



# Pre-season Checks Spirit



Where farming starts





# Maintaining your Väderstad machine is always a good investment

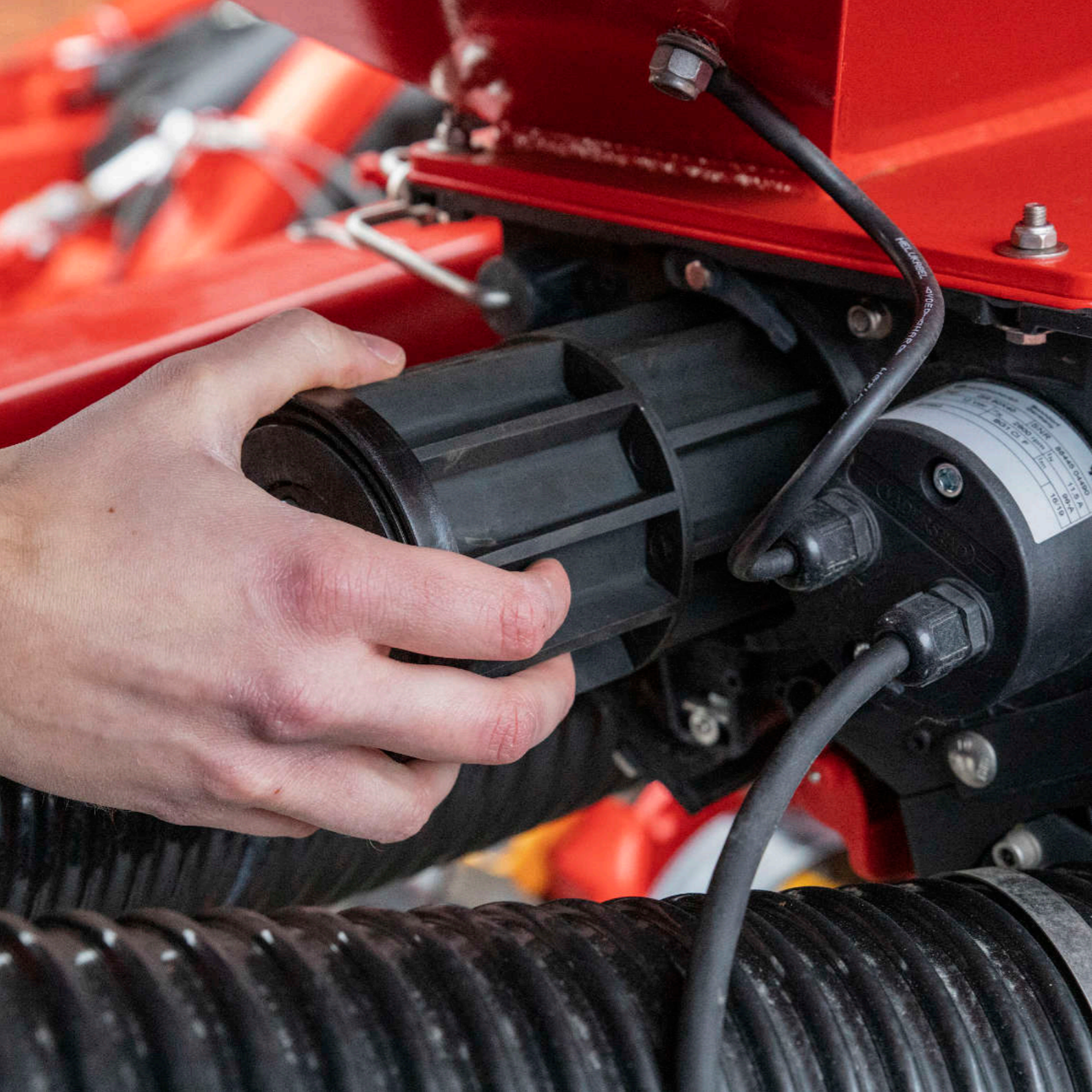
Väderstad is known to farmers all over the world for innovation and high-quality products. But even high-quality products need service and support.

Väderstad Service is represented in over 40 countries, either by importers, our fully owned subsidiaries or at more than 1000 dealer locations worldwide. Since we support well over 70,000 machines worldwide, we always stay close to our customers so that we can provide quick and competent support – whenever it's needed. If you experience issues with your Väderstad machine, please turn to your local dealer where their fully qualified service engineers will be able to assist you.

## Contents

Introduction .....	1
How to check your machine .....	3
Maintenance introduction.....	4
Spirit R .....	6
Spirit C/S.....	8
Väderstad Quickstart guides.....	11
Online documentation .....	12





## How to check your machine

Inspect for optimal performance, trouble-free operation and identify issues before they turn into costly repairs. You should always check your machine before you start the next season. For details about checkpoints and service intervals please read the Instruction manuals maintenance and service section. Always lubricate according to the lubrication chart.

