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- Procedure:re -programmingtipflow -rate

834 –quickinfo:

- ◆ powersupply: +12V(min8V)
- ◆ 5or7boomswitchesconfiguration
- ◆ masterswitch



- ◆ Inputs:
 - ✓ pressuresensor
 - ✓ speedsensor -acceptsbothmagneticpick -upsensorandradar

- ◆ Outputs:
 - ✓ regulatingvalve(PWM)
 - ✓ mastervalve(on: +12V/off:opencircuit)
 - ✓ upto7boomvalves(on: +12V/off:opencircuit)

- ◆ Alarms:
 - ✓ nopressure
 - ✓ nospeed
 - ✓ actualratecan'treachtargetrate

- ◆ Features:
 - ✓ 10pre-programmedISOtipflow -rates(re-programmablewithin10%)
 - ✓ userprogrammabletip:P(programmablebetween0.10LPM –9.99LPM)
 - ✓ simulatedspeedfeature (enter“0”forspeedsensorCal.NR. –see page3and4)
 - ✓ changingtarget(t)andapplicationrate“onthego”
 - ✓ tipflow -ratere -calibration(seepage4)
 - ✓ userprogram mablepressuresensormaximumrating(seepage3)
 - ✓ autopower -off(after10min.ofnooperating,ifmasterswitchisoff)

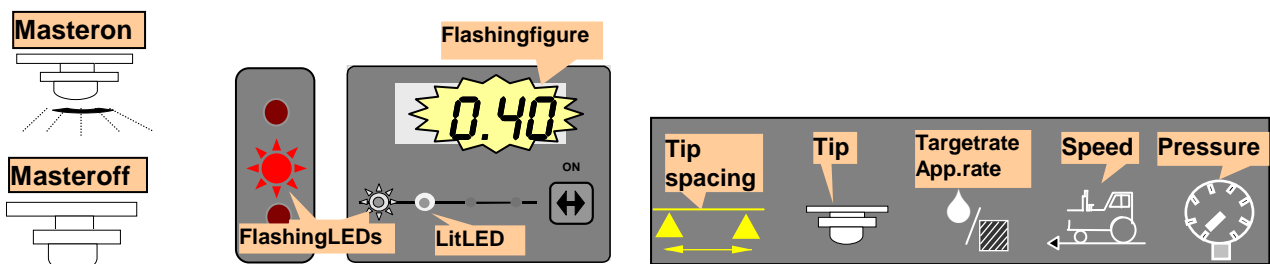
- ◆ Workingdisplays:

