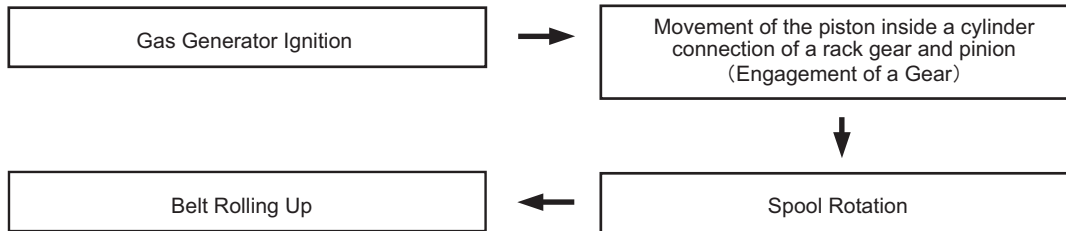


A Seat Belt with a Pretensioner and Force Limiter

- A pretensioner and force limiter mechanism is provided in the seat belt retractor for the driver's, front passenger's, and outer rear seats.
- A seat belt consists of a belt retractor mechanism, ELR (Emergency Locking Retractor) lock mechanism, pretensioner mechanism, and force limiter mechanism.
- A service caution label, which indicates precautions such as operation methods, is affixed to the surface of a seat belt.

Construction and Operation of the Pretensioner

- The pretensioner mechanism consists of a gas generator, piston rack, and pinion.

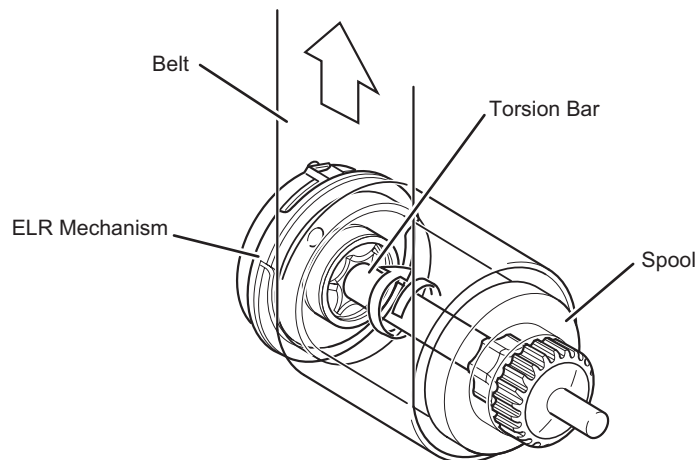


Pretensioner Operation

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Construction and Operation of the Force Limiter

- The force limiter mechanism consists of a torsion bar and a spool.
- When the operation of the pretensioner is completed, and the movement of the occupant causes the seat belt to pull out, the ELR (Emergency Locking Retractor) locks, and the force limiter starts to operate. If the belt is pulled out at a speed that exceeds a specified acceleration or if an acceleration that exceeds a specified value acts on the vehicle, the ELR mechanism operates and prevents the belt from being pulled out.
- If the belt is pulled out at a speed that exceeds a specified acceleration or if an acceleration that exceeds a specified value acts on the vehicle, the ELR mechanism operates and prevents the belt from being pulled out.
- If a tension that exceeds a specified load acts on the belt while the ELR remains locked, the torsion bar becomes twisted, and the spool that is integrated with the torsion bar rotates. As a result, the belt pulls out, thus maintaining a constant belt tension.



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