



***BIG  
MEANS  
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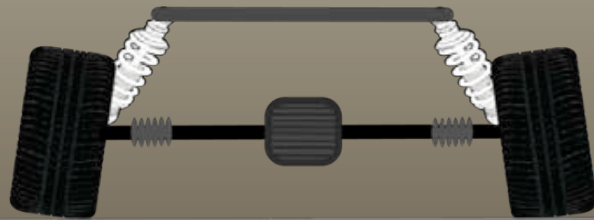
# Wheel Sales Training

Part 3: Altered Height Vehicles  
& Plus Sizing

# Altered Ride Heights

- Lowering or lifting a vehicle's ride height will affect the choice in wheels that you have.
- The ride height affects the clearance that you would normally have between the wheel, suspension, and body panels.
- At times this may mean reducing the offset and backspace to push the wheel out further. In other cases, it may mean not being able to use a wider than stock wheel due to backspace issues.

2° of Camber - No Weight Transfer



# Altered Ride Heights

- On a lowered vehicle, you are moving the wheel closer to the wheel well, fender, and adding negative camber which moves the wheel closer to upper suspension components.
- All these factors limit how wide of a wheel can be used in this application without altering body panels or suspension components.



# Altered Ride Heights

- On a lifted vehicle you are increasing the clearance between the wheel and body panels. On some 3” and taller lifts, certain suspension components are changed that changes the space available behind the wheel.
- Lifting the vehicle also moves the suspension further underneath the body.
- All these factors require the wheel to be pushed out away from the center of the vehicle. This is why most lifted vehicles require a Negative offset wheel with a smaller backspace.



# Plus Sizing on a Stock Vehicle

- To maintain a correct speedometer reading and appropriate wheel and tire clearance when fitting larger than stock wheels on a vehicle, you must be within 3% of the stock overall diameter of the wheel and tire assembly.



- If the stock overall diameter of a wheel and tire assembly is 30.00" you must be between 29.10" and 30.09" to maintain the same fitment and speedometer reading.
- This is achieved by changing the size of the tire.





# Plus Sizing on a Lowered Vehicle

- If the vehicle is already lowered, then you would follow the steps to match the current overall diameter of the wheel assembly.
- If the vehicle is not yet lowered, then you need to know how much it will be lowered and how much clearance there currently is in the wheel well.
- You will then be able to take the necessary size out of the overall diameter of the new wheel and tire combination.



# Plus Sizing on a Lifted Vehicle

- For lifted vehicles, you can generally add 50-75% (sometimes a bit more) of the lift size to the overall diameter of the assembly to get the maximum size that will fit.
- A stock size of 275/55R20 is 31.9" tall. If you install a 3" lift on that vehicle, you're maximum overall diameter for the new assembly would be roughly 34.19".
- Adding 75% or more to the overall diameter may still cause clearance issues and some body modification (eg. trimming the bumper) may be needed.



# Overview

- Every situation can be slightly different. Every vehicle was made differently.
- Some have more room to deviate from stock than others.
- Always remember to test fit wheels then tires to ensure that the fitment is correct and safe for your customer.
- If you have any questions, feel free to contact a seasoned employee at any Big Brand Location or your Training Department.

