# CHILTONLIBRARY



# **Description & Operation**

## **DESCRIPTION AND OPERATION**

### **DESCRIPTION**

The seat belt retractors used in all seating positions include an inertia-type, emergency locking mechanism as standard equipment. Both front seat retractors also include two seat belt tensioners, and adaptive load limiter and mechanical load limiting features as standard equipment while the rear seat retractors do not include the seat belt tensioner or the load limiting feature. (Refer to Restraints/TENSIONER, Seat Belt/Description and Operation).

The emergency locking mechanism, the tensioner mechanism, adaptive load limiter and the mechanical load limiting feature are each integral to the seat belt and retractor unit and are concealed beneath molded plastic covers located on each side of the retractor spool. These features cannot be adjusted or repaired and if ineffective, damaged or deployed, the entire seat belt and retractor unit must be replaced. The anchor tensioner is also integral to the seat belt retractor unit and is not serviced separately.

#### **OPERATION**

The standard inertia-type emergency locking retractor will allow the seat belt webbing to unwind from and wind onto the retractor spool freely unless and until a predetermined inertia load is sensed. The retractor has an internal inertia latch mechanism that will lock the retractor spool once the predetermined inertia load is sensed. Locking the retractor spool prevents the seat belt webbing from being extracted from the retractor and firmly restrains the occupant wearing the seat belt. The retractor spool is automatically unlatched once the loading of the retractor inertia mechanism and the seat belt are relieved.