



Planting quality control

Before proceeding to look for the causes please check:

- that you have observed the setting recommendations in the instructions (disk seed scraper setting, tyre pressure...)
- if all the elements have the same symptom

Icons significations:



Come back to the home page



Close the document



More information



Come back to the previous question



Close the window

Start the Diagnosis



Are there doubles on the disk?

How can I check it?





YES

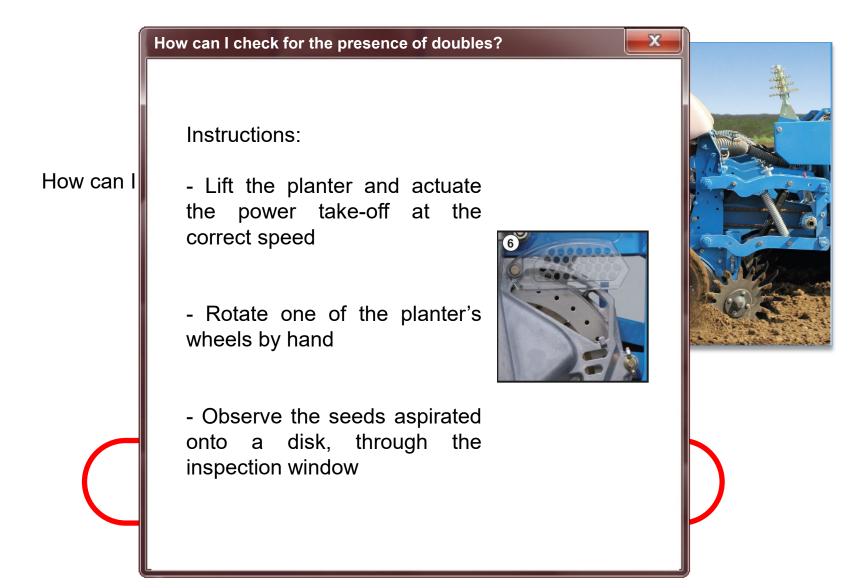
NO







Are there doubles on the disk?







- Excessive power take-off speed
- Seed scraper setting too high
- Seed scraper worn or warped
- Disk hole diameters too large
- Level of seed in the box too high

I have checked all of these points. Has the problem been rectified?













Tractor revolution counter faulty or inaccurate Engine speed too high

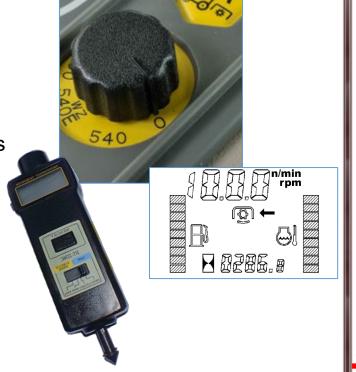
Corrections:

Check the speed using a tachometer

Observe the standard speed for tractor drivers

Info:

Suction value: 55 mbar/row



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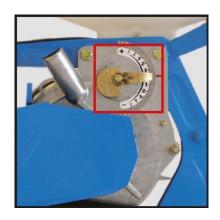


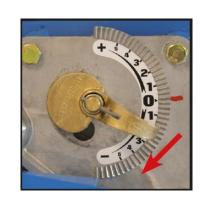


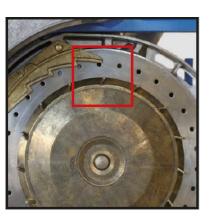
Sowing small seeds (according to varieties) Small number of rows Seed not graded

Correction:

Reduce the value of the setting needle







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Seed scraper worn or warped

Correction:

Change the seed scraper

Info:

Change the seed scrapers on all the rows at the same time.

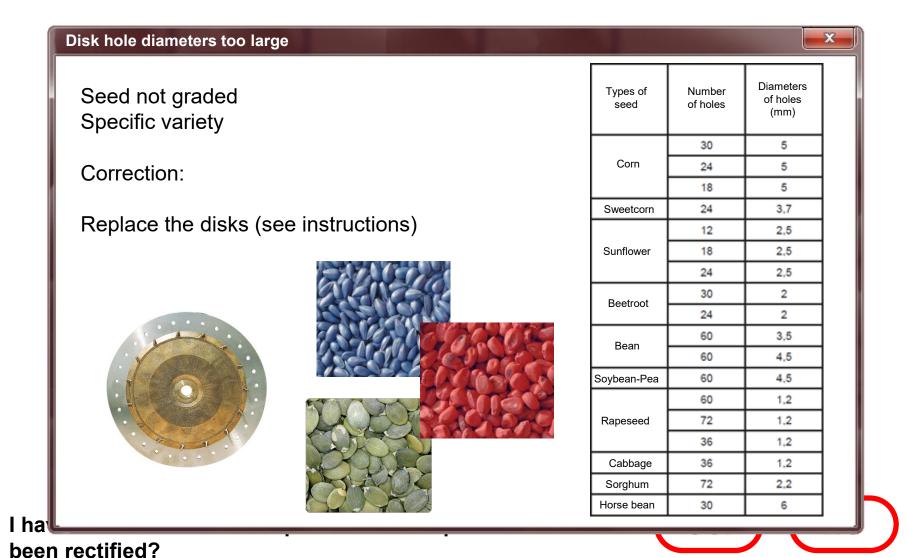
Number the parts of the seed metering device (seed scraper, disk, cover) in order to always replace them on the same rows.

