### Key points

- Machines need to be fully function checked to ensure they are up to the job prior to your planting season. Your dealer can offer a full check up service and simulate the radar even in your workshop. Please ask for details.
- Check the serial number on the chassis to be sure you get the correct parts from your dealer.

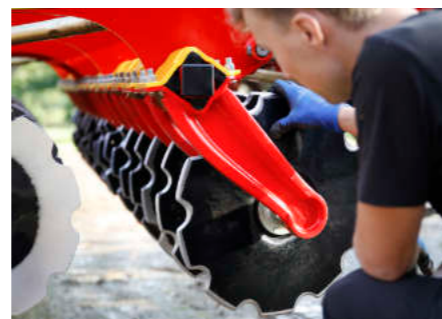
If you experience a break down during an intense working period, the time your machine is down causes frustration and costs money. By carrying out proactive monitoring and preventive maintenance, a great step is taken to avoid situations like this.

After each season thoroughly wash the machine and for seed drills/planters clean all parts in the seed feed systems. Check the status of wearing parts and follow the greasing and other maintenance intervals given in the instruction manual. During the season, regularly re-tighten joints and inspect for wear, excessive wear on joints may be an indication that the machine setup is not optimal.



# Maintenance

Your Väderstad machine is a high-quality high-tech machine. Like all technical equipment regular maintenance and good care is the basis for a trouble-free operation, and a good investment for the future.



## Clean

- Wash the machine with a high pressure washer.
- For all drills and planters clean inside the seed feed units and distributor heads with compressed air.
- Clean electrical components with compressed air or by wiping them with a slightly dampened cloth.
- Pay special attention to sections that are affected by fertiliser products.
- Never rinse the bearings with a high-pressure water supply! It is important to grease the bearings after washing in order to remove any water that has remained behind.

## Lubricate

It is essential that the machine is lubricated according to the intervals specified in the lubrication chart.

Beside lubrication intervals:

- Always lubricate prior to and after winter storage.
- Always lubricate after washing with high-pressure equipment.

## Inspect

- Inspect the wear parts. After a certain point of wear the parts are no longer bringing the result you expect from your Väderstad machine.
- Regularly check that screws and bolts are tightly fitted.
- Inspect for wear in the joints that connect frame sections and hydraulic cylinder mountings. Especially on machines for tillage, excessive wear on joints and hydraulic cylinder mountings may be an indication that machine setup is not optimal. Information to reset to a basic setting can be found in the machine's quick start instructions.





- 1 Clean and calibrate the radar before operating**  
Ensure that the radar's operating radius is clear from disruptive elements such as hoses or cables. On Spirit R consider mounting a mudguard behind the pivot packer, to prevent dirt splash and disturbing the radar. **Art. No: 7117042**

- 2 Order new discs in time**  
Minimum recommended measurement:  
380mm on System Disc Nordic 410mm  
400mm on System Disc Aggressive 450mm

- 3 Check that the joints on the turnbuckles that connect the front tool with frame have not worked loose**  
Tighten with 82 Nm at both ends. For extremely worn joints a service kit is available with expandable caps to compensate for the wear.  
**Service kit 246515 contains all necessary parts for modification of Spirit R 300 from serial number 101-.**

- 4 Re-tighten wheel bolts and check tyre pressure on centre section wheels**  
Wheel bolts Spirit R 300 (all wheels) = 220 Nm.  
Tyre pressure 400/55-15.5:  
Spirit R 300 all wheels = 2.4 bar.

- 5 Order new seed discs in time**  
To achieve a perfect seed placement the seed disc must be properly adjusted. The distance between the discs shall be at least 2mm but no more than 10mm.

Turn the disc and check the distance for a full turn, ideal distance is 2-3mm.

If the distance between discs are more than 10mm at any point during rotation the disc must be changed.

Small adjustments of the distance between discs can be made by removing 0,5mm shims from the disc axle. At least 2 shims must remain on each side.

- 6 New scraper for the seed disc**  
New scraper was introduced on Spirit R 300 from STR0000316. The new scraper is available to retrofit onto older machines from Parts with **Art. No: 236043**, the kit can be mounted on Spirit R 300 from s/n STR0000100.

- 7 Adjust packer wheel scraper**  
The distance between the scraper blade and the wheel must not be less than 5mm. Rotate the wheel by hand to verify the distance a full turn.

- 8 Check seed hose conditions**  
Make sure there are no cracks or other damage to the seed hoses. Check that the connection between hose and adjacent parts are secure.

- 9 Clean the seed distributor head outlets and moving parts involved in tramlining**  
The outlets must be free from seed or packaging remnants. Hatches that close outlets when tramlining is activated must move easily.

