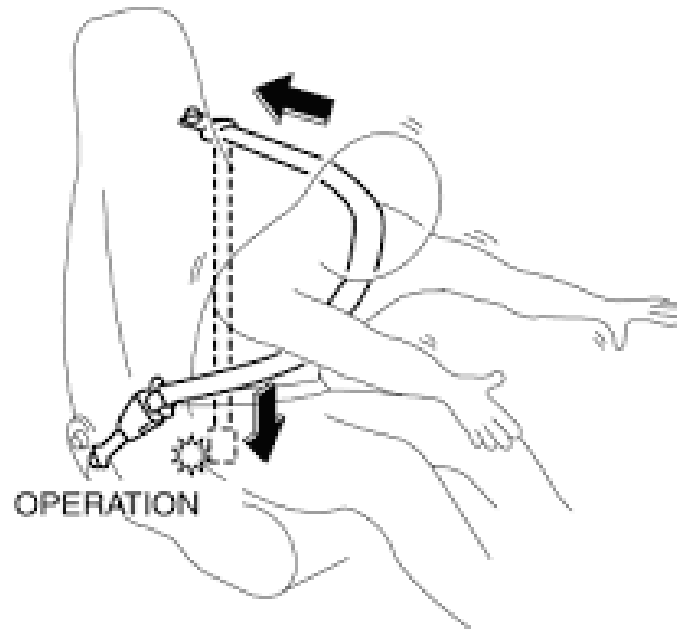


- A seat belt is a vehicle safety device designed to secure the driver or a passenger of a vehicle against harmful movement that may result during a collision.
- A seat belt reduces the likelihood of death or serious injury in a traffic collision.
- It reduces the force of secondary impacts with interior strike hazards, by keeping occupants positioned correctly for maximum effectiveness of the airbag.
- It preventing occupants being ejected from the vehicle in a crash or if the vehicle rolls over.



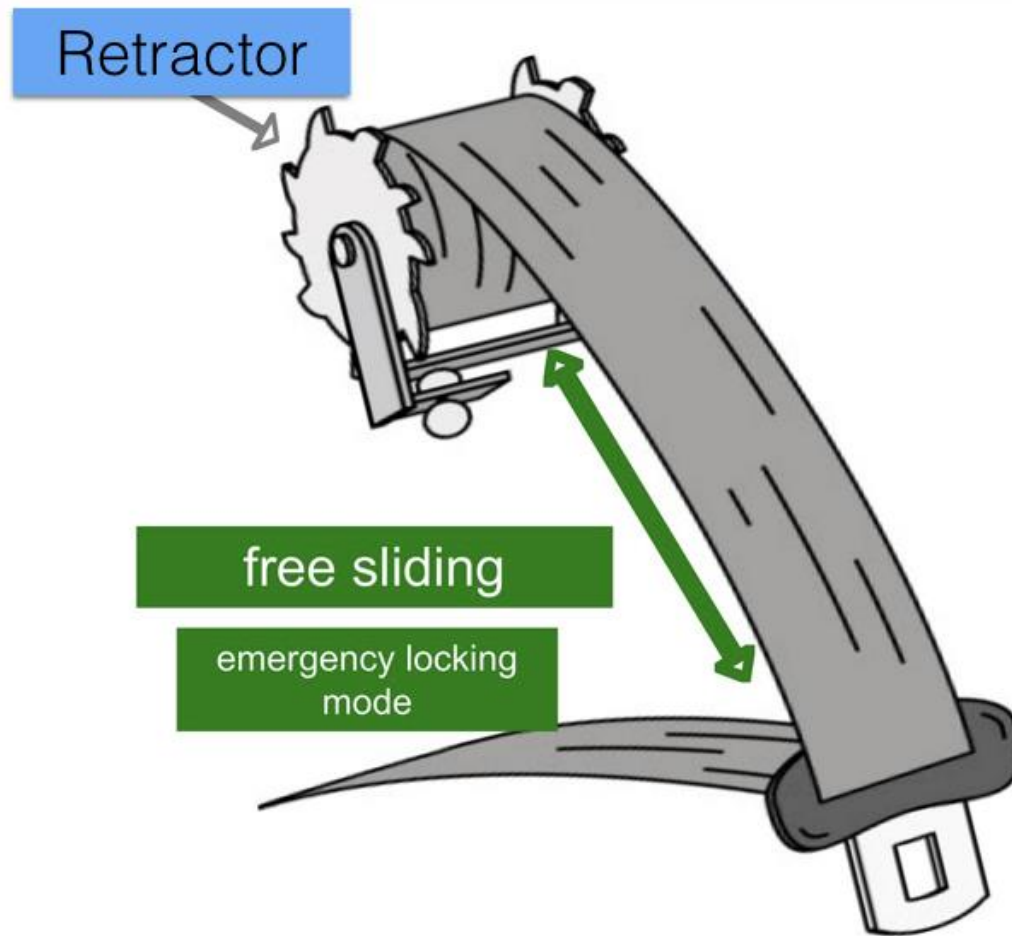
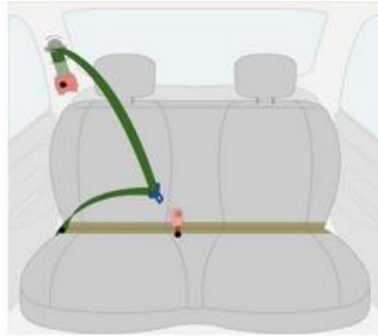


