

# Original Operating Instructions

## Speed-Tronic Control module 5.2

Status: 04/2014, V.1.22.10.7



Read the “Quick start” menu item  
carefully before operating!

**Einböck**

2	
---	--

--

# Table of contents

1	Warranty.....	4
2	Quick start .....	4
2.1	Scope of delivery and fastening .....	4
2.2	Electrical connections.....	5
2.3	Control module.....	7
2.4	Main display: .....	8
2.5	Selection menu.....	9
2.6	Seed rate calibration test.....	10
3	Advanced settings .....	13
3.1	Surface area meter (seeded surface area).....	13
3.2	Calibrating the driving speed (tachometer).....	13
3.2.1	Test distance 100m.....	13
3.2.2	Manual calibration.....	14
3.2.3	Calibration value .....	14
3.2.4	Resetting the calibration .....	14
3.3	Emptying .....	15
3.4	Operating hours counter.....	15
3.5	Operating voltage / power display .....	16
3.6	Language .....	16
4	Control messages.....	18
4.1	Notes.....	18
4.2	Faults .....	20
5	Accessories .....	22
5.1	Ground wheel with sensor (item no.: 3440-4104).....	22
5.2	Amphenol Molex sensor (item no.: A202027).....	23
5.3	Radar sensor (item no.: A00410-2-084) .....	24
5.4	Wheel sensor (potential-free) MX (item no.: A201970).....	25
5.5	MX chassis hoist sensor (item no.: A201971) .....	26
5.6	MX upper linkage hoist sensor (item no.: A202424).....	27
5.7	MX chassis hoist sensor inductive (item no.: A00410-2-085).....	28
5.8	Sensor splitter (item no.: A202029) .....	29
5.9	Complete cable set for power plug (item no.: A201921),.....	30
6	Programming 5.2 (customer service).....	31
6.1	Fan.....	31
6.2	Sound signal when the status of seeding shaft changes .....	31
6.3	Ground wheel .....	32
6.4	Wheel sensor .....	32
6.5	DIN 9684 Signal .....	32
6.6	Radar sensor.....	33
6.7	Hoisting system sensor .....	33
6.8	Hoist system signal .....	33
6.9	Buzzer (Warning signal).....	34
6.10	Sowing shaft motor.....	34
6.11	Pressure sensor .....	34
7	Notes.....	35

## 1 Warranty

Please check machine immediately upon receiving for any damage from transport. We cannot acknowledge any claims grounded with damage from transport later on. One-year warranty From date of delivery (your bill or delivery note counts as a certificate of warranty) are warranted.

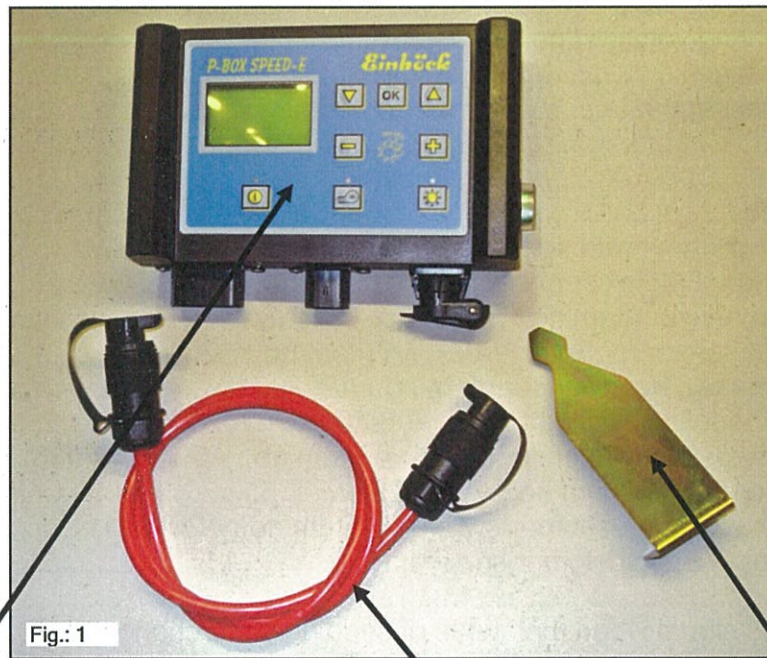
The warranty is granted in case of material or constructional errors and does not include parts that are damaged by normal or excessive use.

The warranty expires:

- when damages occur through external forces (e.g. opening the control)
- when faulty operation is at hand
- when the control module is opened
- when the stipulated requirements are not met
- when the machine is altered, augmented or equipped with other parts without our consent.

## 2 Quick start

### 2.1 Scope of delivery and fastening



Control module

Power cable

Module mount

Fasten the mount (provided as part of the standard delivery) into the cab with two screws.



**TIP:** Pay attention to the angle at which you are viewing the module to ensure optimum readability of the display. You may have to bend the mount slightly to set the correct angle.



**Attention:** If possible, do not roll the cable to a coil!

## 2.2 Electrical connections

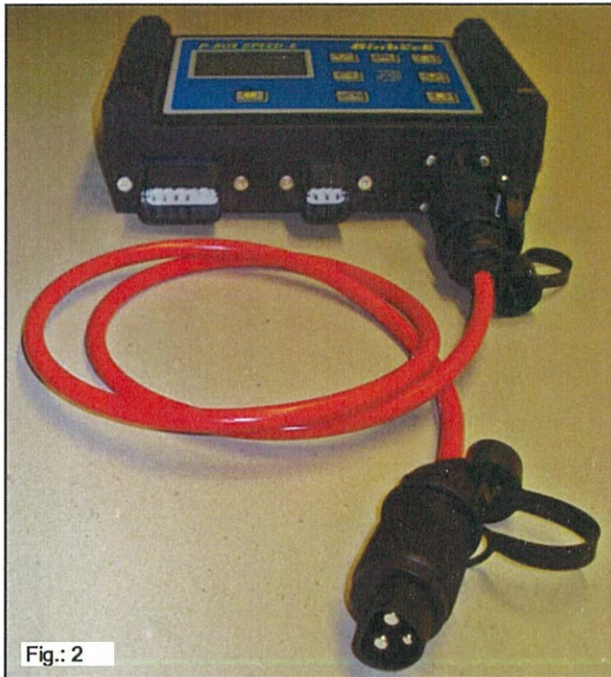


Fig.: 2

You can connect the cable, provided as part of the standard delivery, directly to the 3-pin standard socket in the tractor cab. Connect the other end to the control module.

The (30 A) fuse is on the right side of the control module.

Store excess cable in the driver's cab to avoid trapping it.



### IMPORTANT NOTES:

The 12 volt power supply must NOT be connected to the cigarette lighter!

After using of the device, the controller should be disconnected (for safety reasons).



**ATTENTION:** Failure to observe these instructions can result in damage to the control module!



**TIP:** If your tractor does not have a standard socket, it can be retrofitted with the Complete Cable Kit for Power Sockets, Tractor Retrofit (Item no. A201921) (special accessories).



**ATTENTION:** If the battery is charged by a charger which is in the "Start" operating mode, this may result in voltage peaks! These can damage the control module's electrical system if the control module is also connected when charging the battery!



Fig.: 3

30 A fuse

12-pin connector	6-pin connector	3-pin connector
Ground wheel	Connection to the sowing implement (equipment cable)	Connection to the battery (power cable)
Amphenol (for standard socket)		
Hoisting system sensor		
Wheel sensor		
Radar sensor		

More specific details of the different sensor types are provided under Accessories.

These are available to the customer as accessories upon request!

