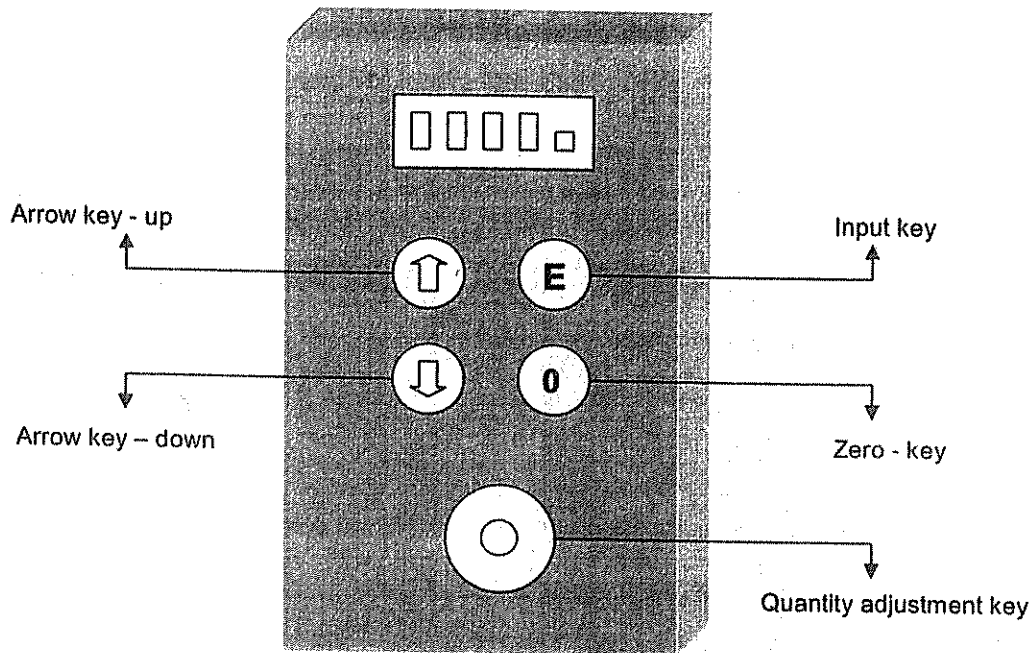


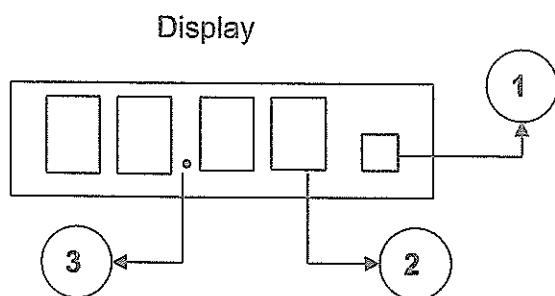
Operating Instructions



** parts master*

- A. Importance of numbers and letters on display**
- B. Key function**
- C. Entering the required values (wheel circumference, working width)**
- D. Electrical quantity adjustment**
- E. Maintenance / Power supply**
- F. Various**
- G. Distributor connection scheme**

A. Importance of numbers and letters on display



1 Function-display

- E Single-/daily area in ha (erasable), max. 999,9 ha
- t Total area in ha (non erasable), max. 9999 ha
- L Working width in m, max. 25,5 m
- r Wheel circumference in m, max. 2,55 m
- Stop A Problems with the seeding wheel
- Stop G Problems with air stream

2 Tank-level-alarm

A changing blinking line appears with an alarm sound, as soon as the seed level in the tank sinks below the measure optic.
The alarm sound can be turned off with the zero-button. The blinking display stays until tank is refilled with seeds.

3 Comma-display

Appears with area measurement. Before the comma ha are displayed. With the input of the wheel circumference or the working width meters are displayed before the comma.

Stop A

Appears when there is a problem with the seeding wheel. For example, the chain between gear box and seeding wheel could be torn apart. Or the gear box is defect. Or the button for the quantity adjustment is turned on „0“ by an oversight. The sounding alarm tone can not be turned off. There is no area counting.

Stop G

Is displayed when there is a problem with the fan, or if the hoses are blocked with water or seeds or if merely the optics of the photoelectric relay are dirty. If the seeds make a lot of dust (for example treated seeds) it can happen that the alarm tone appears after a short working time. If you are sure that everything is alright, you can stop the sounding alarm tune with the O-button. „Stop“ is still displayed, but the area is nevertheless being counted.

B. Key functions



Arrow key up

Display functions can be changed in ascending order. The displayed value can be increased for the input of the wheel circumference or the working width (see input of the required values).



Key arrow down

The display functions can be changed in decreasing order. The displayed value can be decreased for the input of the wheel circumference or the working width (see input of the required values).



