



# How Cars Fall Apart

OCCUPANT PROTECTION DURING CRASH

# The Obligatory About Me Slide

20-Year Paramedic

Deputy Fire Chief Cambridge Fire

20-Year Firefighter

Deputy Saratoga County EMS Coordinator

Chief – Wilton Emergency

New York State Fire Instructor

Amazing Family



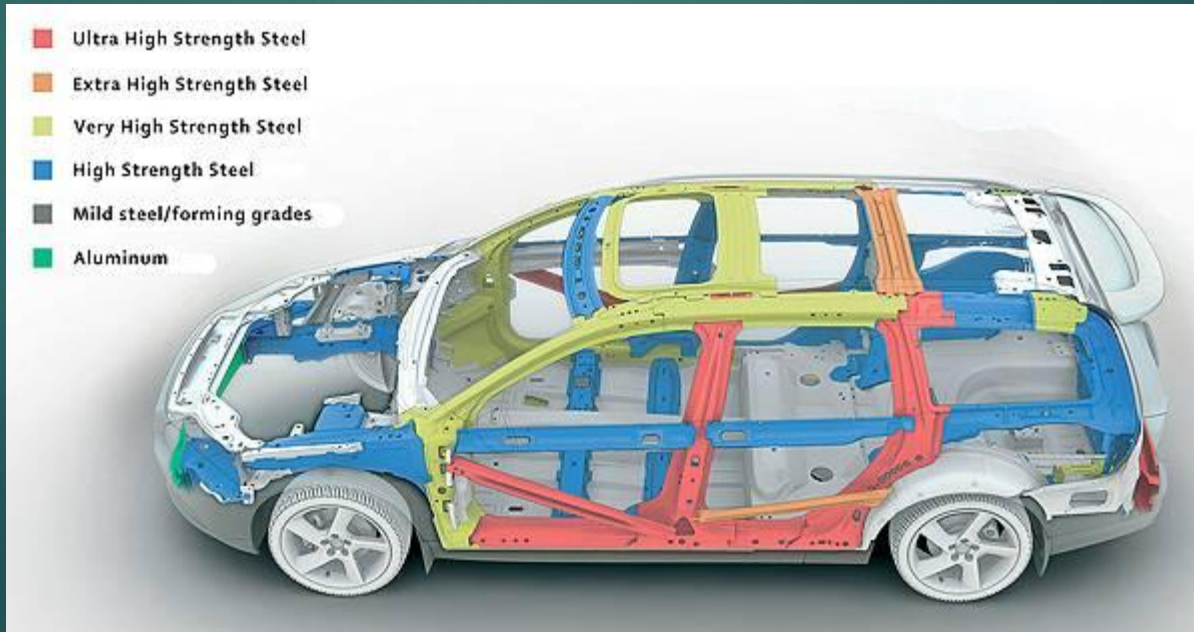
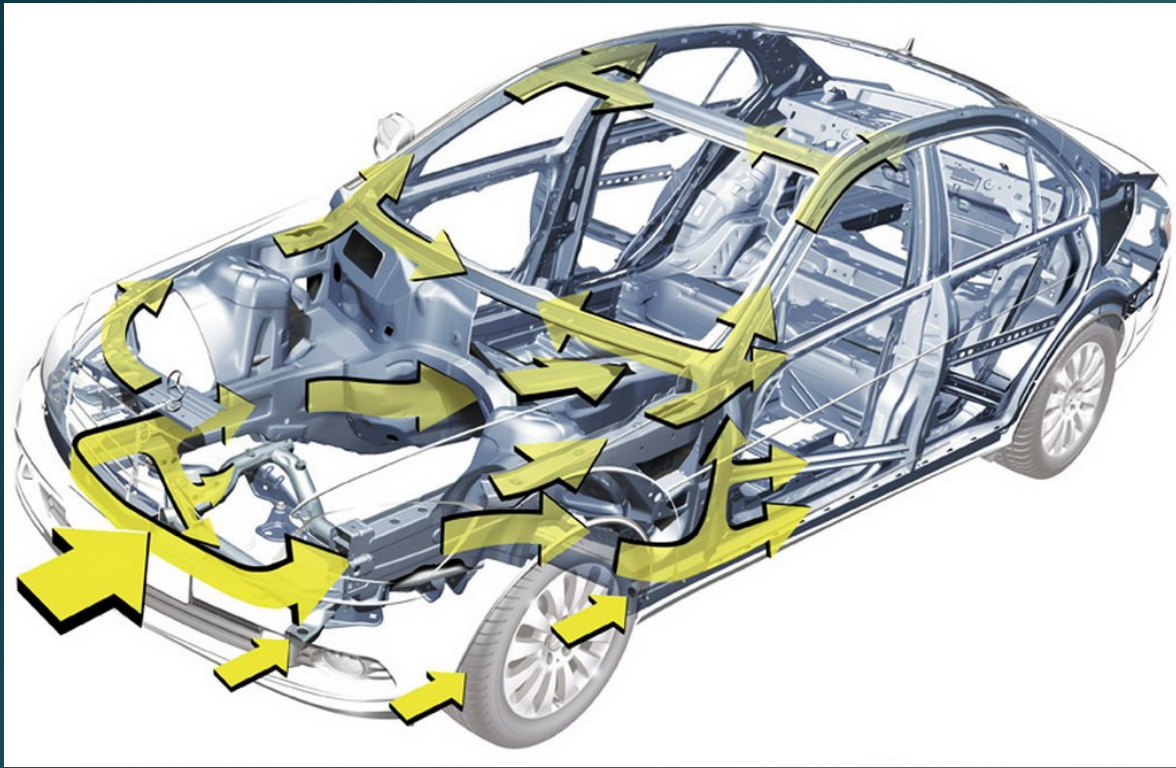
# Conflicts of Interest



