ELECTRONICAL CONTROLLER

NEUMASEM

NEUMASEM PLUS

NEUMASEM MDCF

STARTING MANUAL

SOLÀ *seed drills and fertilizer spreaders are manufactured in a highly specialized environment and our factory has a vast customer-endorsed experience.*

SOLÀ *machines use highly advanced technology and are guaranteed to work without malfunction in a great variety of conditions. They are provided with easy-to-use and efficient devices.*
SOLÀ *machines perform excellently with only minimum operator maintenance.*

This manual will help you use your **SOLÀ** *product with the utmost efficiency.*

ISO 9001
BUREAU VERITAS
Certification

Certified quality system

2nd Edition – March 2023
Ref.: CN-811117/GB
Created by: M.A SOLÀ, S.L.

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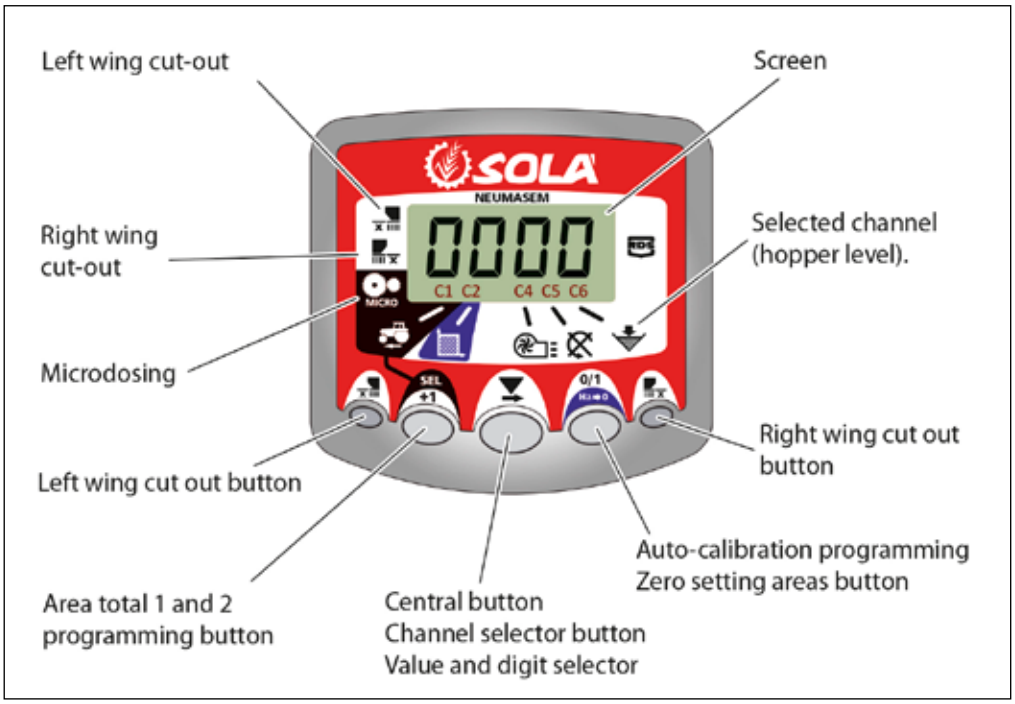


The monitor provided comes programmed especially for your model of seed drill. The user will only need to observe the displayed values and no extra programming is required.
The monitor shows 6 different channels or readings, as well as 3 different arrows showing the states.
C1 shows forward speed in 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**" intermitently, 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.

1.1 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	WHEEL	WORKING WIDTH (CM)										
		250	300	350	400	450	500	600	680	700	770	800
SM-1909	340/55-16	-	-	-	1,815	1,573	1,452	1,259	-	1,111	-	-
NEUMASEM 699-799	340/55-16	-	-	-	1,815	1,573	1,452	1,259	-		-	-
NS PLUS-2311	340/55-16	-	-	-	1,815	1,573	1,452	1,259	-	1,111	-	-
ARES-2713	340/55-16	-	-	-	1,815	1,573	1,452	1,259	-	1,111	-	-
	10.0/75-15,3	-	-	-	1,752	1,518	1,402	1,215	-	1,072	-	-
NEU-1706	-	2,178	2,178	1,834	1,584	-	-	-	-	-	-	-
NEU-2512	-	1,340	1,340	1,340	1,340	-	-	-	-	-	-	-
NEUMASEM-901	4.80-8 / 4.00-8	-	-	-	-	-	-	3,288	-	-	-	3,288
A-6000 SM	4.80-8 / 4.00-8	-	-	-	-	-	-	1,336	-	1,336	-	-
A-6000 NS PLUS	4.80-8 / 4.00-8	-	-	-	-	-	-	1,336	-	1,336	-	-
CT-2412	3.50-8	-	-	-	-	-	-	0,909	-	0,909	-	-