The zero key

The single-/daily area can be erased with the zero key. Push the arrow key so often until the single- or daily area is displayed. Keep the O – key pressed in this display mode until a small c appears. Now the single and daily area is erased and automatically transferred to the total area.

The tank-level-alarm signal can be stopped by pushing the zero – key.

The air-stream-alarm can also be stopped with the O-key, „Stop” still appears on the display, nevertheless the area is being counted.
(see also „Stop G”)

Attention: If an alarm signal sounds because of a fault in the seeding wheel, the signal cannot be stopped with the zero – key. The problem needs to be solved first.



Input key

This key is necessary for changing the desired input values (wheel circumference, working width).

D. Input of the required values (wheel circumference, working width)

1. Input wheel circumference

Push the key arrow so many times with single pulse until the display for r wheel circumference appears. Then keep the E key pressed and simultaneously increase or decrease the displayed value in meters with one of the key arrows. (the more accurate the wheel circumference, the more accurate the area calculation). After letting go of the E key the new value is automatically saved.

2. Input working width

Push the key arrow so many times with single pulse until the display for L working width appears. Then keep the E key pressed and simultaneously increase or decrease the displayed value in meters with one of the key arrows. After letting go of the E key the new value is automatically saved.

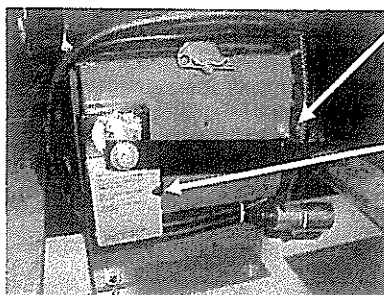
D. Electrical quantity adjustment

The seed quantity can be infinitely adjusted with the quantity adjustment key. The setting scale of the electronics agrees in about with the scale of the seeder, i.e. if you set the value 20 on the turning knob, the large adjustment lever on the seeder should also be in the area of position 20.

In order to reach a good repeat accuracy it is advisable to always start at zero.

The quantity adjustment lever on the seeder only has control purpose. When the electronics are turned off, the quantity adjustment lever picture 1.1 on the machine can also be changed manually. Push the black button picture 1 on the adjusting motor and turn the quantity adjustment lever. **Attention:** Do not use force!

This manual adjusting possibility is especially reasonable for defective or non-installable electronics.



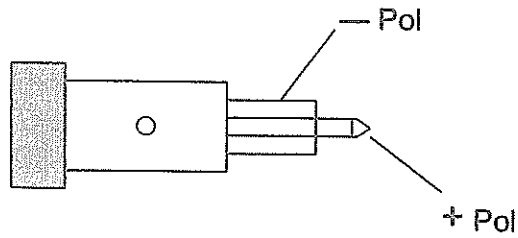
Picture 1.1

Picture 1

E. Maintenance / power supply

Protect the electronics from moisture, dust, low/high temperature and shock.