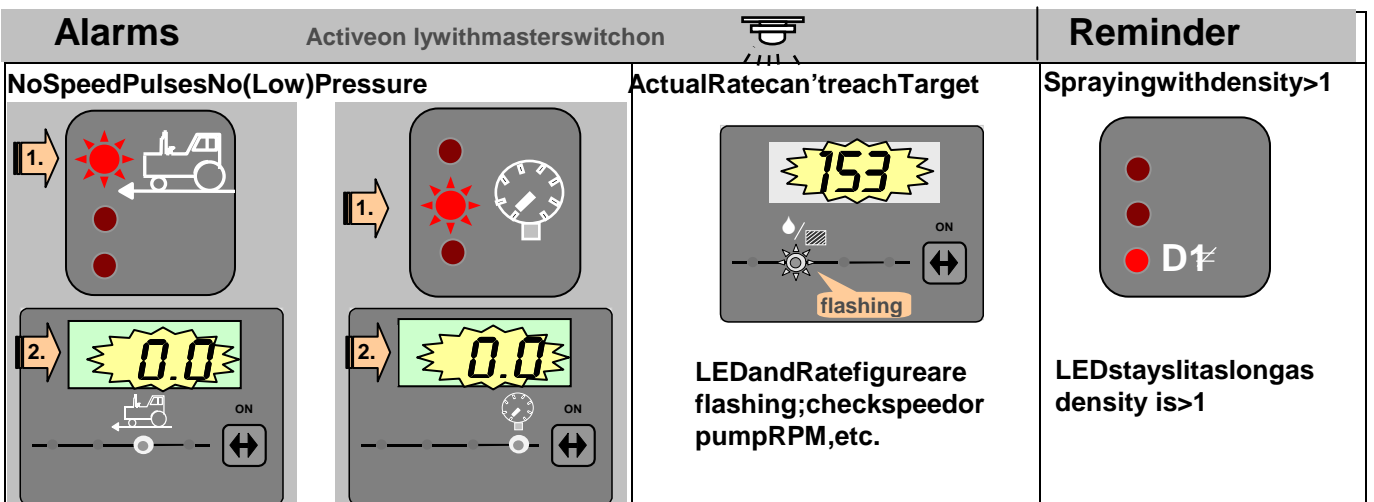
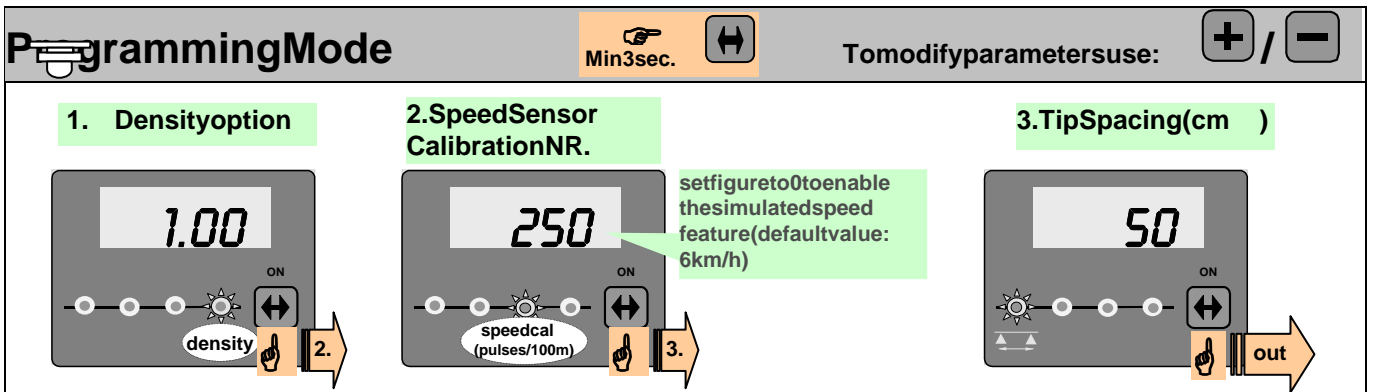
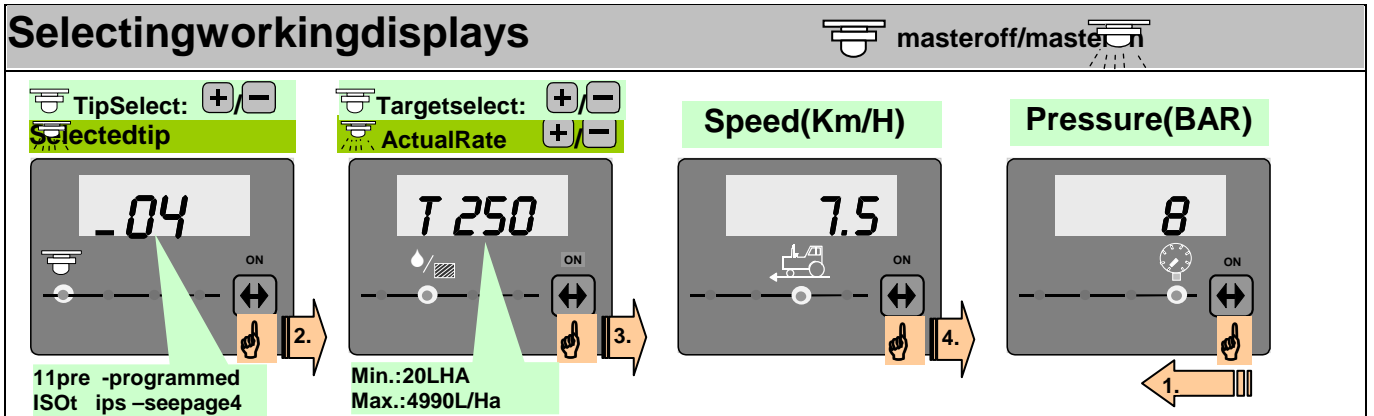
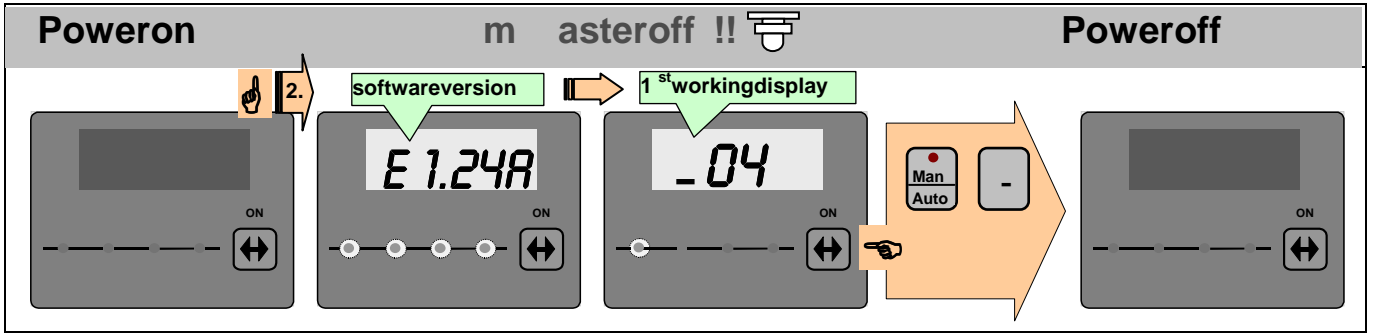
<p>Seepage3</p> <ul style="list-style-type: none"> ✓ Tipselection ✓ Targetrate ✓ Speed ✓ Pressure <div style="text-align: right; margin-top: 10px;">  </div>	<ul style="list-style-type: none"> ✓ SelectedTip ✓ Applicationrate ✓ Speed ✓ Pressure <div style="text-align: right; margin-top: 10px;">  </div>
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Note:targetratecanbeselectedinstepsof5LHabelow500LHaandinstepsof10LHaabove500LHa

