



Kelly Tillage System Field Finish Adjustments

See operators manual for detail on height adjustments. These slides are intended to help troubleshoot uneven field finish.

In principal, if there is a ridge created, the leading disc in line with that ridge is the culprit.

For furrows, the trailing disc in line with the furrow will be the culprit.

Almost always the solution is to raise the swivel at that point.

Central Ridge

Central Furrow

Problem:

Front Too Low.

- leading edge of front chains create a ridge in the middle
- modules work the loose soil of the broad ridge but don't dig original soil.

Problem:

Tail too low

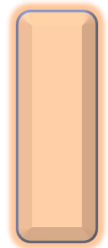
- Front and modules set to correct height
- Hollow or bare central area.

Solution

- Ensure main pull lower beam is parallel to the ground, if adjustment is needed raise or lower drawbar and set in place using flip over cylinder depth stop plates. Main Pull lower beam must be parallel to ground.
- Raise chain mount plate chains until first disc just skims the ground. Just enough to ensure overlap with Front module discs.

Solution

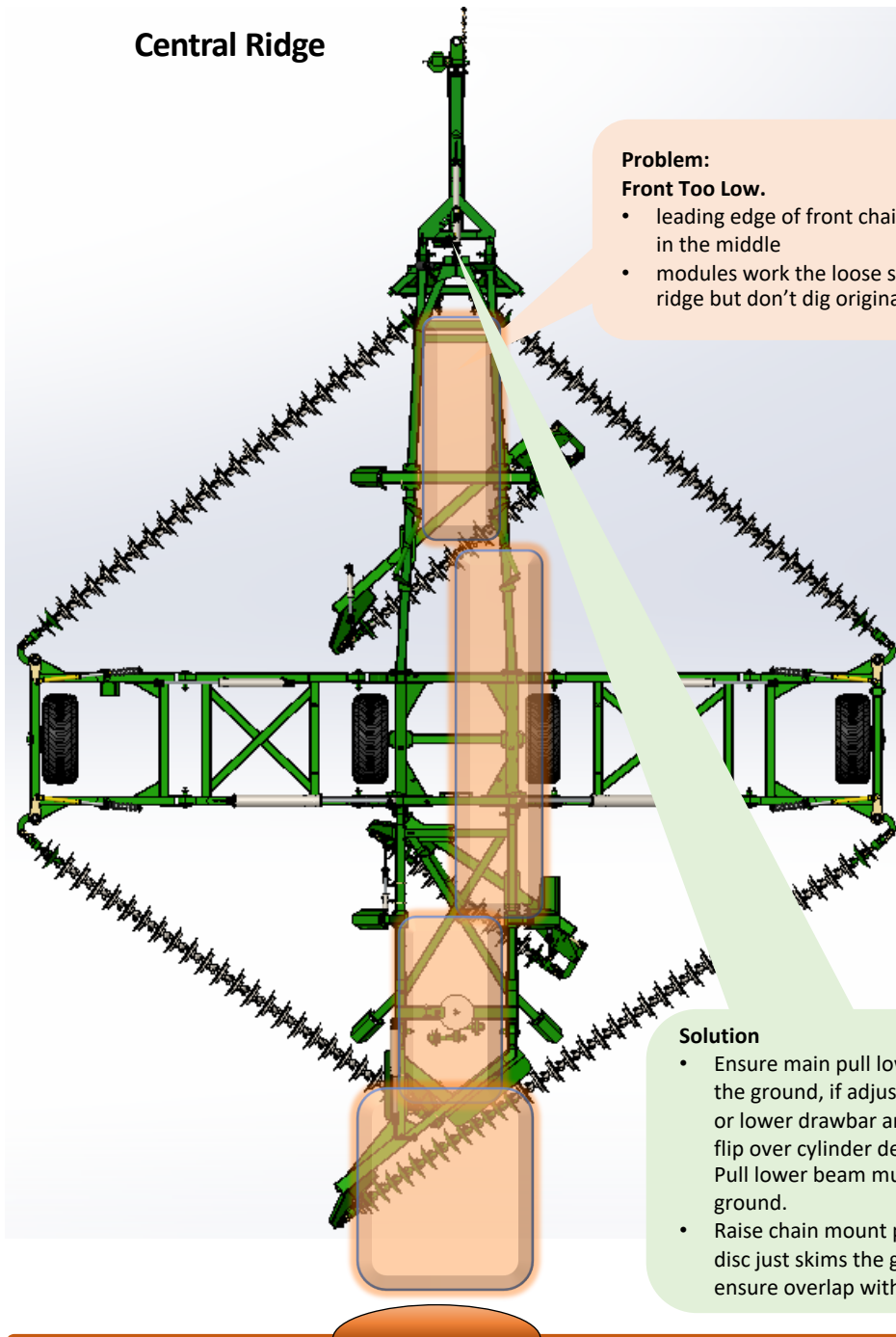
- Raise both rear chain mount plates until first few discs are raised above the ground.
- Just create overlap coverage to remove wheel tracks.