## 2.3 Control module

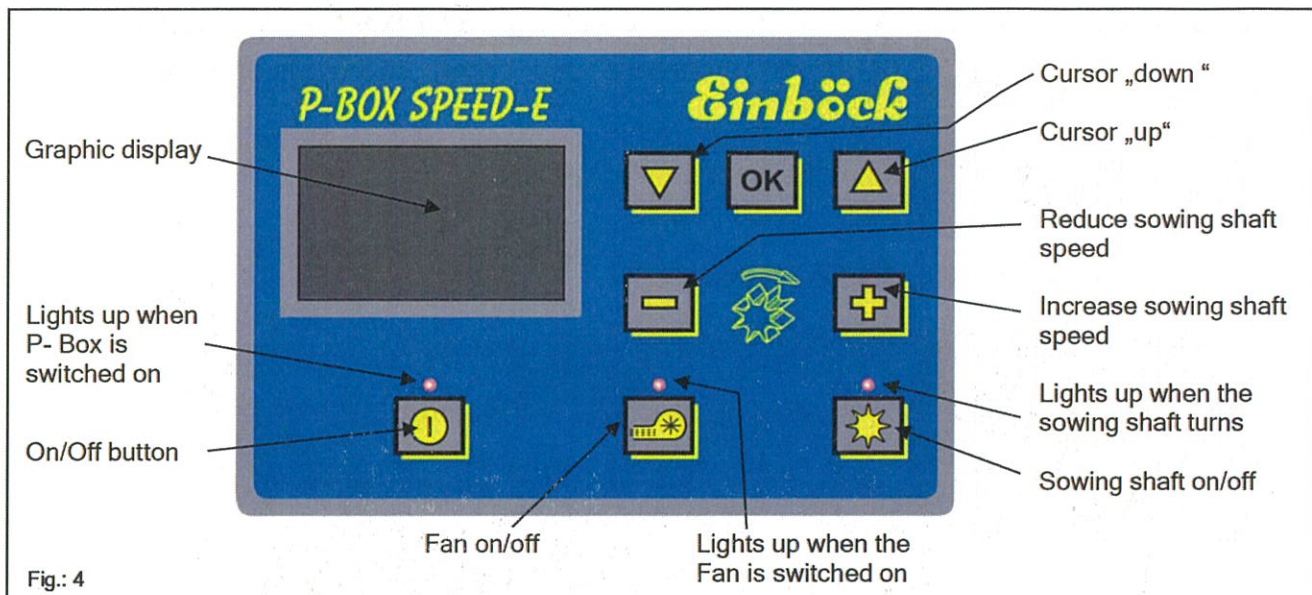
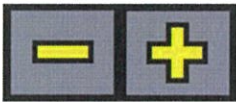


Fig.: 4



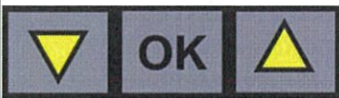
The "On/Off" button, which is used to switch the device on and off, is located at the bottom left.



The speed of the sowing shaft can be adjusted with these buttons. Altering the parameters (e.g. increase/decrease the speed, changing the language ...)



Below this is the button for the sowing shaft, "on" and "off". The sowing shaft starts to turn when the "on/off" button is pushed. The indicator light starts to light up at the same time.



On-board computer controller (e.g. surface calculation, seed rate calibration test, emptying), selection of menu items

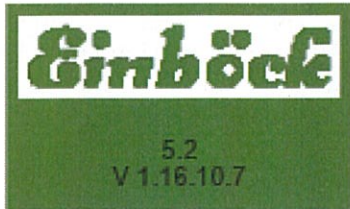


Switches the fan on or off.  
(Not with hydraulic Blower!)

-) for electric fans:

The indicator light lights up when the fan starts. The indicator light lights up if the fan runs continuously.

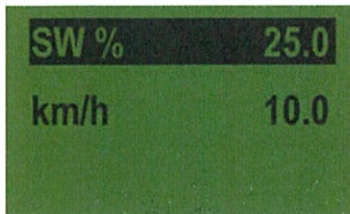
## 2.4 Main display:





**Power-up message:** This message is displayed during the switch-on procedure and shows the type and device version!

This information is very useful during servicing and is necessary for fault diagnostics!

### During operation without speed sensor

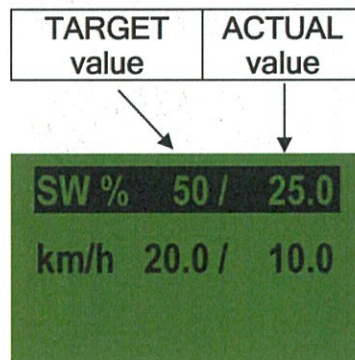




**SW %:** Set sowing shaft speed (in %)

Set by using the   buttons on the control module

**km/h:** driving speed [km/h] can be set under the “seed rate calibration test” menu item.

### During operation with speed sensor



	TARGET value	ACTUAL value
SW % (sowing shaft)	Set sowing shaft speed (in %) Set by using the   buttons on the control module.	Actual sowing shaft speed (in %). This is calculated by the sensor as a function of the driving speed and displayed on the control module.
km/h (driving speed)	This can be set under the “seed rate calibration test” menu item.	Actual driving speed in km/h. This is measured at the sensor and displayed on the control module. Main menu- Selection menu.



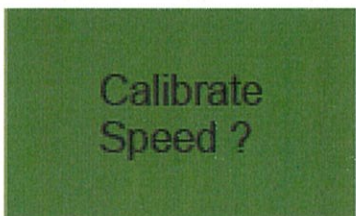
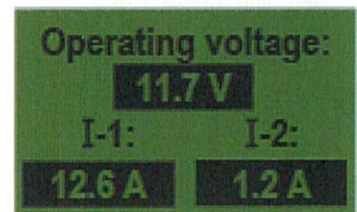
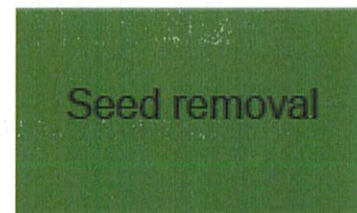
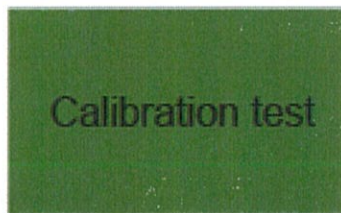
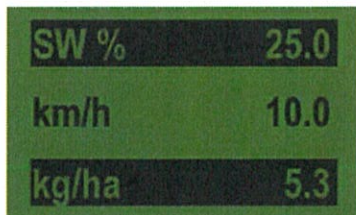
## 2.5 Selection menu

After turning on the machine you can move with the following three buttons within the menu.



In the menu, the   cursor buttons are used to move up or down one menu item at a time.

The following menu items are available:



Select a menu item that allows values to be set.

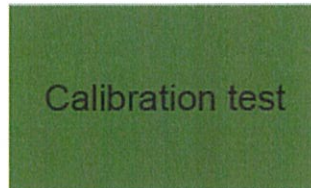
The values then can be changed using the   buttons.

## 2.6 Seed rate calibration test



**Note:** This menu item is used both to carry out a seed rate calibration test and to set the target value for sowing shaft speed, the working width and the driving speed! The input values are also used for the surface calculation (seeded area).

**Note:** The seed rate calibration test should be done while the tractor engine is running.



Go to the "seed rate calibration test" menu item and set the following value:

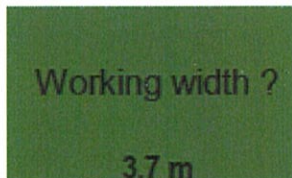


The buttons are used to move up or down through the menu items.

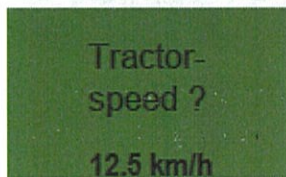


If you want to change a value use the buttons.