- ◆ Programmingsteps:
 - ✓ Density
 - ✓ SpeedsensorCalibrationNumber
 - ✓ Tipspacing

Symbolslegend:

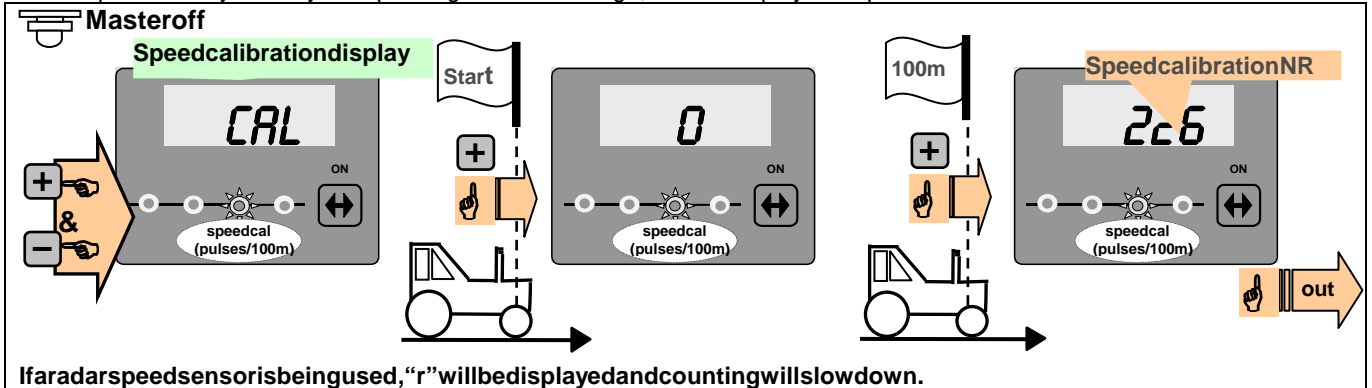




Speed Sensor calibration procedure - simulated speed feature

Calibration is based upon counting pulses generated by the speed sensor while driving 100m.

1. Position the sprayer before the start sign; enter the Programming mode - step 2 (default value 250 is displayed) and simultaneously depress **+** and **-** keys to activate the Speed Calibration Display
2. Start driving and depress **+** key exactly when passing the 100m start sign; console will start counting pulses generated by the speed sensor.
3. Depress **+** key exactly when passing the 100m end sign; console displays the Speed Calibration NR.