Level of seed in the box too high

Level flap incorrectly set Level plate unsuitable Sowing in slopes >20%

Correction:

Check the level plate and its position (rapeseed, sunflower, corn...)

Info:

The Steep Slope level plate is mainly suited to very fluid sunflower seed. (6233-2)

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Are there skips on the disk?

How can I check?





YES

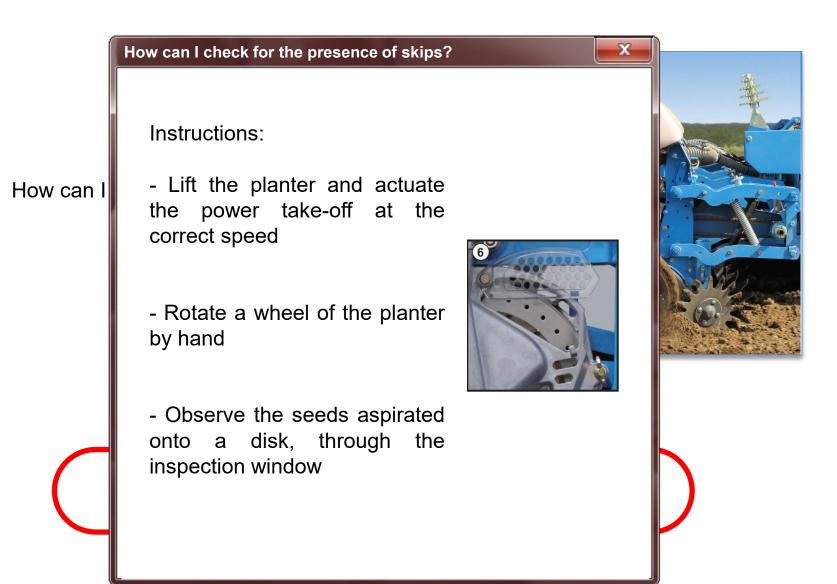
NO







Are there skips on the disk?





- Excessive working speed
- Insufficient power take-off speed
- Suction pipes poorly connected or pierced
- Seed scraper setting too low
- Seed scraper clogged up or warped

- Disk or wear gasket warped or worn
- Diameters of disk holes too small
- Disk holes blocked
- Foreign bodies in the hopper
- Arching of seed

I have checked all of these points. Has the problem been rectified?

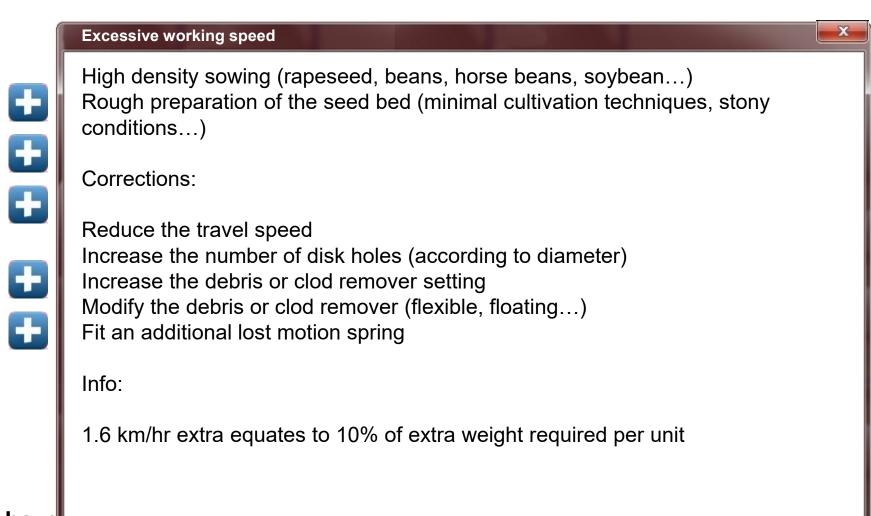












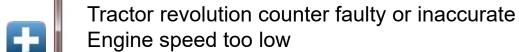
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Check the speed using a tachometer Observe the standard speed for tractor drivers

Suction value: 55 mbar/row

Info:

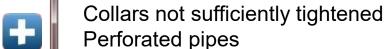








Suction pipes poorly connected or pierced





Replace the faulty pipe(s) Tighten or replace the collars

Info:

Prevent pipes from coming into contact with projecting or vibrating parts

Ensure that the pipes do not bend excessively Check that the pipes are not taut when folding the planter