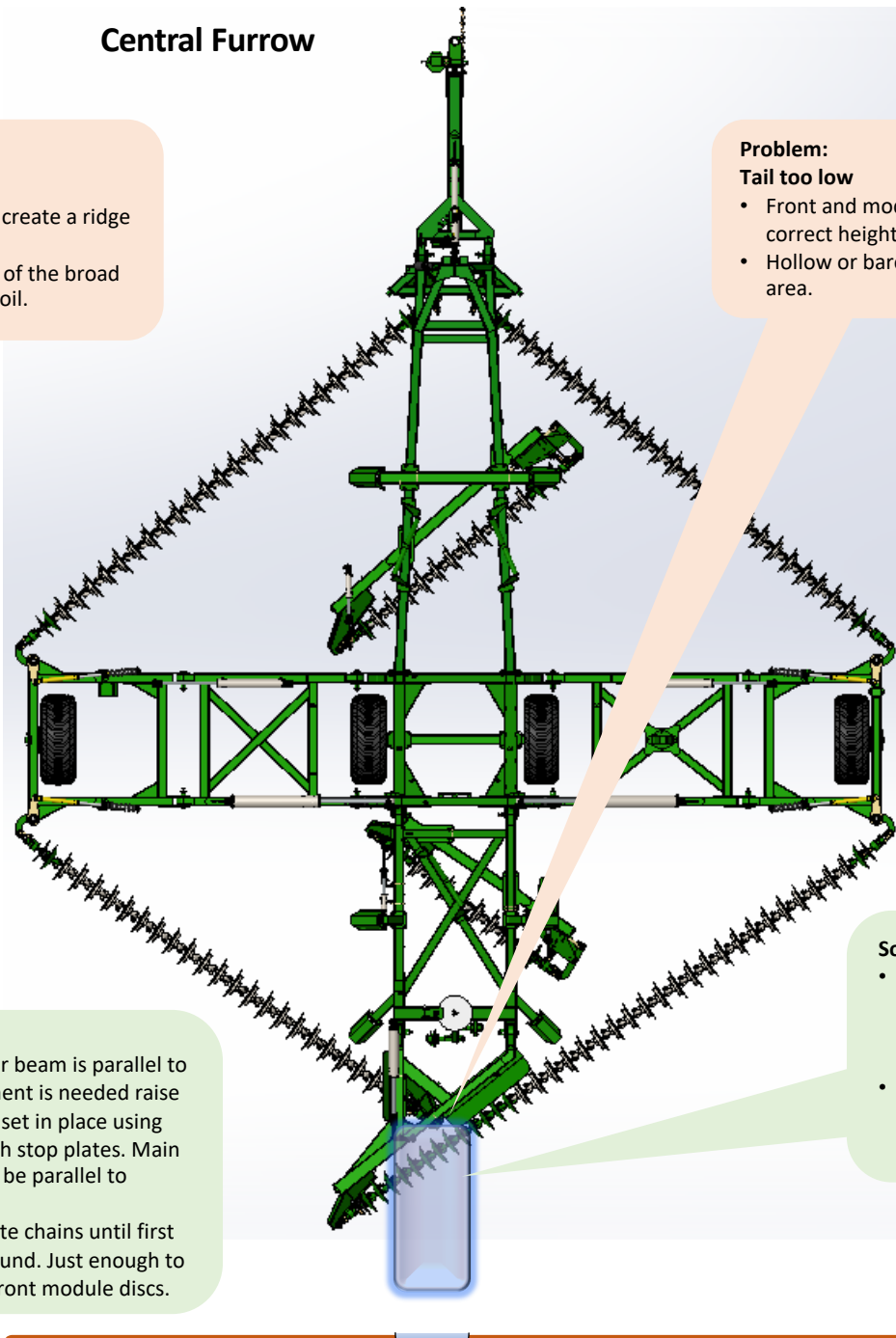
Ridge



Furrow

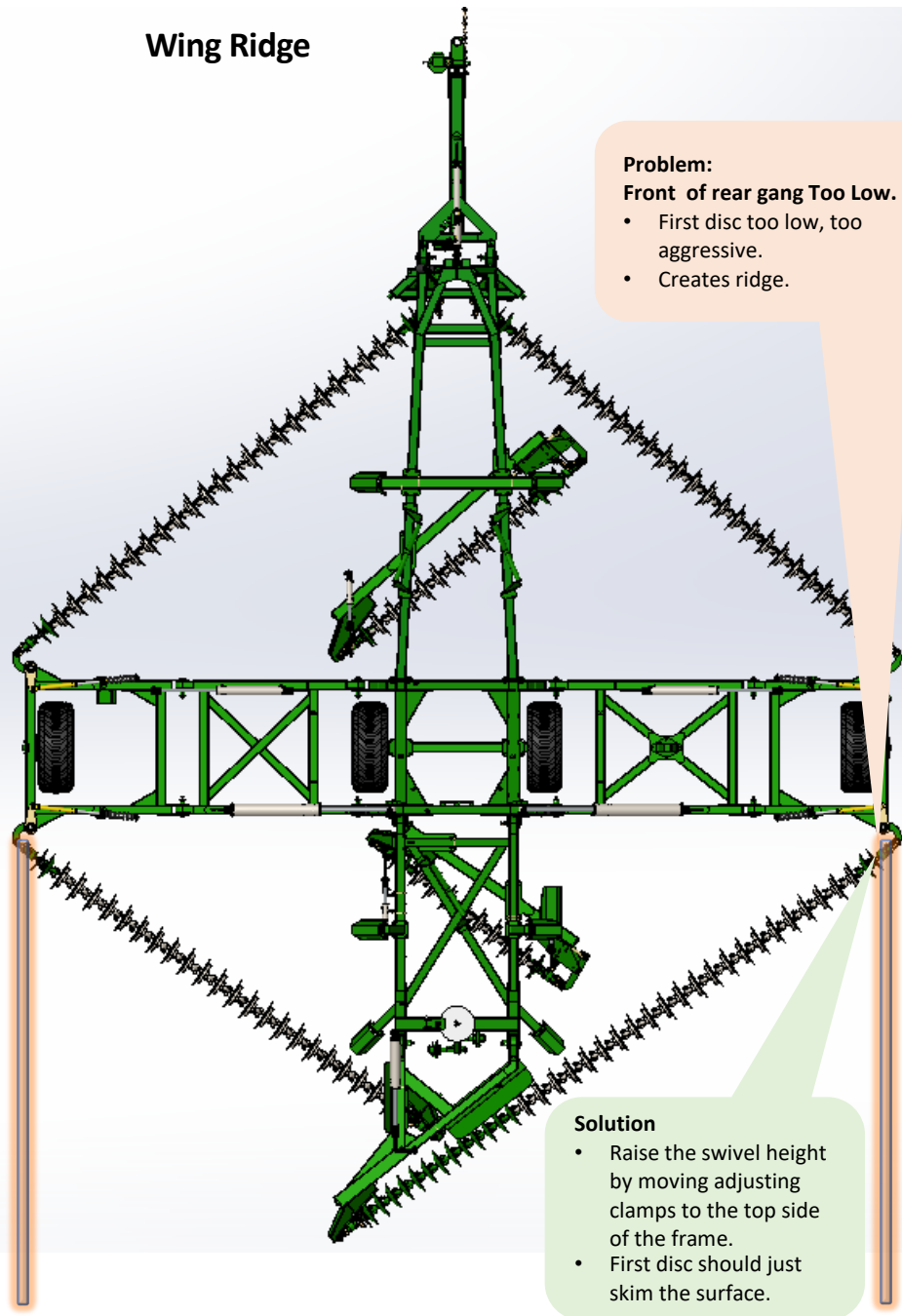


Surface profile



Surface profile

Wing Ridge



Problem:
Front of rear gang Too Low.