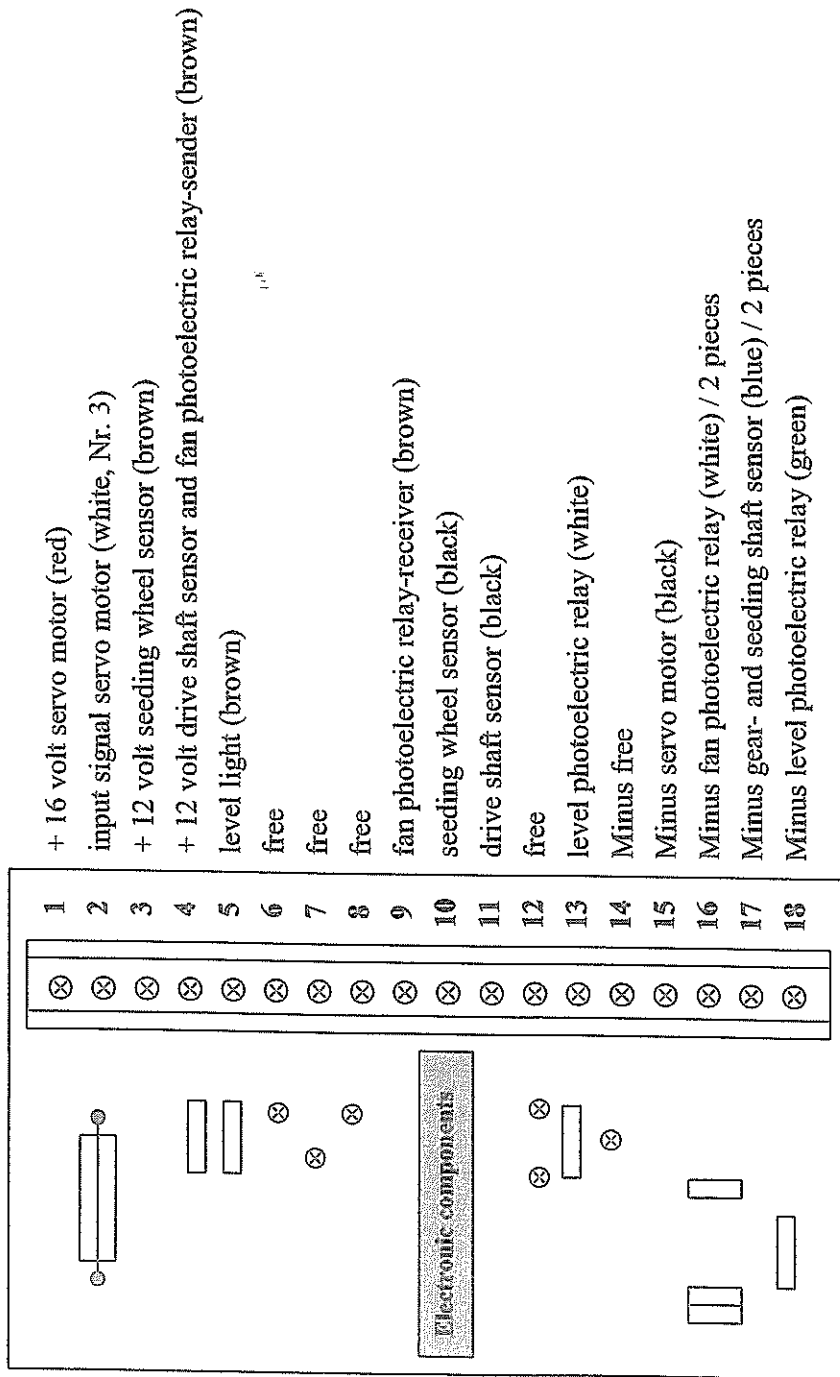
The electronics have to be feed at 12 V. The right polarity needs to be maintained.



F. Various

The flexible drive shaft is not electronically controlled, since the alarm would ring at every tractor standstill. You can control the function with the hectare counter. If no hectares are counted, the drive wheel is turning, but not the flexible shaf

G. Distributor connection scheme



- + 16 volt servo motor (red)
- input signal servo motor (white, Nr. 3)
- + 12 volt seeding wheel sensor (brown)
- + 12 volt drive shaft sensor and fan photoelectric relay-sender (brown)
- level light (brown)
- free
- free
- free
- fan photoelectric relay-receiver (brown)
- seeding wheel sensor (black)
- drive shaft sensor (black)
- free
- level photoelectric relay (white)
- Minus free
- Minus servo motor (black)
- Minus fan photoelectric relay (white) / 2 pieces
- Minus gear- and seeding shaft sensor (blue) / 2 pieces
- Minus level photoelectric relay (green)

<u>Photoelectric relay fan</u>	<u>Sensor with straight cable (receiver)</u>	<u>Photoelectric relay tank - level</u>	<u>Electrical quantity adjustment</u>										
Sensor with bent cable (sender) brown = plus (Nr. 4) white = minus (Nr. 16)	Sensor with straight cable (receiver) brown = Signal (Nr. 9) white = minus (Nr. 16)	brown = plus (Nr. 5) white = signal (Nr. 13) green = minus (Nr. 18)	<table border="1"> <thead> <tr> <th><u>Motorcable</u></th> <th><u>Connexion box</u></th> </tr> </thead> <tbody> <tr> <td>black</td> <td>1 clamp Nr. 15</td> </tr> <tr> <td>red</td> <td>2 Nr. 1</td> </tr> <tr> <td>white</td> <td>3 Nr. 2</td> </tr> <tr> <td>white</td> <td>5 not needed; isolate or pinch off</td> </tr> </tbody> </table>	<u>Motorcable</u>	<u>Connexion box</u>	black	1 clamp Nr. 15	red	2 Nr. 1	white	3 Nr. 2	white	5 not needed; isolate or pinch off
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Bildtafel 90