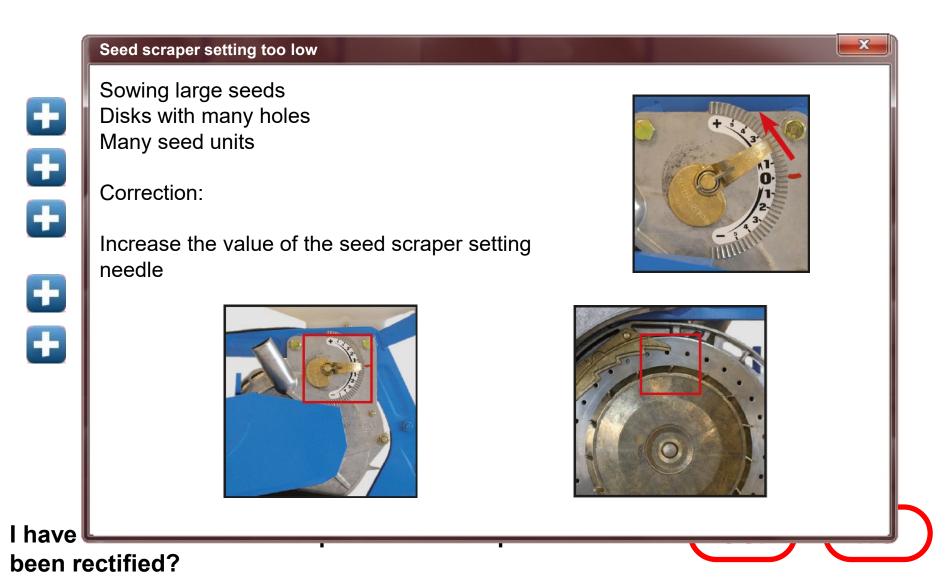
















Corrections:

Clean the seed scraper with the wire brush Change all of the seed scrapers if warped

Info:

Number the parts of the seed metering devices (seed scraper, cover, disk) so that you always replace them on the same units.

I have













Disk or wear gasket warped or worn

Presence of 2 grooves on the back of the disks

Warping of a disk



Replace the disks

Replace the wear gaskets



Number the parts of the seed metering devices (seed scraper, cover, disk) so that you always replace them on the same units.

Observe the flatness of the wear gasket when replacing.







