

# CT-2412

## MANUAL

Please read carefully prior to operation



MAQUINARIA AGRÍCOLA



ISO 9001

BUREAU VERITAS  
Certification

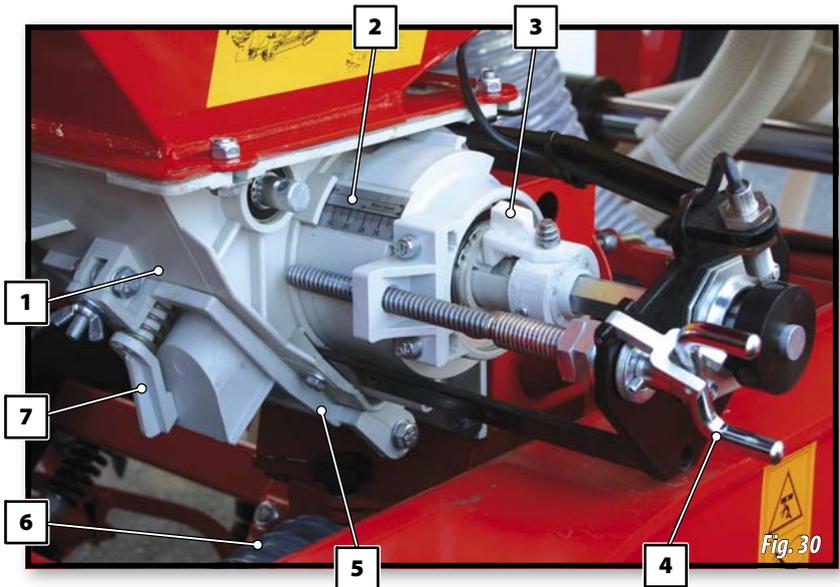


1ª Edición - A UfaTW 2013  
Ref.: CN-811076194  
Created by: SOLÀ

## 6. DOSAGE

There are two ways of dosing:

- for **REGULAR SEEDS**.
- for **FINE SEEDS** with minimum flow rate.



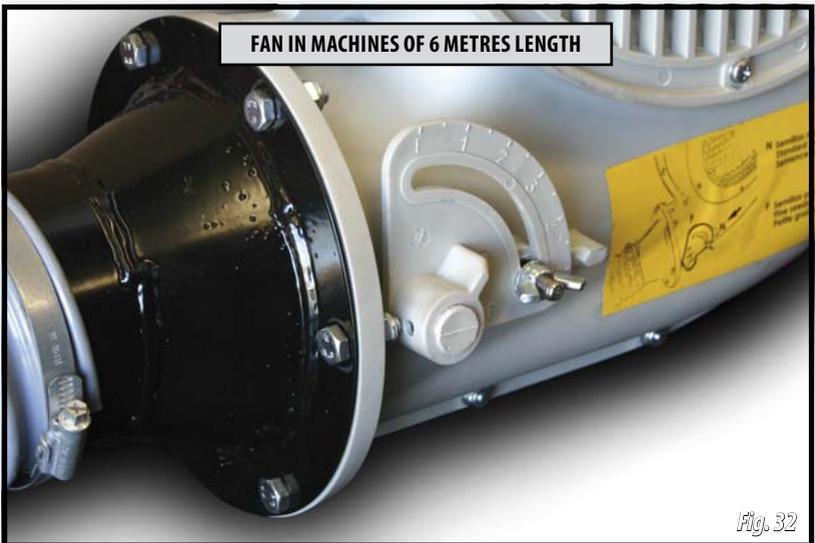
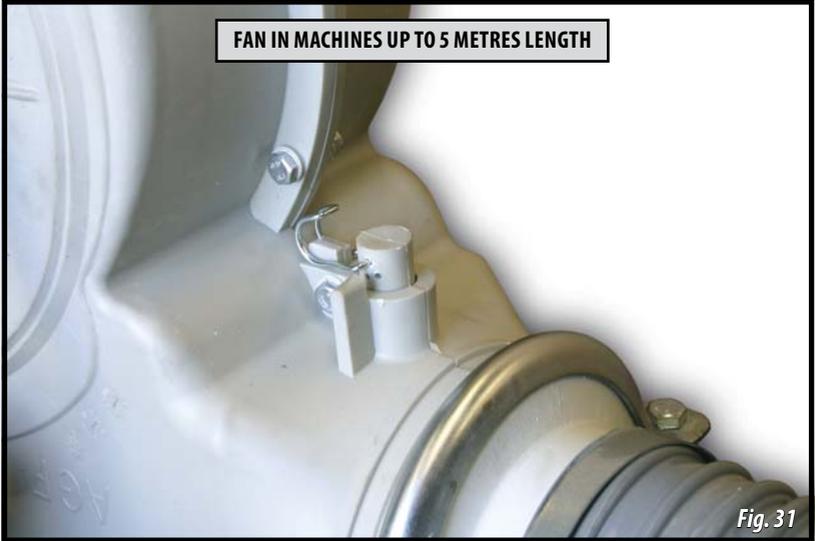
1	Seed distributor
2	Dosing adjusting scale
3	Bolt N = regular seed F = fine or small seed
4	Spindle
5	Trap-door to empty the hopper and the seed distributor.

6	Venturi injector sluice
7	Quick emptying trap-door
8*	Clip pin of the air outlet to fan* N = regular seed F = fine or small seed

\*(see next page)



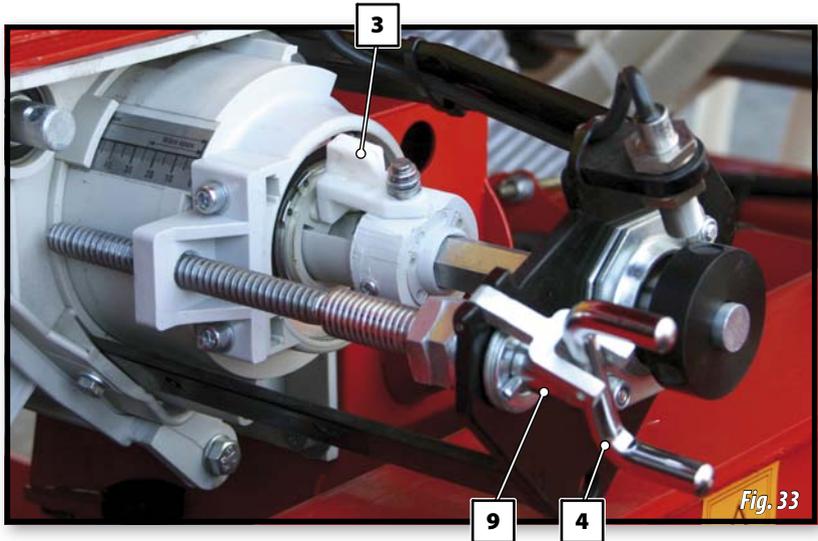
WHEN CHANGING THE BOLT'S POSITION (3) IT IS ESSENTIAL THAT THE SPINDLE (4) CAN TURN FREELY AND THE HOPPER IS EMPTY.



## 6.1 REGULAR SEEDS (position N)

When sowing using REGULAR SEEDS, proceed as following:

- 1- Remove the safety fork (9, fig. 33)
- 2- Keep the bolt (3, fig. 33) in the position as indicated in the figure.
- 3- Turn the spindle (4, fig. 33) to adjust dosing.