MODEL		WHEEL	WORKING WIDTH (CM)										
			250	300	350	400	450	500	600	680	700	770	800
VESTA-2813 - 1 metering unit	R	3.50-8	-	-	-	-	-	-	1,995	1,995	1,995	1,995	-
	L		-	-	-	-	-	-	3,989	3,989	3,989	3,989	-
SD-1504		4.80-8 / 4.00-8	-	-	-	1,943	1,644	1,425	1,257	-	-	-	-
SD-1605		4.80-8 / 4.00-8	-	-	-	1,943	1,644	1,425	1,257	-	-	-	-
KIBLI-2010		-	-		-	1,319	1,319	1,319	1,319	-	-	-	-
SM-1909/L		340/55-16	-	-	-	1,815	1,573	1,452	1,259	-	1,111	-	-
NEUMATICA-A		340/55-16	-	-	-	1,815	1,573	1,452	1,259	-	-	-	-
NEUMATICA PLUS		340/55-16	-	-	-	1,815	1,573	1,452	1,259	-	1,111	-	-
NEUMASEM-901/L		4.80-8 / 4.00-8	-	-	-	-	-	-	3,288	-	-	-	3,288
NEUMATICA A-6000 SM		4.80-8 / 4.00-8	-	-	-	-	-	-	1,336	-	1,336	-	-
NEUMATICA A-6000 PLUS		4.80-8 / 4.00-8	-	-	-	-	-	-	1,336	-	1,336	-	-
SD-5000		4.80-8 / 4.00-8	-	-	-	-	-	1,425	1,257	-	-	-	-

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.

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.

1.2 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.

1.3 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.

Programming number of pulses

1- To select programming mode 2, press and hold down the button 

for 15 seconds, while switching on the screen using rear switch.

2- Press 

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.

1.4 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.

1.5 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 for more than 5 seconds.

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

1.6 TOTAL SOWING SHUT-OFF (OPTIONAL)

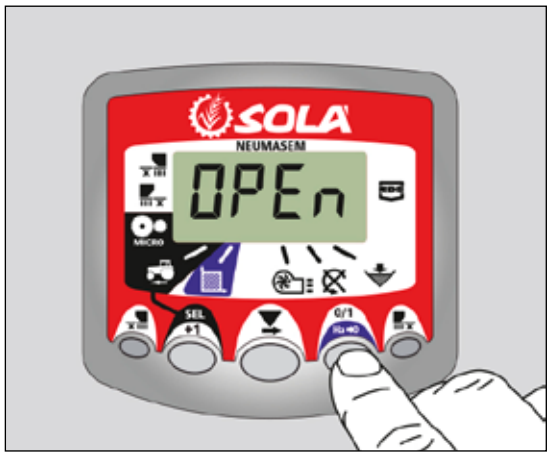
Press  to **lock** the seed's exit. The screen will display the flickering text «**CORT**».

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

1.7 SHUT-OFF SOWING FROM FOLDING PARTS (OPTIONAL)

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.

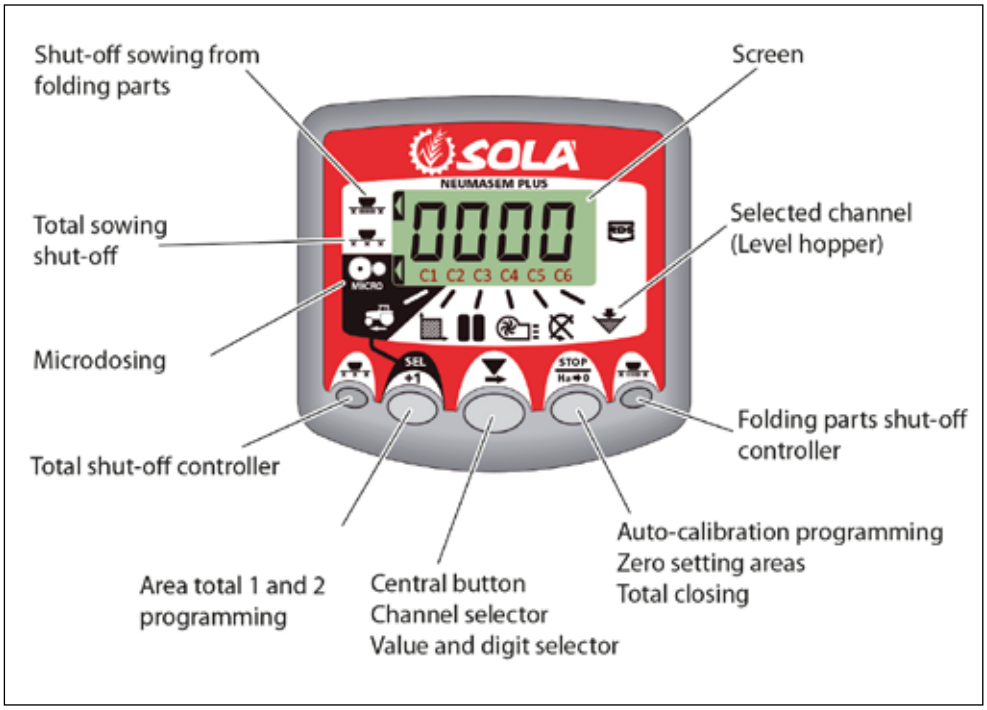


INDEPENDENT FOLDING PARTS

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.

2. FRONT PANEL NEUMASEM PLUS



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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.

By default the forward movement speed is displayed on the monitor. When some abnormal readings are shown, the screen will display "**Alarm**" intermitently, 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.