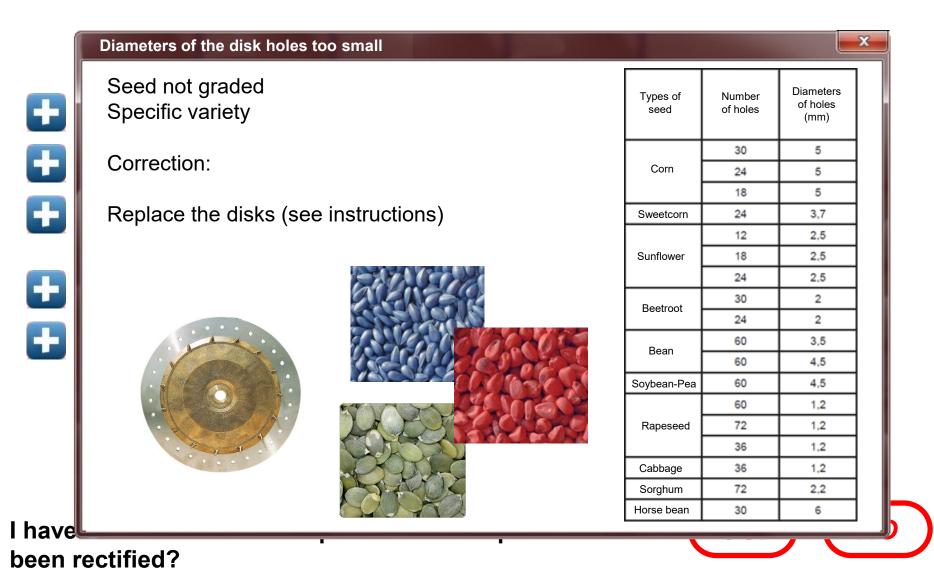








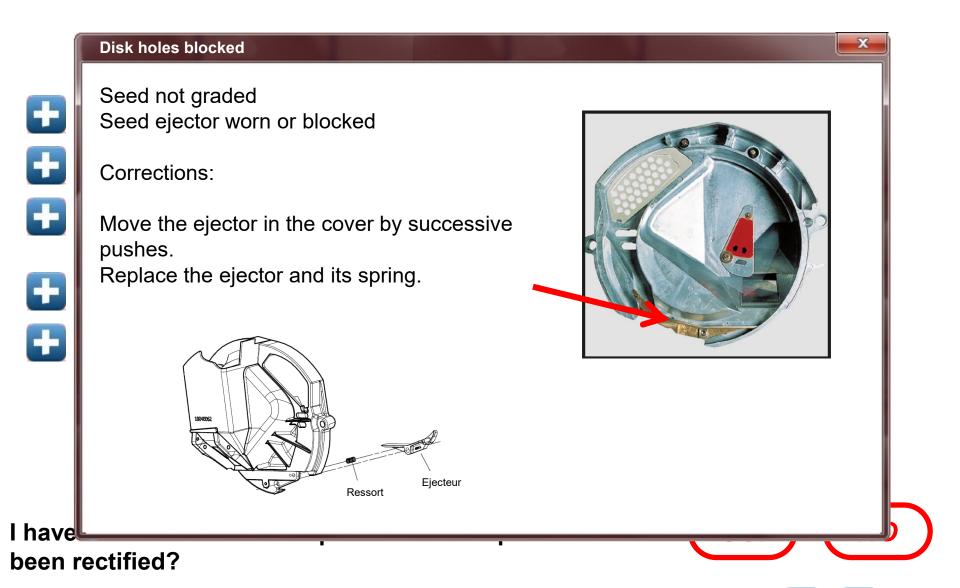




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Foreign body in the hopper













Accumulation of remnants of seeds Scraps of seed bag

Correction:

Completely unload the hopper and remove the cover of the metering box in order to clean with compressed air.

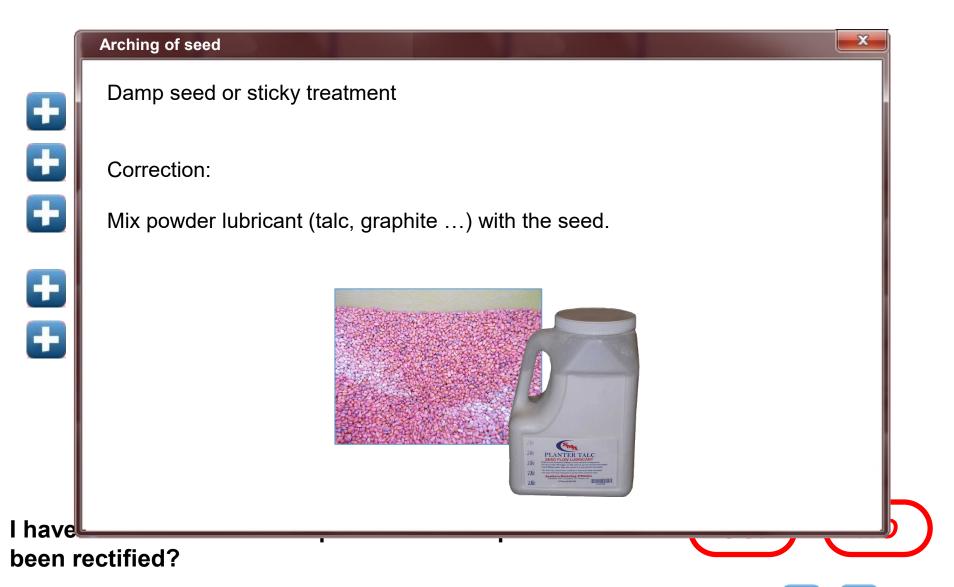


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Is desired density being observed?

How can I know what it is?

- Sow in a furrow left open on one row
- Count the number of seeds on the test distance
- Multiply the result by 1,000



How can I find out my test distance?



YES

NO







Is desired density being observed?

How can I know w

- Sow in a furrow l
- Count the number test distance
- Multiply the resu

Calculating the test distance:

How can I find out my test distance?

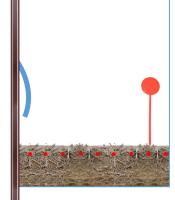
$$1000 \div IR (cm) = distance (m)$$

$$E.g.: 1,000 \div 75 cm = 13.33 m$$

IR(cm)	d (m)
40	25,00
45	22,22
50	20,00
60	16,66
75	13,33
80	12,50







X



- Earth sticking to the driving wheels
- Tyre pressure not observed
- Excessive working speed
- Considerable slipping of the planter wheels

I have checked all of these points. Has the problem been rectified?