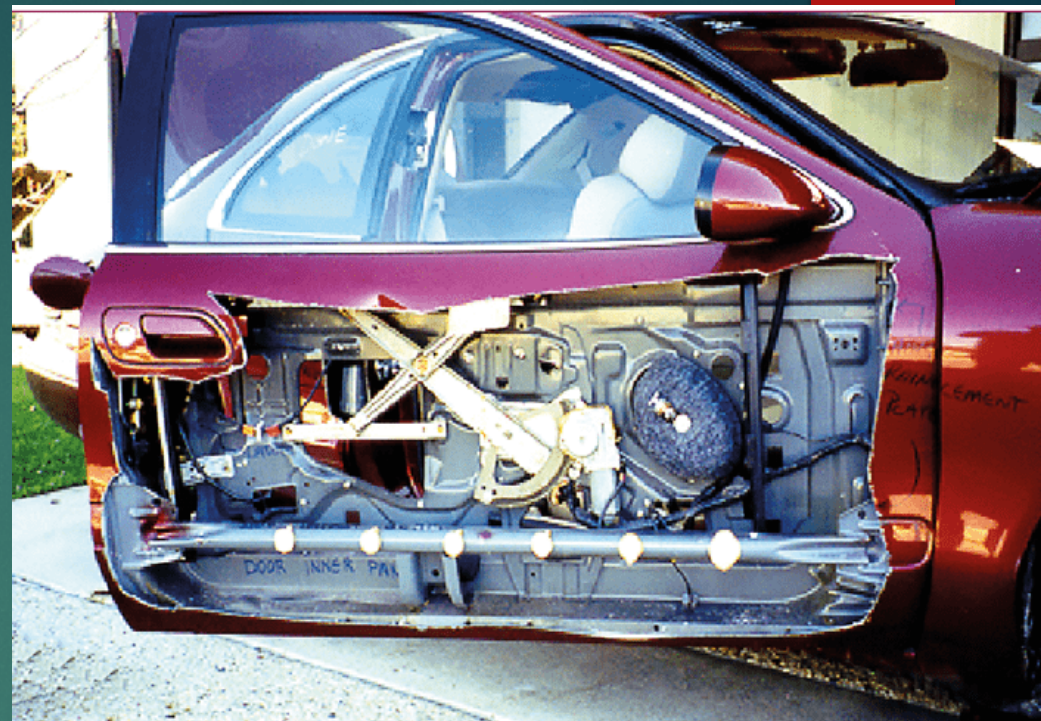
# Its All About Time

- ▶ If you increase the time to transfer force/energy to a patient you decrease injury pattern.
- ▶ Your patient is traveling at the same speed at the car
- ▶ So how do we gain time?

