



# Harvester Strut Checklist



<b>Struts Tight</b>	Inspect the bolts, pivot pins and adjustment bolts are tight. Also no cracks in any of the welds.
<b>Wheels Tight</b>	Pull / push the wheels left to right ensuring all the bearings are tight. Also, spin the wheels making sure they move freely.
<b>Wheels Straight</b>	Roll each wheel you should be getting 1/8" of less of change off of the inner face of each wheel.
<b>Widest Point</b>	This is the widest distance between the two wheels (measure on the lugs on lugged wheels) on a lifter strut.
<b>Pinch Point</b>	Measured at the tightest point between the wheels (measure at lugs on lugged wheels). All pinch points should be within 3/16" of each other from row to row. Correct setting (1 1/2 to 1 7/8).
<b>Spindle Variance</b>	This is <b>Widest Point - Pinch Point = Spindle Variance</b> This is a good indicator of bent struts. This number is used by comparing values between all the other rows. If you have rows varying by 1/2" or greater you most likely have a bent strut or spindle.
<b>Row Spacing</b>	Measure your row spacing to the center of each pinch point. Your rows should be within 1/16" their settings and should be measured on a continuous tape. Ex - Row 1 - 22" Row 2 - 44" Row 3 - 66" Row 4 - 88" and so on.
<b>Pinch Point Angle</b>	Angles should all be within 2 degrees of each other. Anything more than this may indicate a damaged spindle, strut, or wheel.
<b>Wheel Scrapers</b>	Scrapers should be adjusted within 1/16" to just rubbing on the wheels. Contact area of the wheel should be smooth / level.
<b>Paddles</b>	Paddles should be inspected, rubber in good to fair shape and if it can be adjusted out to the wheel, it should be just ticking or brushing the wheel edge.

	Row 1	Row 2	Row 3	Row 4	Row 5	Row 6	Row 7	Row 8	Row 9	Row 10	Row 11	Row 12
<b>Struts Tight</b>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
<b>Wheels Tight</b>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
<b>Wheels Straight</b>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
<b>Widest Point</b>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
<b>Pinch Point</b>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
<b>Spindle Variance</b>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
<b>Row Spacing</b>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
<b>Pinch Point Angle</b>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
<b>Wheel Scrapers</b>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
<b>Paddles</b>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____