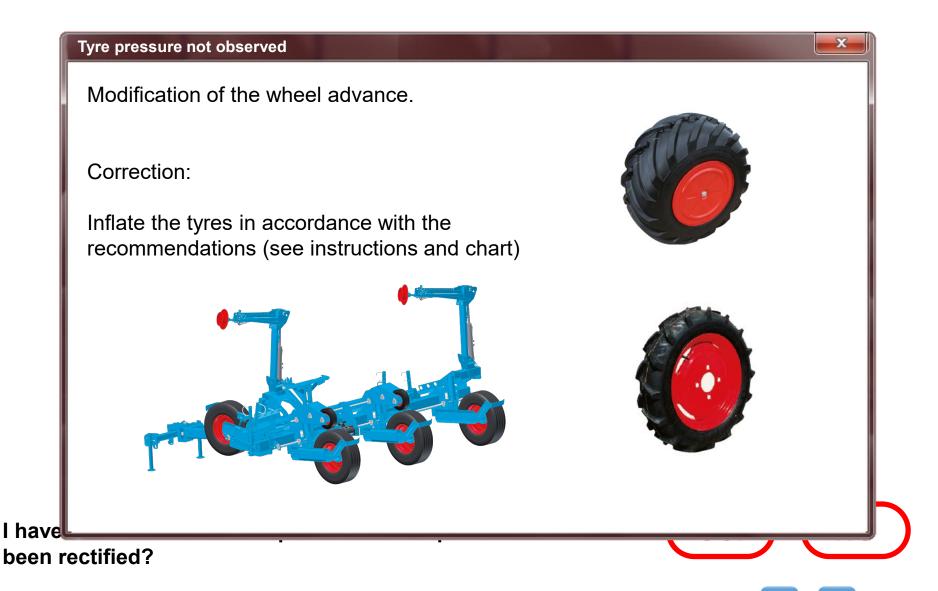
Earth sticking to the driving wheels Density reduced Correction: Fit an earth remover if possible Info: Reduce the tyre pressure (within the recommended range) to encourage selfcleaning of the tyre tread.

I have

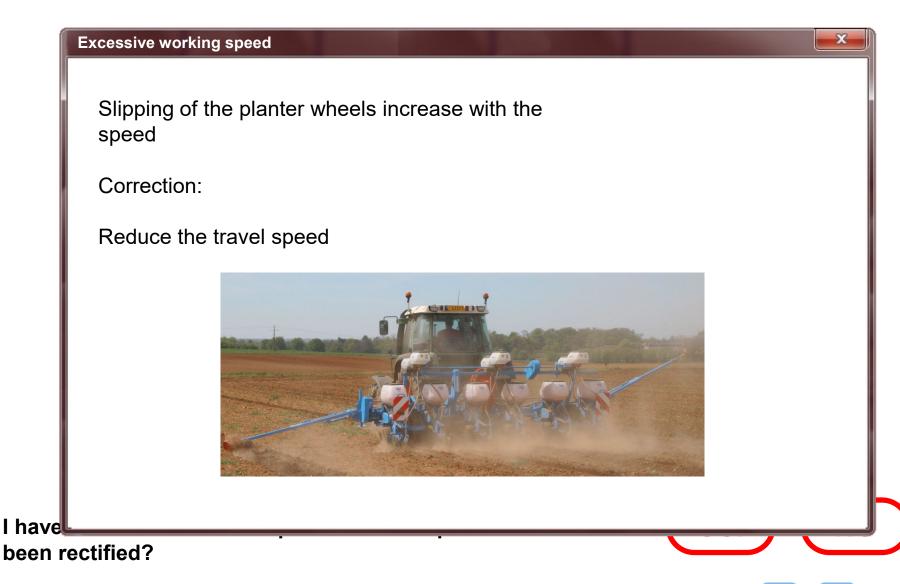


















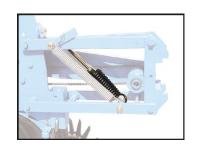
Considerable slipping of the planter wheels

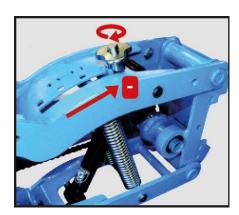
Considerable resistance to the drive of the planter

Lack of adhesive weight on the frame

Corrections:

Identify the cause of drive overloading (turbofan running, move the wheels by hand)
Reduce the depth control pressure on the units.





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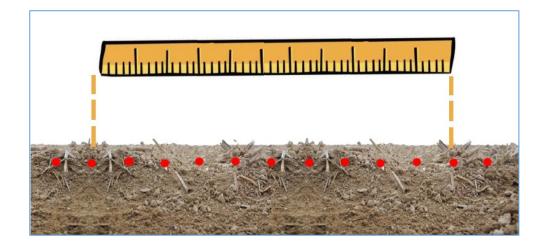


Is the distance between seeds observed?

How can I assess it?

- Check the density actually sowed (count on test distance)
- Using a ruler, dig up 11 sowed seeds
- Measure the distance separating the 11 seeds, then divide the value by 10.

(Permissible variation of 2.5 cm)



YES

NO







- Planter incorrectly hitched
- Excessive working speed
- Excessive wear of the tip (or shoe)
- Suction setting too low
- Work in sticky soil with packing wheel

I have checked all of these points. Has the problem been rectified?











Planter incorrectly hitched

Heeling fault of the planter, disrupting the seed dispensing rate in the chute.

Correction:

Adapt the length of the third point

Info:

Use the furrowers, turbofan, or hoppers as a point of reference for the correct level



I hav







Excessive working speed

High density sowing (rapeseed, beans, horse beans, soybean...)

Rough preparation of the seedbed (minimal cultivation techniques, stony conditions...)