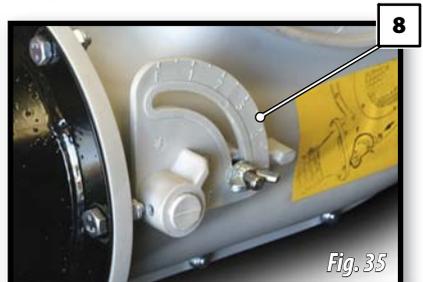


- 4- Place the clip pin of the air outlet to fan (8, fig. 34-35) at position N.

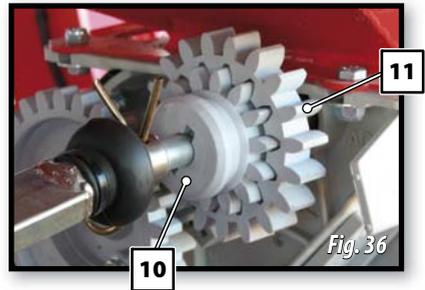
**Fan in machines up to 5 metres length.**



**Fan in machines of 6 metres length.**



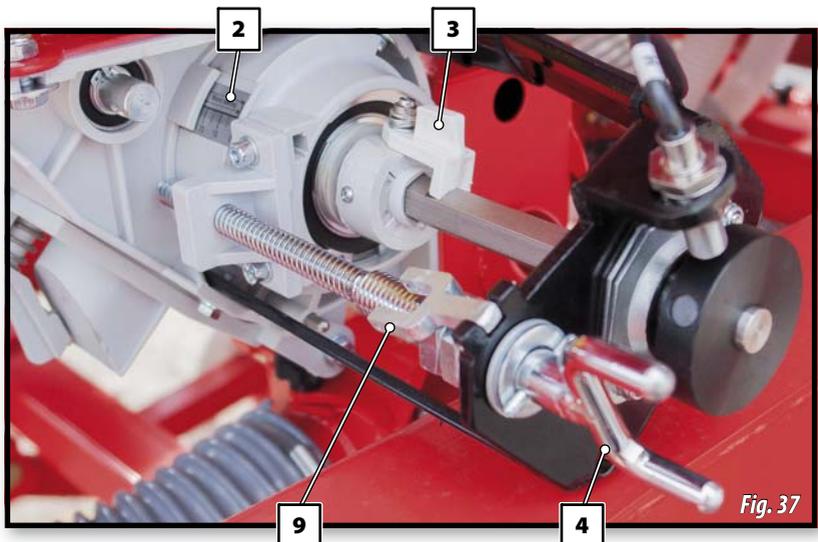
- 5- Pinion gear n°10 must be fit into pinion gear n°11, as shown in figure 36.



## 6.2 FINE SEEDS (microdosing – Position F)

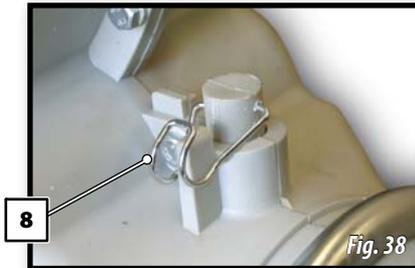
When sowing using FINE SEEDS, proceed as following:

- 1- Remove the safety fork (9, fig. 37).
- 2- Turn the spindle (4, fig. 37) to position 0 on the scale (2, fig. 37).
- 3- Turn the bolt (3, fig. 37) until it is inserted into axle slot, like to the picture.

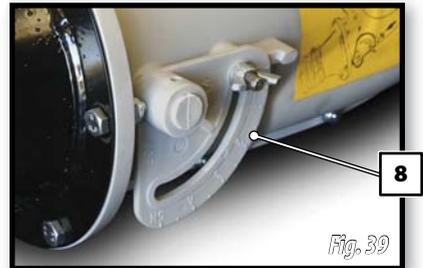


- 4- Place the clip pin of the air outlet to fan (8, fig. 38-39) at **position F** (fine seed).

**Fan in machines up to 5 metres length.**



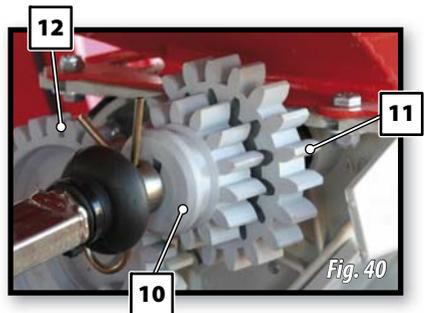
**Fan in machines of 6 metres length.**



- 5- Turn the spindle (4, fig. 37) to adjust dosing between 0 and 25.

- 6- Pull the pinion gear n°10 until it **is released** from the pinion gear n°11 and fit it into pinion gear n°12 (fig. 40).

- 7- Once the seed distributor is set in position F (microdosing), the **ELECTRONICAL CONTROLLER** needs to be configured (see page 54, working in micro mode).



The aim of microdosing is to better distribute both fine and regular seeds in small numbers.



The correct value for using microdosing F-system in fine seeds can be found in the dosing tables (see section 12 - DOSAGE TABLES).



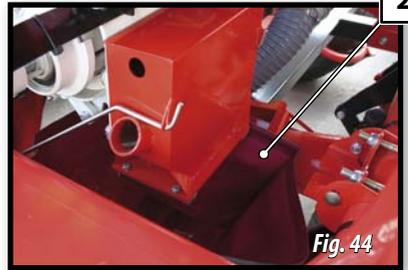
CHECK THE CLEANING BRUSH IS IN GOOD CONDITION BEFORE BEGINNING TO SOW FINE SEEDS.



WHEN MICRODOSING FINE SEEDS, DO NOT EXCEED NUMBER 25 IN ADJUSTING SCALE (2, FIG.37) .



- 4- Place the provided sack (2,fig. 44) or a container under the exit of the venturi injector sluice.



- 5- Next, place the crank (fig.45) in the drive wheel of the seed drill.

Turn it clockwise as many times as indicated below depending of the type of machine.



TYPE OF MACHINE	WHEEL
6 meters	32,4 Turns
7 meters	27,8 Turns
8 meters	25,2 Turns
9 meters	22,4 Turns

- 6- Accurately weigh the collected seeds.
- 7- At a selected opening, you can obtain the kilograms per hectare distributed by the machine, by MULTIPLYING the weight by 40.



You must turn the wheel uniformly using the crank at approximately ONE REVOLUTION PER SECOND.



The number of wheel turns to be performed depends on the land's characteristics, tyre manufacturer and tyre pressure. Therefore it is highly recommended to perform a field test as described in section 6.4 - Test to determine the number of wheel turns.



If seeds show excess treatment powder, flow can be reduced, consequently a second control is recommended after sowing approximately three hoppers.

## 6.4 COMPLEMENTARY CHECKING TESTS

### 6.4.1- Test to determine the number of wheel turns.



If differences exist between the test and the actual dose distribution (due to a very uneven or light soil, low pressurised tyres, etc.), an experimental test can be performed.

- 1- First of all, the distance (in metres) as shown in the table below should be marked on the field's ground using a tape measure.

<i>WORKING WIDTH / ROWS</i>	<i>METRES TO COVER</i>
6 meters	41,7 meters
7 meters	35,7 meters
8 meters	31,3 meters
9 meters	27,7 meters



- 2- By means of a mark made previously on the tyre, count the number of turns performed in the covered distance.
- 3- Next, the seed drill in working position should cover that distance.  
By following these steps we can obtain the actual number of turns performed in the seed dosing test.  
By performing the test using this obtained number of turns, we know the actual kilograms per hectare that will be distributed by the machine.

#### 6.4.2- Seed dosing adjustments.

When using high quality certified seeds it is not enough to know the weight in kilograms distributed by the machine, as the final result of the harvest will depend on the number of plants which eventually ripen.