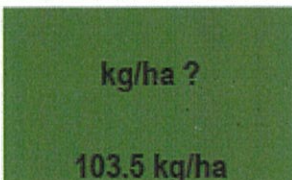
The following points must be input for the automatic seed rate calibration test:



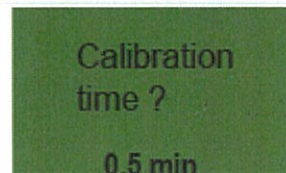
The working width must be input here.



Input the driving speed here.



Input the desired output volume here.  
(e.g. 103.5 kg/ha)



Set the duration for the seed rate calibration test here.

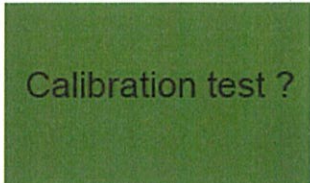


**TIP:**

- For smaller seeds, such as rape, phacelia, poppy, etc., it is best to calibrate for 2 minutes.
- The standard calibrating time is 1 minute
- For larger seeds, such as wheat, barley, peas, etc., it is best to calibrate for 0.5 minutes.

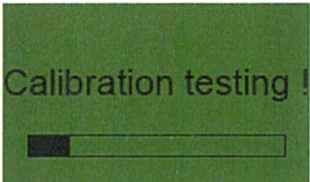


**NOTE:** Before starting the test, make sure that you have also removed the calibration cover and determine whether you will use the calibration cover or the calibration slide for testing. Make sure that you have installed the calibration sack or the vessel so that they are precisely positioned!



Calibration test ?

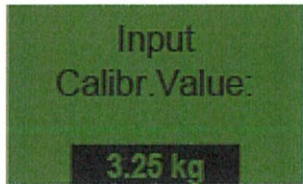
If all values are correctly set, commence the test.



Calibration testing !

Seed rate calibration test runs:


After starting, the sowing wheel starts to turn automatically without fan motor. The sowing shaft stops automatically once the set time has elapsed.



Input  
Calibr. Value:

Now weigh the calibration seed and input the value.

3.25 kg



Sample  
inaccurate!  
Repeat sampling?

This message appears if the sowing shaft speed has increased too much.

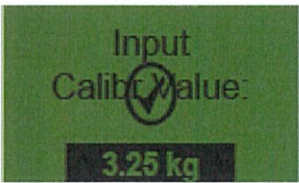
YES



**TIP:** To be able to spread the desired output volume, we recommend repeating the seed rate calibration test until the "Test not precise! Repeat?" message no longer appears.



**Note:** The "tick symbol" and the output volume in kg/ha only appear on the main display if the automatic re-adjustment of the sowing shaft is below 3% (difference).



Input  
Calibr. Value:

The sowing shaft speed now automatically calculates correctly. The display then returns to the main menu.

3.25 kg



**Note:** The seed rate calibration test can be cancelled at any time by pressing the



or the



button on the control module.



**TIP:** The test will continue if your P-Box is equipped with a level sensor and if the "Container almost empty" message appears on the display. However, insufficient seed in the container can distort the precision of the seed rate calibration test.

SW % 25.0  
km/h 10.0  
kg/ha 5.3

SW % 50 / 25.0  
km/h 20.0 / 10.0  
kg/ha 5.3

The set kg/ha values are now displayed.



The two-digit display appears if you are working with a speed sensor, for example.

Sowing shaft - manual  
23 %

This menu item is used to approximately preset the speed of the sowing shaft. Because the settings are automatically saved from the seed rate calibration test, there is no need to change the sowing shaft's speed (%).

Varying the seed rate in operation:

SW % 61 / 50.3  
km/h 10.0 / 8.3  
kg/ha +10% 13.2

Via pressing the   buttons - as soon as an accurate calibration test was made - the seed rate is increased / decreased by 5 %.

The seed rate can be increased / decreased by maximum 50%!

### 3 Advanced settings


#### 3.1 Surface area meter (seeded surface area)



Indicates the surface area (in hectares) that has been seeded.



**TIP:** Values are adjusted automatically during the seed rate calibration test. See menu item 2.6. Starts to measure the surface area to be seeded when the sowing shaft starts turning.

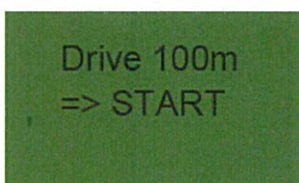
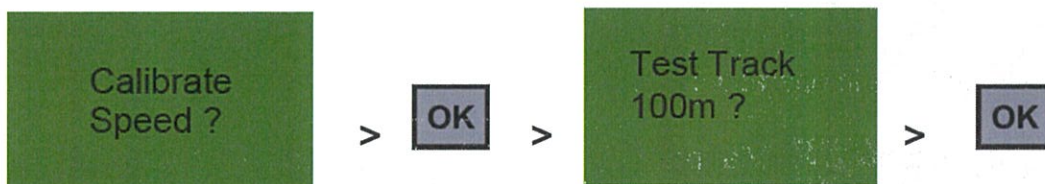
The surface area  can be reset to zero by pressing and holding the button for 5 seconds. The entire surface area cannot be set to zero.

#### 3.2 Calibrating the driving speed (tachometer)

Calibration must be carried out because the control module uses this value as a basis for all calculations (speed display, dosing, surface area calculation).

There are 3 calibration options:

##### 3.2.1 Test distance 100m

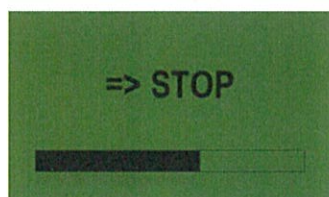


Drive exactly 100 m.



**TIP:** To simplify the test, measure a distance of exactly 100 m in advance and mark the start and end points.

Guide posts on the road are ideal for this purpose. The distance from one post to another is exactly 33.3 m. Drive a distance of 3 guide posts.



After 100 m, use the  button to stop

Speed  
calibrated !



This is displayed when calibration is complete.

### 3.2.2 Manual calibration



Manual ?

>  >

Manual ?

13 km/h 125 %

While driving, compare the speed on the display with the speed on the tractor's display.

Using the   buttons, correct the values until the two values are the same.



**TIP:** The calibration can be carried out here without having to drive the 100 m distance.

### 3.2.3 Calibration value

Calibration  
Value ?


The pulses/100 m can be set here.



**TIP:** Once the device has been calibrated, note the value and readjust the setting as necessary.

### 3.2.4 Resetting the calibration

Calibration  
reset ?

Confirm using the  button.

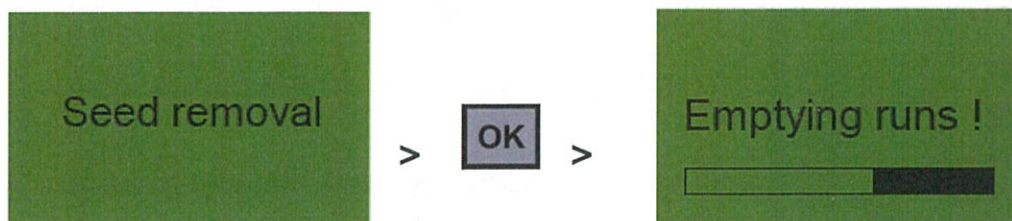
Resets the value to the factory setting.

Calibration  
reset ?

This is displayed after the resetting of the calibration.





### 3.3 Emptying

This menu item is used to empty the container (e.g. when work has ended, changing seed, when replacing the sowing shaft).



The motor turns at its highest speed (without fan).



