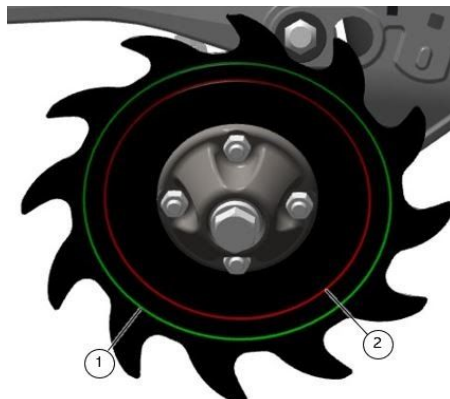


# Setting and Adjusting FurrowForce

Adjustment for conditions are highly recommended to achieve optimal closing performance.  
(These are guidelines for an operator to reference when setting and adjusting FurrowForce. Specific in-field conditions and performance should be assessed before and after making an adjustment.)

## General Configurability

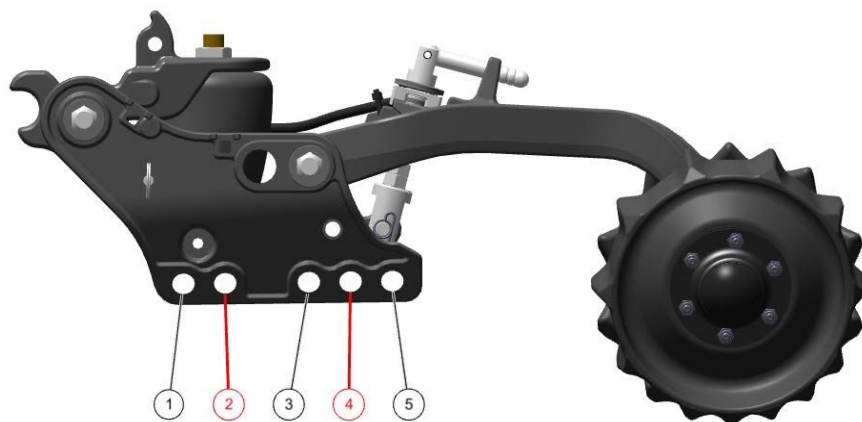
- Force Adjustment:
  - Auto Control: Adjust 20|20 closing margin target, observing actual closing margin metric and in-ground conditions.
  - Manual Control: Adjust airbag pressure, observing actual closing margin metric on 20|20 and in-ground conditions.
    - Higher speed (with manual control) may require a higher pressure setting to achieve optimal closing and margin target.
- Mechanical Adjustments:
  - First Stage Wheel Width:
    - Measured by the gap between the tip of the first stage closing wheels
    - ~2.5" First Stage Width = 1 spacer + 2 washers on the inside of each wheel (spacer width is ~0.45", washer width is ~0.12"). This is with both wheels mounted in position 4. Staggering the wheels also increases the wheel spacing slightly, due to the toe angle of the frame.
  - First Stage Wheel Depth (relative to the second stage wheels)
    - One revolution of depth adjustment = approximately 0.25" change in depth (deeper/shallower)
    - Outer ring designation (1) on 1st stage wheel = 1.5" deep
    - Inner ring designation (2) on 1st stage wheel = 2.0" deep



## Adjustment of 1st Stage Wheel Stagger Setting

Default Mounting Positions: Left Wheel in position 2, Right Wheel in position 4 (Indicated in red in the below image)

If plugging occurs (rocks, residue, etc.); install the left wheel in position 1, and the right wheel in position 4 (or 5 as needed).  
(Wheel position is in order from 1, closest to row unit, through 5, farthest from row unit)



## FurrowForce Adjustment For Conditions


### First Stage Wheel Depth Setting

For crops planted deeper than 1.5", a good starting point for the first stage wheel depth is approximately 0.5" above seeding depth. If closing at the bottom of the furrow is not satisfactory, first confirm that the stitch wheels are maintaining good margin (ground contact), and then adjust the first stage wheels deeper by one turn until closing performance is satisfactory. Shallower planted crops may require running the first stage wheels at, or below seeding depth to achieve adequate closing. Caution should be used if planting on extreme contours with the wheels set in this way, as there could be increased risk of seed disturbance by the wheels.

### Closing Margin

 15 lbs\*

35 lbs

55 lbs 

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Wet Conditions  
Need to Minimize Compaction

Ideal Conditions

Dry, Loose Conditions  
Need for Moisture Retention

\*If running the "Light" target and second stage wheel traction is a concern, increase the margin target  
(For example: running too light when conditions are wet/sticky can lead to the second stage wheels dragging)

### First Stage Wheel Width

(These are approximate widths as it will vary slightly with hardware tolerances and wheel stagger)

1.5"  
(2 Washers)

2"  
(1 Spacer)

2.5"  
(1 Spacer + 2 Washers)

3"  
(1 Spacer + 4 Washers)

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Extremely Wet  
**Risk:** Tight Contours

Shallower Crops if Needed  
Wet Conditions (to be more aggressive)

Default

Extreme Contours  
Deep Planting Depth