

Case	Description	Expected Result	Actual Value
MIN SP = 3 RPM MAX SP = 30 RPM STEPS = 1000 MODE = FULL STEP	Large difference between min and max clockwise in full step	10 rotations clockwise slow start fast max slow end	
MIN SP = 3 RPM MAX SP = 30 RPM STEPS = -1000 MODE = FULL STEP	Large difference between min and max counter clockwise in full step	10 rotations counter cw slow start fast max slow end	
MIN SP = 10 RPM MAX SP = 10 RPM STEPS = 500 MODE = FULL STEP	Consistent speed at start, middle and end clockwise in full step	5 rotations cw consistent speed start, middle, end	
MIN SP = 10 RPM MAX SP = 10 RPM STEPS = -500 MODE = FULL STEP	Consistent speed at start, middle and end counter clockwise in full step	5 rotations ccw consistent speed start, middle, end	
MIN SP = 30 RPM MAX SP = 10 RPM STEPS = 200 MODE = FULL STEP	Min speed should never be greater than max	Motor rotates number of steps with previous known good speed profile or motor does not rotate at all. Message to user indicates error or status	
MIN SP = Non-alpha string MAX SP = 10 RPM STEPS = 200 MODE=FULL STEP	Neither speed should be changed when either field has non-alpha characters	Motor rotates with previous known good speed profile or motor does not rotate at all. Message to user indicates error or status	

<p>MIN SP = 10 RPM MAX SP = Non-alpha string STEPS = 200 MODE=FULL STEP</p>	<p>Neither speed should be changed when either field has non-alpha characters</p>	<p>Motor rotates number of steps with previous known good speed profile or motor does not rotate at all. Message to user indicates error or status</p>	
<p>MIN SP = Out of Range 1-0x007fffff MAX SP = 10 RPM STEPS = 200 MODE=FULL STEP</p>	<p>Neither speed should be changed when either field has out of range data</p>	<p>Motor rotates with previous known good speed profile or motor does not rotate at all. Message to user indicates error or status</p>	
<p>MIN SP = 10 RPM MAX SP = Out of Range 1-0x007fffff STEPS = 200 MODE=FULL STEP</p>	<p>Neither speed should be changed when either field has out of range data</p>	<p>Motor rotates number of steps with previous known good speed profile or motor does not rotate at all. Message to user indicates error or status</p>	
<p>MIN SP = 3 RPM MAX SP = 30 RPM STEPS = 1000 MODE = HALF STEP</p>	<p>Large difference between min and max clockwise in half step</p>	<p>5 rotations clockwise slow start fast max slow end</p>	
<p>MIN SP = 3 RPM MAX SP = 30 RPM STEPS = -1000 MODE = HALF STEP</p>	<p>Large difference between min and max counter clockwise in half step</p>	<p>5 rotations counter cw slow start fast max slow end</p>	
<p>MIN SP = 10 RPM MAX SP = 10 RPM STEPS = 500 MODE = HALF STEP</p>	<p>Consistent speed at start, middle and end clockwise in half step</p>	<p>2.5 rotations cw consistent speed start, middle, end</p>	

MIN SP = 10 RPM MAX SP = 10 RPM STEPS = -500 MODE = HALF STEP	Consistent speed at start, middle and end counter clockwise in half step	2.5 rotations ccw consistent speed start, middle, end	
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