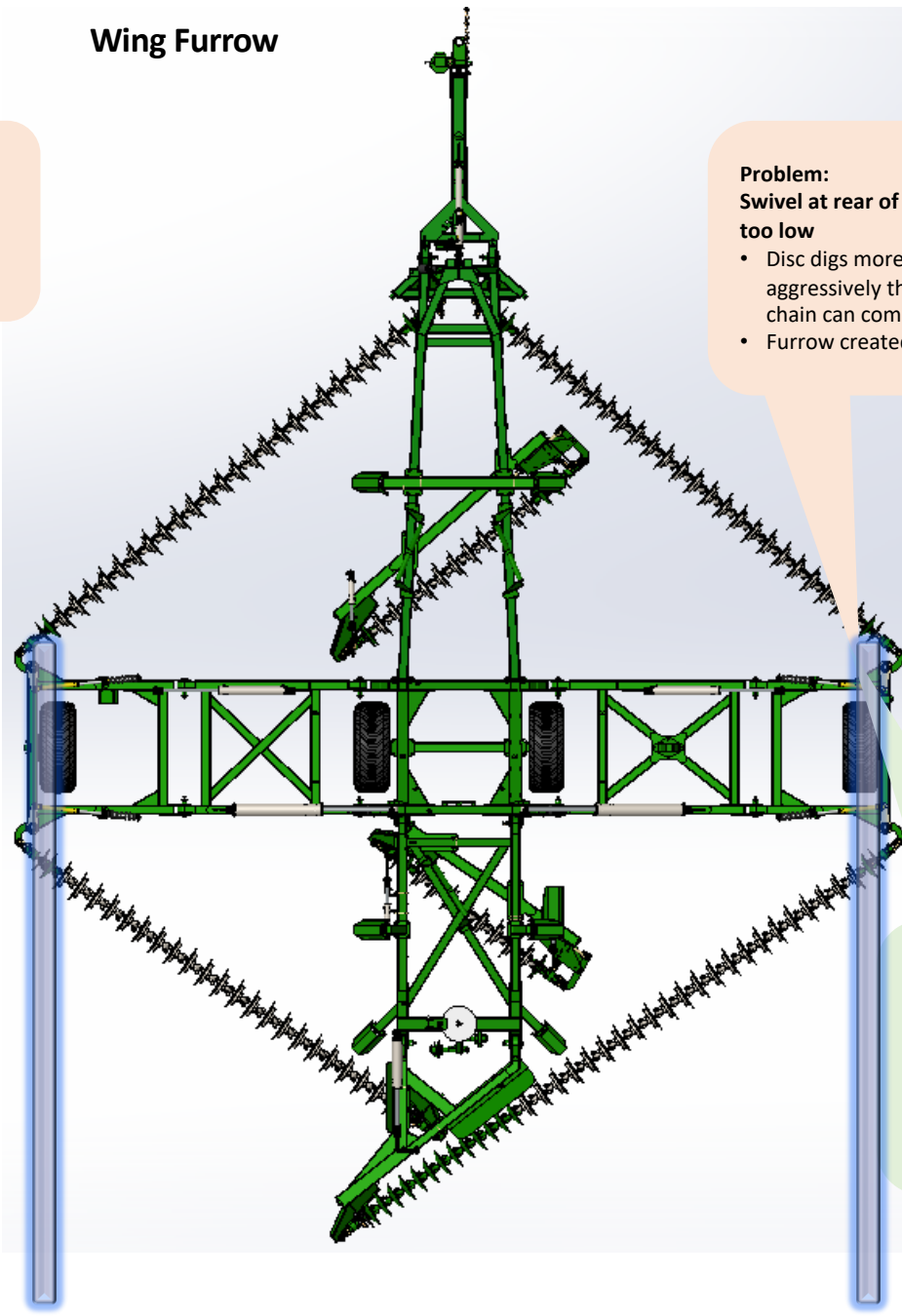
- First disc too low, too aggressive.
- Creates ridge.

Solution

- Raise the swivel height by moving adjusting clamps to the top side of the frame.
- First disc should just skim the surface.