Corrections:

Reduce the travel speed Increase the number of disk holes (according to diameter) Increase the debris or clod remover setting Modify the debris or clod remover (flexible, floating...) Fit an additional lost motion spring

Info:

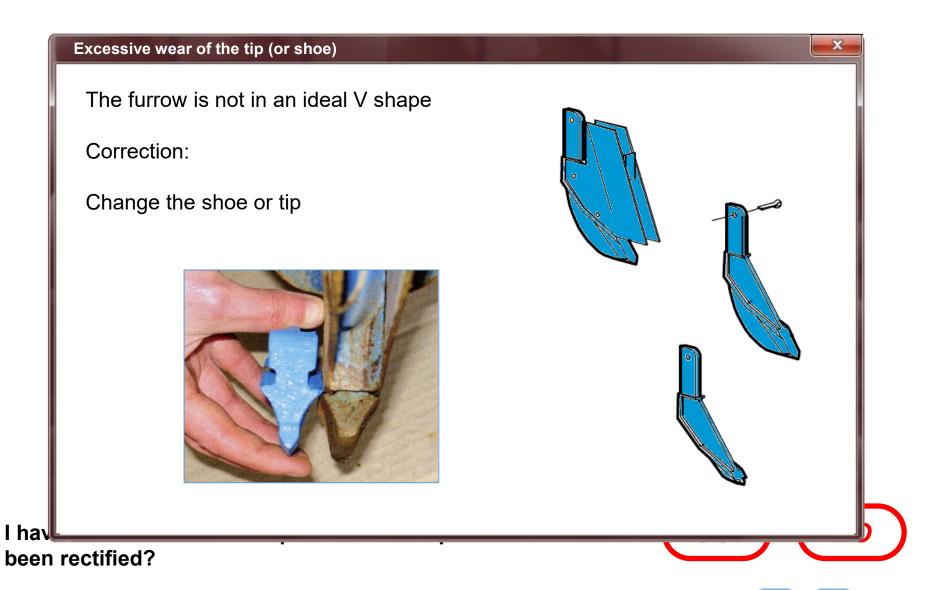
A floating or flexible residue remover reduces the risk of jolting the unit



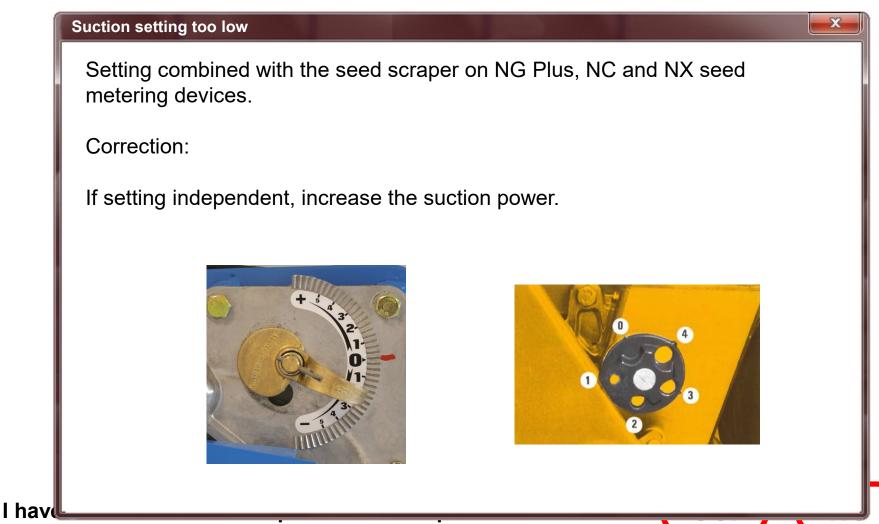


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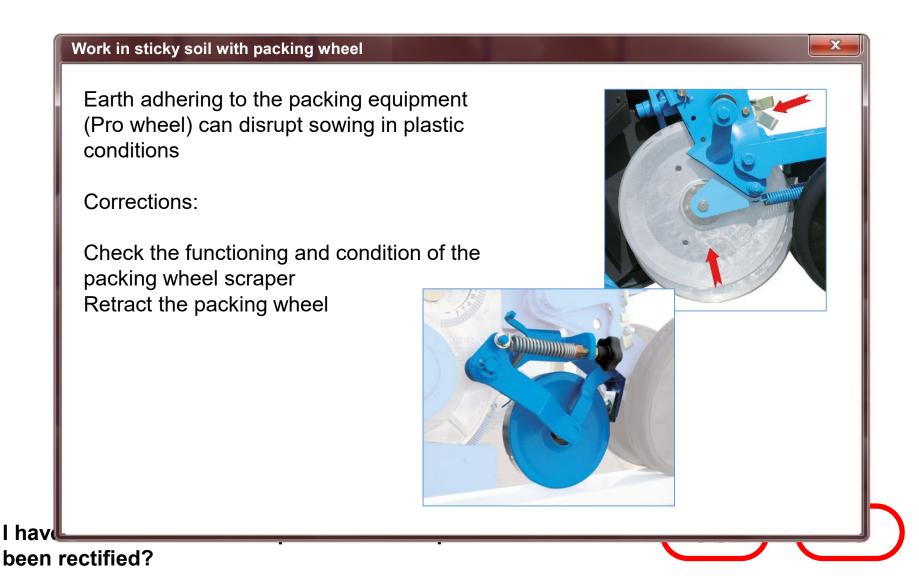














Is the planting depth consistent?