TIP: Emptying can be stopped at any time by pressing the    buttons or the  button. The display then returns to the main menu.




TIP: Before starting the emptying, make sure that you have also removed the calibration cover and determine whether you will use the calibration cover or the calibration slide for testing. Put the collecting container exactly underneath!

### 3.4 Operating hours counter



Operating hours counter = running time of sowing shaft. Shows the total hours and the hours per day.

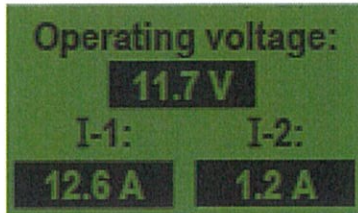


TIP: The hours per day can be reset to zero by pressing and holding the  button for 5 seconds. Total hours cannot be set to zero.

### 3.5 Operating voltage / power display

Displays the current operating voltage.

If this value begins to fluctuate significantly during operation, there are problems with the on-board electronics. This can lead to a poor scatter result!



**I-1:** Displays the fan motor's power consumption in amperes.

**I-2:** Displays the electric sowing motor's power consumption in amperes.


### 3.6 Language



Select the desired language and confirm with .



**TIP:** Proceed as follows if you want to change the language and if your P-Box is equipped with a hydraulic fan.

If the "Motor not connected! (fan)" message appears, press the  button. You then have 15 seconds in which to change the language of the menu. (However, if you immediately want to start the fan again, this message comes again.) You can then make the desired adjustments in the programming menu in your selected language.









## Control console 5.2 (language selection)




The following languages are available beginning with software version V1.22.10.7.

- German (Deutsch)
- English (English)
- French (Français)
- Dutch (Nederlands)
- Danish (Dansk)
- Polish (Polski)
- Italian (Italiano)
- Spanish (Español)
- Czech (Česky)
- Hungarian (Magyar)
- Finnish (Suomi)
- Portuguese (Português)
- Rumanian (Romana)
- Swedish (Svenska)
- Estonian (Eesti)
- Latvian (Latvijas)
- Lithuanian (Lietuvos)
- Norwegian (Norske)
- Slovenian (Slovenski)






## 4 Control messages





### 4.1 Notes

Display	Cause	Solution
 <p>Internal VCC (5V) not OK!</p>	Displayed if the internal control voltage is below a minimum value.	Return to factory.
 <p>Operating voltage low!!</p>	Displayed if the operating voltage is too low.	Minimise consumers; check battery; check cabling; check generator.
 <p>Operating voltage high!</p>	Indicates that the operating voltage is too high.	Check generator.
 <p>Hopper almost empty</p>	This message is displayed if the level sensor has not been covered by seed for more than 30 seconds.	Refill seed.
 <p>Calibration Value too high!</p>	Displayed if the pulse count is too high when calibrating.	For wheel sensors, reduce the number of magnets. For all other sensors, please contact customer service.
 <p>Calibration Value too low!</p>	Displayed if the pulse count is too high when calibrating.	For wheel sensors, add more magnets. For all other sensors, please contact customer service.

 Tractor speed too high !	Displayed if the driving speed is too high.	Compare the settings with the actual driving speed and reduce the speed.
 Tractor speed too low !	Displayed if the driving speed is too low.	Compare the settings with the actual driving speed and increase the speed.
 Switch off !	Shown during the switch-off procedure. Message disappears after a few seconds.	

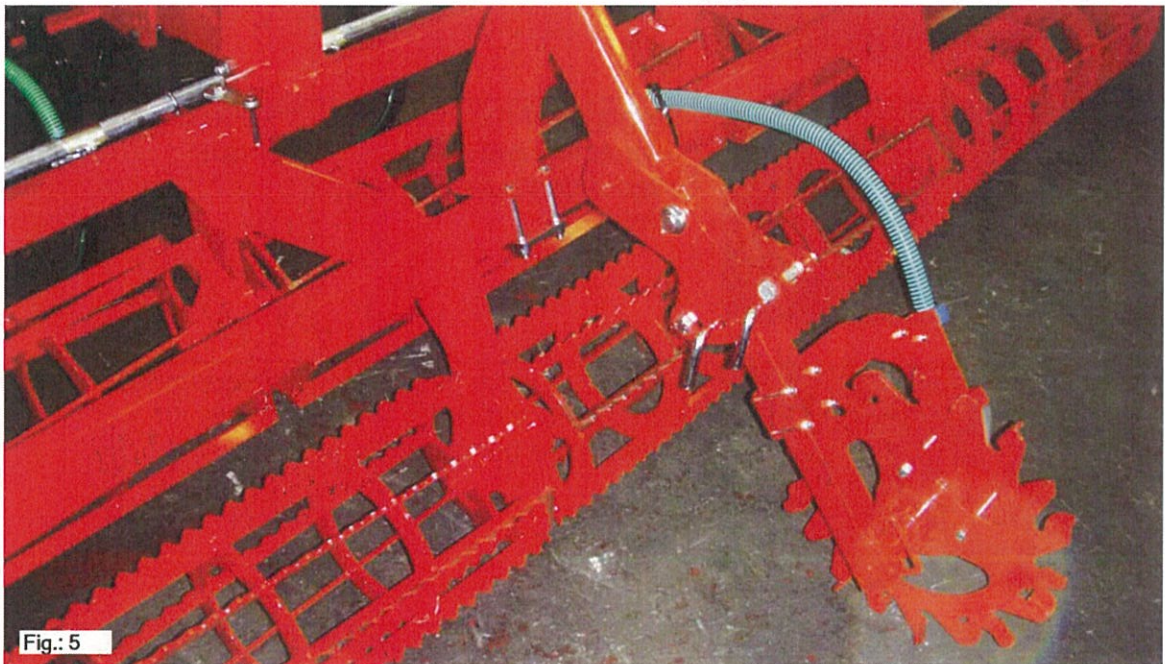
## 4.2 Faults

Display	Cause	Solution
 <b>Operating voltage not OK!</b>	Displayed if the operating voltage falls below a minimum value or if there are significant voltage fluctuations.	Check the connectors and cabling; check the battery; check the generator; switch off other consumers (e.g. working lights).
 <b>Motor overloaded (Sowing shaft)!</b>	Displayed if the sowing wheel cannot turn or if the motor is used for too long at its threshold!	If this message appears on the display, you must switch off the device and check whether solids or similar materials are preventing or impeding the sowing shaft or the mixer from turning! The mixer can be switched off for well flowing seed.
 <b>Motor overloaded (Fan)!</b>	Displayed if the motor is used for too long at its threshold!	If this message appears on the display, you must switch off the device and check whether objects are preventing or impeding the fan from turning.
 <b>Please turn on fan</b>	If you have not switched on the hydraulic fan, the pressure sensor will not be actuated in the air current and this status message appears!	Switch on the hydraulic fan and wait until the LED lights up. The sowing shaft can then be switched on. If there is no pressure sensor installed, see <a href="#">Pressure sensor</a> under item 6.11.
 <b>Motor not connected (Sowing shaft)!</b>	Displayed if cables are not connected or if cabling is faulty.	Check the cabling and connectors!