Surface profile

Wing Furrow



Problem:
Swivel at rear of front gang too low

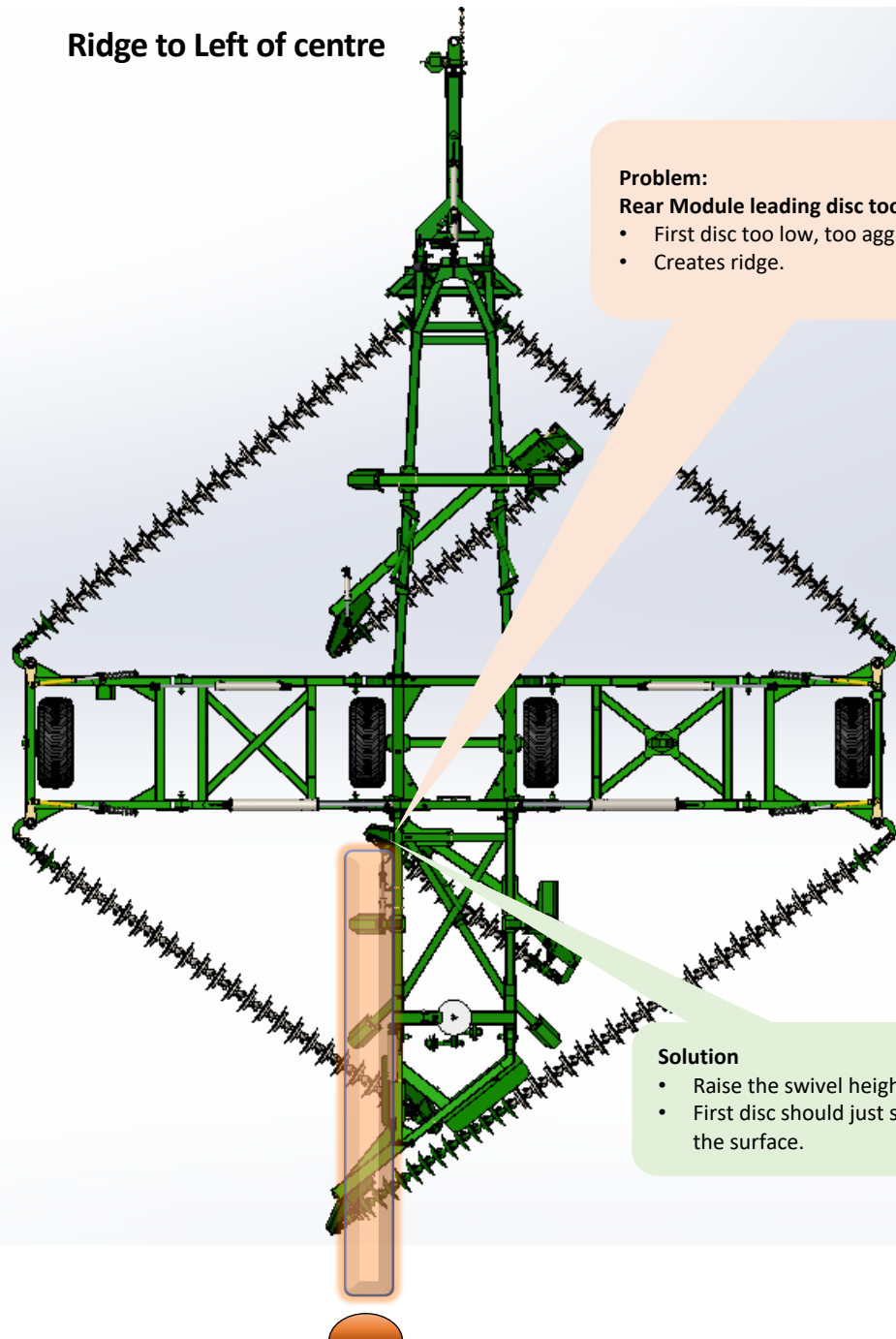
- Disc digs more aggressively than rear chain can compensate.
- Furrow created.

Solution

- Raise the swivel height by moving adjusting clamps to the top side of the frame.
- First disc should just skim the surface.