Every plant requires a certain amount of land from which nutrients will be absorbed. Therefore, both a low or an excessive plant density can be detrimental. To determine how many kilograms per hectare are to be sown, you should know the number of plants per square metre that are going to be planted.

As a guidance, the recommended number of plants per square metre when sowing wheat or barley in un-irrigated land can be found in following table:

AUTUMN	SPRING
<i>Premature sowing, 200 plants per m<sup>2</sup></i>	<i>Premature sowing, 310 plants per m<sup>2</sup></i>
<i>Late sowing: 265 plants per m<sup>2</sup></i>	<i>Late sowing: 445 plants per m<sup>2</sup></i>

Please note that in spring there is less tillering so more seeds should be sown.



**MAQUINARIA AGRÍCOLA SOLA, S.L.**, RECOMMENDS THAT THE FARMER SEEKS PROFESSIONAL ADVICE ABOUT THIS SUBJECT FROM A TECHNICAL SOWING CENTRE.

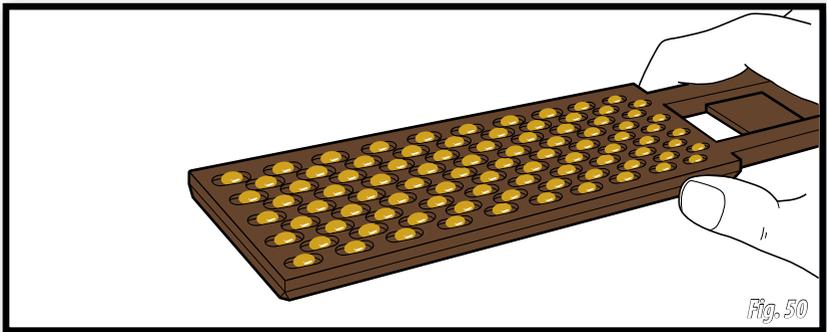


SEED DOSING SHOULD BE ADJUSTED TO EACH TERRAIN, DEPENDING ON THE: TEXTURE, FERTILIZING LEVEL, PLUVIOMETER RESULTS AND SOWING SEASON, GRAIN QUALITY, GERMINATING AND TILLERING POWER, ETC.

It should be taken into account that a seed's germinating power is variable and dependant on multiple factors. It can be experimentally calculated to be between 70% and 80%, which is practically equivalent to multiplying the number of grains to be sown by 1,43 or 1,25 respectively.

Next, we describe a practical method to determine the number of kilos per hectare to be distributed once we know how many plants per square metre we want to obtain.

- 1- Insert the “seed counter” (fig. 50) into the seed sack to fill it.
- 2- When taking the “seed counter” out, wipe the seed counter with your hand to make sure that there is only one grain per slot (100 grains in total).



- 3- Do the same 10 more times to obtain 1000 grains.
- 4- Weigh these 1000 grains with the precision scales.

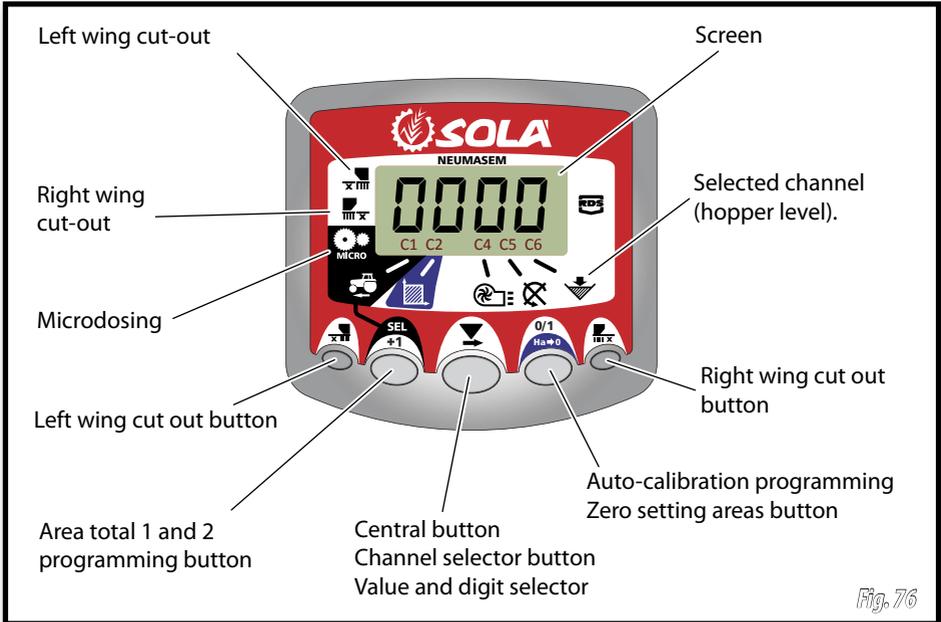
We call the result the OPERATIVE WEIGHT (gr.).

Once we know how many seeds per square metre we are going to sow, we should adjust the following kilograms per hectare in the dosing control:

$$\text{kilograms per hectare} = (\text{grains per m}^2 \times \text{OPERATIVE WEIGHT}) / 100$$

# 10. ELECTRONICAL CONTROLLER

## 10.1 FRONT PANEL DESCRIPTION.



The monitor provided comes programmed especially for your model of seed drill. The user will only need to observe the displayed values and no extra programming is required.

The monitor shows 6 different channels or readings, as well as 3 different arrows showing the states.

**C1** shows forward speed in m/sec.

**C2** shows two different hectares (for example on partial and one total hectare).

**C3** not in use.

**C4** shows the fan's rpm.

**C5** shows the turning speed of the distributor's axle's in rpm.

**C6** shows if the hopper's seed level is too low.

By default the forward movement speed is displayed on the monitor. When some abnormal readings are shown, the screen will display “**Alarm**” intermittently, the alarm will sound and the corresponding malfunction channel will be activated. The alarm will not stop until the malfunction is fixed.

To display a desired reading, press the central button and scroll to the required channel. After 10 seconds, the reading will change back to C1 again.

## 10.2 FORWARD SPEED – C1

Select a channel by using the central button. The alarm is activated when the speed is under 2.6 km/h and can be turned off using programming mode 2.

### Calibrating the speed sensor

Theoretical calibration is achieved by entering a calibration factor in programming mode 2, as indicated in the following table.

MODEL	4M	4.5M	5M	6M
CALIBRATION FACTOR				

### Selecting speed channel (C1)

1. Press  to switch to mode 1. While holding the button, press the central button  to modify the digit.
2. Hold the central button for some seconds to modify the flickering digit.
3. When the buttons are released, the monitor will return to its normal state.

**PLEASE NOTE**

THE IMPULSE NUMBER AUTO-CALIBRATION MODE IS MORE ACCURATE AND A FIELD TEST PERFORMANCE IS REQUIRED.

**Auto-calibrating the speed sensor**

1. Mark 100 metres.

2. Select channel 1 (speed)

3. Press  and hold it while pressing . The screen will display "Auto". Release it.

4. Cover the 100 marked metres. The monitor will count the sensor's impulses.

5. After finishing, press  again. By doing this, the monitor retains the impulse number in the memory.

**10.3 TOTAL AREA / SEED DRILL WIDTH – C2**

Two independent total areas can be marked.

**Displaying the total area**

1. Select channel 2.

2. Press  to display total areas 1 and 2 on the screen. First, "tot. 1" will be displayed and immediately afterwards the value in Ha will be shown.

**Setting to zero the total areas**

1. Select channel 2.

2. Press  to display.

3. Press and hold  for more than 5 seconds.

## Programming the working width

1. Select channel 2 of the area.

2. Press and hold  for more than 5 seconds until the width value is displayed and, without releasing it, press the central button to modify the flickering digit.