2.1 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	WHEEL	WORKING WIDTH (CM)										
		250	300	350	400	450	500	600	680	700	770	800
SM-1909	340/55-16	-	-	-	1,815	1,573	1,452	1,259	-	1,111	-	-
NEUMASEM 699-799	340/55-16	-	-	-	1,815	1,573	1,452	1,259	-		-	-
NS PLUS-2311	340/55-16	-	-	-	1,815	1,573	1,452	1,259	-	1,111	-	-
ARES-2713	340/55-16	-	-	-	1,815	1,573	1,452	1,259	-	1,111	-	-
	10.0/75-15,3	-	-	-	1,752	1,518	1,402	1,215	-	1,072	-	-
NEU-1706	-	2,178	2,178	1,834	1,584	-	-	-	-	-	-	-
NEU-2512	-	1,340	1,340	1,340	1,340	-	-	-	-	-	-	-
NEUMASEM-901	4.80-8 / 4.00-8	-	-	-	-	-	-	3,288	-	-	-	3,288
A-6000 SM	4.80-8 / 4.00-8	-	-	-	-	-	-	1,336	-	1,336	-	-
A-6000 NS PLUS	4.80-8 / 4.00-8	-	-	-	-	-	-	1,336	-	1,336	-	-
CT-2412	3.50-8	-	-	-	-	-	-	0,909	-	0,909	-	-

MODEL		WHEEL	WORKING WIDTH (CM)										
			250	300	350	400	450	500	600	680	700	770	800
VESTA-2813 - 1 metering unit	R	3.50-8	-	-	-	-	-	-	1,995	1,995	1,995	1,995	-
	L		-	-	-	-	-	-	3,989	3,989	3,989	3,989	-
SD-1504		4.80-8 / 4.00-8	-	-	-	1,943	1,644	1,425	1,257	-	-	-	-
SD-1605		4.80-8 / 4.00-8	-	-	-	1,943	1,644	1,425	1,257	-	-	-	-
EURO-888		7.50-16	1,234	1,234	1,234	1,234	-	-	-	-	-	-	-
ED-1003		7.50-16	1,234	1,234	1,234	1,234	-	-	-	-	-	-	-
TRI 194-294 / ESP		10.80-12	1,112	1,112	1,112	1,112	-	-	-	-	-	-	-
		6.00-16	1,168	1,168	1,168	1,168	-	-	-	-	-	-	-
TRISEM-2110		10.0/75-15,3	-	1,152	1,152	1,152	-	-	-	-	-	-	-
CERES TM-2612		3.50-8	-	-	-	0,963	-	-	-	-	-	-	-
GARBÍ-2210		-	-	1,266	1,266	1,266	-	-	-	-	-	-	-
SD-3115 BOUDOUR		6.00-16	0,962	0,962	-	-	-	-	-	-	-	-	-
SD-1203		-	0,987	0,987	0,987	0,987	-	-	-	-	-	-	-
SD-1303		11.5/80-15.3	1,132	1,132	1,132	1,132	-	-	-	-	-	-	-
KIBLI-2010		-	-	-	-	1,319	1,319	1,319	1,319	-	-	-	-
SM-1909/L		340/55-16	-	-	-	1,815	1,573	1,452	1,259	-	1,111	-	-
NEUMATICA-A		340/55-16	-	-	-	1,815	1,573	1,452	1,259	-	-	-	-
NEUMATICA PLUS		340/55-16	-	-	-	1,815	1,573	1,452	1,259	-	1,111	-	-
NEUMASEM-901/L		4.80-8 ó 4.00-8	-	-	-	-	-	-	3,288	-	-	-	3,288
NEUMATICA A-6000 SM		4.80-8 ó 4.00-8	-	-	-	-	-	-	1,336	-	1,336	-	-
NEUMATICA A-6000 PLUS		4.80-8 ó 4.00-8	-	-	-	-	-	-	1,336	-	1,336	-	-
SD-5000		4.80-8 ó 4.00-8	-	-	-	-	-	1,425	1,257	-	-	-	-
EUROPA-2000		6.00-16	-	0,584	0,584	0,584	-	-	-	-	-	-	-
		7.50-16	-	0,617	0,617	0,617	-	-	-	-	-	-	-
FERTISEM-2000		7.50-16	-	0,617	0,617	0,617	-	-	-	-	-	-	-
EUROPA-2110		10.0/75-15,3	-	1,152	1,152	1,152	-	-	-	-	-	-	-
EF-1103		7.50-16	1,234	1,234	1,234	1,234	-	-	-	-	-	-	-
SD-1806		7.50-16	-	1,168	1,168	-	-	-	-	-	-	-	-
SD-3000/R15		-	-	0,568	-	-	-	-	-	-	-	-	-

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.

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.

2.2 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.

2.3 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.

Programming number of pulses
1- To select programming mode 2, press and hold down the button  for 15 seconds, while switching on the screen using rear switch.
2- Press  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.

2.4 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.

2.5 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  .

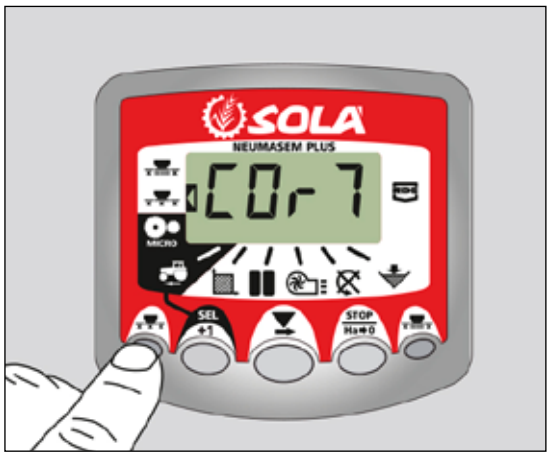
2- Press and hold  button for more than 5 seconds.

