

Exercise 7- Wheels and Tires

Read and refer to Chapter 8 Wheels and Tires, Pages 137- 149 to help you answer the questions below.

Establish the wheel and tire sizes for your project and position them in the package. Start by setting and approximate target tire diameter and profile width. Also state the desired wheel size. Locate the spindle centers and establish the track width.

Check the functional objectives to establish the priorities for this task. Organize the following nine factors in order of priority (1 the most important, 9 the least):

On-road handling: _____ Off-road capability: _____ High GVW: _____
Package efficiency: _____ Ride Comfort: _____ Appearance/ Image: _____
Adverse Weather: _____ Brake Packaging: _____ Rolling Resistance: _____

List the following specification for the Front and Rear Wheels and tires

Technology and Tire type (*conventional, run flat, airless, passenger car, truck, off-road, variable inflation, etc*):

Tire-size specification (i.e., P225/ 45 R17): _____

Tire O.D.: _____

Wheel rim width: _____

Wheelbase: _____

Track: _____

Turn Circle: _____