- 10 Check condition of the seed meters**  
Clean interior and check for wear or damage of the plastic and rubber parts. Clean and check rollers for wear or damage. On Spirit R make sure that the rotor for grain is free from cracks or damage, this can affect seeding capacity.

- 11 Clean hydraulic tractor couplings**  
Make sure that couplings are clean and check colour markings. Colour marked aluminium couplings together with graphical stickers are available for retrofit on older models.

- 12 Re-tighten wheel bolts and check tyre pressure on pivot packer**  
Wheel bolts = 220 Nm.  
Tyre pressure 190/95-15 = 1.5 bar.

**Safety!**  
Carefully read the safety instructions in the instruction manual before any service or maintenance work is carried out. Lubricate according to schedule.



- 1 Re-tightening of bolts**  
Re-tighten bolts by 277 Nm. Linkage draw bar is available as factory fitted option on Spirit 400-900C/S.
- 2 Clean and calibrate the radar before operating**  
Ensure that the radar's operating radius is clear from disruptive elements such as hoses or cables.
- 3 Order new discs in time**  
Minimum recommended measurement:  
380mm on System Disc Nordic 410mm  
400mm on System Disc Aggressive 450mm
- 4 Check condition of the fertiliser seed hoses (C-models)**  
Make sure there are no cracks or other damage to the seed hoses. Check that the connection between hose and adjacent parts are secure. Check that all hoses are running smooth without any sharp bends during the folding process.
- 5 Check that the joints on the turnbuckles that connect the front tool with frame have not worked loose**  
Tighten with 82 Nm at both ends. For extremely worn joints a service kit is available with expandable caps to compensate for the wear.  
**Service kit 246515 contains all necessary parts for modification of Spirit 400-900C/S from serial number 400-.**
- 6 Check the joints that connect wing sections to the centre frame**  
Clean the joint from grease and dirt. Check for damage or play. If play is detected change slide bearing in accordance with the instructions. Check torque, it must be at least 940 Nm.
- 7 Check tyre pressure on wing section wheels**  
Tyre pressure 400/55-15.5 = 2.0 bar.

- 8 Re-tighten wheel bolts and check tyre pressure on centre section wheels**  
Wheel bolts Spirit 400-900 (the two centre wheels) = 220 Nm.  
Wheel bolts Spirit 400-900 (the four outer wheels) = 330 Nm.

Tyre pressure 400/55-15.5:  
2.0 bar = the two centre wheels on Spirit 400-900.  
2.4 bar = the four transport wheels Spirit 400C/S.  
2.8 bar = the four transport wheels Spirit 600S.  
3.6 bar = the four transport wheels Spirit 600C and 800S.  
4.0 bar = the four transport wheels Spirit 800C and 900C/S.

- 9 Order new seed discs in time**  
To achieve a perfect seed placement the seed disc must be properly adjusted. The distance between the discs shall be at least 2mm but no more than 10mm.

Turn the disc and check the distance for a full turn, ideal distance is 2-3mm.

If the distance between discs are more then 10mm at any point during rotation the disc must be changed.

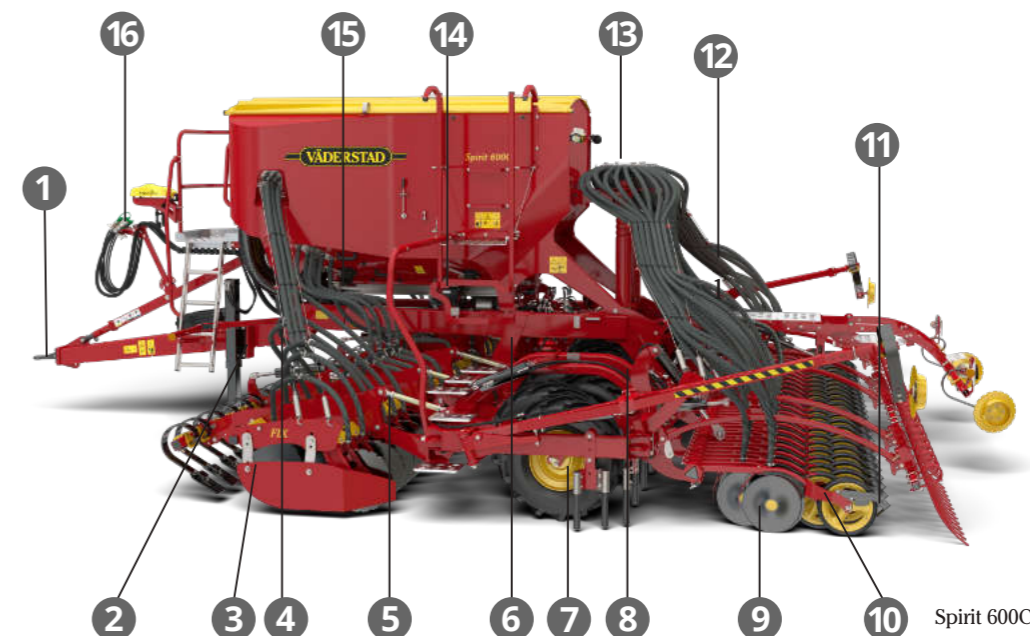
Small adjustments of the distance between discs can be made by removing 0,5mm shims from the disc axle. At least 2 shims must remain on each side.