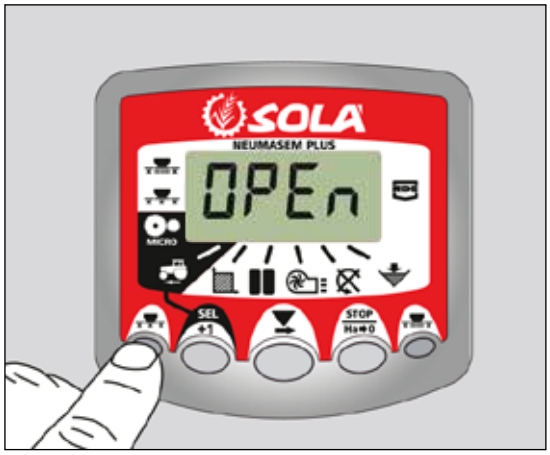
3- Press the central button to select "**0**" (alarm is off) or "**1**" (alarm is on).

4- Release the buttons to change back to the normal position

2.6 TOTAL SOWING SHUT-OFF (OPTIONAL)

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**».





2.7 SHUT-OFF SOWING FROM FOLDING PARTS (OPTIONAL)

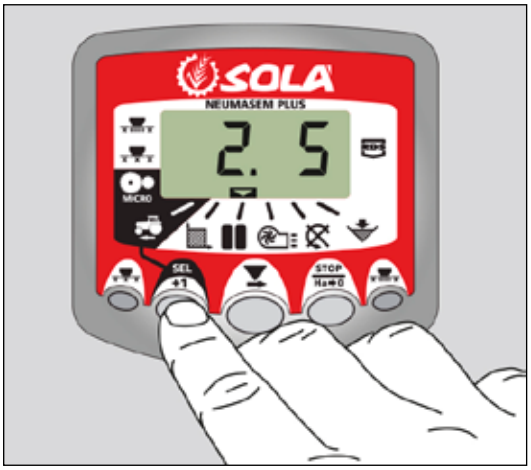
Press to **lock** the seed's exit from the arms on the folding parts. The screen will display an arrow indicating the selected mode.
Press again to **unlock** the seed's exit and change back to normal position.

2.8 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 tramlininig is selected in the programming mode.

Manually advance the bout number

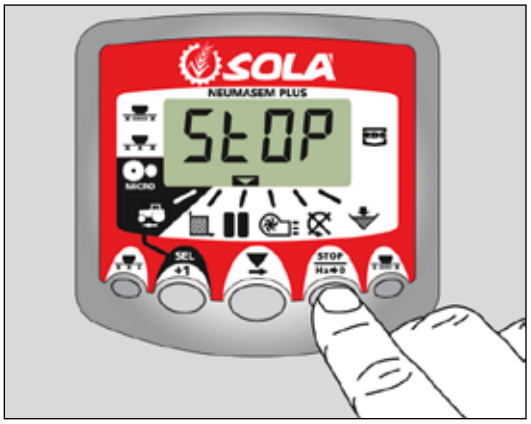
Press to advance the current bout number by 1.



Hold the bout number

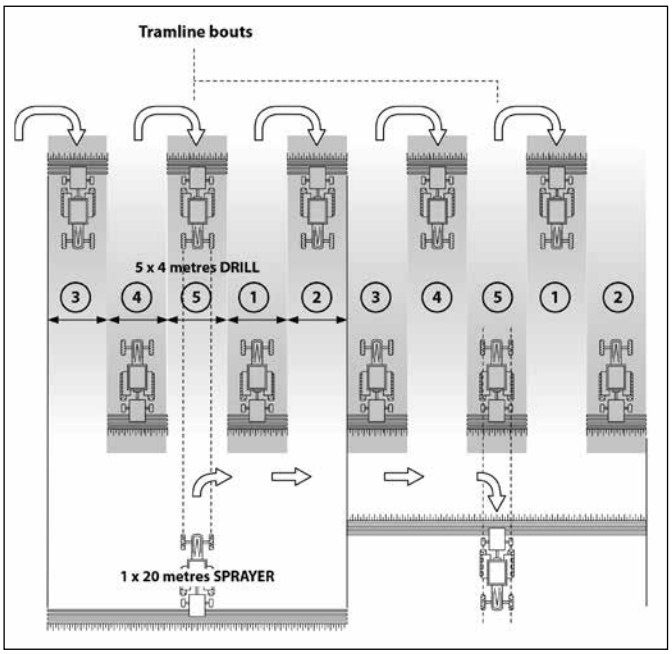
Press to "hold" the current bout when the drill goes out of work.
The display will flash **'STOP'**.

Press againts to resume the normal bout sequence.



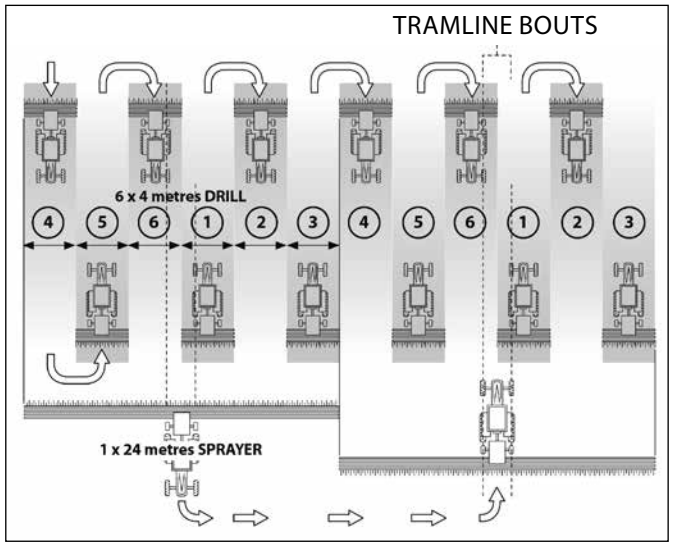
Symmetric Tramlining Sequence

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.



