\(\left.$$
\begin{array}{|l|l|}\hline \text { Explanation } & \begin{array}{l}\text { The 78810 Torque Limiting Extension set is calibrated from the factory and therefore it is static. Because the torque level } \\
\text { is determined when machined it cannot change. Therefore the user must calibrate how they use and what they use with } \\
\text { the extensions as below to obtain the desired torque level. }\end{array} \\
\hline \text { 1. Torque } & \begin{array}{l}\text { Use a torque wrench to torque a lug nut to the level you wish to limit torque to with the adapter. Mark with chalk or a paint pen on } \\
\text { the lug nut and the face of the hub or wheel at the same location. Remove the lug nut with a braaker bar. Select the } 78810 \\
\text { extension whose rating matches closest to the level you torqued the lug nut to. Install your impact socket and attach to your } \\
\text { impact gun. }\end{array} \\
\hline \text { 2. Test } & \begin{array}{l}\text { Set your impact to the middle power level and impact the lug nut on with the torque limiting extension until it appears to stop } \\
\text { rotating (usually 1-2 seconds). Visually check if the marks on the lug nut and hub or wheel face align. If the mark is not rotated far } \\
\text { enough, remove the lug nut, increase the power level and perform the test again until the power level of your impact reliability hits } \\
\text { the mark you made. If the mark rotates too far do the opposite. Once determined, always use this air pressure and power setting. }\end{array} \\
\hline \text { 3. Adjust } & \begin{array}{l}\text { If in the less common instance that your impact gun at its lowest power setting is too high or at the highest power setting too low } \\
\text { and you are still unable to align your test marks closely enough and adjusting air pressure supply is not an option consider these } \\
\text { solutions. } \\
\text { A) Modify the mass of your extension. This can be done by choosing a different impact socket. For instance deep vs shallow. } \\
\text { More mass will increase the calibration torque level of the whole tool. }\end{array}
$$ \\
B) Use a different impact gun if available. Power level has some effect, but IPM (impact per minute) is the primary determinant \\
of how close the extension will perform to its stated value from the factory. An impact gun with a higher IPM will not allow a \\

torque limiting extension to rotate back and fight against the impact gun as successtully.\end{array}\right\}\)| C) Ensure you are not over impacting the extension (i.e longer than around 2 seconds) |
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