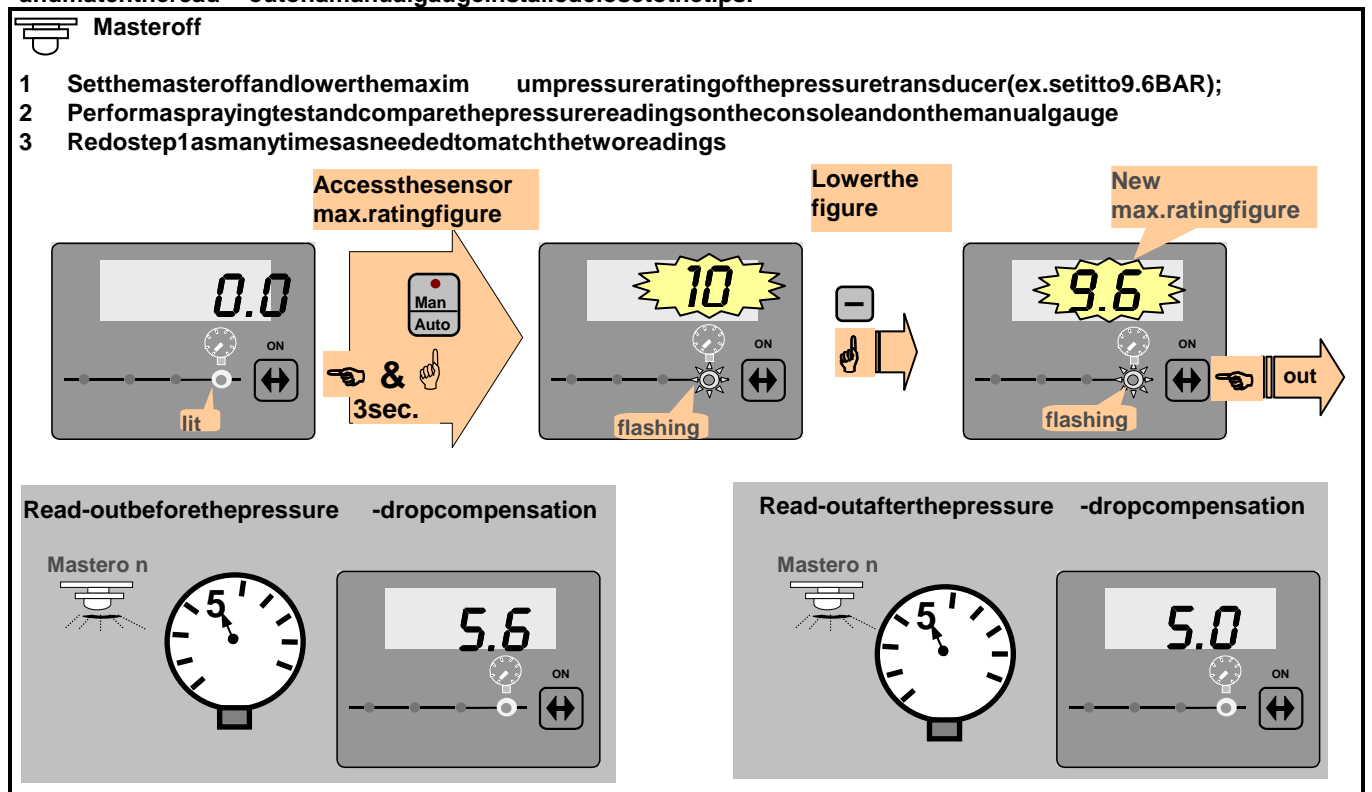
If radar speed sensor is being used, "r" will be displayed and counting will slow down.

Note 1: calibrations should be repeated if changing to another wheel diameter or changing pressure tires.

Simulated speed: if "0" is entered as calibration NR., the simulated ground speed feature (default value: 6 Km/h) is enabled - while spraying, the simulated speed can be changed to another value, by use of +/- keys. The simulated speed feature is very useful for testing the whole machine without going in the field; NOTE don't forget, at the end of the test, to re-program the value for the calibration NR.

Adjusting the Pressure Sensor Maximum rating

834 Console has factory settings for a 4 -20mA/10BAR pressure sensor; however, it is possible following the procedure below, to adjust the maximum pressure rating in order to compensate the pressure -drop in the system and match the read -out on a manual gauge installed close to the tips.



Pre-programmed ISOflow -rates and re-programming limits

There are 11 tipflow -rates available: 10 pre-programmed ISO values (0.1 - 15) and a free programmable flow -rate (P)

If needed (tip wearing out, non-ISO tips, etc.), the standard ISO values can be re-programmed within 10% from its (default) value while the free programmable tip can be programmed in the range 0.10LPM - 9.99LPM

TIP	ISOflow -rate	Min:(-10%)	Max:(+10%)	TIP	ISOflow -rate	Min:(-10%)	Max:(+10%)
1	0.1	0.32LPM	0.29LPM	7	0.6	1.74LPM	2.12LPM
2	0.15	0.48LPM	0.43LPM	8	0.8	2.32LPM	2.84LPM
3	0.2	0.64LPM	0.58LPM	9	10	3.22LPM	3.54LPM
4	0.3	0.97LPM	0.87LPM	10	15	4.83LPM	5.31LPM
5	0.4	1.29LPM	1.16LPM	11	P	1.29LPM	0.10LPM
6	0.5	1.61LPM	1.45LPM				

Tipflow -rate re-calibration procedure

1. master off, controller displays the tip; use **+** and **-** to select a tip
2. simultaneously depress **Man** and **Auto** 3sec.: the tip selection led and the tip flow rate figure are flashing
3. use **+** and **-** to set the new flow rate value; depress **Man** to acknowledge the new figure: specific symbols will be displayed as a reminder that the tip flow rate is set to a different value than the initial default ISO value
4. redo steps 1 - 3 as many times as needed.