3. Press and hold the flickering digit for more than 5 seconds to modify its value.

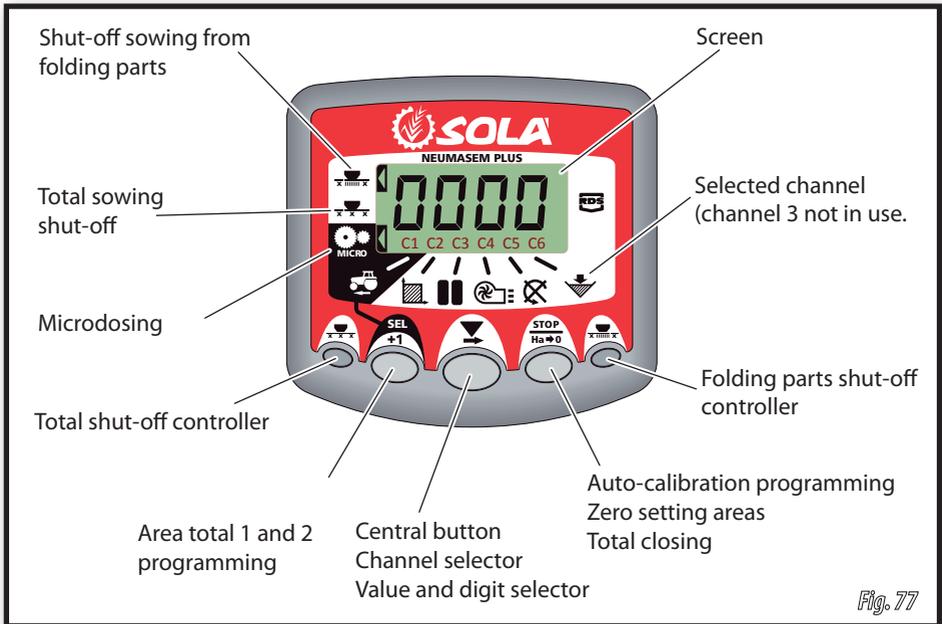
4. Release all buttons to return to the normal state.

## Working in micro mode

When working with the distributor in the micro-dosing mode (for small hoppers and minimal doses), press and hold  button for more than 3 seconds until the arrow indicating the micro mode is displayed. In this situation, the monitor will keep the speed and actual real working area.

Press and hold  for more than 5 seconds until the indicating arrow disappears to resume normal position.

## 10.4 PANEL DE CONTROL CON MARCADOR DE CAMINOS (OPTIONAL)



The monitor provided comes programmed especially for your model of seed drill. The user will only need to observe the displayed values and no extra programming is required.

The monitor shows 6 different channels or readings, as well as 3 different arrows showing the states.

**C1** shows forward speed in m/sec.

**C2** shows two different hectares (for example on partial and one total hectare).

**C3** tramlining.

**C4** shows the fan's rpm.

**C5** shows the turning speed of the distributor's axle's in rpm.

**C6** shows if the hopper's seed level is too low.

### 10.4.1 TRAMLINING - C3

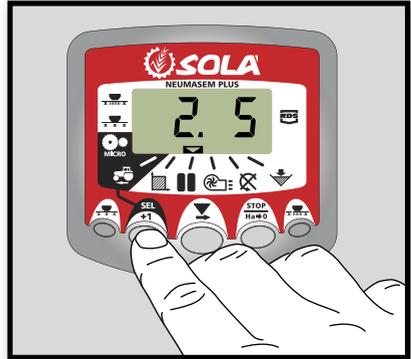
The displays defaults to the  channels after 10 seconds (unless the Area Total was selected).

There are five systems of tramlining - symmetric, asymmetric left, asymmetric right, 10 bout and 18 bout. The tramline bout is programmable from 1 to 15 in symmetric, asymmetric left and asymmetric right sequences.

Selection of asymmetric tramlining is denoted by a decimal point on the display between the current bout number on the left and the tramline bout number on the right. Left or right asymmetric tramlining is selected in the programming mode.

#### Manually advance the bout number

Press  to advance the current bout number by 1.

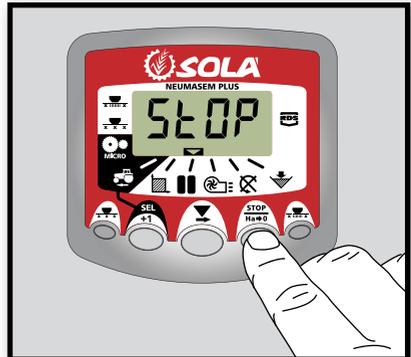


#### Hold the bout number

Press  to "hold" the current bout when the drill goes out of work.

The display will flash 'STOP'.

Press  again to resume the normal bout sequence.



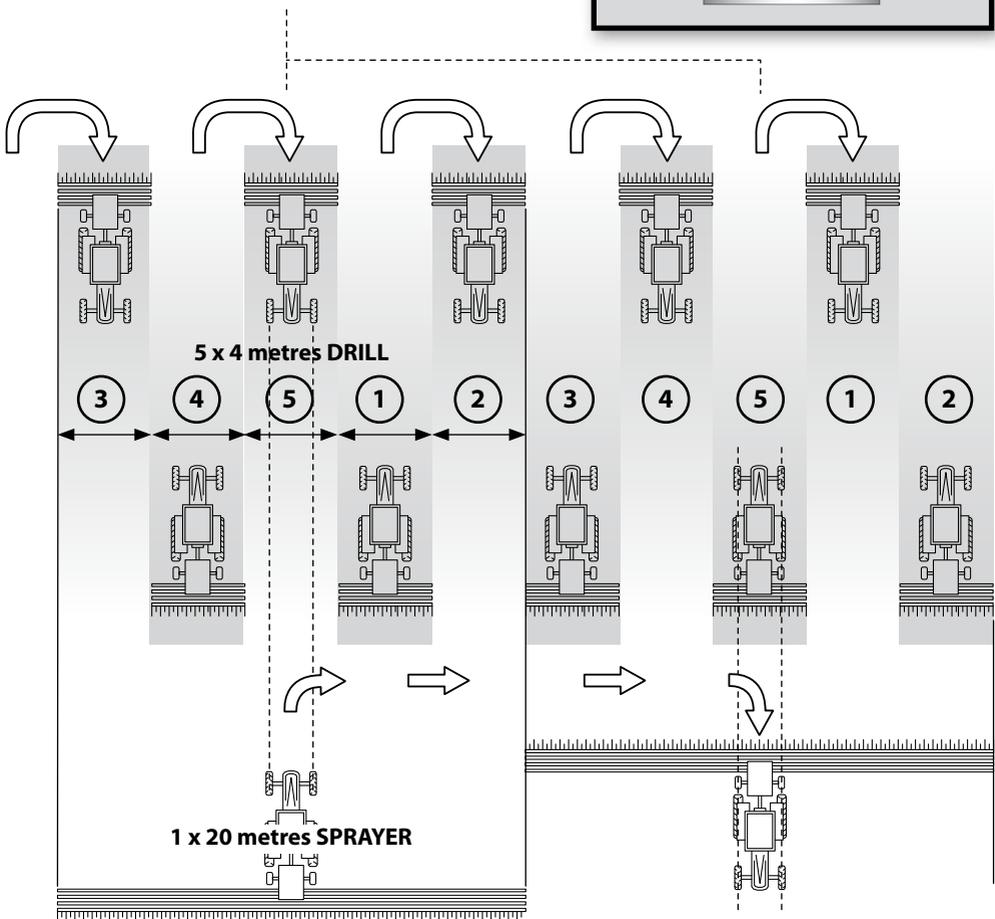
## Symmetric Tramlining Sequence

2+2 seed spouts are closed during the tramline bout only.