Need for Seat Belt Tightening



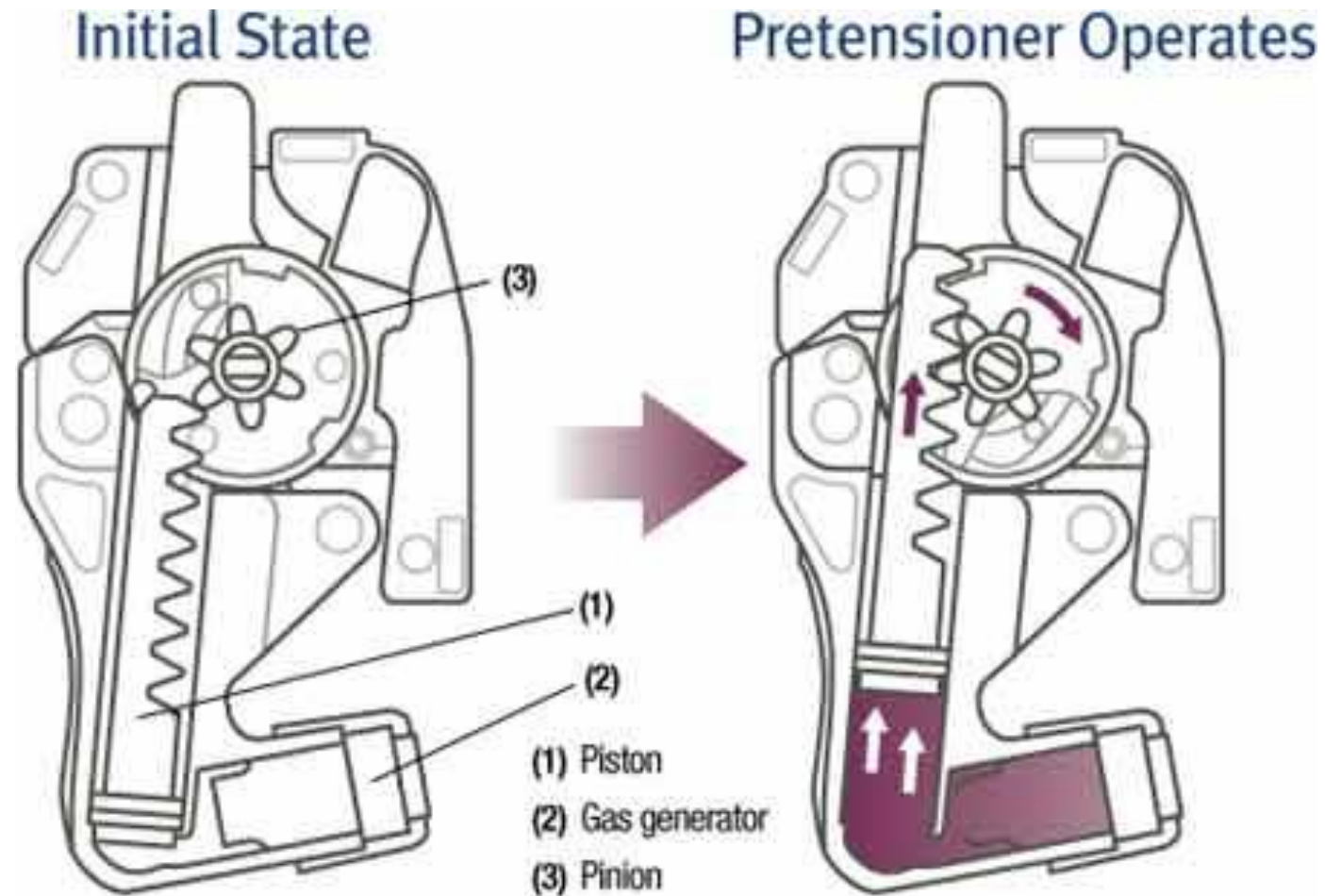


RETRACT SYSTEM





PRETENSIONER SYSTEM





Difference between pretensioner and Retract system



- ❖ The idea of a pretensioner is to tighten up any slack in the belt webbing in the event of a crash.
- ❖ Whereas the conventional locking mechanism in a retractor keeps the belt from extending any farther



ADVANTAGES



- ❖ Saves the life during an accident.
- ❖ Reduces the accident rate.





DISADVANTAGES



❖ Proper Maintenance should be there