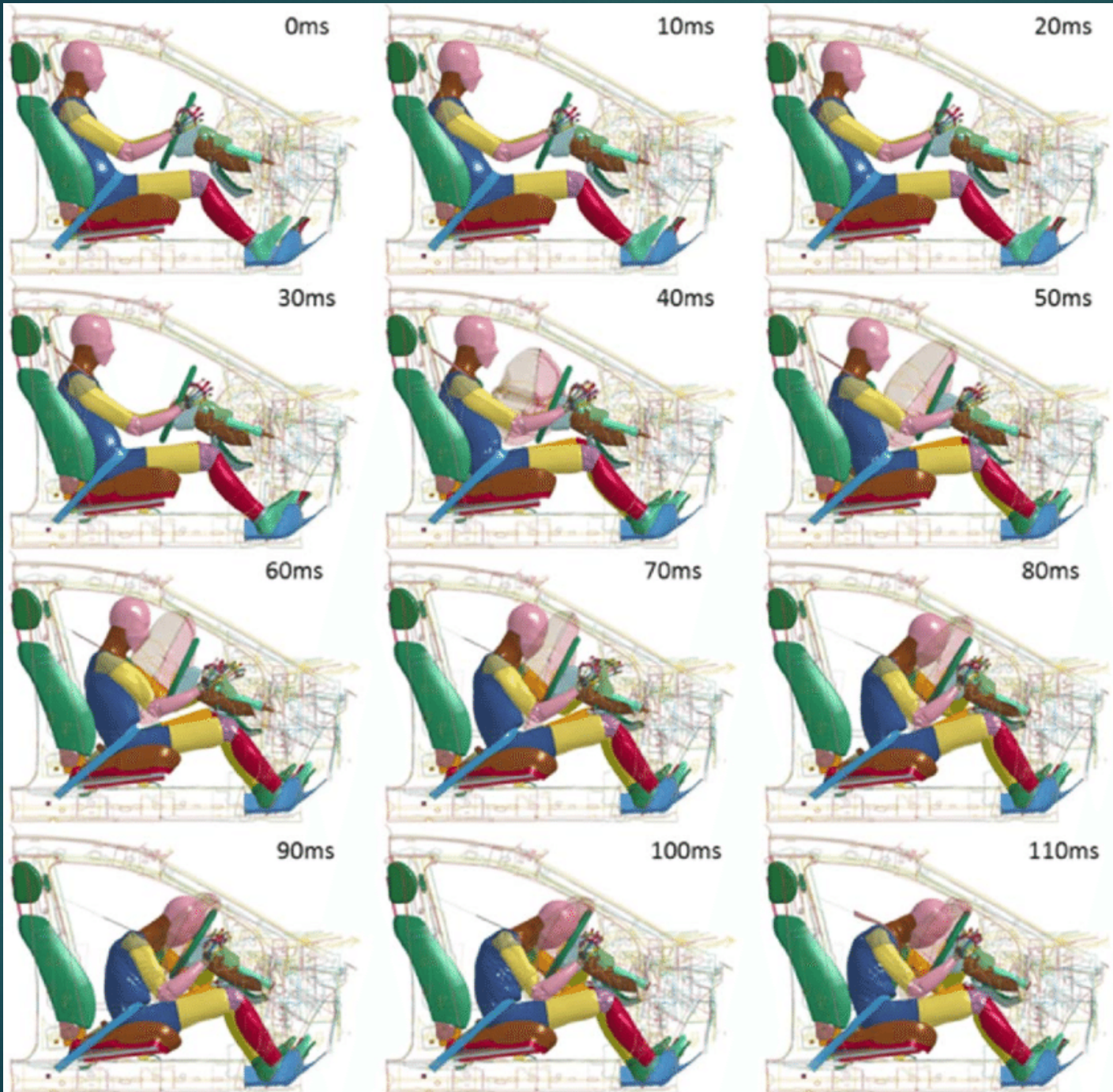










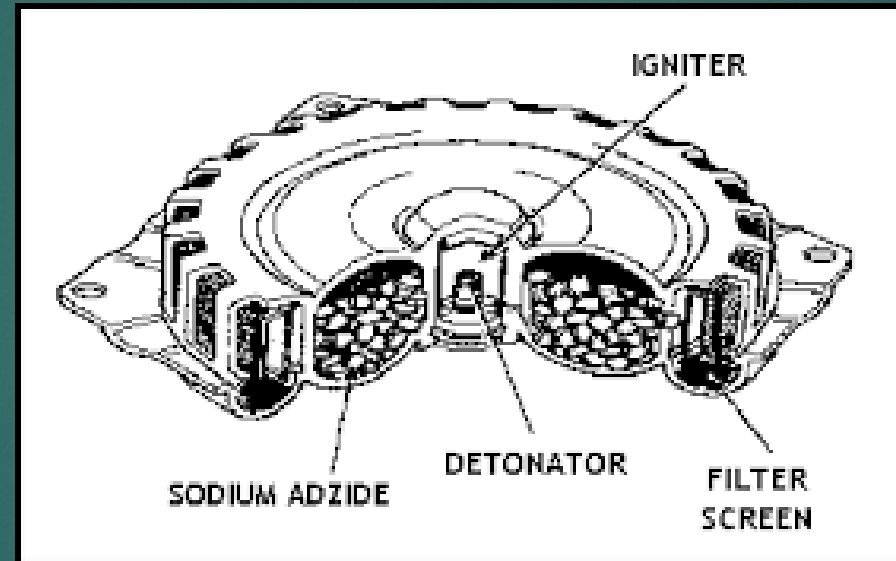
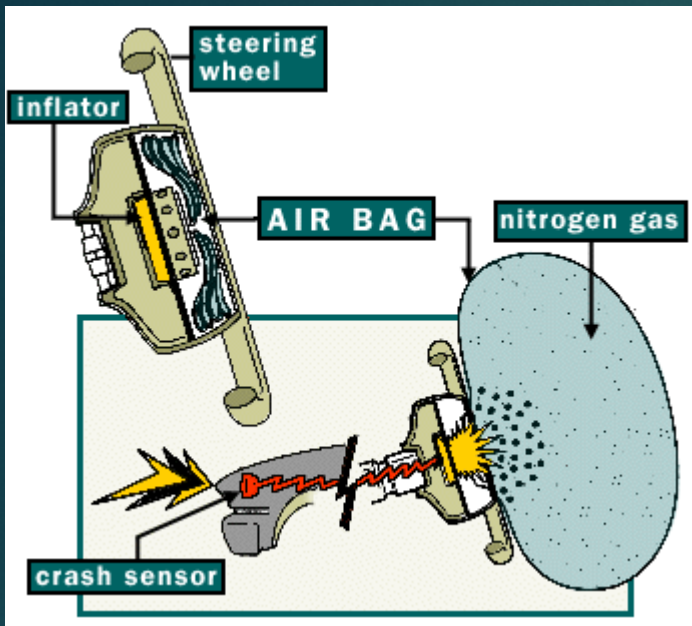


