



TRACTION CONTROL SYSTEM





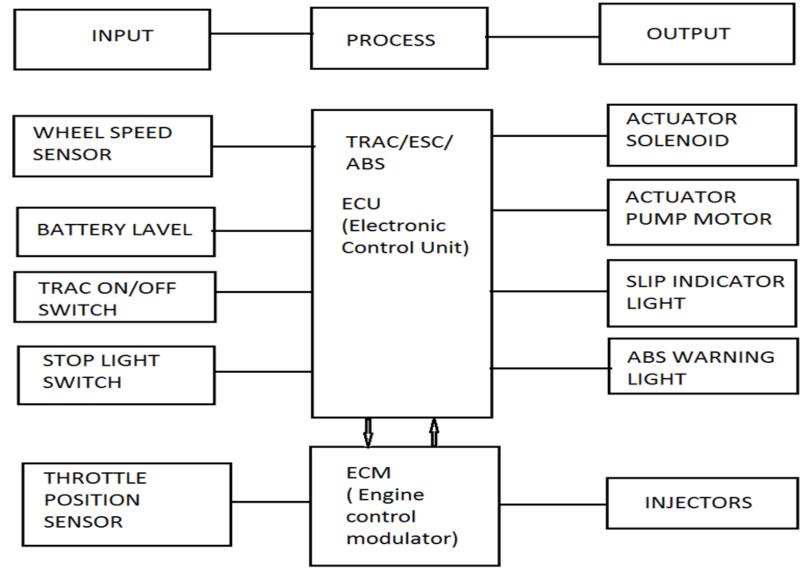
INTRODUCTION

- Traction is the maximum frictional force that can be produced between surfaces without slipping.
- Traction control TRAC helps drivers to avoid crashes by reducing the danger of skidding or losing control
- The TRAC includes both mechanical and electronic components in systems



BLOCK DIAGRAM OF TRAC









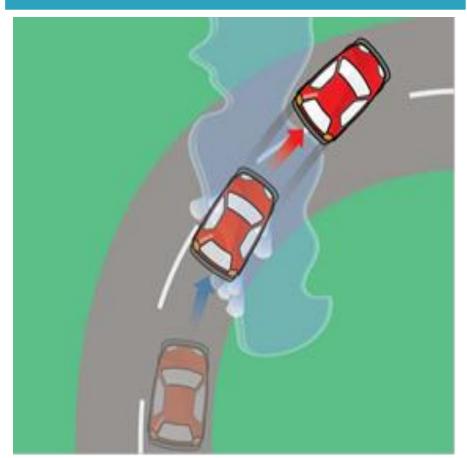
The safety devices in car

- Electronic Stability control ESP / Traction control **TRAC**
- Air Bags
- Anti lock Braking system
- Seat belts





