



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

COIMBATORE-35.



Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A++' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

DEPARTMENT OF AUTOMOBILE ENGINEERING

COURSE NAME : 23AUT101 – ELEMENTS OF AUTOMOTIVE SYSTEM

I YEAR /II SEMESTER

Unit 1- VEHICLE STRUCTURE

Topic :Automobile Bodies



Body Building



- Body is the super structure of the vehicle.
- many different forms with regard to both design and construction.
- Passenger Body, Commercial body
- In bus and Truck, the chassis and the body are each made as a separate unit and then bolted or welded or rubber mount together.



Requirements



- Light in weight
- Attractive shape and colour
- Low Aerodynamic Drag
- Minimum the air resistance
- Minimum vibration
- Space for passenger and luggage or goods
- Long fatigue life
- Good vision



Types of Body Work



Wooden bodywork:

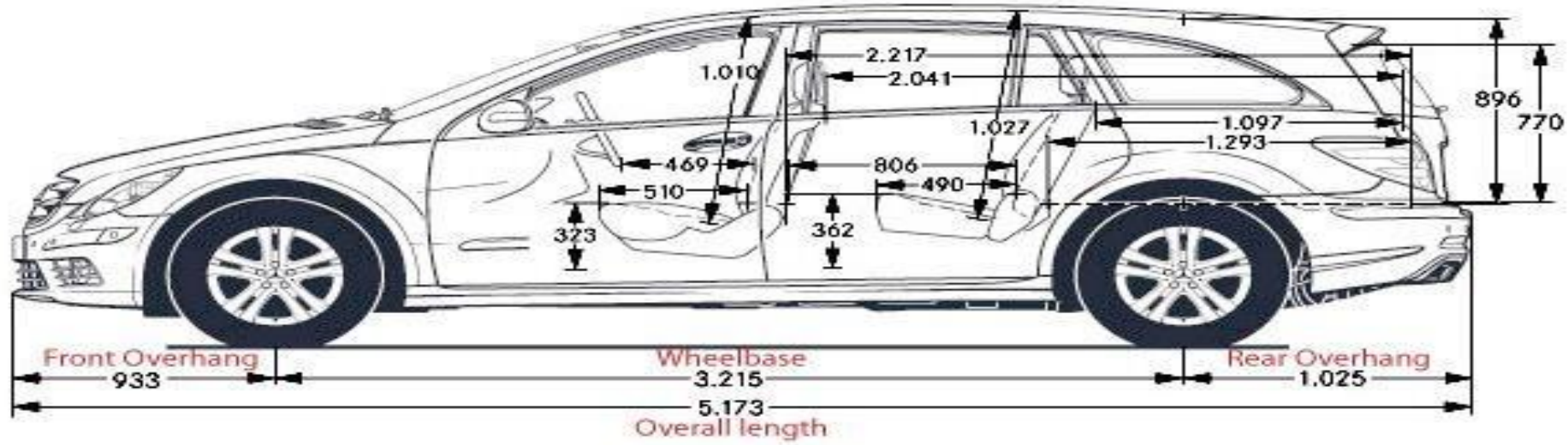
- The term wooden bodywork includes all those components of the body which have a wooden skeleton, irrespective of the material used for the inner and outer panelling.