- 10 New scraper for the seed disc**  
New scraper was introduced on Spirit 400-900 from s/n ST00002485. The new scraper is available to retrofit onto older machines from Parts with **Art. No: 236043**, the kit can be mounted on Spirit 400-900 from s/n ST00000400-.

- 11 Adjust packer wheel scraper**  
The distance between the scraper blade and the wheel must not be less than 5mm. Rotate the wheel by hand to verify the distance a full turn.
- 12 Check seed hose conditions**  
Make sure there are no cracks or other damage to the seed hoses. Check that the connection between hose and adjacent parts are secure. On Spirit 400-900 check that hoses are running smooth without any sharp bends during the folding process.
- 13 Clean the seed distributor head outlets and moving parts involved in tramlining**  
The outlets must be free from seed or packaging remnants. Hatches that close outlets when tramlining is activated must move easily.
- 14 Check condition of the seed meters**  
Clean interior and check for wear or damage of the plastic and rubber parts. Clean and check rollers for wear or damage. On Spirit 400-900 grain and grass rollers make sure the outer plastic ring on each side rotate easily. The ring is available as a spare part with **Art. No: 487925**.

- 15 Clean the fertiliser auger (C-models)**  
Pull out the auger and rinse from fertiliser residues. Inspect for damage.
- 16 Clean hydraulic tractor couplings**  
Make sure that couplings are clean and check colour markings. Colour marked aluminium couplings together with graphical stickers are available for retrofit on older models

**Safety!**  
Carefully read the safety instructions in the instruction manual before any service or maintenance work is carried out. Lubricate according to schedule.



Spirit 600C





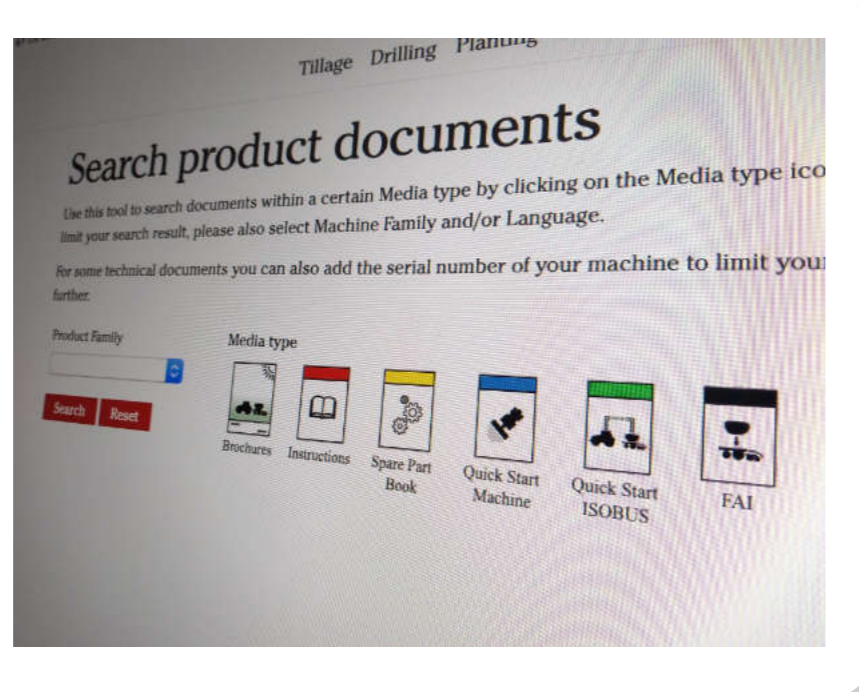
QuickStart – Basic settings – Väderstad Spirit

## Quickstart guides

[www.vaderstad.com/uk/service--parts/quickstart-guides](http://www.vaderstad.com/uk/service--parts/quickstart-guides)

Available on the Väderstad website, the Väderstad QuickStart guides tell you everything you need to know to correctly setup and start using your Spirit drill.





## Search product documents

[www.vaderstad.com/uk/products/search-product-documents](http://www.vaderstad.com/uk/products/search-product-documents)

Available on the Väderstad website, the document search page provides the ability for you to search for documents related to your machine. To limit your search result even further for technical documents, you can even add the serial number of your particular Spirit.







**VÄDERSTAD**

Where farming starts