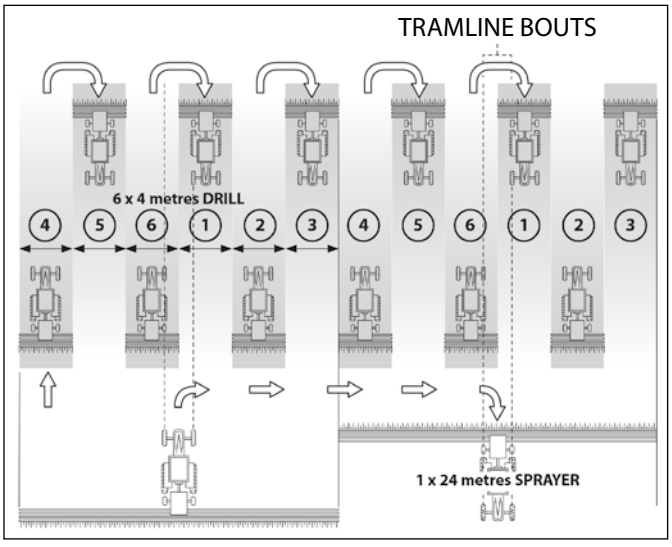
Asymmetric Left Tramlining Sequence

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.



Asymmetric Right Tramlining Sequence

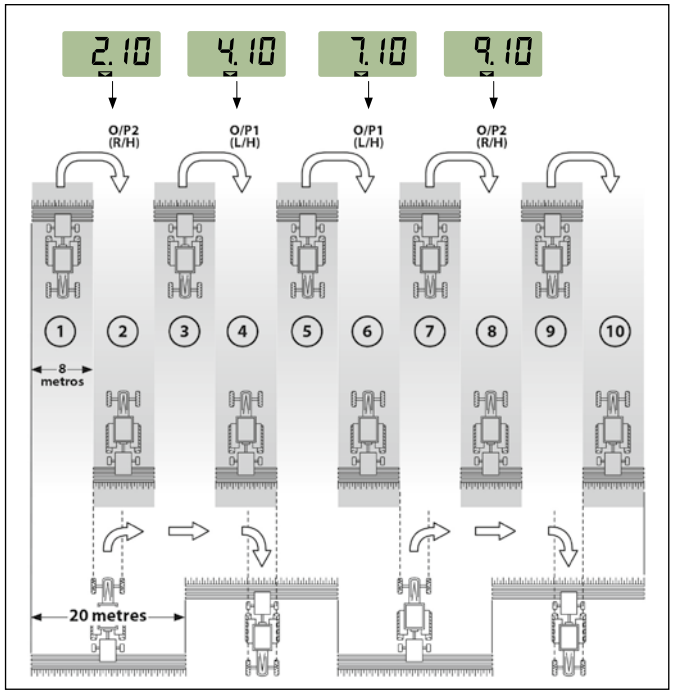
Two seed spouts are closed on the right hand side of the drill on the tramline bouts. The instrument will beep once the beginning of each tramline bout, and the display will continue flashing for the duration of the bout.



10 Bout Tramlining Sequance

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 requieres 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.

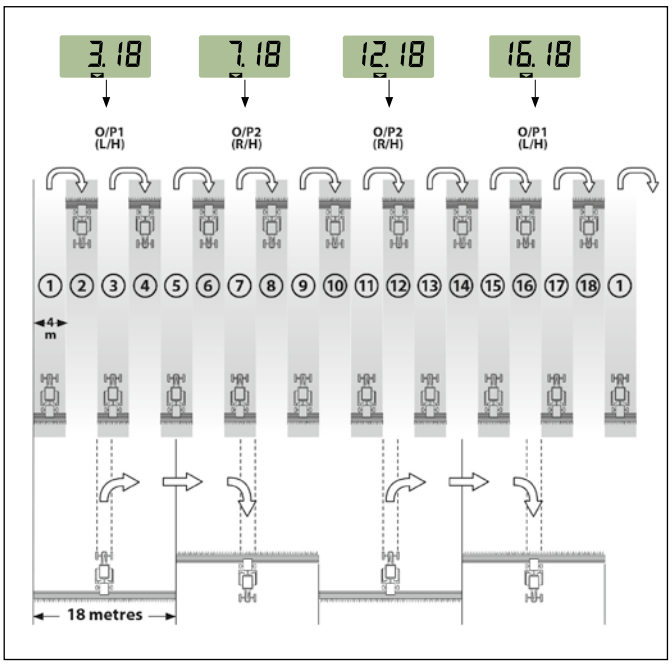


18 Bout Tramlining Sequance

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 requieres 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 tram-line bout and the display will flash for the duration of the tramline bout.



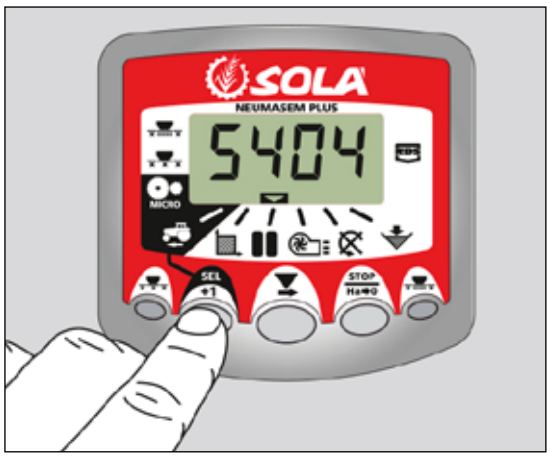
Selecting the Tramline Sequence

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.