Surface profile

Ridge to Left of centre



Problem:

Rear Module leading disc too low

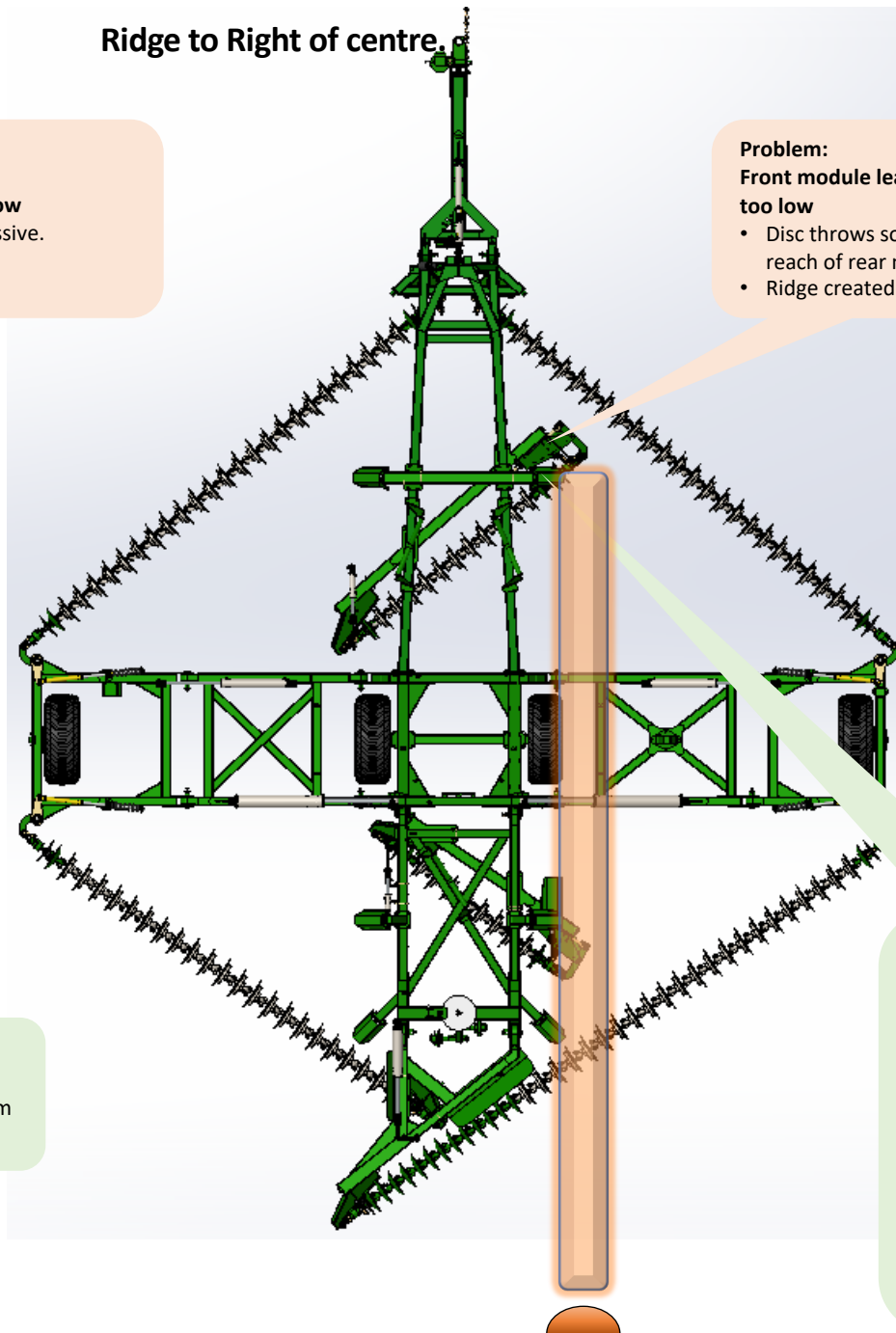
- First disc too low, too aggressive.
- Creates ridge.

Solution

- Raise the swivel height
- First disc should just skim the surface.

