

# **Unit - 2**

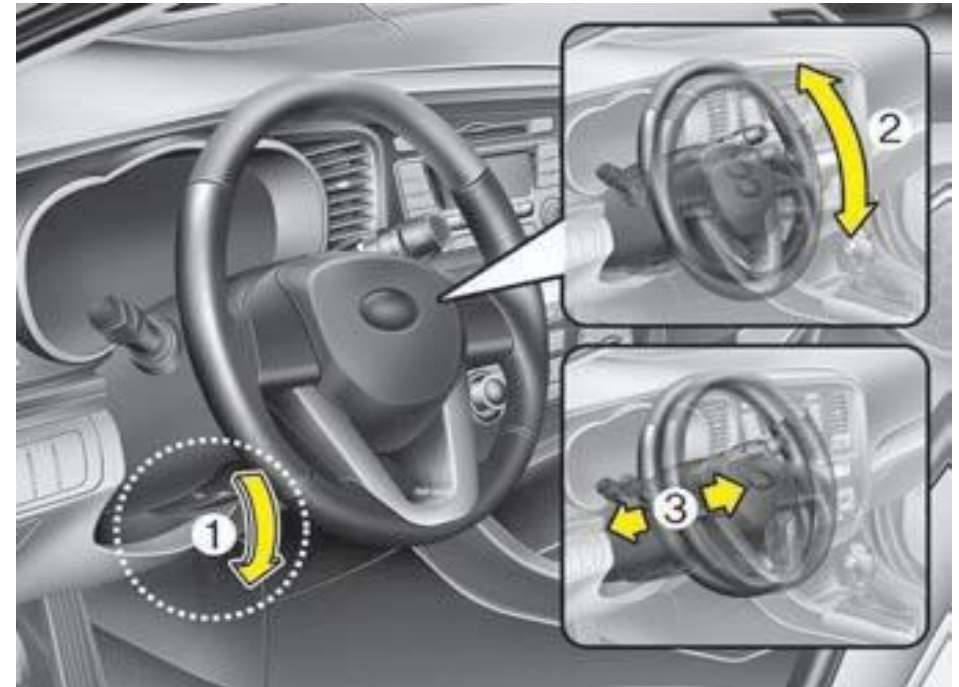
- **Collapsible steering column**

- <https://carbiketech.com/collapsible-steering-column/>

- **tiltable steering wheel**

- The tilting wheel has been with us since 1905, when Henry Leyland, the creator of Cadillac, designed a release latch that allowed the hinge at the bottom of center hub to allow for easier entry and exit if the vehicle. Henry did this for his personal prototype, enclosed Cadillac. Henry was very tall and this may have been what inspired him to design this very helpful addition to the automobile.
- Ford Motor company in the early 60,s Thunderbird added a tilt away wheel that moved toward the center of the car with the opening if the drivers door. Very functional and cool. With our current move toward driverless cars, the need for the tilt wheel may be unnecessary in the future.

- Tilt wheel is a steering wheel which can be adjusted by moving the wheel through an arc in up and down motion.
- the wheel can be adjusted upward and downward while the steering column remains stationary.



<https://www.youtube.com/watch?v=TIWXbGtYrTQ>

- **Bumper design for safety**

- An automobile bumper, is considered to be the first point of contact in any frontal vehicular accident, it has to perform dual role, the primary role being absorption of the impact energy in case of a high speed impact and to ensure the safety of pedestrians in case of a low speed impact.

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