TRAC TURND OFF



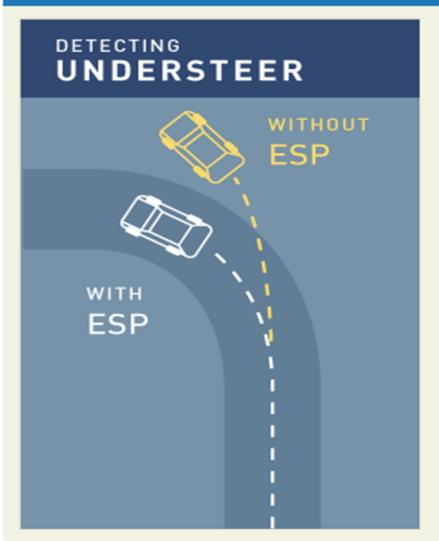
TRAC TURND ON

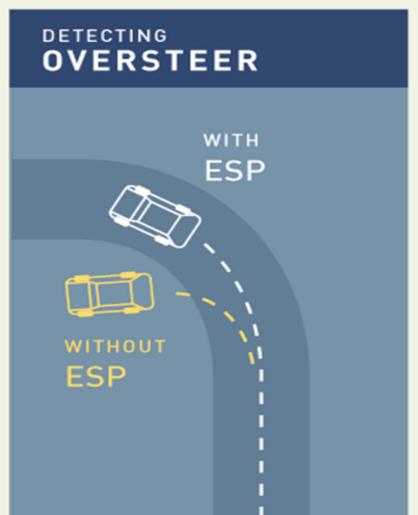






TABILITY CONTROL













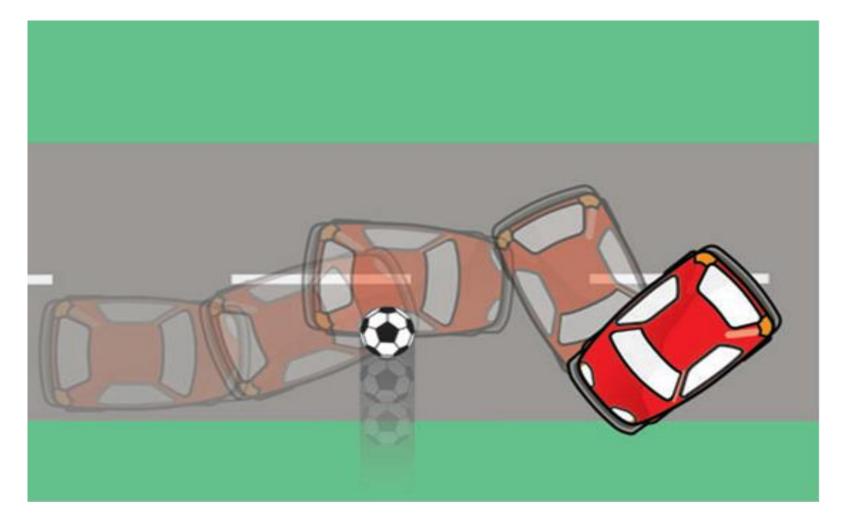








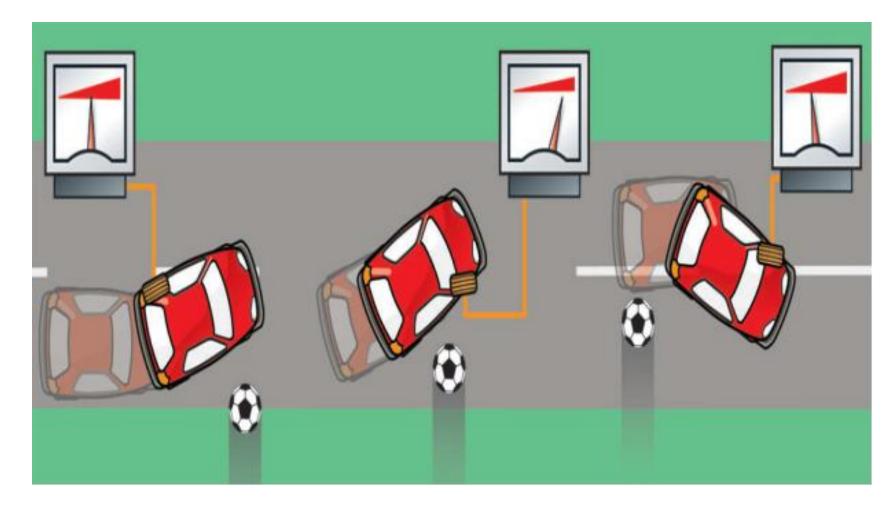
WHEN TRAC IS OFF







WHEN TRAC IS ON

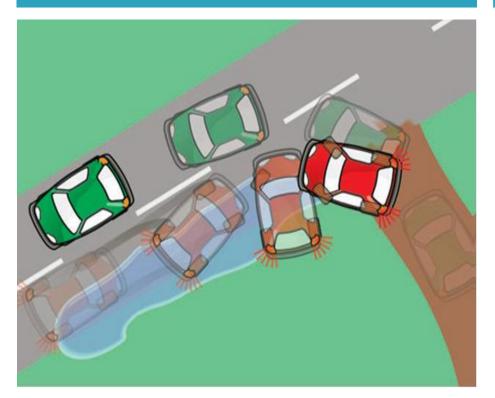




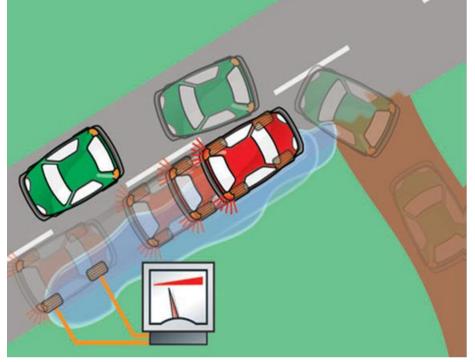
ANTI-LOCK BRAKE SYSTEM ABS



WITHOUT ABS



WITH ABS







Advantages of Traction Control:

- 1. Avoiding accidents
- 2. Sudden twists and turns
- 3. Slippage of the wheels
- 4. Stopping distances
- 5. Driving a powerful car
- 6. Most gripping





Disadvantages of Traction Control

- 1. wear on brake components.
- 2. Allows 10 % wheel slip.
- 3. Its banned in F1 racing





Applications

- 1. Safety
- 2. In road cars
- 4. In race cars
- 3. In motorcycles
- 4. In off road vehicles