Surface profile

Ridge to Right of centre



Problem:

Front module leading disc too low

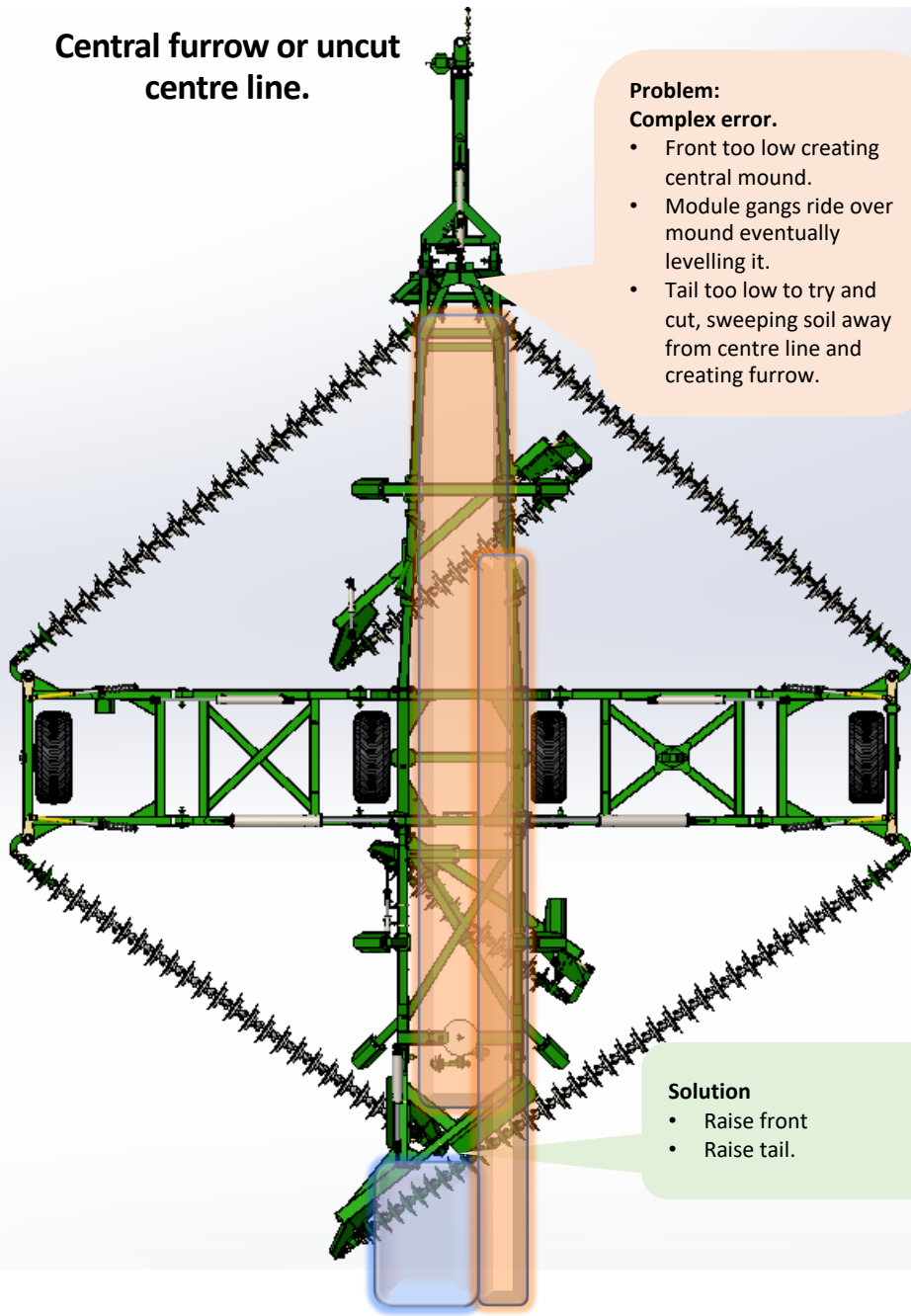
- Disc throws soil beyond reach of rear module.
- Ridge created.

Solution

- Raise the swivel height using the adjusting chain.
- First disc should just skim the surface.
- Ensure adequate overlap with first effective disc on front gang.
- Ensure that the disc on the right side of the rear module is contacting the ground

Surface profile

Central furrow or uncut centre line.



Problem:
Complex error.