 <p>Motor not connected (Fan)!</p>	<p>Displayed if cables are not connected or if cabling is faulty.</p>	<p>Check the cabling and connectors!</p>
 <p>No motor rotation speed (Sowing shaft)!</p>	<p>Displayed if the motor is connected and not overloaded but does not turn.</p>	<p>Please contact customer service.</p>
 <p>No motor rotation speed (Fan)!</p>	<p>Displayed if the motor is connected and not overloaded but does not turn.</p>	<p>Please contact customer service.</p>
 <p>Ground wheel not OK!</p>	<p>This is displayed when the control module does not receive a signal from the speed sensor!</p>	<p>Check the cable and the connectors! If the ground wheel does not have a defect for which the source is a malfunction, contact customer service.</p>

## 5 Accessories

### 5.1 Ground wheel with sensor (item no.: 3440-4104)



<b><u>Connection</u></b>	12-pin connector on control module
<b><u>Calibration:</u></b>	See under <a href="#">item 6.4</a>
<b><u>Scope of delivery:</u></b>	1 ground wheel, 1 ground wheel mounting plate

A sensor mounted on the ground wheel measures the driving speed [km/h]. This is displayed on the control module and the seed volume is automatically regulated by the sowing shaft speed control. This ensures that the required seed volume per hectare is always kept constant regardless of the tractor speed. All procedures such as control and checking are provided for the user during the work process by the control module.

Even when making turns, you do not need to manually operate the control module. This is automatically detected by the ground wheel when lifting or lowering the tillage implement.



**Note:** The ground wheel's scope of delivery also includes an installation kit (see figure above) that allows it to be easily fit to a range of tillage implements.

## 5.2 Amphenol Molex sensor (item no.: A202027)



Fig.: 6

<u>Connection</u>	12 pin plug on the control console
<u>Settings</u>	See under <a href="#">item 6.5</a>
<u>Scope of delivery:</u>	1 sensor cable (Amphenol)



Fig.: 7

A connection from the tractor to the control module can be made using the 7-pin cable. Three signals pass through this cable from the tractor to the control module (DIN 9684 standard). This transmits the actual driving speed [km/h] and the hoisting system signal from the tractor to the control module. This is displayed on the control module and the seed volume is automatically regulated by the sowing shaft speed control.

This ensures that the required sowing volume per hectare is always kept constant regardless of the speed of the tractor.

All processes such as control and checking are provided to the user during the work process by the control module.

Because of the hoisting system signal, you do not need to manually operate the control module, even when making turns.

On some tractors, the hoisting system signal is inverted. If there is a need to reverse the hoisting system signal (method of operation) for another use, this is explained more precisely under [item 6.7](#).

### 5.3 Radar sensor (item no.: A00410-2-084)

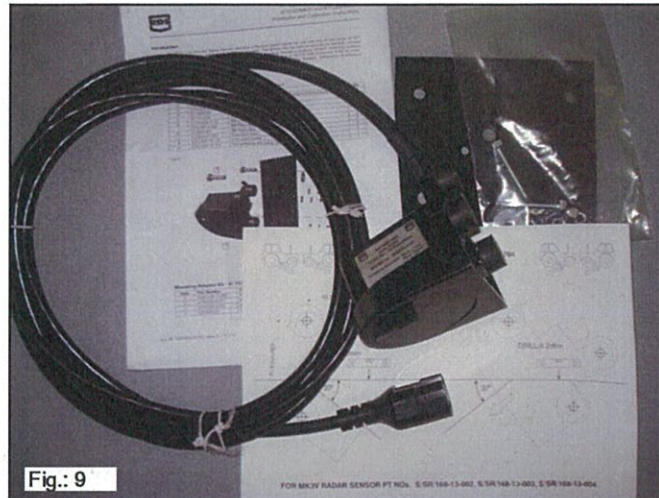


Fig.: 9

- Connection** 12 pin plug on the control module
- Scope of delivery:** 1 radar sensor, 1 installation plate incl. fastening material
- Settings:** see [item 6.6](#)
- Where installed:** Should be between the wheels. See figures below for positioning (35° in the direction of travel opposite).

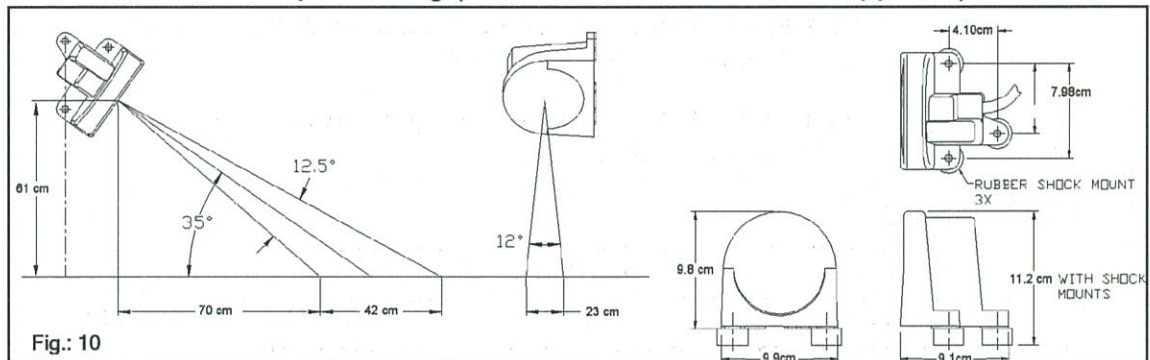


Fig.: 10

- Installation:** To fasten the radar sensor, please use the screw/bolts, nuts and the mounting plate provided in the scope of delivery.

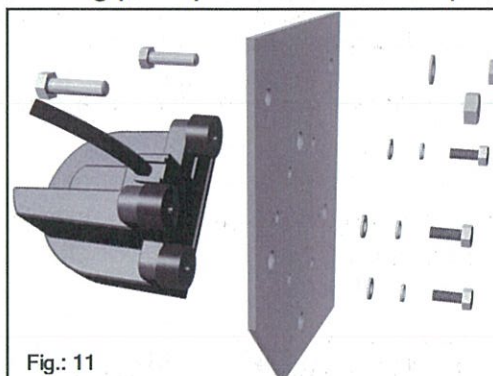


Fig.: 11

The radar sensor works on almost all surfaces (e.g. earth, sand, asphalt, etc.). The radar sensor's detection can become imprecise in the event of snow or thick layers of ice or if the on-board voltage falls below 9 V.



#### 5.4 Wheel sensor (potential-free) MX (item no.: A201970)



Fig.: 12

**Connection** 12-pin connector on the control module

**Settings** See under [item 6.4](#)

**Where installed:** The magnet is mounted on the inner side of the wheel rim. The sensor must be attached in a distance of a min. of 5 mm to max. of 30 mm from the magnets.

**Scope of delivery** 1 sensor, 8 neodymium magnets (very strong), cable binders, 2 PVC nuts for the sensor

#### Number of magnets

	Wheel diameter in mm			
km/h	200	500	1500	2000
5	1 magnet	2 magnets	6 magnets	8 magnets
15	1 magnet	1 magnet	4 magnets	6 magnets
30	1 magnet	1 magnet	2 magnets	4 magnets



**Tip:** To align the 6 magnets optimally, it is best to use a circle (e.g. string) to make a uniform hexagon.



**Attention:** Keep the neodymium magnet away from the heart. This can affect the function of cardiac pacemakers!!



**Note:** The sensor must not be over-tensioned. Screws/bolts must not be used to fasten the magnets. The strong magnetic force holds the magnet to steel wheel rims.