The instrument will beep once the beginning of the tramline bout, and the display will continue flashing for the duration of the bout.



### Tramline bouts

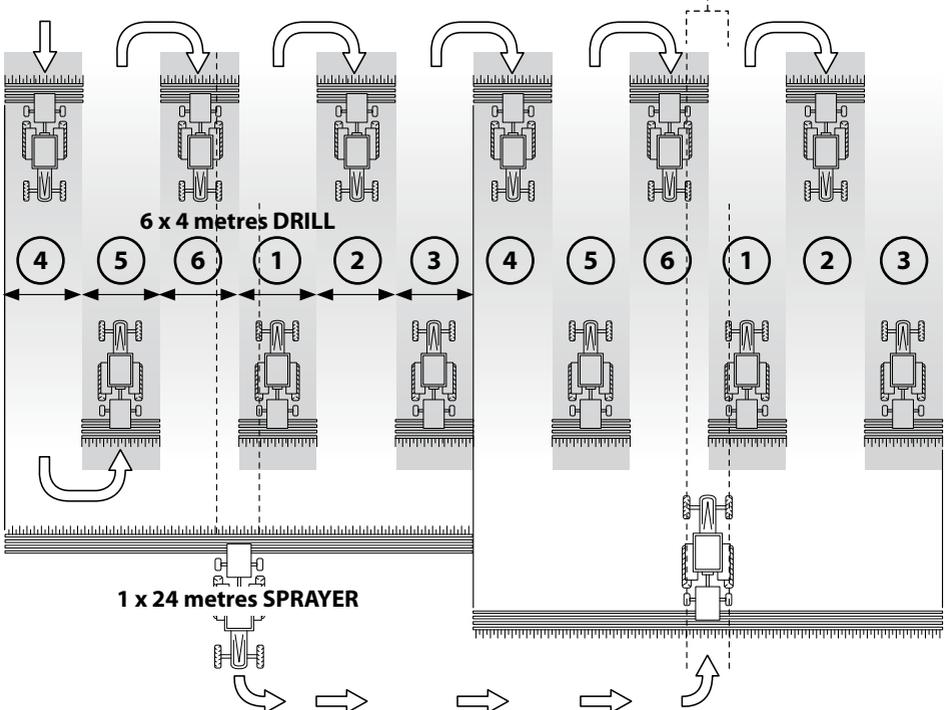


## Asymmetric Left Tramlining Sequence

Two seed spouts are closed on the left hand side of the drill on the tramline bouts. The instrument will beep once the beginning of each tramline bout, and the display will continue flashing for the duration of the bout.

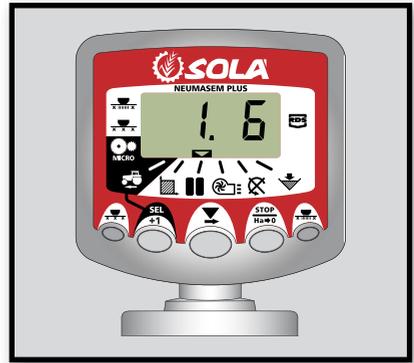
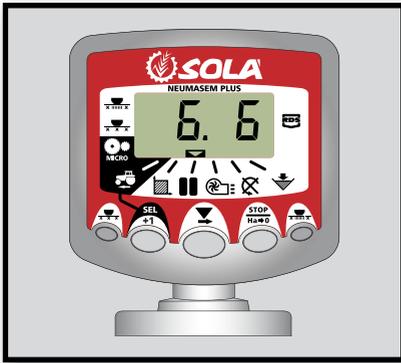


Tramline bouts

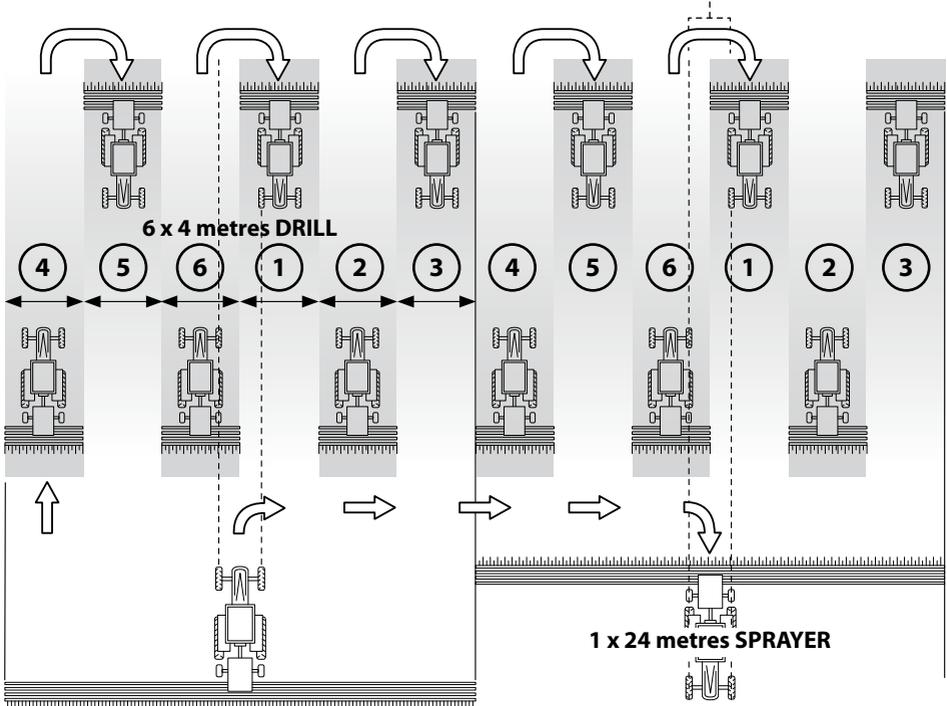


## Asymmetric Right Tramlining Sequence

Two seed spouts are closed on the right hand side of the drill on the tramline bouts. The instrument will beep once the beginning of each tramline bout, and the display will continue flashing for the duration of the bout.



