



AIR JACK

While replacing a punctured tyre of a car a screw jack is used to raise the vehicle. Modern jacks have dispensed the metallic screw. Now a days, a thick rubber bag with a hose is used for lifting light weight cars. The rubber bag is placed below the car chassis and the hose is inserted in the car exhaust. Soon smoke from the running engine fills the bag. As the rubber bag gets inflated it raises the car.

How to make your own Air Jack?

Take an empty plastic one litre milk bag. Tie an old pen body or a pipe on the mouth of the bag with a string or some cycle valve tube. Place five or six fat books on the plastic bag and slowly fill air into it with your mouth. As the bag gets inflated the books get- raised. How does this air jack work? The pressure that you can exert with your mouth is limited. But the large area of the milk bag magnifies this pressure, so that the resultant force - which is the product of the pressure and the area is sufficient to provide up'ft for the books.