**Note:** To prevent possible damage to the cable, lay it so as to avoid any damage (e.g. caused by the wheel).

### 5.5 MX chassis hoist sensor (item no.: A201971)

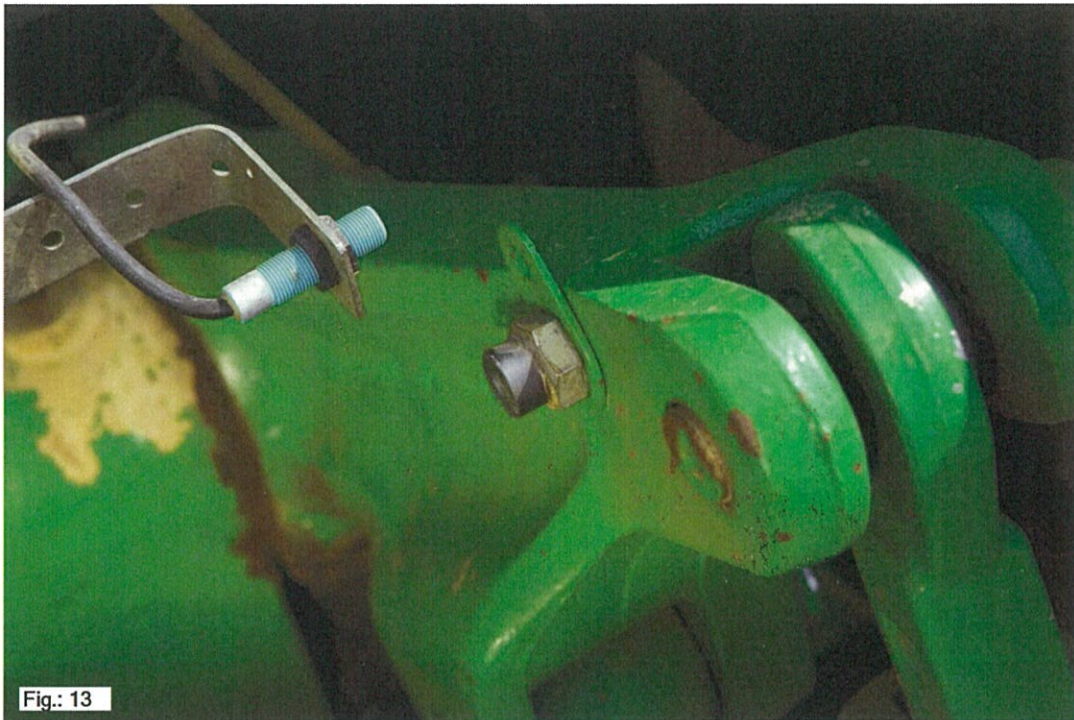


Fig.: 13

**Connection:** 12-pin connector on the control module

**Calibration:** See under [item 6.7](#)

Thanks to this sensor, the sowing shaft of the P-Box can automatically unlock and stop when the working tool is being raised or lowered.

**Where installed:** Because most tillage implements are raised and lowered when being used, it is best to install the sensor at, or on, the tractor's lever arm (see figure above).  
The sensor can also be installed elsewhere where there is a mechanical movement of more than 50 mm. There should be a distance of at least approx. 5 mm between the sensor and the magnet.  
For coupled tillage implements, the sensor can be installed on the chassis because the hoist is not being used here. The programming (for the position in which work is to be carried out) can be adjusted for this.  
This is explained in [item 6.7](#).

**Scope of delivery** 1 sensor, 2 magnets incl. screws/bolts, cable binders, 1 fastening plate, 2 PVC nuts for the sensor.



**Note:** The sensor must not be over-tensioned.

## 5.6 MX upper linkage hoist sensor (item no.: A202424)



Fig.: 14

**Connection** 12-pin connector on the control module

**Calibration:** See under [item 6.7](#)

Thanks to this sensor, the sowing shaft of the P-Box can automatically unlock and stop when the working tool is being raised or lowered.

**Where installed:** Because most tillage implements are raised and lowered when being used, it is best to install the sensor on the tillage implement's three point. The sensor can also be installed elsewhere where there is mechanical movement. For coupled tillage implements, the sensor can be installed on the chassis because the hoist is not being used here. The programming (for the position in which work is to be carried out) can be adjusted for this. This is explained in [item 6.7](#).



Fig.: 15

**Scope of delivery:** 1 sensor,  
1 fastening plate incl. screws/bolts

### 5.7 MX chassis hoist sensor inductive (item no.: A00410-2-085)



**Connection:** 12-pin connector on the control module, 12 m cable

**Calibration:** See under [item 6.7](#)

Thanks to this sensor, the sowing shaft of the P-Box can automatically unlock and stop when the working toll is being raised or lowered.

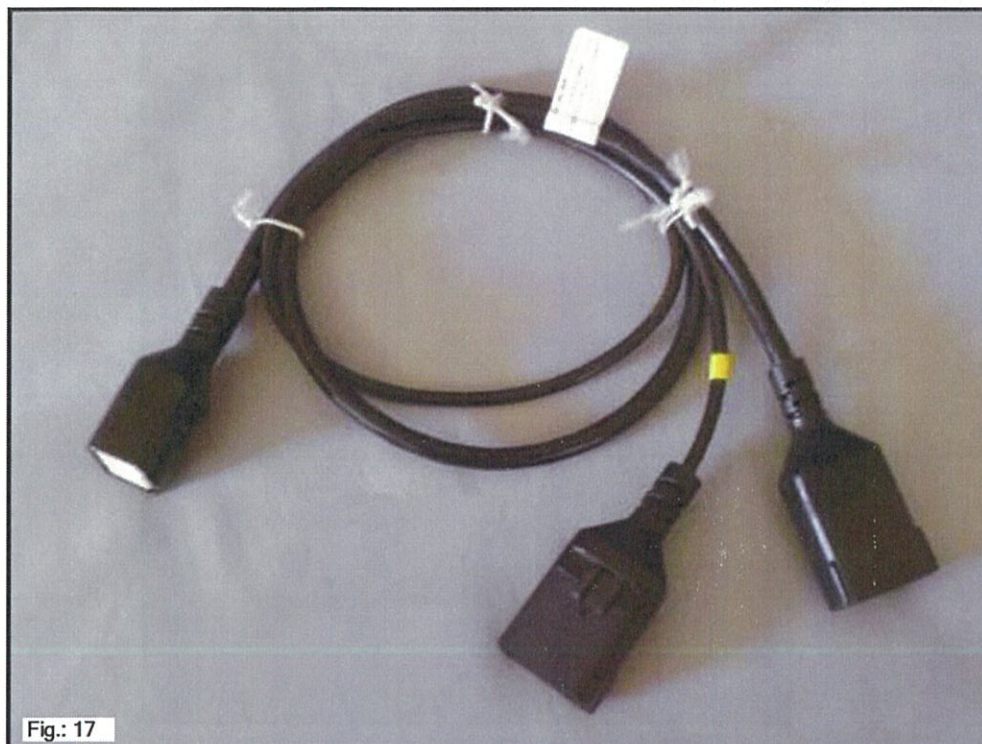
**Where installed:** The sensor can be installed elsewhere where there is a mechanical movement of more than 50 mm when turning at the head land. The switching distance between sensor and metal (ideal would be a screw head or nut) is 4 mm. Due to the LED at the rear of the sensor the function can be checked. For coupled tillage implements, the sensor can be installed on the chassis because the hoist is not being used here. The programming (for the position in which work is to be carried out) can be adjusted for this. This is explained in [item 6.7](#).