Tramline bouts



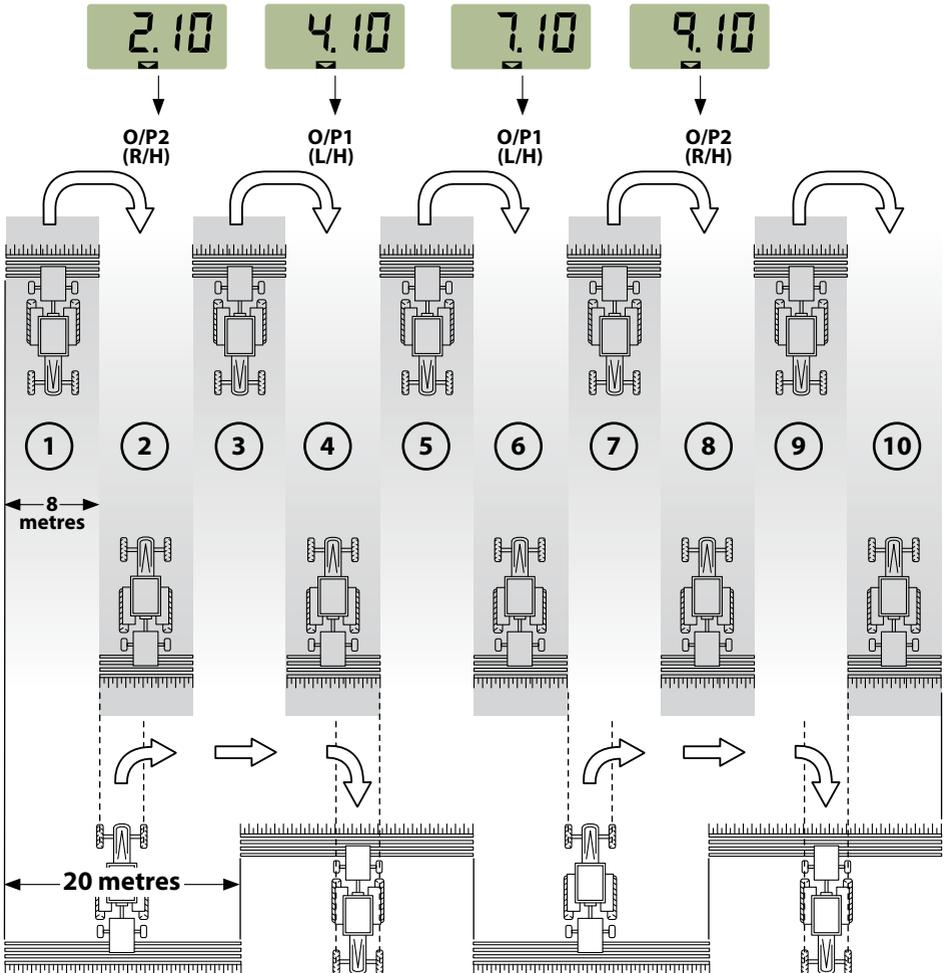
## 10 Bout Tramlining Sequence

For use with 4 metre drill/10 metre sprayer, or 8 metre drill/20 metre sprayer combinations. (2 x 2 left hand seed spouts are closed on bouts 4 and 7, and 2 x 2 right hand seed spouts closed on bouts 2 and 9). Starting on bout 1 requires turning RIGHT at the end of the first bout.



### NOTE

TO TURN LEFT AT THE END OF THE FIRST BOUT, ADVANCE THE BOUT NUMBER TO 6 BEFORE COMMENCING DRILLING.



## 18 Bout Tramlining Sequence

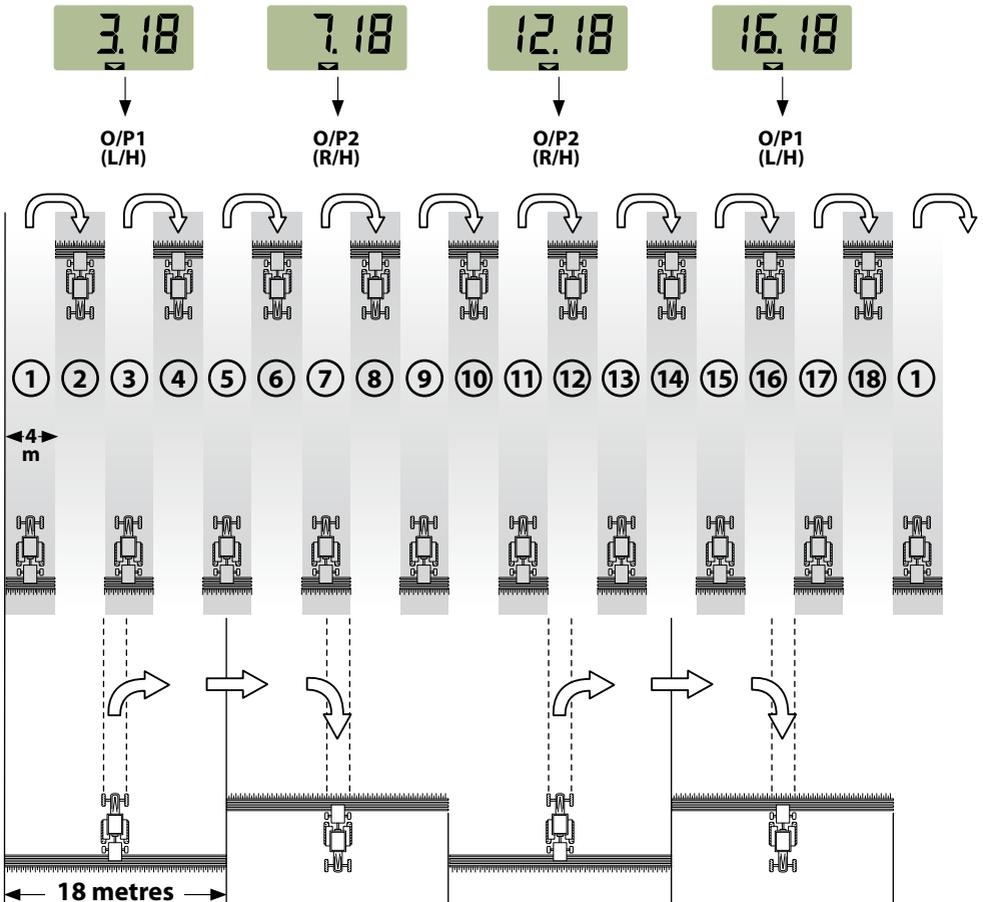
For use with 4 metre drill and an 18 metre sprayer. (2 x 2 left hand seed spouts are closed on bouts 3 and 16, and 2 x 2 right hand seed spouts closed on bouts 7 and 12). Starting on bout 1 requires turning RIGHT at the end of the first bout.



### NOTE

TO TURN LEFT AT THE END OF THE FIRST BOUT, ADVANCE THE BOUT NUMBER TO 10 BEFORE COMMENCING DRILLING.

The instrument will beep once the beginning of each tramline bout and the display will flash for the duration of the tramline bout.



## Selecting the Tramline Sequence

1. Select the  channel.
2. Hold  to enter programme mode 1.  
After 5 seconds the first two digits flash, indicating the tramline sequence currently set:

'SY' = Symmetric

'AL' = Asymmetric Left

'Ar' = Asymmetric Right

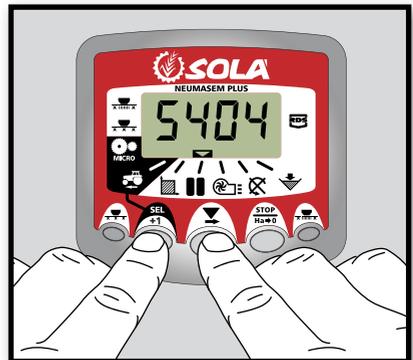
'AS' = Special Asymmetric sequence e.g. 10 bout and 18 bout.

3. Continue holding the  button and press and HOLD the  button to select the required sequence.



## Setting the Tramline Bout

1. PRESS and RELEASE the  button to toggle between the tramline sequence and tramline bout number display.  
The 3<sup>rd</sup> and 4<sup>th</sup> digits flash indicating the tramline bout number currently set.
2. PRESS and RELEASE the  button to cycle the tramline bout from 1 to 15.



## 10.5 FAN RPM / FAN ALARMS – C4

### To display the fan's speed in rpm

Select channel 4 using the central button .

### Fan alarms

The fan's minimum turning speed can be programmed.  
Under 2 Km/h these alarms will deactivate.

### Fan's minimum speed

1. Select channel 4.

2. Press and hold  button for more than 5 seconds.

3. Hold it and press the  to change value and digits as explained in former cases. Default speed is 3800 rpm.

4. Release all buttons to resume the normal position.

Selecting the fan's number of impulses per revolution (default value is set to 2).

### PLEASE NOTE

FAN'S NUMBER OF IMPULSES PER REVOLUTION SHOULD ALWAYS BE 2.  
ONLY USE THIS PROGRAMMING MODE IN CASE OF MALFUNCTION.

