$$\textit{Desired power} = \textit{stock power} \times \textit{pressure ratio} \times \textit{density ratio} \times \textit{volumetric efficiencies ratio} \times \textit{drive power efficiency}$$

or

$$\textit{Pressure ratio} = \frac{\textit{desired power}}{\textit{stock power} \times \textit{pressure ratio} \times \textit{density ratio} \times \textit{volumetric efficiencies ratio} \times \textit{drive power efficiency}}$$

Then *non-intercooled*:

$$\textit{Pressure ratio} = \frac{320\ \textit{hp}}{220\ \textit{hp} \times 0.83 \times 1.15 \times 0.90} = 1.69$$