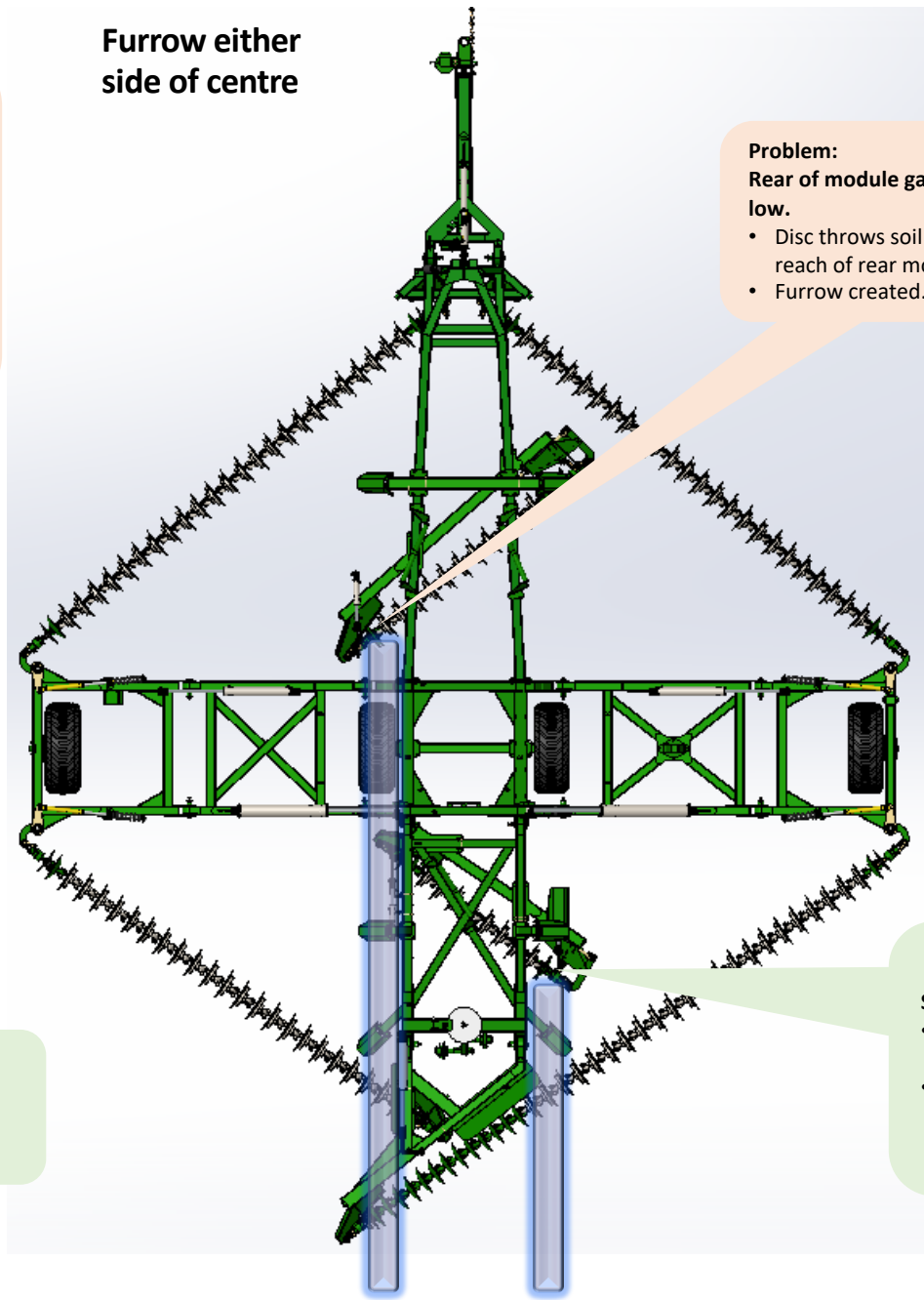
- Front too low creating central mound.
- Module gangs ride over mound eventually levelling it.
- Tail too low to try and cut, sweeping soil away from centre line and creating furrow.

Solution

- Raise front
- Raise tail.

Surface profile

Furrow either side of centre



Problem:
Rear of module gang too low.

- Disc throws soil beyond reach of rear module.
- Furrow created.

Solution

- Raise the swivel height using the adjusting chain.
- First disc should just skim the surface.

Surface profile