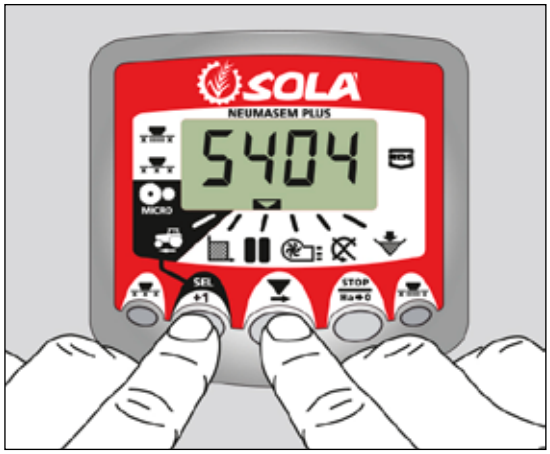
3- Continue holding the button and press and HOLD the button to select the required sequance.



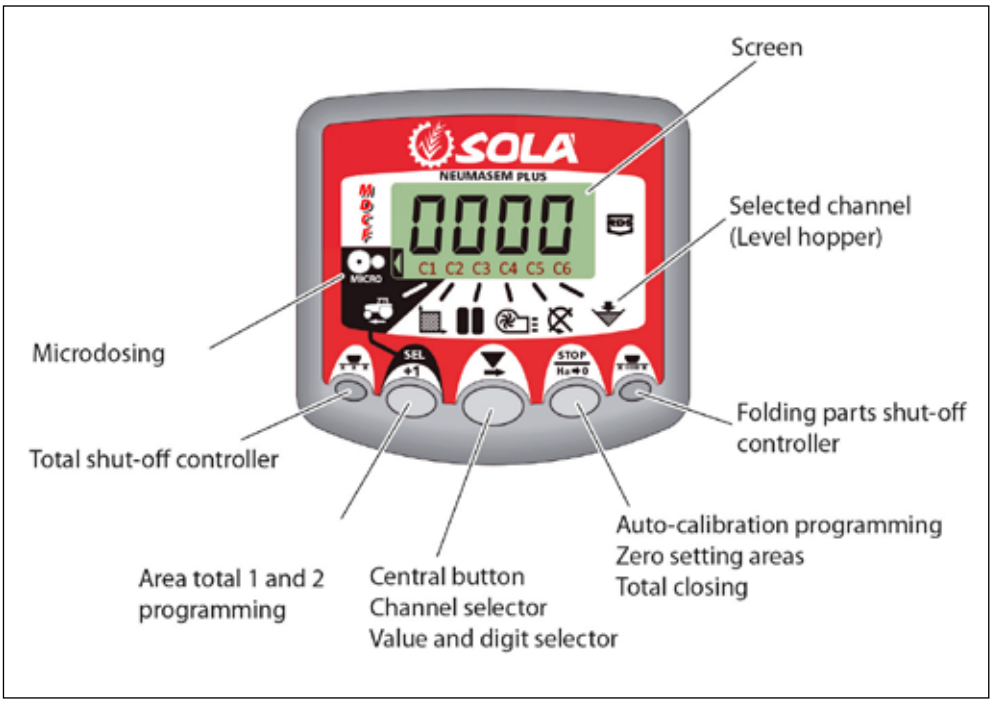
Setting the Tramline Bout

1- PRESS and RELEASE the button to toggle between the tramline sequence and tramline bout number display. The 3rd and 4th digits flash indicating the tramline bout number currently set.

2- PRESS and RELEASE the button to cycle the tramline bout from 1 to 15.



3. FRONT PANEL NEUMASEM MDCF



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 metering units 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**" intermitently, 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.

3.1 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	WHEEL	WORKING WIDTH (CM)			
		600	680	700	770
VESTA-2813 - 2 metering units	3.50-8	1,330	1,330	1,330	1,330

Selecting speed channel (C1)

1- Press SEL +1 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 SEL +1 and hold it while pressing STOP Ha→0. 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 STOP Ha→0 again. By doing this, the monitor retains the impulse number in the memory.

3.2 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.

3.3 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.

Programming number of pulses

1- To select programming mode 3, press and hold down the button 

for 15 seconds, while switching on the screen using rear switch.

2- Press 

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.

3.4 SEED SHAFT RPM – C5

Select channel 5 using the central button  .

Pressing the 

button we go from «**STF.1**» (distribution axis 1) to «**STF.2**» (distribution axis 2).

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.

Programming number of axes

1- Press the 

button for more than 15 seconds while connecting the monitor via the rear switch, to enter programming mode 3.

2- Press the 

button to change channel and go to channel 6 (distributor axis 2).

3- Press  to modify the blinking digit and hold to modify its value, (change «**0.000**» by «**1.000**»).

4- Stop pressing and return to normal position.

3.5 HOPPER LOW LEVEL ALARM – C6

When the seed level or fertiliser 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 for more than 5 seconds.