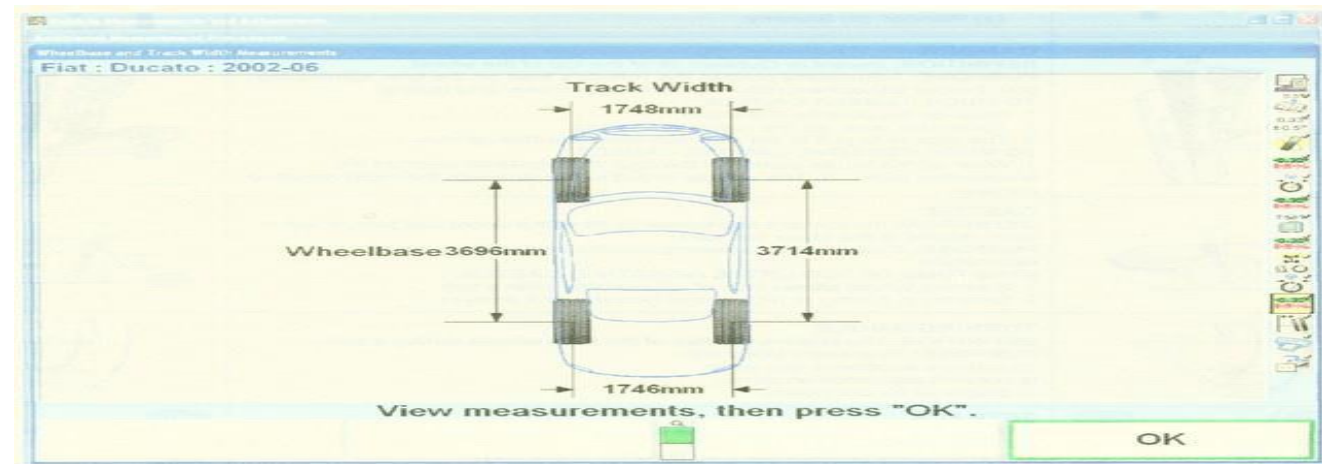
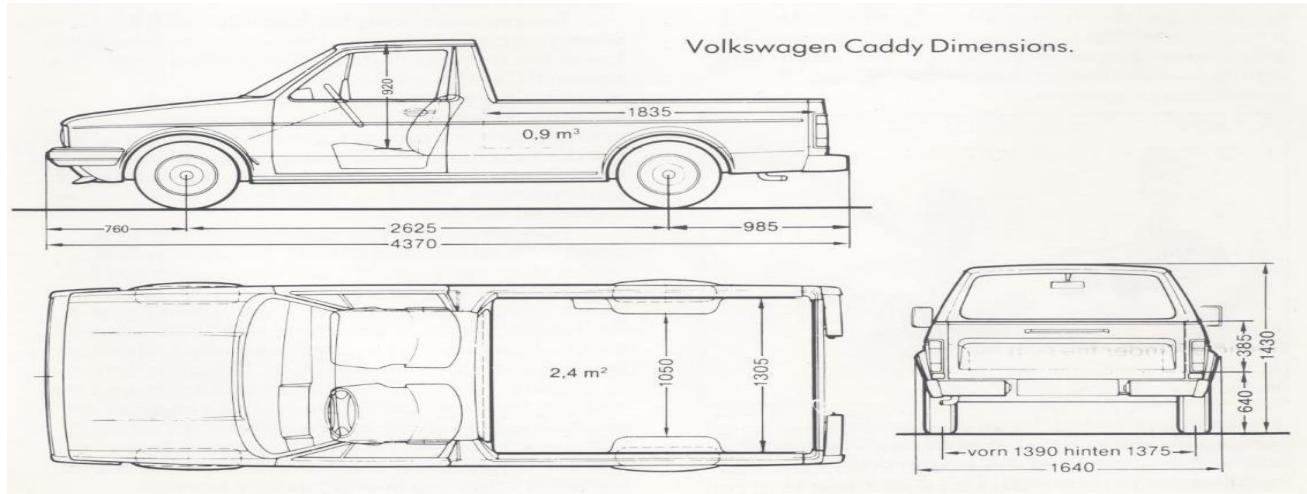
Composite bodywork:

- Composite bodies are those in which wood and metal are used for the skeleton.
- All-steel bodywork:
- This type of construction, in which the skeleton is made of thin-walled
- steel sections (from 2 mm thickness), produces rigid bodies.
- Plastic-coated bodywork:
- Plastic-coated bodies are substitutes for steel ones.



Vehicle Dimension







Types of Car Bodies



Four Door Sedan



Two Door Sedan



Convertible



Station Wagon



Van



Truck



Tanker



Articulated Vehicle



THANK YOU