1. TO SELECT PROGRAMMING MODE 2, PRESS  (MONITOR NEUMASEM) OR  (MONITOR NEUMASEM PLUS) BUTTON WHILE SWITCHING ON THE SCREEN USING REAR SWITCH.

2. PRESS  (MONITOR NEUMASEM) OR  (MONITOR NEUMASEM PLUS) TO CHANGE THE CHANNEL AND SELECT CHANNEL 4 (FAN).

3. PRESS AND HOLD THE  TO MODIFY THE FLICKERING DIGIT (IT SHOULD ALWAYS BE 2).

4. RELEASE THE BUTTON TO CHANGE BACK TO NORMAL POSITION.

## 10.6 SEED SHAFT RPM – C5

Select channel 5 using the central button  .

40 seconds after the seed shaft stops turning, an alarm beeps 5 times consecutively. If it remains still, this alarm will repeat every 30 seconds.

To turn off the beeping, switch off the screen and switch it on again. This alarm will deactivate under 2 Km/h.

The seed shaft's alarm can be deactivated by pressing the button  for more than 5 seconds on the selected channel. The screen will display "Off". In this situation the alarm will not be activated even if the screen is switched off and on again.

## 10.7 HOPPER LOW LEVEL ALARM – C6

When the seed level is below the sensor, an alarm is activated and beeps 5 times consecutively. In this case the screen will display «**ALA**».

### Activate and deactivate hopper level alarm

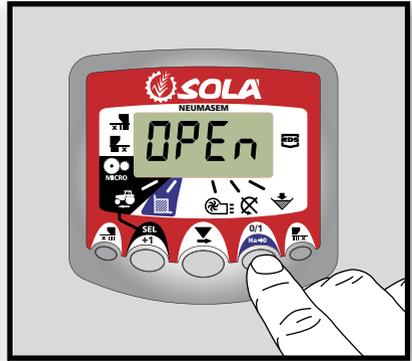
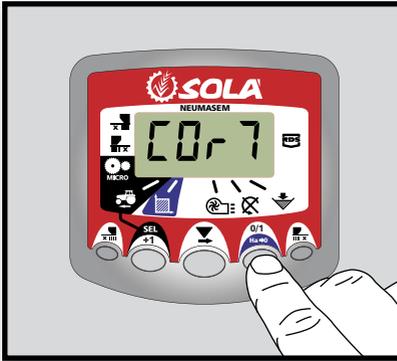
1. Select channel 6 using the central button  .
2. Press and hold  button and...
3. Press the central button to select "0" (alarm is off) or "1" (alarm is on).
4. Release the buttons to change back to the normal position.

## 10.8 TOTAL SOWING SHUT-OFF (OPTIONAL)

### NEUMASEM electronic controller

Press  to **lock** the seed's exit. The screen will display the flickering text «CORT».

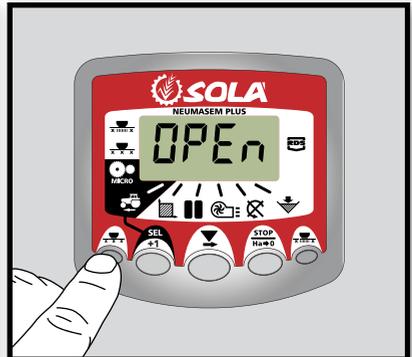
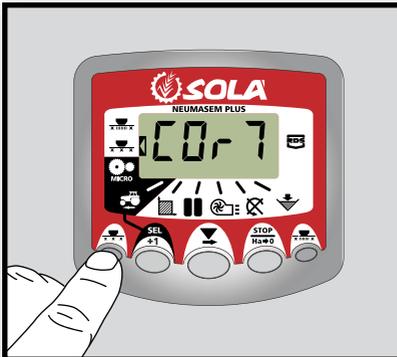
Press  again to **unlock** the seed's exit and return to a normal working position. The screen will display the flickering text «OPEN».



### NEUMASEM PLUS electronic controller

Press  to **lock** the seed's exit. The screen will display the indicating arrow and the text "CORT" will be displayed every 2 seconds «CORT».

Press  again to **unlock** the seed's exit and return to a normal working position. The screen will display the flickering text «OPEN».

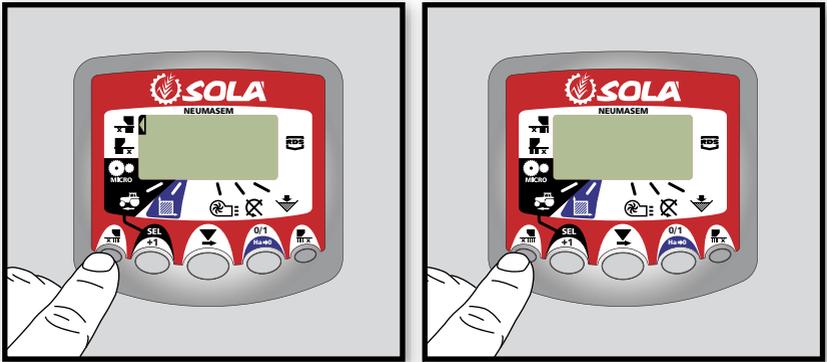


## 10.9 SHUT-OFF SOWING FROM FOLDING PARTS (OPTIONAL)

### NEUMASEM electronical controller

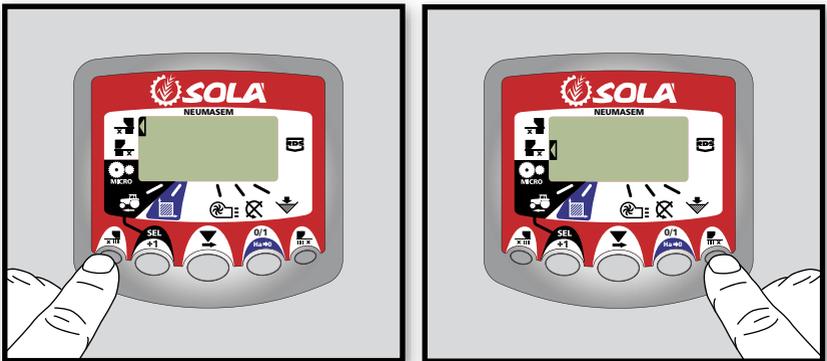
Press  to **lock** the seed's exit from the arms on the folding parts (exits on the left and right sides of the folding parts will lock). The screen will display the indicating arrow.

Press  again to **unlock** the seed's exit and change back to normal position.

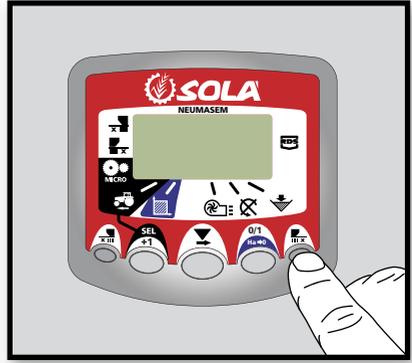
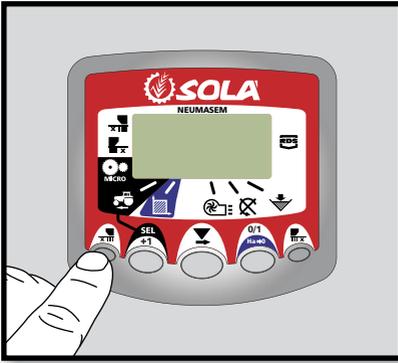


### NEUMASEM electronical controller for independent folding parts

To **lock** the seed's exit from the arms on the folding parts, press  (to lock the left side in the driving direction) or  (to **lock** the right side in the driving direction). The screen will display the indicating arrow.



