

## Future Validation Criteria

Requirement	Test	Test Subject	Target Date	Result	Recommendation	Pass, Change, or Bust? P,C,B
						Purpose and Success Statement:
Forward Suspension shall sustain considerable tension, compression, and torsion forces	On snow testing, Endurance Run	Fully functional prototype				<p>The purpose of the Rear Drive design is to improve fuel economy primarily. Small losses in braking, coasting, or acceleration are not a primary concern, unless there is no benefit to fuel economy. If fuel economy is significantly worse (<math>\leq -2</math> MPG difference), then the design is a bust. If fuel economy is near comparable (<math>+1 \geq \text{stock} \geq -2</math> MPG), but the braking/acceleration is significantly worse (<math>&gt;10\%</math>): the design is a bust. Otherwise the design passes the proof of concept stage.</p> <p style="text-align: center;">Spreadsheet description/Purpose:</p> <p>The purpose of this spreadsheet is to make a simple "fill-out-able" data log for future testing. Print out the sheet(s) desired and fill them in while testing. Use the data as a tool to determine if the system is "worth pursuing", worth "changing", or if the project should end with this proof of concept.</p>
Rear Suspension shall sustain considerable tension, compression, and torsion forces	On snow testing, Endurance Run	Fully functional prototype				
Maximum weight shall not exceed 75 lbs more than the stock skid	Weigh the full system on the scale in GJ 126	Fully functional prototype				
Coast down test shows differences in configurations	Coast Down Time and Distance; metric only shows that there is a valid physical difference	Fully functional prototype				
Brake Performance shall be comparable to stock	Braking Distance and time testing	Fully functional prototype				
Acceleration shall be comparable or better than stock	distance crossed, Acceleration Time testing	Fully functional prototype				
Fuel Economy Shall be better or comparable to stock	Endurance run testing	Fully functional prototype				