

Engineering Drawing Problem: One of the challenges a car manufacturer faces is to design a car such that it can be used by a wide range of people. This manufacturer has come to you for advice. Below (Fig. 1) is a diagrammatic lengthwise cross-section of the driver side front of a car.

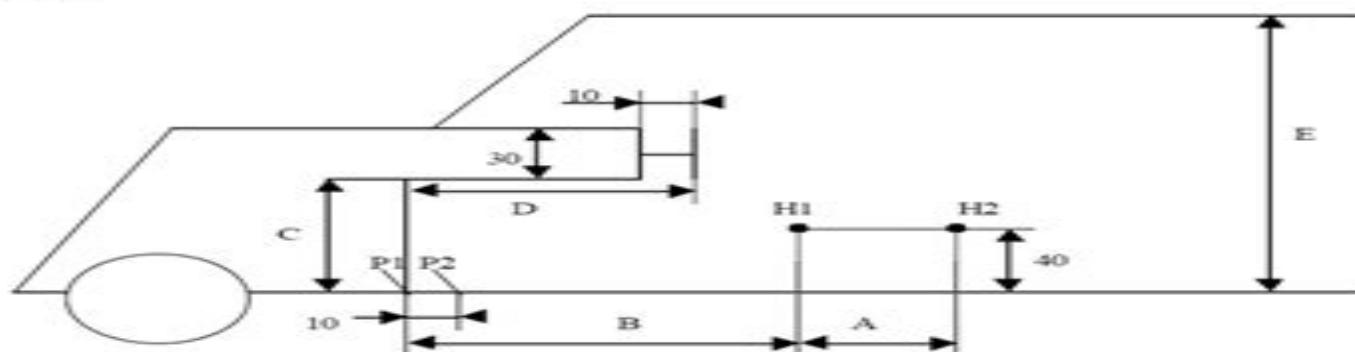


Fig. 1

The driver's seat can move forward and backward, where H1 is the hip joint location in the furthest forward position and H2 is its location in the furthest backward position. The height of the seat is such that the hip is at 40 cm from the floor. The dashboard is 30 cm high, with the steering wheel positioned 10 cm in front of the dashboard. At driving the driver must be able to push the gas or break pedal. Therefore, these pedals have a horizontal travel of 10 cm. P1 is the position when a pedal is fully pushed and P2 is the position when the pedal is not pushed.

Assume that the ankle is kept at 90° and the pedal surface is flush with the bottom of the shoe. The car manufacturer wants most female and male adults to be able to drive the car. Translated in ergonomic terms this means that the design must fit people in the range from 5 %ile female to 95 %ile male, using the anthropometrical data (USA civilians) in the textbook.

(1). Based on the above information, determine the following distances:

$A = H2 - H1 =$ horizontal travel of the seat

$B = H1 - P1 =$ horizontal distance between the furthest forward position of the hip joint and the fully pushed pedal

$C =$ vertical distance between the floor and the bottom of the dashboard

$D =$ horizontal distance between the fully pushed pedal and the steering wheel

$E =$ vertical distance between floor and roof

(2). Using your calculated values, make a scale drawing of the car with a 5 %ile female driver and a 95 %ile male driver drawn in the same figure

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