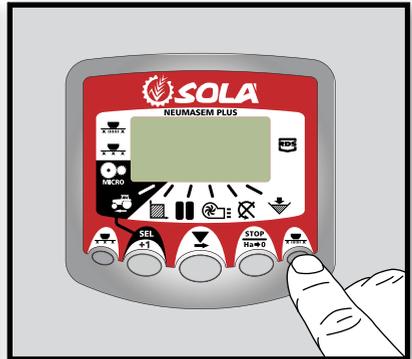
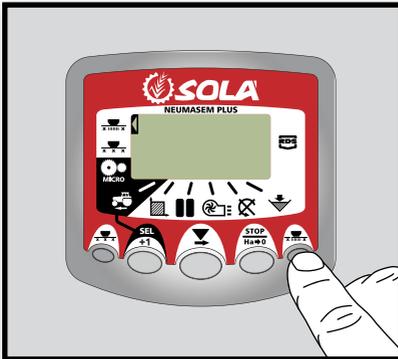
Press  or  again to unlock the seed's exit and change back to normal position.



### NEUMASEM PLUS electronic controller

Press  to **lock** the seed's exit from the arms on the folding parts. The screen will display an arrow indicating the selected mode.

Press  again to **unlock** the seed's exit and change back to normal position.



## 8- DOSAGE TABLE



INDICATED QUANTITIES SHOWN IN THE FOLLOWING TABLE SHOULD BE CONSIDERED FOR GUIDANCE ONLY, FORESEEN FLOWS CAN VARY DEPENDING ON THE ACCIDENTAL PRESENCE OF DISINFECTING PRODUCTS, UNEVEN SEED SIZE, DENSITY, HUMIDITY, ETC.



FOR PRECISION SOWING, FOLLOW DOSING PROCESS DESCRIBED IN SECTION 6 OF THIS MANUAL.



**VERY IMPORTANT:** THE DOSAGE WHICH IS IN THE FOLLOWING TABLE IS FOR A DISPENSER.

MICRO - 6 METERS								
SMALL SEEDS	RAPE		FIELD CLOVER		GRASS		TURNIPS	
WEIGHT (Kg/L)	0,65		0,77		0,39		0,7	
Position	SMALL SEEDS (kg/ha)							
2,5	3,6	1,8	3,8	1,9			4,3	2,0
5	7,7	3,8	8,8	4,3			7,7	4,1
7,5	11,5	5,6	14,5	7,2	4,7	2,4	12,6	6,2
10	15,3	7,7	20,4	10,2	8,8	4,3	16,9	8,5
12,5	19,1	9,7	26,0	12,9	12,2	6,1	21,3	10,6
15	23,3	11,5	30,4	15,3	15,6	7,8	25,3	12,6
17,5	26,9	13,3	35,9	17,8	18,9	9,5	29,5	14,8
20	30,8	15,3	40,6	20,4	22,4	11,1	33,9	16,9
22,5	34,8	17,4	45,0	22,4	25,3	12,6	36,4	18,2
25	38,6	19,1	46,4	23,3	27,5	13,8	38,9	19,5

NORMAL - 6 METERS										
NORMAL SEEDS	WHEAT	RYE	BARLEY	OATS	BEANS	PEAS	LUPIN	CAROB	CORN	GRASS
WEIGHT (Kg/L)	0,77	0,74	0,68	0,5	0,85	0,81	0,76	0,83	0,79	0,36
Posituion	NORMAL SEEDS (kg/ha)									
5										
10	56,4	56,4	54,2	40,0	38,2	36,0	47,3	54,2	13,5	
15	85,7	83,5	81,2	58,2	69,9	67,7	76,8	85,7	40,6	31,7
20	117	113	108	78,3	103,7	99,4	103,7	117	79,0	43,0
25	145	140	133	96,5	133	131	133	151	117	56,4
30	176	169	160	120	165	165	163	182	156	69,9
35	207	198	187	138	197	198	191	215	195	83,5
40	237	226	215	158	228	229	218	246	233	
45	266	255	242	178	260	262	248	280	264	
50	293	284	269	198	291	293	278	311	295	
55	326	311	293	218	322	328	308	342	328	
60	355	339	322	238	355	360	335	375	359	
65	386	368	348	260	386	393	366	408	391	
70	417	397	375	280	417	424	395	440	422	
75	448	426	402	300	450	455	424	471	451	
80	477	455	426	320	479	488	453	504	482	
85	504	486	453	339	510	524	482	535	515	
90	535	510	480	359	542	555	510	568	546	
95	566	539	508	379	571	586	542	601	577	
100	595	568	535	399	602	619	568	632	610	
105	624	599	562	420	632	652	599	666	642	
110	655	628	590	440	666	684	628	697	673	

MICRO - 7 METERS								
SMALL SEED	RAPE		FIELD CLOVER		GRASS		TURNIPS	
WEIGHT (Kg/L)	0,65		0,77		0,39		0,7	
Position	SMALL SEEDS (kg/ha)							
2,5	3,1	1,5	3,3	1,7			3,7	1,7
5	6,6	3,3	7,6	3,7			6,6	3,5
7,5	9,9	4,8	12,4	6,2	4,1	2,0	10,8	5,4
10	13,2	6,6	17,5	8,7	7,6	3,7	14,5	7,3
12,5	16,4	8,3	22,3	11,0	10,5	5,2	18,3	9,1
15	20,0	9,9	26,1	13,2	13,4	6,7	21,7	10,8
17,5	23,1	11,4	30,7	15,3	16,2	8,1	25,3	12,7
20	26,4	13,2	34,8	17,5	19,2	9,5	29,0	14,5
22,5	29,8	14,9	38,5	19,2	21,7	10,8	31,2	15,6
25	33,1	16,4	39,8	20,0	23,6	11,8	33,4	16,7

NORMAL - 7 METERS										
NORMAL SEEDS	WHEAT	RYE	BARLEY	OATS	BEANS	PEAS	LUPIN	CAROB	CORN	GRASS
WEIGHT (Kg/L)	0,77	0,74	0,68	0,5	0,85	0,81	0,76	0,83	0,79	0,36
Position	NORMAL SEEDS (kg/ha)									
5,0										
10,0	48,4	48,4	46,5	34,3	32,8	30,9	40,6	46,5	11,6	
15,0	73,5	71,6	69,6	49,9	59,9	58,0	65,8	73,5	34,8	27,1
20,0	100,6	96,7	92,8	67,1	88,9	85,2	88,9	100,6	67,7	36,8
25,0	124	120	114	82,7	114	112,2	114,2	130	100,6	48,4
30,0	151	145	137	103	141	141	139	156	134	59,9
35,0	178	170	161	119	168	170	164	184	167	71,6
40,0	203	193	184	136	195	197	187	211	200	
45,0	228	218	207	153	223	225	212	240	226	
50,0	251	243	231	170	250	251	239	267	253	
55,0	279	267	251	187	276	281	264	293	281	
60,0	304	290	276	204	304	309	287	321	307	
65,0	331	315	298	223	331	337	314	349	335	
70,0	357	340	321	240	357	363	339	378	362	
75,0	384	365	345	257	385	390	363	404	387	
80,0	409	390	365	275	410	418	388	432	413	
85,0	432	417	388	290	437	449	413	459	441	
90,0	459	437	412	307	465	476	437	487	468	
95,0	485	462	435	324	490	502	465	515	495	
100,0	510	487	459	342	516	530	487	541	523	
105,0	535	513	482	360	541	558	513	571	551	
110,0	562	538	505	378	571	587	538	597	577	

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