**Scope of delivery** 1 sensor, cable binders, 1 fastening plate, 2 stainless steel nuts for the sensor.



**Note:** The switching distance may vary for different materials!

## 5.8 Sensor splitter (item no.: A202029)

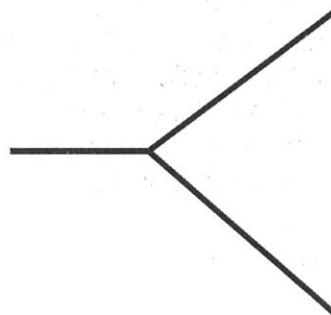


**Connection** 12-pin connector on the control module

**Function** This is required when working with 2 sensors (e.g. the wheel sensor and the hoist sensor).

### Connection diagram:

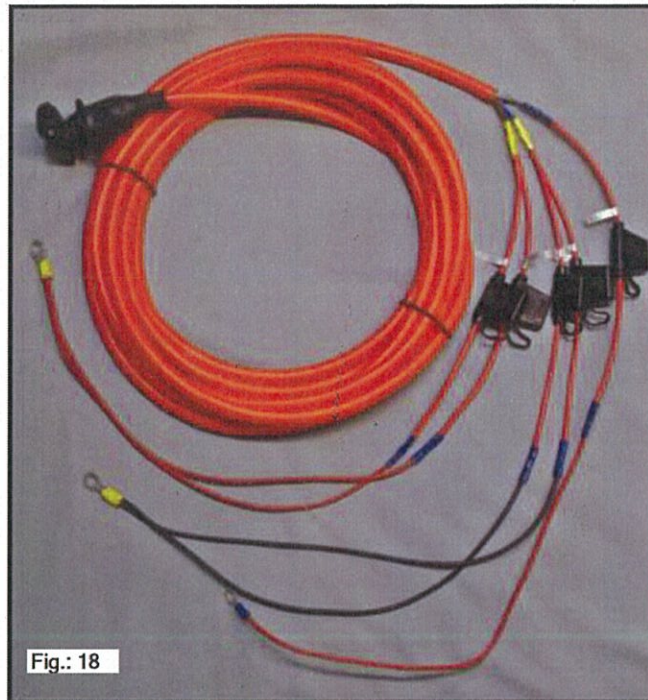
12 pin plug for  
the control module



If 2 cables are connected to the connector, this multi-pin connector is specified for the speed sensors.

If 2 cables are connected to the connectors, the 2-pin connector (with the yellow shrink tubing) is specified for the hoist sensor.

### 5.9 Complete cable set for power plug (item no.: A201921), Tractor retrofitting



There is a retrofit kit as an accessory for the control module power supply equipped without the standard 3-pin socket on the tractor. This is a 8 m long cable.

At the battery, this is screwed right to the battery terminals, a standard three-pin socket is mounted at the other end.

#### Connection diagram:



Red (2.5 mm <sup>2</sup> cable)	=	+ 12 volt
Red (2.5 mm <sup>2</sup> cable)	=	+ 12 volt
Black (2.5 mm <sup>2</sup> cable)	=	earth

## 6 Programming 5.2 (customer service)

To call up the programming menu, the following buttons (see figure) must be held pressed at the same time until the customer service menu appears.



Fig.: 19

  - Browse through programming menu

  - Modify parameters

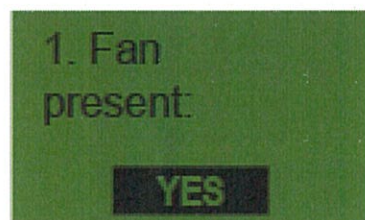
 - Ends programming



**Note:** If set to **AUTO**, the module automatically detects which sensor is connected and sending signals.

### 6.1 Fan

This menu item is necessary if, instead of an electric fan, a hydraulically or PTO shaft driven fan is installed. For example, the P-Box (up to 6 m working width) can be retrofitted from an electric to a hydraulic blower, or the P-Box for 9 or 12 m working width has a PTO shaft driven fan as standard equipment.



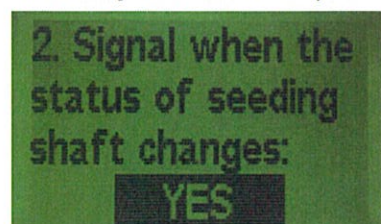
**YES** - an electric fan is installed.

**NO** - a hydraulic or mechanical fan is installed.

Use the   buttons to select.

### 6.2 Sound signal when the status of seeding shaft changes

Once a hoist sensor sets the seeding shaft inactive (light flashes), a short beep is emitted. This also applies if the sensor sets the seeding shaft active again. An acoustic signal is also emitted when the seed shaft changes status (even if you manually turn on or off).



Using the   buttons, select

**YES** or **NO**.

### 6.3 Ground wheel

In this menu item, you can select whether to work with or without a ground wheel.  
**Attention:** Out of operation, therefore select always NO!

3. Ground wheel  
present:

**AUTO**

Use the   buttons to select.

### 6.4 Wheel sensor

Here you can select whether or not to work with the speed sensor on the tractor or on the ground wheel.

4. Speed sensor  
on Tractor wheel  
present:

**AUTO**

Using the   buttons, select

YES/NO/AUTO.

### 6.5 DIN 9684 Signal

Here you can select whether or not to work with the signals from the tractor.

3 different signals are available:

- Hoisting system signal
- Theoretical speed (from the transmission)
- Actual speed (from radar sensor on the tractor, wheel sensor, or inductive sensor)



**TIP:** The control module uses the same signal used by the tractor (usually radar sensor - if installed!!!)

Here you can set whether or not the tractor has an actual speed signal from the 7-pole signal socket (DIN 9684).

5. DIN-Signal  
"actual speed"  
present:

**AUTO**

Using the   buttons, select



YES/NO/AUTO.



Here you set whether or not a theoretical speed signal is available.

6. DIN-Signal  
"theoretical speed"  
present:

AUTO



Using the   buttons, select  
YES/NO/AUTO.

### 6.6 Radar sensor

Here you can select whether to work with or without radar sensor.

7. Radar sensor  
present:

AUTO



Using the   buttons, select  
YES/NO/AUTO.

### 6.7 Hoisting system sensor

If the device has to be operated with the hoisting system signal from the tractor or from a hoisting system sensor, this must be adjusted here.

8. Lifting unit  
present:

AUTO



Using the   buttons, select  
YES/NO/AUTO.

### 6.8 Hoist system signal

If working with the hoisting system signal from the tractor or the hoisting system sensor, the position of the hoisting system sensor can be set here. The position of the sensor can be inverted here and adjusted to the data.

9. Signal level  
"Lifting unit in  
operating position":

LO

Using the   buttons, select  
HI or LO.





**Note:** If your P-Box is sowing from the incorrect hoist position, for example, the position can be adjusted here.

### 6.9 Buzzer (Warning signal)

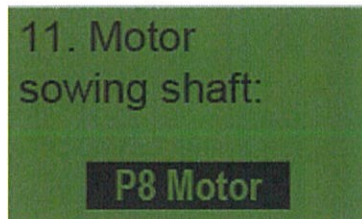
This menu item can be used to set whether or not to work with an audible buzzer (e.g. warning signal in the case of fault messages).



Using the   buttons, select  
ON or OFF.

### 6.10 Sowing shaft motor

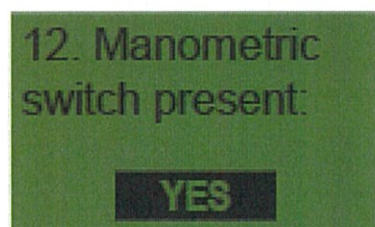
The motor to be controlled is selected here.





Using the   buttons, select the following  
P8 Motor.