Airbags Deploy at About 200 Miles Per Hour



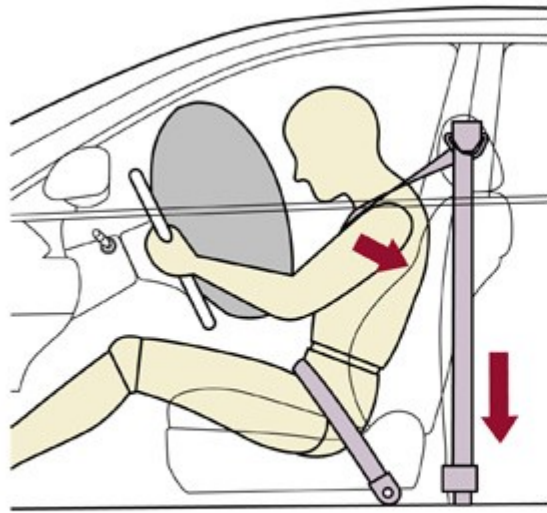




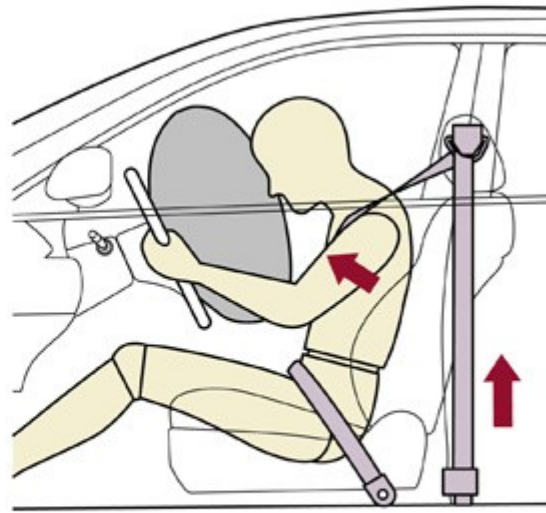


What is that  
white  
powder on  
an airbag?

