

Instruction Manual Wintex 2000



Manufactured by: Wintex Agro ApS
Vilhelmsborgvej 15
DK-7700 Thisted

Type designation: Wintex 2000

Voltage: 12 volt DC

Year of production: 2015



For your safety

Before starting the **Wintex 2000** make sure that nobody is present within a range of 10 metres.

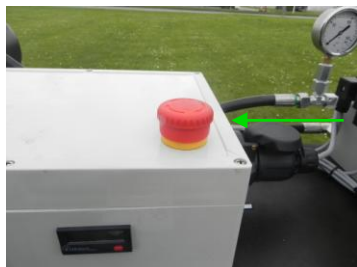
Be seated correctly on the ATV with one leg on each side of the seat and the hands placed correctly on the handle bar.

When inspecting the **Wintex 2000**, you must always activate the emergency stop, and the ATV must be turned off.

Every time you start the **Wintex 2000**, you must test the emergency stop. If the emergency stop does not turn off the soil sampler, you must not use it.



1. Starting the Wintex 2000



Start the ATV, and deactivate the emergency stop. The red button must be up.

Activate the foot switch and the brake on the handle bar, and shortly push the button at your right hand. Foot switch and brake lever must be activated during the entire process. If one of them is released, the process will stop.

Note: The emergency stop must always be activated at long stops, else the battery will be discharged.

2. Selection of program



Program selector

Program 1 takes a soil sample from 0-60 cm. The depth can be adjusted.

Program 2 takes soil samples from two different layers, from 0-30 cm and from 30-60 cm. The depth can be adjusted.



The soil sampler is adjusted to standard rotation (extra rotation "off"). It is possible to add rotation by turning the switch for extra rotation (extra rotation "on").

3. Adjusting the depth



The lower sensor plate defines the depth in program 1 and in program 2. Loosen the screws, and move the sensor plate up or down to the desired depth.

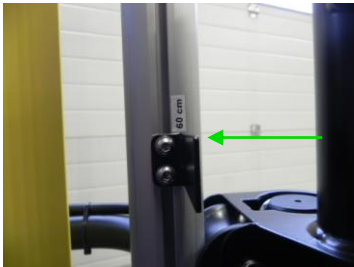




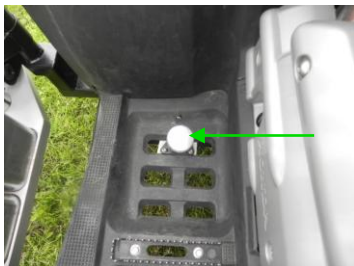
The upper sensor plate defines where the soil sample in program 2 will be divided. The depth can be adjusted from 0-30 cm. Loosen the screws, and move the sensor plate to the depth where the soil samples shall be divided.



For adjusting the depth it might be helpful to use the marked starting points 30 cm and 60 cm from which the desired depth can be measured and then adjusted.



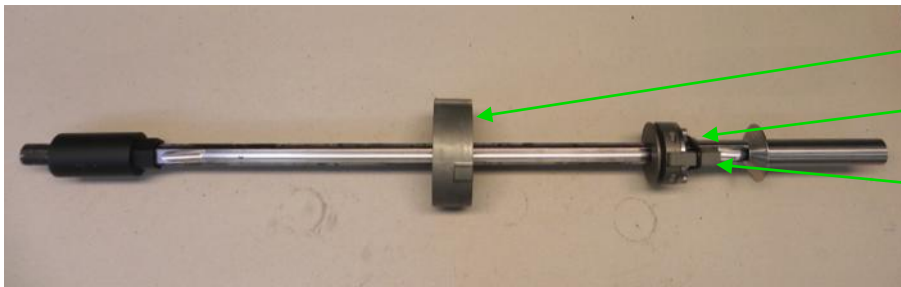
4. Interrupting the process



Due to various reasons it might be necessary to interrupt the process. In this case just deactivate the foot switch, and the process will stop immediately. When reactivating the foot switch and the brake handle at the same time, the probe will go back into start position. The soil will be discarded and not be filled into the soil boxes.