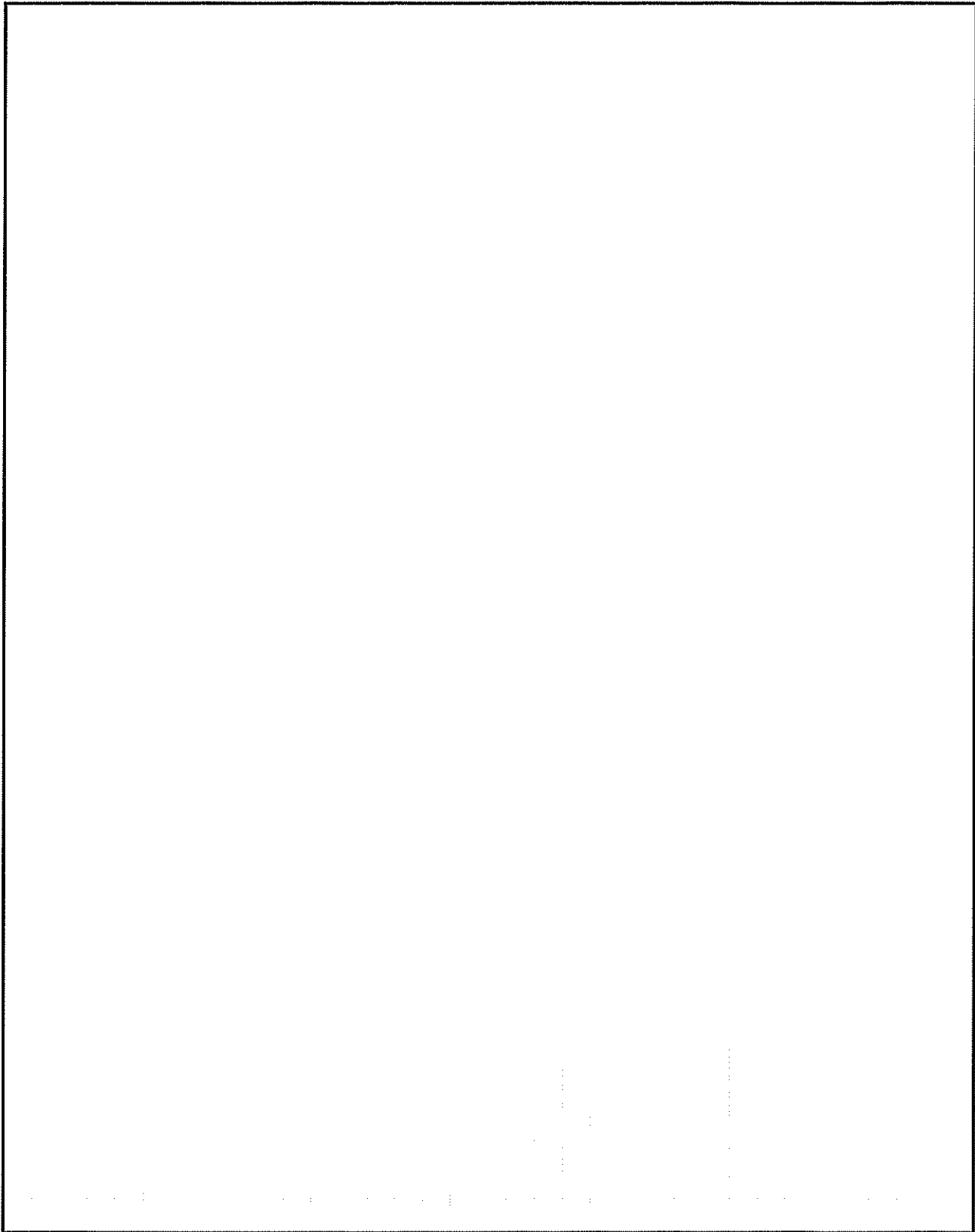
### 6.11 Pressure sensor

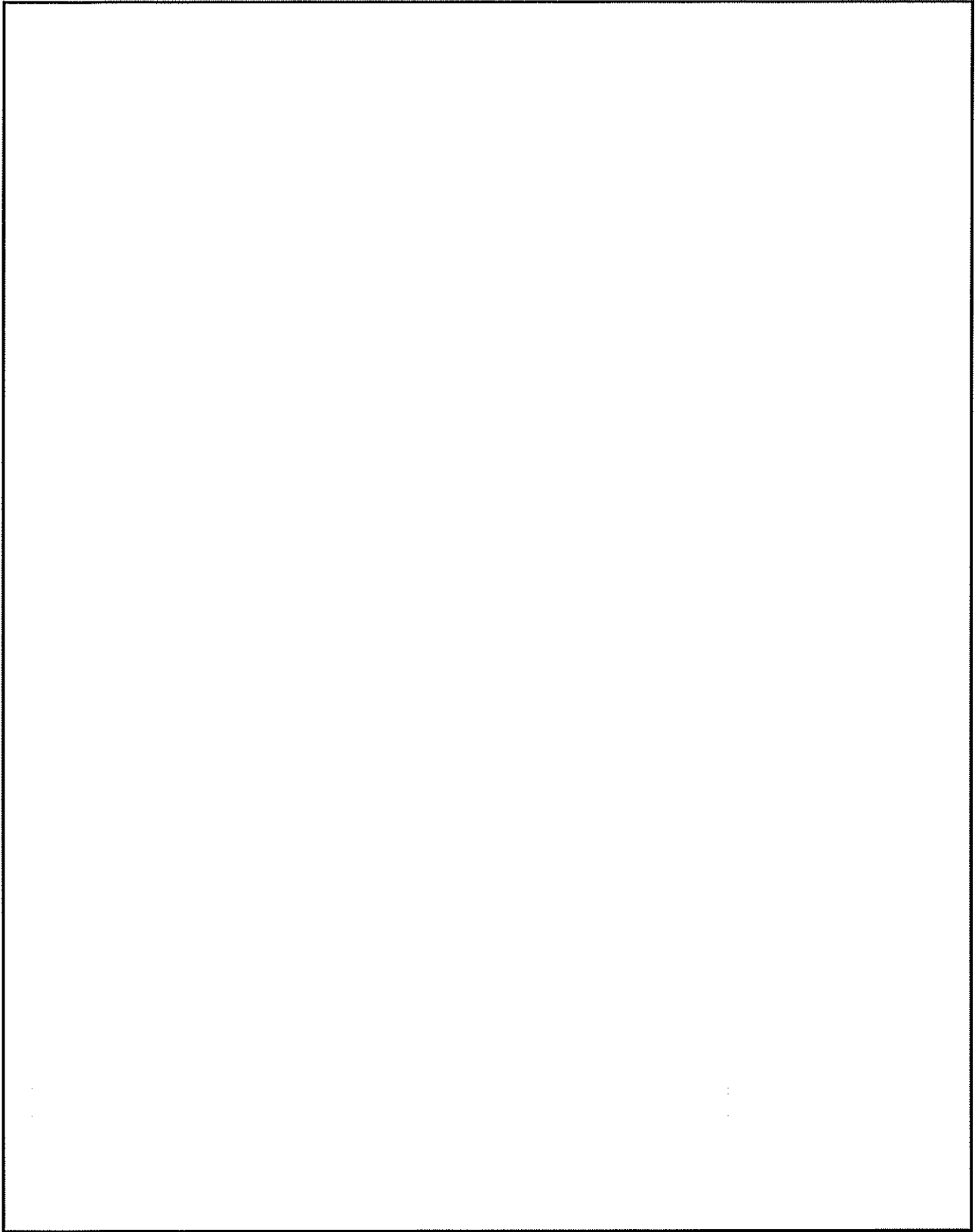
Whether your P-Box has a pressure sensor (optional) (measures the air current from the mechanical or hydraulic fan) is set here.



Using the   buttons, select  
YES or NO.

# 7 Notes







**Tillage  
makes the joy**

The logo for Einböck, featuring the word "Einböck" in a bold, yellow, cursive-style font, set against a solid blue rectangular background.

**Einböck**

Einböck GmbH & CoKG  
Schatzdorf 7  
A-4751 Dorf an der Pram

Tel.: +43 (0) 7764 - 6466 0  
Fax.: +43 (0) 7764 - 6466 385

[www.einboeck.at](http://www.einboeck.at)  
[info@einboeck.at](mailto:info@einboeck.at)