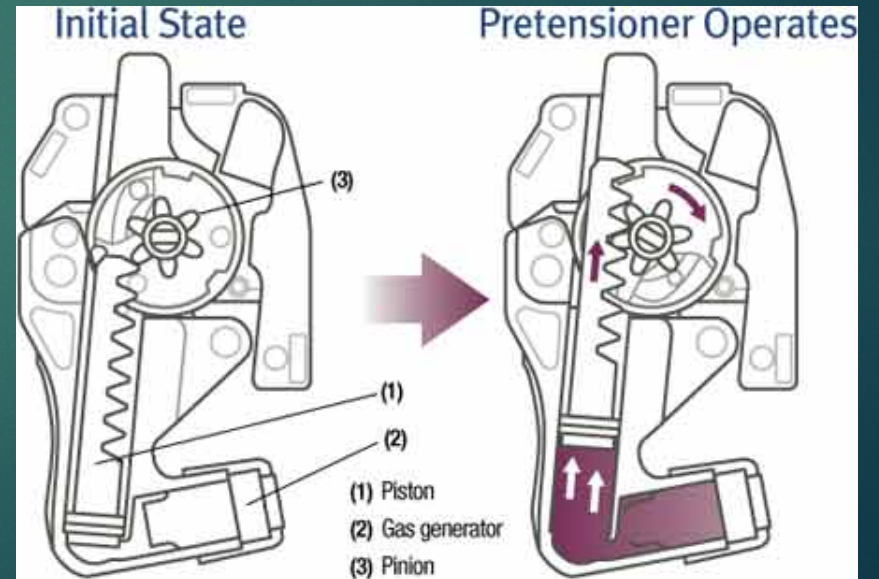




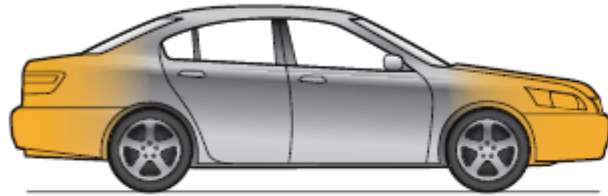
Pretensioner



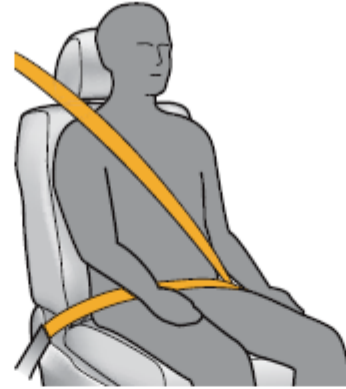
Force Limiter







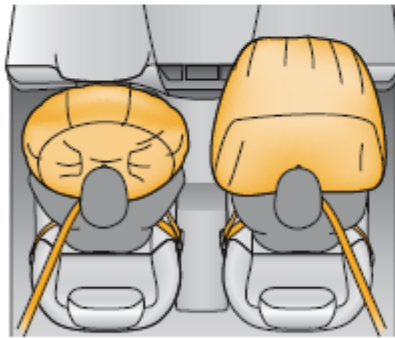
Crushable body parts are designed to absorb crash energy during front and rear-end collisions.



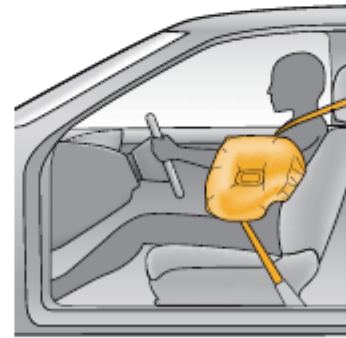
Properly positioned seat belts help restrain occupants and keep them in position in every type of crash.



Head restraints help protect the neck and upper spine during rear-end crashes.



Front airbags supplement seat belts to help protect the head and chest of the driver and passenger in front.



Side airbags can help reduce chest injuries to front-seat occupants during severe side impacts.



Side curtain airbags can help protect the heads of outboard occupants during a side impact.





Thank You For What You Do!