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

3.6 MIDDLE CLOSURE MACHINE AND TOTAL SOWING CUT (OPTIONAL)

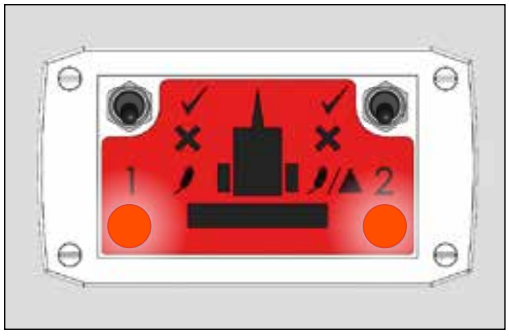
To close the seed or fertilizer outlet push the button 1 or 2, in the control box will illuminate the cut dispenser. To return to normal working position, press button 1 or 2 again.

Working position

Dispenser cut 1
TOTAL CUTTING OF SEED OR HALF MACHINE

Dosing cut 2
TOTAL FERTILIZER CUT OR HALF MACHINE

Total cutting

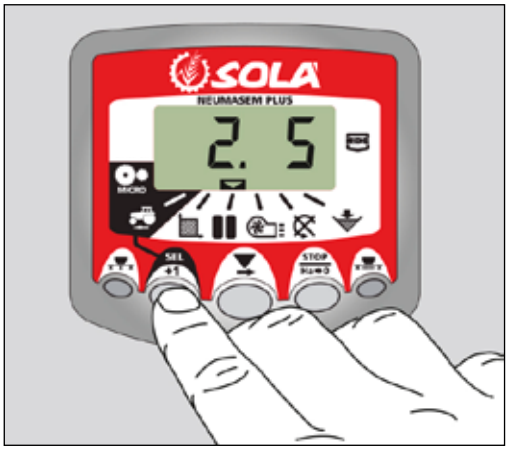


3.7 TRAMLINING - C3

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 tramlininig is selected in the programming mode.

Manually advance the bout number

Press SEL +1 to advance the current bout number by 1.



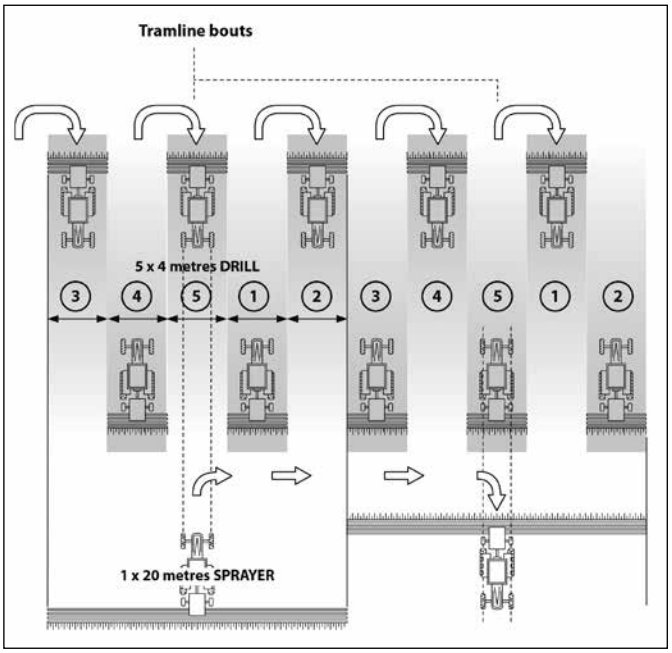
Hold the bout number

Press STOP to "hold" the current bout when the drill goes out of work.
The display will flash **'STOP'**.

Press STOP againts to resume the normal bout sequence.

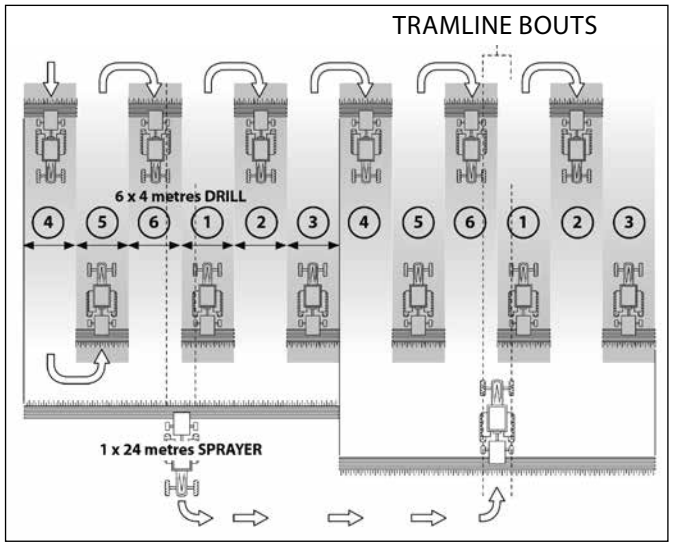
Symmetric Tramlining Sequence

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.



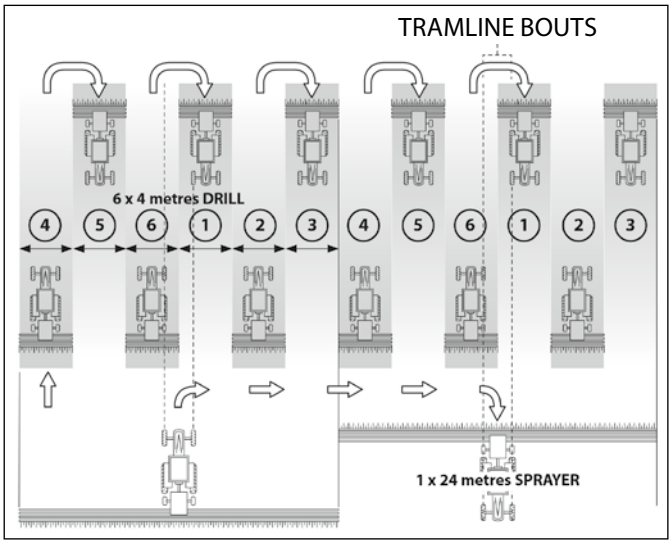
Asymmetric Left Tramlining Sequence

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.