ERSATZTEILLISTE für

Etronic

Bildtafel 90 - 5930-E009

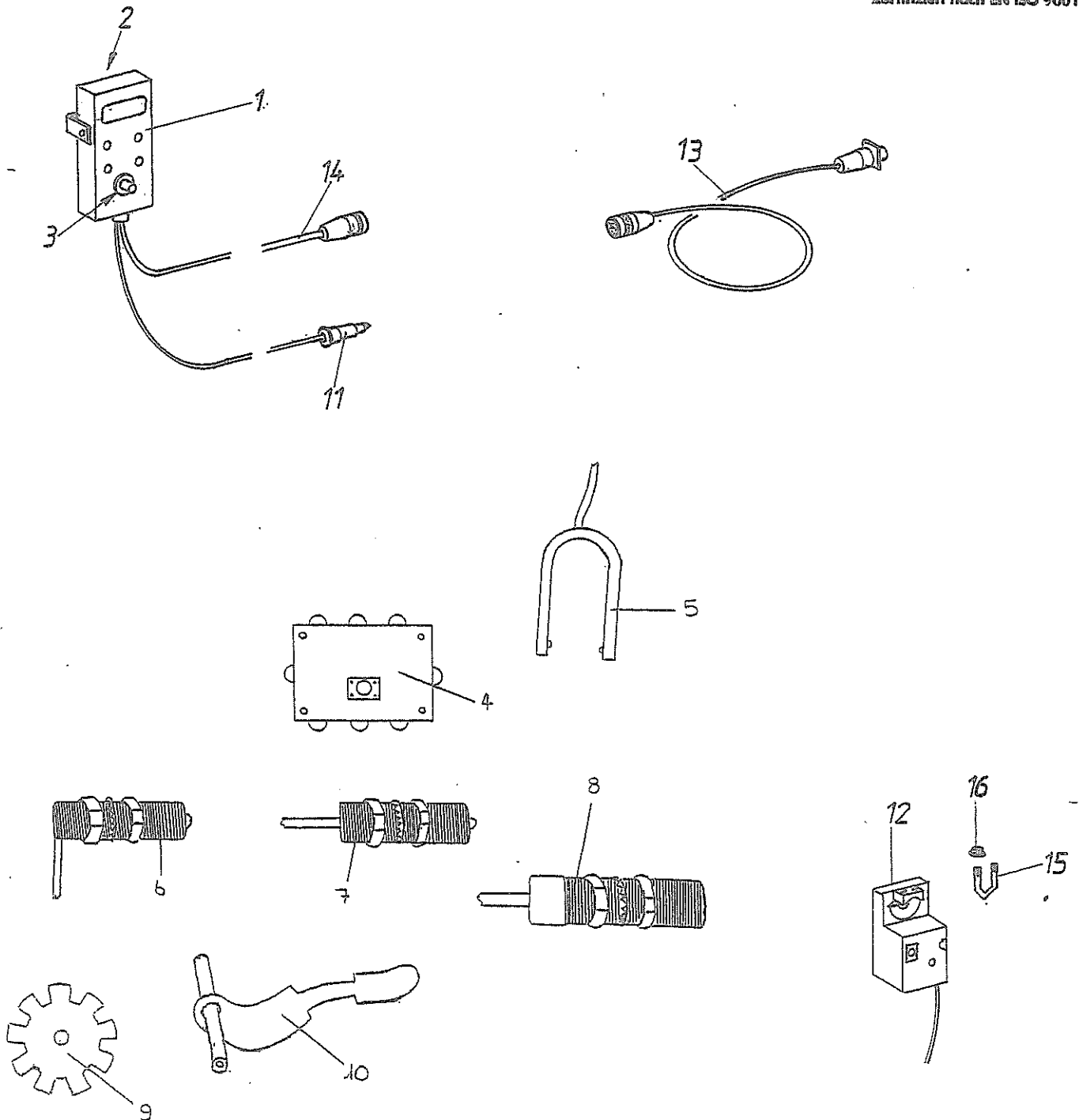
Einböck

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Zertifiziert nach EN ISO 9001



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Bei Ersatzteilbestellungen bitte Type und
Gerätenummer (Typenschild) angeben!

Pos.	Artikel-Nr.	Bezeichnung	Bemerkung
1	16-536 *	Elektronikbox kpl. inkl. Kabel und Stecker	
2	16-537	Magnetfuß	
3	16-538	Drehknopf	
4	16-539	Verteildose kpl. mit Print und Steckdose	
5	16-542	Lichtschranke Tankniveau, inkl. Klemmblock	
6	16-543	Luftstromüberwachungssensor Sender (abgewinke	
7	16-544	Luftstromüberwachungssensor Empfänger	
8	16-545	Drehzahlsensor Dosierwalze oder Getriebeeinga	
9	16-546	Zahnscheibe bei Dosierwalze	
10	16-547	Luftklappen	
11	16-540	Hauptstecker 12 Volt 2-polig	
14	16-548	12-poliger Geräteanschlußkabel mit Stecker ru	
12	16-549	Verstellmotor	
13	16-541	Verlängerungskabel 4 m Gerät - Steuerung Etr	
15	16-558	Klemmbügel für Verstellmotor	
16	16-559	Mutter M6 für Klemmbügel	

5930-E009