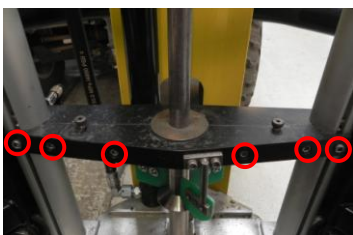
5. Replacement of O-ring, scraper and probe



Revolving platform

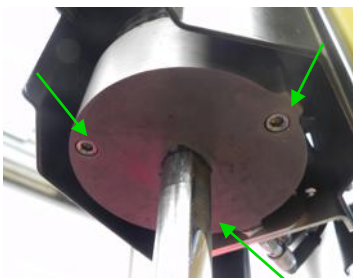
O-ring

Scraper



Replacement of probe

Remove the soil box and unscrew the six bolts. Half of the plate can now be dismantled.



Unscrew the three bolts. The revolving platform can now be pulled down along the probe.

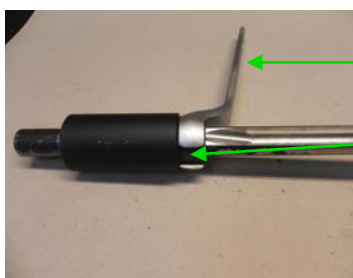


Caution:
The probe has sharp edges!



Remove the coupling nut with the 30 mm special key, which is delivered together with the Wintex 1000s.

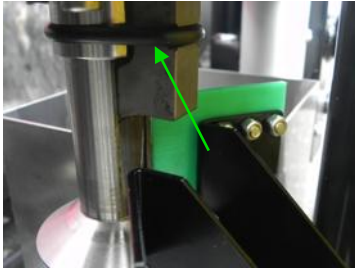
It is now possible to remove the probe.



Special key

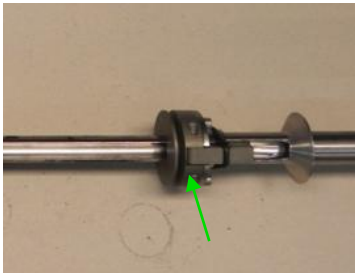
Coupling nut





Replacement of O-ring

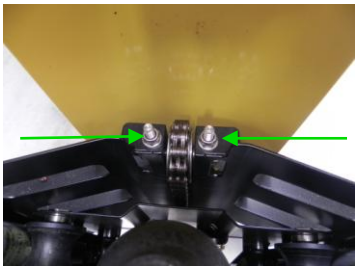
When the probe is removed, it is possible to replace the o-ring.



Replacement of scraper

At first force the knurled pin out. Then replace the scraper and replace the old knurled pin with a new one.

6. Adjustment of chain for probe up/down



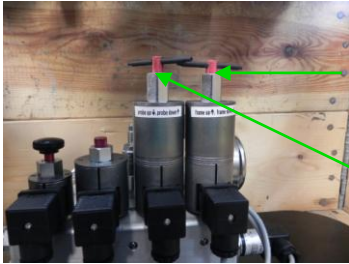
Move the probe ca. 20 cm down. The chain can now be adjusted by tightening the bolts.

7. Activating the hydraulic valves manually



Hydraulic block with valves.



**Soil sampler up/down:**

The soil sampler goes down when pressing the valve. The soil sampler goes up when pulling the valve.

Probe up/down:

The probe goes down when pressing the valve. The probe goes up when pulling the valve.

**Rotation:**

Screw counter-clockwise to activate the rotation process. Then press the main switch. IMPORTANT: Re-set the button into start position after use.



Do always activate the main valve by pressing it down when activating the other functions.

8. Adjusting the hydraulics

**Adjusting the main pressure**

Start the motor with max. RPM. Press the main valve. The manometer must show 140 bar.



This valve is for adjusting the main pressure. The main pressure is pre-set ex works on 140 bar. It must only be adjusted after signing a written agreement with Wintex Agro ApS.

Fuse:

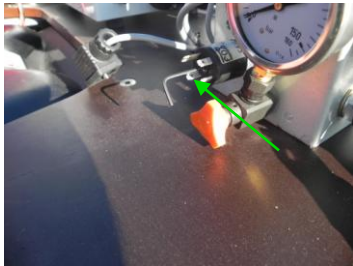
There is a 7.5 amp fuse for current control in the control box.