Adjust the rows identically:

- The height of the gauge wheels
- The pressure of the rear units
- The pressure of the press wheels
- The pressure of the metering unit parallelograms



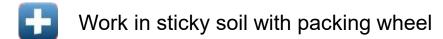


YES

NO









Tip (or shoe) broken or not suitable

Not enough pressure on metering unit

Badly adjusted clod removers or trash wheels

I have checked all of these points. Has the problem been rectified?

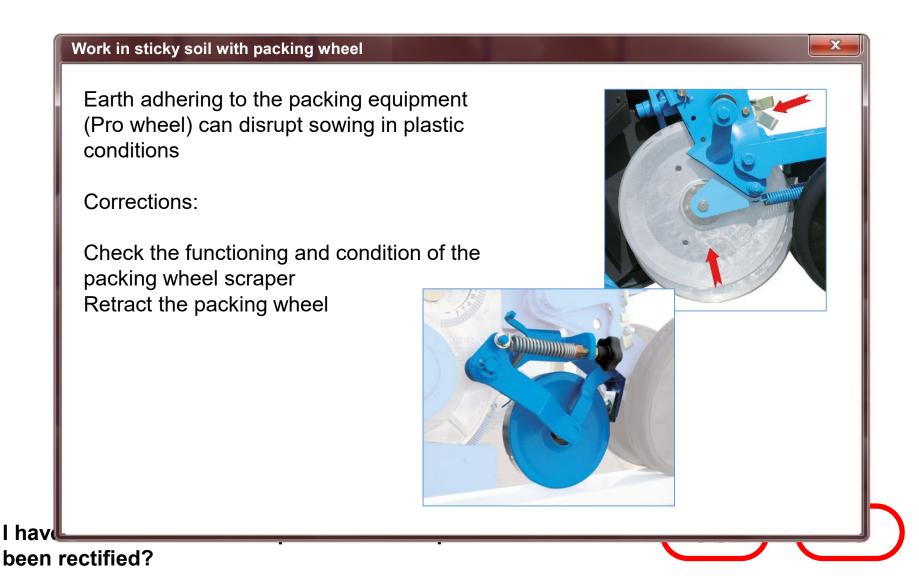














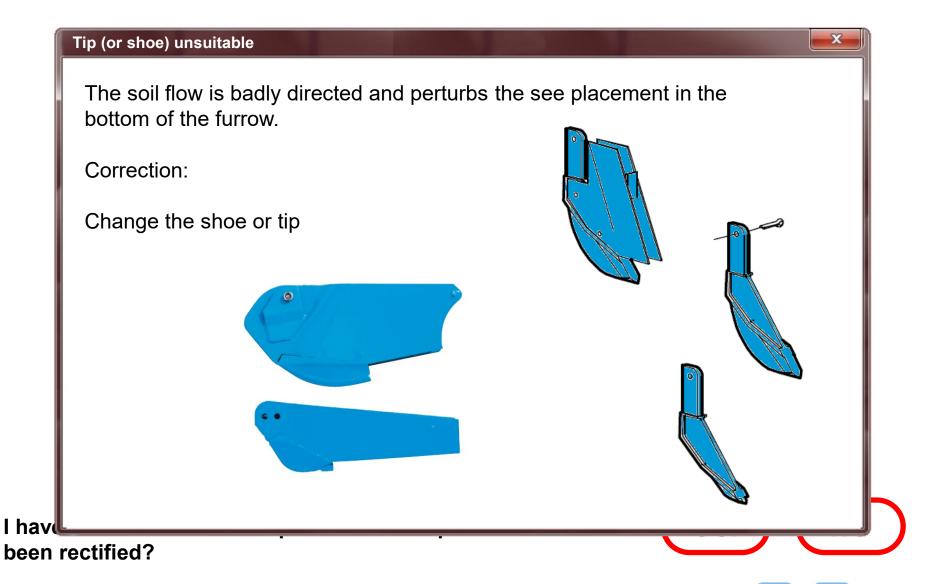
Wrong adjustment of the rear unit The unit is not adjusted in an optimal manner Corrections: Modify the spacing of the closing wheels Modify the pressure of the rear unit Modify the pinching of the closing wheels (according to model)

I hav













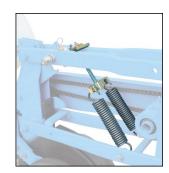
Not enough pressure on metering unit

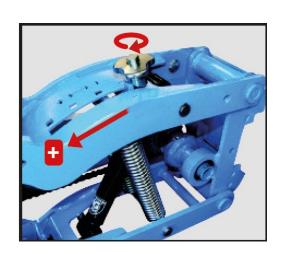
The metering unit is not in permanent contact with the soil

Corrections:

Increase the pressure on the metering units Add an extra pressure spring







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Badly adjusted clod removers or trash wheels

The metering unit rests on the front-mounted equipment which perturbs the metering unit

The lack of agressivity of the front-mounted equipment does not clear sufficiently the passage of the gauge wheels

Correction:

Adjust the height of the front-mounted equipment







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Is the furrow closing regular?