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.



10 Bout Tramlining Sequance

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 requieres turning RIGHT at the end of the first bout.

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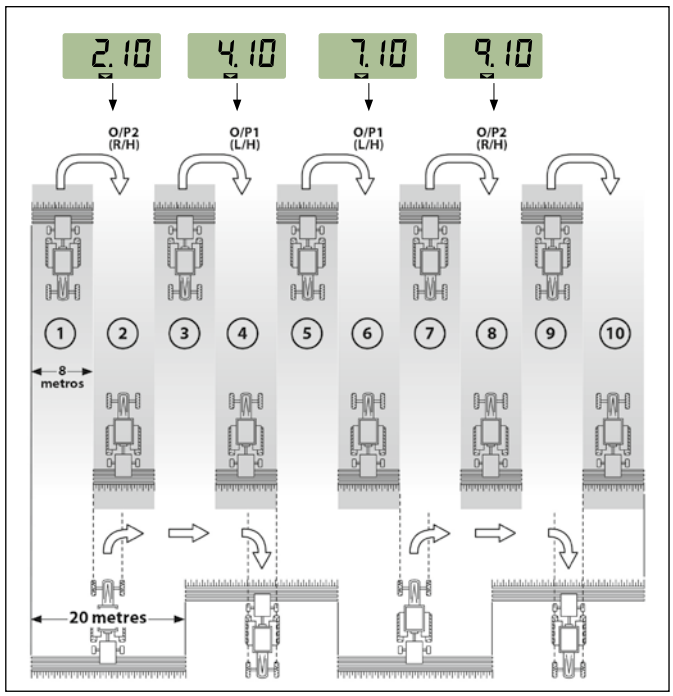
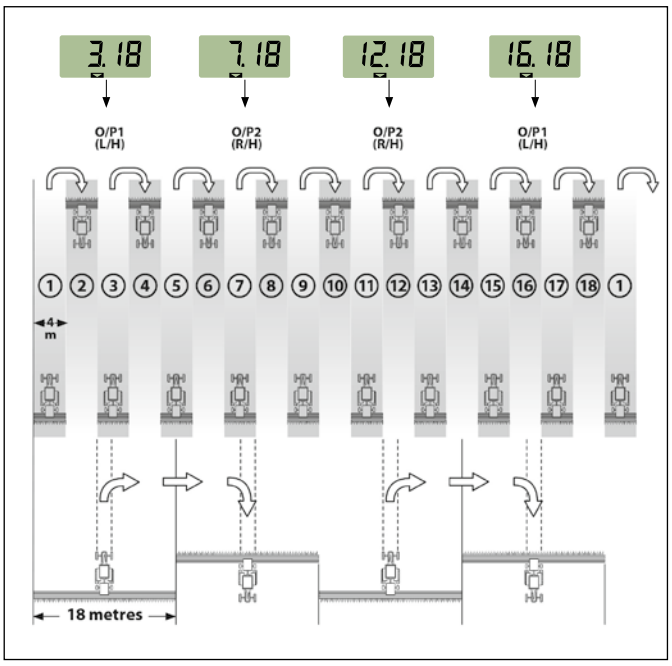


18 Bout Tramlining Sequance

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 requieres 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 tram-line bout and the display will flash for the duration of the tramline bout.



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

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

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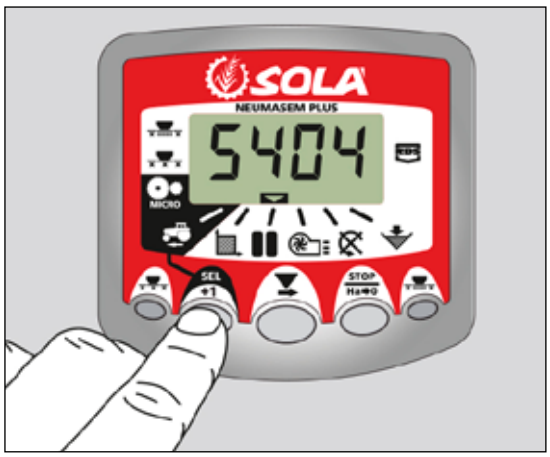

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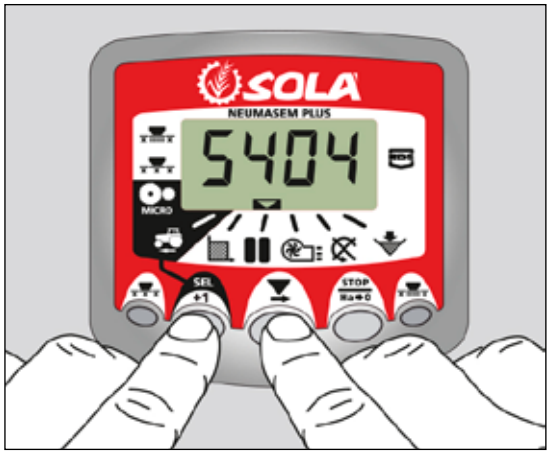

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