Adjusting the pressure of the soil sampler towards the ground

Dismount the plug.

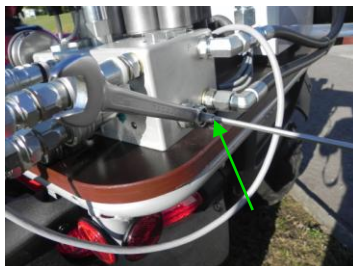


Adjust the pressure by using a 2 mm hex key. Pressure will rise when turning the key to the right. For lowering the pressure, the key must be turned to the left. The pressure must be adjusted so that the soil sampler stands firm and stable on the ground.



Adjusting the rotation speed

Press the button down, and turn it counter-clockwise. The button will come up. Start the motor with max. r.p.m. Press the main valve, and the probe will rotate.



Loosen the lock nut. The rotation speed is adjusted by turning the screw. When turning to the left, the probe will move faster. When turning to the right, the probe will slow down. The adjusting screw must be set to 50 r.p.m.



Press the button down. Turn it to the left so that it stays down.





Adjusting the pressure of the probe

Loosen the lock nut. Adjust with a 6 mm hex key. Pressure will rise when turning to the right. Lower the pressure by turning to the left.

9. Adjusting and mounting sensors



The upper sensor plate determines if the probe is in top position.

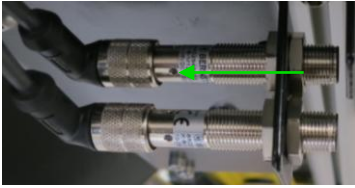
The sensor plate in the middle determines where the soil sample will be divided.

The lower sensor plate determines the depth of the soil sample.



The distance of both sensors towards the sensor plates must be 2-3 mm. Make sure that the distance of both sensors towards the sensor plates is exactly the same. We recommend to adjust the sensors in relation to the lower sensor plate.



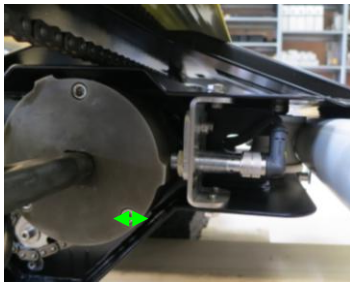


You can see a light when the sensor is activated.



Make sure to connect the sensor and the sensor plug correctly by being aware of the notch.

10. Adjusting the sensor for rotation



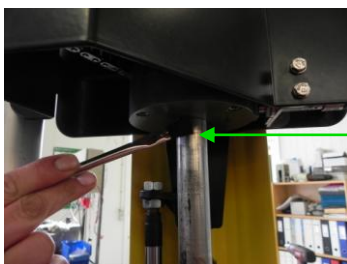
The distance between the sensors for rotation and the rotary sensor plate must only be 1 mm. Make sure that both sensors have exactly the same distance towards the rotary sensor plate!

11. Maintenance



IMPORTANT: After the first 8 hours of operation screws must be tightened.

Lubricate the grease nipple if required.



If required, lubricate the top of the probe where the hammer moves up/down.

- Daily:**
- Lubricate the chain for rotation with oil.
 - Lubricate the chain for probe up/down with oil.
 - Check all chains tighten them if necessary.
 - Check and tighten vital parts.
 - Check the oil level of the hydraulics.

12. Errors

Error	Causes	Remedying
The Wintex 2000 does not start.	1) The fuse is blown. 2) The emergency stop is activated. 3) Does not activate all switches. 4) The switches are defect. 5) There is a lack of power supply.	1) Put in a new fuse. 2) Deactivate the emergency stop. 3) See manual point 1. 4) Change the switches. 5) Charge the battery.
The soil cannot be squeezed out of the probe.	1) The probe is choked up with soil. 2) The probe is bent. 3) The O-ring is broken.	1) Clean the probe for soil. 2) Exchange the probe (see manual point 5). 3) Replace the broken O-ring with a new.
The vehicle is being lifted when the probe shall go into the ground.	1) The pressure against the ground is too high. 2) The pressure on the cylinder for the probe is too high.	1) Reduce the oil pressure (see manual point 8). 2) Reduce the oil pressure (see manual point 8).