Adjust the rows identically:

- The height of the gauge wheels
- The pressure of the rear units
- The pressure of the press wheels
- The pressure of the metering unit parallelograms



YES

NO







- Sowing on lateral slopes
- Badly adjusted rear unit
- Clay soil in hard consistence

I have checked all of these points. Has the problem been rectified?

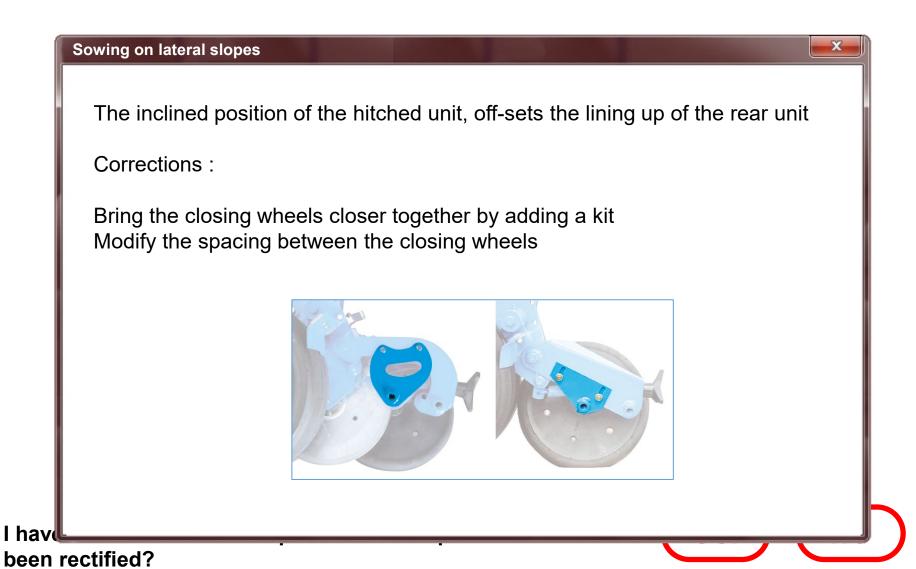












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Bad adjustment of the rear unit

The wheel unit is not adjusted in an optimal manner

Corrections:

Modify the spacing of the closing wheels

Modify the pressure of the rear unit

Modify the pinching of the closing wheels (according to the model)



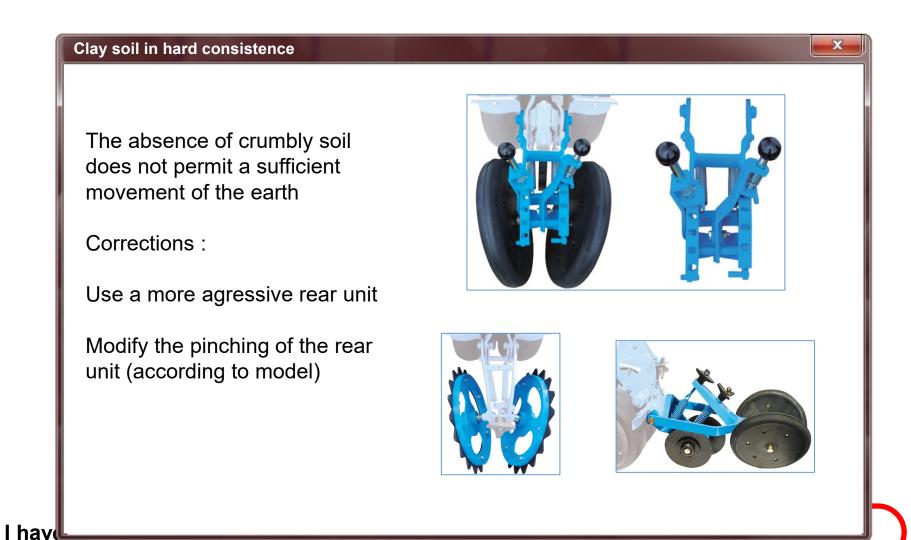


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Planting quality control

You have checked the quality of sowing and obtained consistent sowing?

Then sow!













Planting quality control

Aren't you obtaining the planting quality requested?

Make a list of all of the checks that you carried out and contact your distributor.



Are there doubles on the disks?
...
Are there skips on the disks?
...
Is the desired density observed?
...
Is the distance between seeds consistent?
...
Is the depth consistent?
...
Is the furrow closing homogeneous?



